

Disclaimer

The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request: cder_mpl1r_wp180

Request ID: cder_mpl1r_wp180_nsdv_v01

Request Description: In this report we assessed counts of individuals with dispensings or administrations of specific insulin products in the Sentinel Distributed Database (SDD) overall, by calendar month, and by type of insurer. We also examined patterns of concomitant codes for multiple insulin products among the same individuals.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 9.3.1

Data Source: We distributed this request to 16 Sentinel Data Partners on March 17, 2020. The study period included data from January 1, 2013 through December 31, 2018. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: We identified individuals with evidence of prevalent insulin use among a cohort of individuals who were 18 years of age or older. We assessed use of specific insulin products and examined the use of billing codes for insulin over time. This is a Type 1 analysis in the Query Request Package (QRP) documentation.

Exposures of Interest: We defined the exposure of interest, insulin, using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) procedure codes. Each qualifying dispensing of insulin (index) was identified; dispensings were not bridged to form exposure episodes. Cohort re-entry was allowed. Please see Appendix B for a list of generic and brand names of medical products and Appendix C for a list of HCPCS procedure codes used to define exposures in this request.

Cohort Eligibility Criteria: We required members included in the cohort to be enrolled in health plans with medical and drug coverage in the 3 days prior to their index exposure date(s). Gaps in coverage of up to 45 days were allowed and treated as continuous enrollment. The following age groups were included in the cohort: 18-44, 45-64, and 65+ years.

Baseline Characteristics: We assessed age and year of exposure on each index date. We recorded the available sex and race information for each patient. We assessed the presence of diagnosis codes specific to Type 1 diabetes mellitus only, Type 2 diabetes mellitus only, or Type 1 or Type 2 diabetes mellitus. We also assessed the absence of diagnosis codes for Type 1 and Type 2 diabetes mellitus. We identified Type 1 and Type 2 diabetes in any care setting in the 3 days before through 180 days after each index date using International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Edition, Clinical Modification (ICD-10-CM) diagnosis codes. We assessed the concomitant occurrence of 24 brand-name insulin product NDCs and 14 HCPCS codes for insulin in the 3 days prior through 3 days after each index date. We identified insulin in any care setting using NDCs (dispensings) and HCPCS codes (administrations). Please see Appendix B for a list of generic and brand names of medical products and Appendix D for a list of diagnosis and procedure codes used to define baseline characteristics in this request.

Please see Appendices E and F for the specifications of parameters used in this analysis for this request and Appendix G for an accompanying design diagram.

Limitations: Algorithms to define exposures and baseline characteristics are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinel-system.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinel-system.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

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**Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module***

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Table 1a. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	107,528,855	100%
Number of unique patients	5,944,918	100%
Demographics	Mean	Standard Deviation
Mean Age	66.4	12.7
Age (years)	Number	Percent
18-44	8,269,097	7.7%
45-64	33,749,596	31.4%
65+	65,510,162	60.9%
Sex		
Female	3,045,963	51.2%
Male	2,898,955	48.8%
Race ²		
Unknown	1,654,819	27.8%
American Indian or Alaska Native	42,428	0.7%
Asian	127,725	2.1%
Black or African American	816,831	13.7%
Native Hawaiian or Other Pacific Islander	14,709	0.2%
White	3,288,406	55.3%
Hispanic Origin ²	247,318	4.2%
Year		
2013	16,992,752	15.8%
2014	17,538,425	16.3%
2015	17,896,357	16.6%
2016	18,514,852	17.2%
2017	18,527,309	17.2%
2018	18,059,160	16.8%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	3,475	0.0%
Afrezza	19,086	0.0%
Apidra and Apidra SoloStar	575,986	0.5%
Basaglar	1,564,261	1.5%
Fiasp	13,656	0.0%
Humalog	16,457,381	15.3%
Humalog Mix 50/50	228,707	0.2%
Humalog Mix 75/25	2,241,470	2.1%
Humulin 70/30	2,527,986	2.4%
Humulin N	3,887,746	3.6%
Humulin R	2,973,803	2.8%
Insulin lispro	0	0.0%
J1815	1,788,797	1.7%
J1817	61,693	0.1%
J1820	12	0.0%
K0548	0	0.0%

Table 1a. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Lantus and Lantus Solostar	41,790,007	38.9%
Levemir	18,218,324	16.9%
Myxredlin	0	0.0%
Novolin 70/30	2,874,762	2.7%
Novolin N	1,921,995	1.8%
Novolin R	2,372,310	2.2%
Novolog	19,296,328	17.9%
Novolog Mix 70/30	3,798,371	3.5%
S5550	1,044	0.0%
S5551	1,480	0.0%
S5552	973	0.0%
S5553	1,279	0.0%
S5560	15	0.0%
S5561	22	0.0%
S5565	*****	0.0%
S5566	*****	0.0%
S5570	16	0.0%
S5571	181	0.0%
Soliqua	71,342	0.1%
Toujeo	2,274,603	2.1%
Tresiba	2,029,273	1.9%
Xultophy	31,261	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	4,197,383	3.9%
Type 2 Diabetes Code Only	77,375,206	72.0%
Type 1 or Type 2 Diabetes Code	102,259,039	95.1%
Neither Type 1 nor Type 2 Diabetes Code	5,269,816	4.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1b. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	1,682,070	100%
Number of unique patients	984,969	100%
Demographics	Mean	Standard Deviation
Mean Age	64.9	14
Age (years)	Number	Percent
18-44	166,254	9.9%
45-64	575,566	34.2%
65+	940,250	55.9%
Sex		
Female	517,254	52.5%
Male	467,715	47.5%
Race ²		
Unknown	196,820	20.0%
American Indian or Alaska Native	10,603	1.1%
Asian	19,504	2.0%
Black or African American	160,554	16.3%
Native Hawaiian or Other Pacific Islander	942	0.1%
White	596,546	60.6%
Hispanic Origin ²	45,410	4.6%
Year		
2013	228,654	13.6%
2014	255,977	15.2%
2015	273,192	16.2%
2016	297,735	17.7%
2017	314,706	18.7%
2018	311,806	18.5%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	18	0.0%
Afrezza	21	0.0%
Apidra and Apidra SoloStar	989	0.1%
Basaglar	3,136	0.2%
Fiasp	25	0.0%
Humalog	56,961	3.4%
Humalog Mix 50/50	324	0.0%
Humalog Mix 75/25	3,550	0.2%
Humulin 70/30	5,010	0.3%
Humulin N	7,134	0.4%
Humulin R	22,583	1.3%
Insulin lispro	0	0.0%
J1815	1,637,480	97.3%
J1817	56,902	3.4%
J1820	12	0.0%
K0548	0	0.0%

Table 1b. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Lantus and Lantus Solostar	94,037	5.6%
Levemir	41,043	2.4%
Myxredlin	0	0.0%
Novolin 70/30	5,032	0.3%
Novolin N	3,444	0.2%
Novolin R	9,522	0.6%
Novolog	56,188	3.3%
Novolog Mix 70/30	6,794	0.4%
S5550	967	0.1%
S5551	1,363	0.1%
S5552	962	0.1%
S5553	1,195	0.1%
S5560	15	0.0%
S5561	19	0.0%
S5565	*****	0.0%
S5566	*****	0.0%
S5570	16	0.0%
S5571	160	0.0%
Soliqua	86	0.0%
Toujeo	3,419	0.2%
Tresiba	3,499	0.2%
Xultophy	42	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	11,765	0.7%
Type 2 Diabetes Code Only	1,247,411	74.2%
Type 1 or Type 2 Diabetes Code	1,628,421	96.8%
Neither Type 1 nor Type 2 Diabetes Code	53,649	3.2%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1c. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1815 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	1,635,916	100%
Number of unique patients	963,617	100%
Demographics	Mean	Standard Deviation
Mean Age	64.9	14
Age (years)	Number	Percent
18-44	162,118	9.9%
45-64	561,971	34.4%
65+	911,827	55.7%
Sex		
Female	505,929	52.5%
Male	457,688	47.5%
Race ²		
Unknown	192,157	19.9%
American Indian or Alaska Native	10,442	1.1%
Asian	19,258	2.0%
Black or African American	157,259	16.3%
Native Hawaiian or Other Pacific Islander	925	0.1%
White	583,576	60.6%
Hispanic Origin ²	44,704	4.6%
Year		
2013	219,031	13.4%
2014	248,228	15.2%
2015	266,194	16.3%
2016	290,216	17.7%
2017	307,528	18.8%
2018	304,719	18.6%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	18	0.0%
Afrezza	21	0.0%
Apidra and Apidra SoloStar	896	0.1%
Basaglar	3,096	0.2%
Fiasp	24	0.0%
Humalog	53,758	3.3%
Humalog Mix 50/50	314	0.0%
Humalog Mix 75/25	3,489	0.2%
Humulin 70/30	4,921	0.3%
Humulin N	7,035	0.4%
Humulin R	22,077	1.3%
Insulin lispro	0	0.0%
J1815	1,635,916	100.0%
J1817	14,378	0.9%
J1820	*****	0.0%
K0548	0	0.0%

Table 1c. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1815 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Lantus and Lantus Solostar	92,413	5.6%
Levemir	40,325	2.5%
Myxredlin	0	0.0%
Novolin 70/30	4,918	0.3%
Novolin N	3,379	0.2%
Novolin R	9,252	0.6%
Novolog	53,779	3.3%
Novolog Mix 70/30	6,639	0.4%
S5550	48	0.0%
S5551	141	0.0%
S5552	*****	0.0%
S5553	253	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	*****	0.0%
S5571	52	0.0%
Soliqua	86	0.0%
Toujeo	3,361	0.2%
Tresiba	3,447	0.2%
Xultophy	42	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	9,869	0.6%
Type 2 Diabetes Code Only	1,216,833	74.4%
Type 1 or Type 2 Diabetes Code	1,583,604	96.8%
Neither Type 1 nor Type 2 Diabetes Code	52,312	3.2%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1d. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1817 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	55,272	100%
Number of unique patients	35,191	100%
Demographics	Mean	Standard Deviation
Mean Age	66.6	13.7
Age (years)	Number	Percent
18-44	4,451	8.1%
45-64	15,933	28.8%
65+	34,888	63.1%
Sex		
Female	19,011	54.0%
Male	16,180	46.0%
Race ²		
Unknown	5,724	16.3%
American Indian or Alaska Native	360	1.0%
Asian	366	1.0%
Black or African American	6,130	17.4%
Native Hawaiian or Other Pacific Islander	27	0.1%
White	22,584	64.2%
Hispanic Origin ²	1,203	3.4%
Year		
2013	11,780	21.3%
2014	9,988	18.1%
2015	8,844	16.0%
2016	8,757	15.8%
2017	8,044	14.6%
2018	7,859	14.2%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	99	0.2%
Basaglar	44	0.1%
Fiasp	*****	0.0%
Humalog	3,495	6.3%
Humalog Mix 50/50	*****	0.0%
Humalog Mix 75/25	88	0.2%
Humulin 70/30	105	0.2%
Humulin N	115	0.2%
Humulin R	476	0.9%
Insulin lispro	0	0.0%
J1815	14,227	25.7%
J1817	55,272	100.0%
J1820	0	0.0%

Table 1d. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1817 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
K0548	0	0.0%
Lantus and Lantus Solostar	2,571	4.7%
Levemir	993	1.8%
Myxredlin	0	0.0%
Novolin 70/30	147	0.3%
Novolin N	87	0.2%
Novolin R	277	0.5%
Novolog	2,945	5.3%
Novolog Mix 70/30	196	0.4%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	*****	0.0%
Toujeo	65	0.1%
Tresiba	58	0.1%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	1,365	2.5%
Type 2 Diabetes Code Only	37,195	67.3%
Type 1 or Type 2 Diabetes Code	53,996	97.7%
Neither Type 1 nor Type 2 Diabetes Code	1,276	2.3%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

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Table 1e. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1820 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	11	100%
Number of unique patients	11	100%
Demographics	Mean	Standard Deviation
Mean Age	59	4
Age (years)	Number	Percent
18-44	0	0.0%
45-64	*****	*****
65+	*****	*****
Sex		
Female	*****	*****
Male	*****	*****
Race ²		
Unknown	*****	*****
American Indian or Alaska Native	0	0.0%
Asian	0	0.0%
Black or African American	0	0.0%
Native Hawaiian or Other Pacific Islander	0	0.0%
White	*****	*****
Hispanic Origin ²	0	0.0%
Year		
2013	*****	*****
2014	*****	*****
2015	*****	*****
2016	0	0.0%
2017	0	0.0%
2018	*****	*****
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	0	0.0%
Basaglar	0	0.0%
Fiasp	0	0.0%
Humalog	0	0.0%
Humalog Mix 50/50	0	0.0%
Humalog Mix 75/25	0	0.0%
Humulin 70/30	*****	*****
Humulin N	0	0.0%
Humulin R	0	0.0%
Insulin lispro	0	0.0%
J1815	*****	*****
J1817	0	0.0%
J1820	11	100.0%
K0548	0	0.0%

Table 1e. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1820 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Lantus and Lantus Solostar	0	0.0%
Levemir	0	0.0%
Myxredlin	0	0.0%
Novolin 70/30	0	0.0%
Novolin N	0	0.0%
Novolin R	0	0.0%
Novolog	0	0.0%
Novolog Mix 70/30	0	0.0%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	0	0.0%
Toujeo	0	0.0%
Tresiba	0	0.0%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	0	0.0%
Type 2 Diabetes Code Only	*****	*****
Type 1 or Type 2 Diabetes Code	*****	*****
Neither Type 1 nor Type 2 Diabetes Code	*****	*****

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1f. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code K0548 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	0	100%
Number of unique patients	0	100%
Demographics	Mean	Standard Deviation
Mean Age	0	0
Age (years)	Number	Percent
18-44	0	0.0%
45-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Race ²		
Unknown	0	0.0%
American Indian or Alaska Native	0	0.0%
Asian	0	0.0%
Black or African American	0	0.0%
Native Hawaiian or Other Pacific Islander	0	0.0%
White	0	0.0%
Hispanic Origin ²	0	0.0%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	0	0.0%
Basaglar	0	0.0%
Fiasp	0	0.0%
Humalog	0	0.0%
Humalog Mix 50/50	0	0.0%
Humalog Mix 75/25	0	0.0%
Humulin 70/30	0	0.0%
Humulin N	0	0.0%
Humulin R	0	0.0%
Insulin lispro	0	0.0%
J1815	0	0.0%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%

Table 1f. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code K0548 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Lantus and Lantus Solostar	0	0.0%
Levemir	0	0.0%
Myxredlin	0	0.0%
Novolin 70/30	0	0.0%
Novolin N	0	0.0%
Novolin R	0	0.0%
Novolog	0	0.0%
Novolog Mix 70/30	0	0.0%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	0	0.0%
Toujeo	0	0.0%
Tresiba	0	0.0%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	0	0.0%
Type 2 Diabetes Code Only	0	0.0%
Type 1 or Type 2 Diabetes Code	0	0.0%
Neither Type 1 nor Type 2 Diabetes Code	0	0.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

Table 1g. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only National Drug Codes (NDCs) in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	105,941,433	100%
Number of unique patients	5,617,952	100%
Demographics	Mean	Standard Deviation
Mean Age	66.4	12.7
Age (years)	Number	Percent
18-44	8,117,463	7.7%
45-64	33,216,124	31.4%
65+	64,607,846	61.0%
Sex		
Female	2,879,780	51.3%
Male	2,738,172	48.7%
Race ²		
Unknown	1,588,833	28.3%
American Indian or Alaska Native	39,700	0.7%
Asian	119,659	2.1%
Black or African American	769,889	13.7%
Native Hawaiian or Other Pacific Islander	14,338	0.3%
White	3,085,533	54.9%
Hispanic Origin ²	233,805	4.2%
Year		
2013	16,771,982	15.8%
2014	17,293,369	16.3%
2015	17,635,407	16.6%
2016	18,234,597	17.2%
2017	18,233,139	17.2%
2018	17,772,939	16.8%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	3,464	0.0%
Afrezza	19,069	0.0%
Apidra and Apidra SoloStar	575,398	0.5%
Basaglar	1,561,917	1.5%
Fiasp	13,638	0.0%
Humalog	16,429,647	15.5%
Humalog Mix 50/50	228,469	0.2%
Humalog Mix 75/25	2,239,007	2.1%
Humulin 70/30	2,524,530	2.4%
Humulin N	3,883,580	3.7%
Humulin R	2,968,551	2.8%
Insulin lispro	0	0.0%
J1815	240,755	0.2%
J1817	10,199	0.0%
J1820	*****	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	41,724,933	39.4%

Table 1g. Baseline Characteristics for Users with an Insulin Dispensing or Administration Defined Using Only National Drug Codes (NDCs) in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	18,189,021	17.2%
Myxredlin	0	0.0%
Novolin 70/30	2,870,954	2.7%
Novolin N	1,919,467	1.8%
Novolin R	2,368,145	2.2%
Novolog	19,259,530	18.2%
Novolog Mix 70/30	3,793,266	3.6%
S5550	279	0.0%
S5551	211	0.0%
S5552	31	0.0%
S5553	257	0.0%
S5560	*****	0.0%
S5561	*****	0.0%
S5565	*****	0.0%
S5566	0	0.0%
S5570	*****	0.0%
S5571	30	0.0%
Soliqua	71,288	0.1%
Toujeo	2,272,063	2.1%
Tresiba	2,026,699	1.9%
Xultophy	31,232	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	4,187,536	4.0%
Type 2 Diabetes Code Only	76,195,803	71.9%
Type 1 or Type 2 Diabetes Code	100,722,071	95.1%
Neither Type 1 nor Type 2 Diabetes Code	5,219,362	4.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1h. Baseline Characteristics for Users with an Admelog and Admelog SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Number of episodes	2,902	100%
Number of unique patients	1,639	100%
Demographics	Mean	Standard Deviation
Mean Age	62.8	14.1
Age (years)	Number	Percent
18-44	315	10.9%
45-64	1,184	40.8%
65+	1,403	48.3%
Sex		
Female	851	51.9%
Male	788	48.1%
Race ²		
Unknown	375	22.9%
American Indian or Alaska Native	*****	*****
Asian	75	4.6%
Black or African American	261	15.9%
Native Hawaiian or Other Pacific Islander	*****	*****
White	916	55.9%
Hispanic Origin ²	164	10.0%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	2,902	100.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	2,902	100.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	*****	*****
Basaglar	499	17.2%
Fiasp	0	0.0%
Humalog	34	1.2%
Humalog Mix 50/50	0	0.0%
Humalog Mix 75/25	*****	*****
Humulin 70/30	*****	*****
Humulin N	*****	*****
Humulin R	*****	*****
Insulin lispro	0	0.0%
J1815	19	0.7%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	348	12.0%

Table 1h. Baseline Characteristics for Users with an Admelog and Admelog SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	142	4.9%
Myxredlin	0	0.0%
Novolin 70/30	*****	*****
Novolin N	*****	*****
Novolin R	*****	*****
Novolog	60	2.1%
Novolog Mix 70/30	*****	*****
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	*****	0.0%
Toujeo	88	3.0%
Tresiba	39	1.3%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	114	3.9%
Type 2 Diabetes Code Only	2,057	70.9%
Type 1 or Type 2 Diabetes Code	2,730	94.1%
Neither Type 1 nor Type 2 Diabetes Code	172	5.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1i. Baseline Characteristics for Users with an Afrezza Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	17,156	100%
Number of unique patients	3,477	100%
Demographics	Mean	Standard Deviation
Mean Age	56.7	13.6
Age (years)	Number	Percent
18-44	4,068	23.7%
45-64	6,808	39.7%
65+	6,280	36.6%
Sex		
Female	1,566	45.0%
Male	1,911	55.0%
Race ²		
Unknown	1,864	53.6%
American Indian or Alaska Native	*****	*****
Asian	98	2.8%
Black or African American	227	6.5%
Native Hawaiian or Other Pacific Islander	*****	*****
White	1,274	36.6%
Hispanic Origin ²	148	4.3%
Year		
2013	0	0.0%
2014	0	0.0%
2015	3,575	20.8%
2016	3,939	23.0%
2017	3,985	23.2%
2018	5,657	33.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	17,156	100.0%
Apidra and Apidra SoloStar	74	0.4%
Basaglar	96	0.6%
Fiasp	22	0.1%
Humalog	487	2.8%
Humalog Mix 50/50	15	0.1%
Humalog Mix 75/25	16	0.1%
Humulin 70/30	0	0.0%
Humulin N	14	0.1%
Humulin R	21	0.1%
Insulin lispro	0	0.0%
J1815	20	0.1%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	840	4.9%

Table 1i. Baseline Characteristics for Users with an Afrezza Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	462	2.7%
Myxredlin	0	0.0%
Novolin 70/30	*****	0.0%
Novolin N	*****	0.0%
Novolin R	*****	0.0%
Novolog	229	1.3%
Novolog Mix 70/30	17	0.1%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	17	0.1%
Toujeo	769	4.5%
Tresiba	597	3.5%
Xultophy	*****	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	3,644	21.2%
Type 2 Diabetes Code Only	8,479	49.4%
Type 1 or Type 2 Diabetes Code	16,095	93.8%
Neither Type 1 nor Type 2 Diabetes Code	1,061	6.2%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1j. Baseline Characteristics for Users with an Apidra and Apidra SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	517,809	100%
Number of unique patients	72,811	100%
Demographics	Mean	Standard Deviation
Mean Age	59.6	13.1
Age (years)	Number	Percent
18-44	94,505	18.3%
45-64	200,541	38.7%
65+	222,763	43.0%
Sex		
Female	37,289	51.2%
Male	35,522	48.8%
Race ²		
Unknown	28,349	38.9%
American Indian or Alaska Native	222	0.3%
Asian	969	1.3%
Black or African American	6,843	9.4%
Native Hawaiian or Other Pacific Islander	81	0.1%
White	36,347	49.9%
Hispanic Origin ²	1,972	2.7%
Year		
2013	129,287	25.0%
2014	126,865	24.5%
2015	109,746	21.2%
2016	71,817	13.9%
2017	46,160	8.9%
2018	33,934	6.6%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	72	0.0%
Apidra and Apidra SoloStar	517,809	100.0%
Basaglar	2,136	0.4%
Fiasp	15	0.0%
Humalog	2,499	0.5%
Humalog Mix 50/50	152	0.0%
Humalog Mix 75/25	504	0.1%
Humulin 70/30	357	0.1%
Humulin N	1,625	0.3%
Humulin R	787	0.2%
Insulin lispro	0	0.0%
J1815	837	0.2%
J1817	99	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	122,065	23.6%

Table 1j. Baseline Characteristics for Users with an Apidra and Apidra SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Levemir	27,526	5.3%
Myxredlin	0	0.0%
Novolin 70/30	321	0.1%
Novolin N	849	0.2%
Novolin R	478	0.1%
Novolog	2,175	0.4%
Novolog Mix 70/30	793	0.2%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	83	0.0%
Toujeo	7,278	1.4%
Tresiba	3,121	0.6%
Xultophy	27	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	65,567	12.7%
Type 2 Diabetes Code Only	277,391	53.6%
Type 1 or Type 2 Diabetes Code	488,583	94.4%
Neither Type 1 nor Type 2 Diabetes Code	29,226	5.6%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1k. Baseline Characteristics for Users with a Basaglar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	1,454,654	100%
Number of unique patients	304,408	100%
Demographics	Mean	Standard Deviation
Mean Age	62.2	12.1
Age (years)	Number	Percent
18-44	160,561	11.0%
45-64	645,598	44.4%
65+	648,495	44.6%
Sex		
Female	152,231	50.0%
Male	152,177	50.0%
Race ²		
Unknown	115,105	37.8%
American Indian or Alaska Native	1,543	0.5%
Asian	6,600	2.2%
Black or African American	35,593	11.7%
Native Hawaiian or Other Pacific Islander	113	0.0%
White	145,454	47.8%
Hispanic Origin ²	13,455	4.4%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	186	0.0%
2017	241,117	16.6%
2018	1,213,351	83.4%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	491	0.0%
Afrezza	95	0.0%
Apidra and Apidra SoloStar	2,076	0.1%
Basaglar	1,454,654	100.0%
Fiasp	290	0.0%
Humalog	112,259	7.7%
Humalog Mix 50/50	145	0.0%
Humalog Mix 75/25	1,047	0.1%
Humulin 70/30	682	0.0%
Humulin N	689	0.0%
Humulin R	3,489	0.2%
Insulin lispro	0	0.0%
J1815	2,777	0.2%
J1817	43	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	5,231	0.4%

Table 1k. Baseline Characteristics for Users with a Basaglar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	6,487	0.4%
Myxredlin	0	0.0%
Novolin 70/30	906	0.1%
Novolin N	652	0.0%
Novolin R	5,635	0.4%
Novolog	130,927	9.0%
Novolog Mix 70/30	2,902	0.2%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	243	0.0%
Toujeo	520	0.0%
Tresiba	1,211	0.1%
Xultophy	23	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	71,248	4.9%
Type 2 Diabetes Code Only	1,112,849	76.5%
Type 1 or Type 2 Diabetes Code	1,345,816	92.5%
Neither Type 1 nor Type 2 Diabetes Code	108,838	7.5%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

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Table 11. Baseline Characteristics for Users with a Fiasp Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	12,180	100%
Number of unique patients	4,959	100%
Demographics	Mean	Standard Deviation
Mean Age	54.4	14
Age (years)	Number	Percent
18-44	3,692	30.3%
45-64	4,361	35.8%
65+	4,127	33.9%
Sex		
Female	2,474	49.9%
Male	2,485	50.1%
Race ²		
Unknown	1,999	40.3%
American Indian or Alaska Native	*****	*****
Asian	55	1.1%
Black or African American	374	7.5%
Native Hawaiian or Other Pacific Islander	*****	*****
White	2,509	50.6%
Hispanic Origin ²	123	2.5%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	*****	*****
2018	*****	*****
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	19	0.2%
Apidra and Apidra SoloStar	15	0.1%
Basaglar	294	2.4%
Fiasp	12,180	100.0%
Humalog	122	1.0%
Humalog Mix 50/50	*****	0.0%
Humalog Mix 75/25	0	0.0%
Humulin 70/30	*****	0.0%
Humulin N	*****	0.1%
Humulin R	14	0.1%
Insulin lispro	0	0.0%
J1815	22	0.2%
J1817	*****	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	402	3.3%

Table 11. Baseline Characteristics for Users with a Fiasp Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	302	2.5%
Myxredlin	0	0.0%
Novolin 70/30	*****	0.0%
Novolin N	11	0.1%
Novolin R	11	0.1%
Novolog	117	1.0%
Novolog Mix 70/30	14	0.1%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	11	0.1%
Toujeo	278	2.3%
Tresiba	1,447	11.9%
Xultophy	19	0.2%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	3,711	30.5%
Type 2 Diabetes Code Only	4,154	34.1%
Type 1 or Type 2 Diabetes Code	11,663	95.8%
Neither Type 1 nor Type 2 Diabetes Code	517	4.2%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1m. Baseline Characteristics for Users with a Humalog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	14,842,175	100%
Number of unique patients	1,699,064	100%
Demographics	Mean	Standard Deviation
Mean Age	61.7	13.9
Age (years)	Number	Percent
18-44	2,459,211	16.6%
45-64	5,107,068	34.4%
65+	7,275,896	49.0%
Sex		
Female	876,404	51.6%
Male	822,660	48.4%
Race ²		
Unknown	589,924	34.7%
American Indian or Alaska Native	7,041	0.4%
Asian	29,375	1.7%
Black or African American	190,981	11.2%
Native Hawaiian or Other Pacific Islander	2,919	0.2%
White	878,824	51.7%
Hispanic Origin ²	53,760	3.2%
Year		
2013	1,961,869	13.2%
2014	2,285,811	15.4%
2015	2,441,009	16.4%
2016	2,883,224	19.4%
2017	2,702,421	18.2%
2018	2,567,841	17.3%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	38	0.0%
Afrezza	463	0.0%
Apidra and Apidra SoloStar	2,459	0.0%
Basaglar	111,383	0.8%
Fiasp	118	0.0%
Humalog	14,842,175	100.0%
Humalog Mix 50/50	3,239	0.0%
Humalog Mix 75/25	40,459	0.3%
Humulin 70/30	33,176	0.2%
Humulin N	244,692	1.6%
Humulin R	31,620	0.2%
Insulin lispro	0	0.0%
J1815	48,140	0.3%
J1817	3,466	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	3,528,678	23.8%

Table 1m. Baseline Characteristics for Users with a Humalog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	1,021,958	6.9%
Myxredlin	0	0.0%
Novolin 70/30	8,471	0.1%
Novolin N	20,147	0.1%
Novolin R	6,361	0.0%
Novolog	52,391	0.4%
Novolog Mix 70/30	10,924	0.1%
S5550	36	0.0%
S5551	72	0.0%
S5552	*****	0.0%
S5553	96	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	*****	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	2,152	0.0%
Toujeo	173,599	1.2%
Tresiba	82,973	0.6%
Xultophy	541	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	1,771,314	11.9%
Type 2 Diabetes Code Only	8,617,653	58.1%
Type 1 or Type 2 Diabetes Code	13,989,511	94.3%
Neither Type 1 nor Type 2 Diabetes Code	852,664	5.7%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

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Table 1n. Baseline Characteristics for Users with a Humalog Mix 75/25 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,183,210	100%
Number of unique patients	201,640	100%
Demographics	Mean	Standard Deviation
Mean Age	68.1	11.2
Age (years)	Number	Percent
18-44	98,293	4.5%
45-64	655,786	30.0%
65+	1,429,131	65.5%
Sex		
Female	106,278	52.7%
Male	95,362	47.3%
Race ²		
Unknown	59,575	29.5%
American Indian or Alaska Native	492	0.2%
Asian	4,027	2.0%
Black or African American	33,880	16.8%
Native Hawaiian or Other Pacific Islander	308	0.2%
White	103,358	51.3%
Hispanic Origin ²	8,094	4.0%
Year		
2013	366,615	16.8%
2014	394,529	18.1%
2015	388,711	17.8%
2016	424,720	19.5%
2017	334,001	15.3%
2018	274,634	12.6%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	16	0.0%
Apidra and Apidra SoloStar	504	0.0%
Basaglar	1,048	0.0%
Fiasp	0	0.0%
Humalog	40,676	1.9%
Humalog Mix 50/50	2,243	0.1%
Humalog Mix 75/25	2,183,210	100.0%
Humulin 70/30	1,404	0.1%
Humulin N	4,417	0.2%
Humulin R	8,032	0.4%
Insulin lispro	0	0.0%
J1815	3,222	0.1%
J1817	79	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	64,194	2.9%

Table 1n. Baseline Characteristics for Users with a Humalog Mix 75/25 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	26,115	1.2%
Myxredlin	0	0.0%
Novolin 70/30	647	0.0%
Novolin N	358	0.0%
Novolin R	1,590	0.1%
Novolog	6,661	0.3%
Novolog Mix 70/30	3,594	0.2%
S5550	*****	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	121	0.0%
Toujeo	3,154	0.1%
Tresiba	1,212	0.1%
Xultophy	20	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	33,874	1.6%
Type 2 Diabetes Code Only	1,638,689	75.1%
Type 1 or Type 2 Diabetes Code	2,073,416	95.0%
Neither Type 1 nor Type 2 Diabetes Code	109,794	5.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1o. Baseline Characteristics for Users with a Humalog Mix 50/50 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	219,001	100%
Number of unique patients	22,614	100%
Demographics	Mean	Standard Deviation
Mean Age	66.7	11.2
Age (years)	Number	Percent
18-44	11,201	5.1%
45-64	72,823	33.3%
65+	134,977	61.6%
Sex		
Female	11,363	50.2%
Male	11,251	49.8%
Race ²		
Unknown	6,449	28.5%
American Indian or Alaska Native	54	0.2%
Asian	633	2.8%
Black or African American	3,146	13.9%
Native Hawaiian or Other Pacific Islander	36	0.2%
White	12,296	54.4%
Hispanic Origin ²	830	3.7%
Year		
2013	45,737	20.9%
2014	45,525	20.8%
2015	41,478	18.9%
2016	36,816	16.8%
2017	27,375	12.5%
2018	22,070	10.1%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	15	0.0%
Apidra and Apidra SoloStar	152	0.1%
Basaglar	152	0.1%
Fiasp	*****	0.0%
Humalog	3,259	1.5%
Humalog Mix 50/50	219,001	100.0%
Humalog Mix 75/25	2,249	1.0%
Humulin 70/30	429	0.2%
Humulin N	991	0.5%
Humulin R	596	0.3%
Insulin lispro	0	0.0%
J1815	291	0.1%
J1817	*****	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	10,384	4.7%

Table 1o. Baseline Characteristics for Users with a Humalog Mix 50/50 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	4,279	2.0%
Myxredlin	0	0.0%
Novolin 70/30	161	0.1%
Novolin N	229	0.1%
Novolin R	188	0.1%
Novolog	1,522	0.7%
Novolog Mix 70/30	809	0.4%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	17	0.0%
Toujeo	608	0.3%
Tresiba	322	0.1%
Xultophy	*****	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	2,745	1.3%
Type 2 Diabetes Code Only	162,758	74.3%
Type 1 or Type 2 Diabetes Code	210,460	96.1%
Neither Type 1 nor Type 2 Diabetes Code	8,541	3.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1p. Baseline Characteristics for Users with a Humulin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	3,714,097	100%
Number of unique patients	381,007	100%
Demographics	Mean	Standard Deviation
Mean Age	65	12.6
Age (years)	Number	Percent
18-44	335,952	9.0%
45-64	1,328,063	35.8%
65+	2,050,082	55.2%
Sex		
Female	209,542	55.0%
Male	171,465	45.0%
Race ²		
Unknown	101,755	26.7%
American Indian or Alaska Native	2,785	0.7%
Asian	26,031	6.8%
Black or African American	46,373	12.2%
Native Hawaiian or Other Pacific Islander	5,907	1.6%
White	198,156	52.0%
Hispanic Origin ²	40,114	10.5%
Year		
2013	658,132	17.7%
2014	647,970	17.4%
2015	639,695	17.2%
2016	651,198	17.5%
2017	578,041	15.6%
2018	539,061	14.5%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	14	0.0%
Apidra and Apidra SoloStar	1,619	0.0%
Basaglar	704	0.0%
Fiasp	*****	0.0%
Humalog	245,605	6.6%
Humalog Mix 50/50	988	0.0%
Humalog Mix 75/25	4,419	0.1%
Humulin 70/30	10,980	0.3%
Humulin N	3,714,097	100.0%
Humulin R	505,841	13.6%
Insulin lispro	0	0.0%
J1815	6,229	0.2%
J1817	105	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	35,156	0.9%

Table 1p. Baseline Characteristics for Users with a Humulin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	10,736	0.3%
Myxredlin	0	0.0%
Novolin 70/30	651	0.0%
Novolin N	2,807	0.1%
Novolin R	9,126	0.2%
Novolog	39,866	1.1%
Novolog Mix 70/30	1,919	0.1%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	22	0.0%
Toujeo	936	0.0%
Tresiba	470	0.0%
Xultophy	*****	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	91,767	2.5%
Type 2 Diabetes Code Only	2,847,064	76.7%
Type 1 or Type 2 Diabetes Code	3,366,378	90.6%
Neither Type 1 nor Type 2 Diabetes Code	347,719	9.4%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1q. Baseline Characteristics for Users with a Humulin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,466,588	100%
Number of unique patients	228,274	100%
Demographics	Mean	Standard Deviation
Mean Age	68.7	11.5
Age (years)	Number	Percent
18-44	99,924	4.1%
45-64	724,398	29.4%
65+	1,642,266	66.6%
Sex		
Female	121,620	53.3%
Male	106,654	46.7%
Race ²		
Unknown	51,256	22.5%
American Indian or Alaska Native	1,340	0.6%
Asian	7,402	3.2%
Black or African American	51,067	22.4%
Native Hawaiian or Other Pacific Islander	1,093	0.5%
White	116,116	50.9%
Hispanic Origin ²	15,885	7.0%
Year		
2013	504,306	20.4%
2014	479,046	19.4%
2015	444,172	18.0%
2016	439,033	17.8%
2017	324,079	13.1%
2018	275,952	11.2%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	361	0.0%
Basaglar	698	0.0%
Fiasp	*****	0.0%
Humalog	33,386	1.4%
Humalog Mix 50/50	426	0.0%
Humalog Mix 75/25	1,404	0.1%
Humulin 70/30	2,466,588	100.0%
Humulin N	10,984	0.4%
Humulin R	40,960	1.7%
Insulin lispro	0	0.0%
J1815	4,460	0.2%
J1817	102	0.0%
J1820	*****	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	49,374	2.0%

Table 1q. Baseline Characteristics for Users with a Humulin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	15,444	0.6%
Myxredlin	0	0.0%
Novolin 70/30	2,701	0.1%
Novolin N	535	0.0%
Novolin R	4,801	0.2%
Novolog	9,384	0.4%
Novolog Mix 70/30	2,033	0.1%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	30	0.0%
Toujeo	1,040	0.0%
Tresiba	349	0.0%
Xultophy	*****	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	38,257	1.6%
Type 2 Diabetes Code Only	1,860,748	75.4%
Type 1 or Type 2 Diabetes Code	2,321,722	94.1%
Neither Type 1 nor Type 2 Diabetes Code	144,866	5.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1r. Baseline Characteristics for Users with a Humulin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,723,216	100%
Number of unique patients	362,065	100%
Demographics	Mean	Standard Deviation
Mean Age	64.9	13
Age (years)	Number	Percent
18-44	226,057	8.3%
45-64	1,065,359	39.1%
65+	1,431,800	52.6%
Sex		
Female	193,560	53.5%
Male	168,505	46.5%
Race ²		
Unknown	84,795	23.4%
American Indian or Alaska Native	2,530	0.7%
Asian	14,165	3.9%
Black or African American	50,515	14.0%
Native Hawaiian or Other Pacific Islander	2,304	0.6%
White	207,756	57.4%
Hispanic Origin ²	25,400	7.0%
Year		
2013	475,437	17.5%
2014	476,477	17.5%
2015	461,028	16.9%
2016	468,095	17.2%
2017	432,226	15.9%
2018	409,953	15.1%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	21	0.0%
Apidra and Apidra SoloStar	784	0.0%
Basaglar	3,528	0.1%
Fiasp	14	0.0%
Humalog	31,256	1.1%
Humalog Mix 50/50	590	0.0%
Humalog Mix 75/25	7,968	0.3%
Humulin 70/30	40,781	1.5%
Humulin N	505,411	18.6%
Humulin R	2,723,216	100.0%
Insulin lispro	0	0.0%
J1815	20,440	0.8%
J1817	469	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	285,760	10.5%

Table 1r. Baseline Characteristics for Users with a Humulin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	91,112	3.3%
Myxredlin	0	0.0%
Novolin 70/30	6,637	0.2%
Novolin N	10,568	0.4%
Novolin R	3,726	0.1%
Novolog	14,956	0.5%
Novolog Mix 70/30	5,122	0.2%
S5550	90	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	37	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	99	0.0%
Toujeo	6,245	0.2%
Tresiba	3,758	0.1%
Xultophy	28	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	65,286	2.4%
Type 2 Diabetes Code Only	2,002,393	73.5%
Type 1 or Type 2 Diabetes Code	2,562,862	94.1%
Neither Type 1 nor Type 2 Diabetes Code	160,354	5.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

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Table 1s. Baseline Characteristics for Users with an Insulin Lispro Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	0	100%
Number of unique patients	0	100%
Demographics	Mean	Standard Deviation
Mean Age	0	0
Age (years)	Number	Percent
18-44	0	0.0%
45-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Race ²		
Unknown	0	0.0%
American Indian or Alaska Native	0	0.0%
Asian	0	0.0%
Black or African American	0	0.0%
Native Hawaiian or Other Pacific Islander	0	0.0%
White	0	0.0%
Hispanic Origin ²	0	0.0%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	0	0.0%
Basaglar	0	0.0%
Fiasp	0	0.0%
Humalog	0	0.0%
Humalog Mix 50/50	0	0.0%
Humalog Mix 75/25	0	0.0%
Humulin 70/30	0	0.0%
Humulin N	0	0.0%
Humulin R	0	0.0%
Insulin lispro	0	0.0%
J1815	0	0.0%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	0	0.0%

Table 1s. Baseline Characteristics for Users with an Insulin Lispro Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Levemir	0	0.0%
Myxredlin	0	0.0%
Novolin 70/30	0	0.0%
Novolin N	0	0.0%
Novolin R	0	0.0%
Novolog	0	0.0%
Novolog Mix 70/30	0	0.0%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	0	0.0%
Toujeo	0	0.0%
Tresiba	0	0.0%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	0	0.0%
Type 2 Diabetes Code Only	0	0.0%
Type 1 or Type 2 Diabetes Code	0	0.0%
Neither Type 1 nor Type 2 Diabetes Code	0	0.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1t. Baseline Characteristics for Users with a Lantus and Lantus Solostar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	39,326,260	100%
Number of unique patients	3,118,937	100%
Demographics	Mean	Standard Deviation
Mean Age	67.3	12.3
Age (years)	Number	Percent
18-44	2,429,669	6.2%
45-64	11,933,929	30.3%
65+	24,962,662	63.5%
Sex		
Female	1,585,969	50.8%
Male	1,532,968	49.2%
Race ²		
Unknown	831,721	26.7%
American Indian or Alaska Native	17,974	0.6%
Asian	59,953	1.9%
Black or African American	426,300	13.7%
Native Hawaiian or Other Pacific Islander	5,753	0.2%
White	1,777,236	57.0%
Hispanic Origin ²	122,601	3.9%
Year		
2013	7,168,119	18.2%
2014	7,188,005	18.3%
2015	7,118,821	18.1%
2016	6,846,373	17.4%
2017	6,313,689	16.1%
2018	4,691,253	11.9%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	353	0.0%
Afrezza	837	0.0%
Apidra and Apidra SoloStar	121,908	0.3%
Basaglar	5,144	0.0%
Fiasp	403	0.0%
Humalog	3,523,527	9.0%
Humalog Mix 50/50	10,388	0.0%
Humalog Mix 75/25	64,167	0.2%
Humulin 70/30	49,348	0.1%
Humulin N	35,167	0.1%
Humulin R	286,432	0.7%
Insulin lispro	0	0.0%
J1815	83,085	0.2%
J1817	2,432	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	39,326,260	100.0%

Table 1t. Baseline Characteristics for Users with a Lantus and Lantus Solostar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	40,297	0.1%
Myxredlin	0	0.0%
Novolin 70/30	55,993	0.1%
Novolin N	29,361	0.1%
Novolin R	321,295	0.8%
Novolog	3,646,356	9.3%
Novolog Mix 70/30	116,092	0.3%
S5550	52	0.0%
S5551	67	0.0%
S5552	*****	0.0%
S5553	56	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	333	0.0%
Toujeo	8,531	0.0%
Tresiba	6,567	0.0%
Xultophy	86	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	1,085,241	2.8%
Type 2 Diabetes Code Only	29,165,395	74.2%
Type 1 or Type 2 Diabetes Code	37,375,791	95.0%
Neither Type 1 nor Type 2 Diabetes Code	1,950,469	5.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1u. Baseline Characteristics for Users with a Levemir Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	16,966,889	100%
Number of unique patients	1,500,610	100%
Demographics	Mean	Standard Deviation
Mean Age	67.1	12.1
Age (years)	Number	Percent
18-44	1,003,151	5.9%
45-64	5,421,096	32.0%
65+	10,542,642	62.1%
Sex		
Female	788,422	52.5%
Male	712,188	47.5%
Race ²		
Unknown	393,687	26.2%
American Indian or Alaska Native	18,016	1.2%
Asian	24,506	1.6%
Black or African American	220,860	14.7%
Native Hawaiian or Other Pacific Islander	1,631	0.1%
White	841,910	56.1%
Hispanic Origin ²	58,421	3.9%
Year		
2013	2,203,083	13.0%
2014	2,689,373	15.9%
2015	3,030,370	17.9%
2016	3,143,941	18.5%
2017	2,931,362	17.3%
2018	2,968,760	17.5%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	149	0.0%
Afrezza	452	0.0%
Apidra and Apidra SoloStar	27,444	0.2%
Basaglar	6,378	0.0%
Fiasp	305	0.0%
Humalog	1,021,080	6.0%
Humalog Mix 50/50	4,265	0.0%
Humalog Mix 75/25	26,028	0.2%
Humulin 70/30	15,411	0.1%
Humulin N	10,741	0.1%
Humulin R	91,349	0.5%
Insulin lispro	0	0.0%
J1815	36,168	0.2%
J1817	942	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	40,397	0.2%

Table 1u. Baseline Characteristics for Users with a Levemir Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	16,966,889	100.0%
Myxredlin	0	0.0%
Novolin 70/30	23,706	0.1%
Novolin N	12,190	0.1%
Novolin R	161,350	1.0%
Novolog	2,187,966	12.9%
Novolog Mix 70/30	70,425	0.4%
S5550	36	0.0%
S5551	32	0.0%
S5552	*****	0.0%
S5553	102	0.0%
S5560	*****	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	*****	0.0%
S5571	*****	0.0%
Soliqua	224	0.0%
Toujeo	3,285	0.0%
Tresiba	5,737	0.0%
Xultophy	100	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	314,121	1.9%
Type 2 Diabetes Code Only	12,916,420	76.1%
Type 1 or Type 2 Diabetes Code	16,174,600	95.3%
Neither Type 1 nor Type 2 Diabetes Code	792,289	4.7%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1v. Baseline Characteristics for Users with a Myxredlin Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	0	100%
Number of unique patients	0	100%
Demographics	Mean	Standard Deviation
Mean Age	0	0
Age (years)	Number	Percent
18-44	0	0.0%
45-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Race ²		
Unknown	0	0.0%
American Indian or Alaska Native	0	0.0%
Asian	0	0.0%
Black or African American	0	0.0%
Native Hawaiian or Other Pacific Islander	0	0.0%
White	0	0.0%
Hispanic Origin ²	0	0.0%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	0	0.0%
Apidra and Apidra SoloStar	0	0.0%
Basaglar	0	0.0%
Fiasp	0	0.0%
Humalog	0	0.0%
Humalog Mix 50/50	0	0.0%
Humalog Mix 75/25	0	0.0%
Humulin 70/30	0	0.0%
Humulin N	0	0.0%
Humulin R	0	0.0%
Insulin lispro	0	0.0%
J1815	0	0.0%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	0	0.0%

Table 1v. Baseline Characteristics for Users with a Myxredlin Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	0	0.0%
Myxredlin	0	0.0%
Novolin 70/30	0	0.0%
Novolin N	0	0.0%
Novolin R	0	0.0%
Novolog	0	0.0%
Novolog Mix 70/30	0	0.0%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	0	0.0%
Toujeo	0	0.0%
Tresiba	0	0.0%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	0	0.0%
Type 2 Diabetes Code Only	0	0.0%
Type 1 or Type 2 Diabetes Code	0	0.0%
Neither Type 1 nor Type 2 Diabetes Code	0	0.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1w. Baseline Characteristics for Users with a Novolin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	1,793,945	100%
Number of unique patients	196,160	100%
Demographics	Mean	Standard Deviation
Mean Age	69.1	11.7
Age (years)	Number	Percent
18-44	78,753	4.4%
45-64	451,962	25.2%
65+	1,263,230	70.4%
Sex		
Female	106,442	54.3%
Male	89,718	45.7%
Race ²		
Unknown	35,350	18.0%
American Indian or Alaska Native	2,163	1.1%
Asian	3,292	1.7%
Black or African American	32,014	16.3%
Native Hawaiian or Other Pacific Islander	459	0.2%
White	122,882	62.6%
Hispanic Origin ²	8,850	4.5%
Year		
2013	357,308	19.9%
2014	321,886	17.9%
2015	305,619	17.0%
2016	268,728	15.0%
2017	285,690	15.9%
2018	254,714	14.2%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	*****	0.0%
Apidra and Apidra SoloStar	848	0.0%
Basaglar	640	0.0%
Fiasp	11	0.0%
Humalog	20,095	1.1%
Humalog Mix 50/50	226	0.0%
Humalog Mix 75/25	359	0.0%
Humulin 70/30	536	0.0%
Humulin N	2,769	0.2%
Humulin R	10,546	0.6%
Insulin lispro	0	0.0%
J1815	2,929	0.2%
J1817	83	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	29,269	1.6%

Table 1w. Baseline Characteristics for Users with a Novolin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	12,136	0.7%
Myxredlin	0	0.0%
Novolin 70/30	8,747	0.5%
Novolin N	1,793,945	100.0%
Novolin R	247,060	13.8%
Novolog	113,748	6.3%
Novolog Mix 70/30	3,626	0.2%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	18	0.0%
Toujeo	688	0.0%
Tresiba	675	0.0%
Xultophy	0	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	36,784	2.1%
Type 2 Diabetes Code Only	1,322,085	73.7%
Type 1 or Type 2 Diabetes Code	1,705,277	95.1%
Neither Type 1 nor Type 2 Diabetes Code	88,668	4.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1x. Baseline Characteristics for Users with a Novolin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,794,273	100%
Number of unique patients	252,871	100%
Demographics	Mean	Standard Deviation
Mean Age	69.6	11
Age (years)	Number	Percent
18-44	73,955	2.6%
45-64	730,834	26.2%
65+	1,989,484	71.2%
Sex		
Female	135,902	53.7%
Male	116,969	46.3%
Race ²		
Unknown	40,286	15.9%
American Indian or Alaska Native	3,761	1.5%
Asian	4,025	1.6%
Black or African American	60,914	24.1%
Native Hawaiian or Other Pacific Islander	587	0.2%
White	143,298	56.7%
Hispanic Origin ²	14,749	5.8%
Year		
2013	576,925	20.6%
2014	515,022	18.4%
2015	476,397	17.0%
2016	408,960	14.6%
2017	432,482	15.5%
2018	384,487	13.8%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	*****	0.0%
Apidra and Apidra SoloStar	322	0.0%
Basaglar	901	0.0%
Fiasp	*****	0.0%
Humalog	8,446	0.3%
Humalog Mix 50/50	161	0.0%
Humalog Mix 75/25	634	0.0%
Humulin 70/30	2,645	0.1%
Humulin N	645	0.0%
Humulin R	6,624	0.2%
Insulin lispro	0	0.0%
J1815	4,471	0.2%
J1817	138	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	55,930	2.0%

Table 1x. Baseline Characteristics for Users with a Novolin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	23,639	0.8%
Myxredlin	0	0.0%
Novolin 70/30	2,794,273	100.0%
Novolin N	8,741	0.3%
Novolin R	62,718	2.2%
Novolog	43,545	1.6%
Novolog Mix 70/30	7,251	0.3%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	0	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	18	0.0%
Toujeo	858	0.0%
Tresiba	1,151	0.0%
Xultophy	*****	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	34,378	1.2%
Type 2 Diabetes Code Only	2,117,875	75.8%
Type 1 or Type 2 Diabetes Code	2,672,462	95.6%
Neither Type 1 nor Type 2 Diabetes Code	121,811	4.4%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1y. Baseline Characteristics for Users with a Novolin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,089,963	100%
Number of unique patients	300,606	100%
Demographics	Mean	Standard Deviation
Mean Age	70.7	12.9
Age (years)	Number	Percent
18-44	80,159	3.8%
45-64	538,578	25.8%
65+	1,471,226	70.4%
Sex		
Female	169,276	56.3%
Male	131,330	43.7%
Race ²		
Unknown	42,248	14.1%
American Indian or Alaska Native	4,040	1.3%
Asian	6,775	2.3%
Black or African American	54,872	18.3%
Native Hawaiian or Other Pacific Islander	419	0.1%
White	192,252	64.0%
Hispanic Origin ²	14,931	5.0%
Year		
2013	488,279	23.4%
2014	402,303	19.2%
2015	343,302	16.4%
2016	294,516	14.1%
2017	295,959	14.2%
2018	265,604	12.7%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	*****	0.0%
Apidra and Apidra SoloStar	479	0.0%
Basaglar	5,499	0.3%
Fiasp	11	0.0%
Humalog	6,256	0.3%
Humalog Mix 50/50	190	0.0%
Humalog Mix 75/25	1,579	0.1%
Humulin 70/30	4,772	0.2%
Humulin N	9,086	0.4%
Humulin R	3,710	0.2%
Insulin lispro	0	0.0%
J1815	8,474	0.4%
J1817	277	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	320,265	15.3%

Table 1y. Baseline Characteristics for Users with a Novolin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	160,174	7.7%
Myxredlin	0	0.0%
Novolin 70/30	62,587	3.0%
Novolin N	246,994	11.8%
Novolin R	2,089,963	100.0%
Novolog	33,258	1.6%
Novolog Mix 70/30	20,141	1.0%
S5550	38	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	62	0.0%
Toujeo	4,985	0.2%
Tresiba	5,384	0.3%
Xultophy	16	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	31,655	1.5%
Type 2 Diabetes Code Only	1,520,405	72.7%
Type 1 or Type 2 Diabetes Code	2,009,363	96.1%
Neither Type 1 nor Type 2 Diabetes Code	80,600	3.9%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1z. Baseline Characteristics for Users with a Novolog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	17,167,717	100%
Number of unique patients	1,858,492	100%
Demographics	Mean	Standard Deviation
Mean Age	65.8	13.7
Age (years)	Number	Percent
18-44	1,594,937	9.3%
45-64	5,441,257	31.7%
65+	10,131,523	59.0%
Sex		
Female	995,685	53.6%
Male	862,807	46.4%
Race ²		
Unknown	388,454	20.9%
American Indian or Alaska Native	17,251	0.9%
Asian	32,212	1.7%
Black or African American	280,683	15.1%
Native Hawaiian or Other Pacific Islander	2,468	0.1%
White	1,137,424	61.2%
Hispanic Origin ²	68,401	3.7%
Year		
2013	2,891,989	16.8%
2014	2,831,907	16.5%
2015	2,851,618	16.6%
2016	2,705,106	15.8%
2017	2,951,852	17.2%
2018	2,935,245	17.1%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	60	0.0%
Afrezza	228	0.0%
Apidra and Apidra SoloStar	2,167	0.0%
Basaglar	130,068	0.8%
Fiasp	119	0.0%
Humalog	52,160	0.3%
Humalog Mix 50/50	1,508	0.0%
Humalog Mix 75/25	6,593	0.0%
Humulin 70/30	9,287	0.1%
Humulin N	39,757	0.2%
Humulin R	15,020	0.1%
Insulin lispro	0	0.0%
J1815	49,032	0.3%
J1817	2,863	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	3,645,379	21.2%

Table 1z. Baseline Characteristics for Users with a Novolog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	2,185,615	12.7%
Myxredlin	0	0.0%
Novolin 70/30	43,516	0.3%
Novolin N	113,934	0.7%
Novolin R	33,543	0.2%
Novolog	17,167,717	100.0%
Novolog Mix 70/30	87,080	0.5%
S5550	37	0.0%
S5551	40	0.0%
S5552	*****	0.0%
S5553	26	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	*****	0.0%
S5571	*****	0.0%
Soliqua	1,300	0.0%
Toujeo	137,956	0.8%
Tresiba	205,052	1.2%
Xultophy	880	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	848,064	4.9%
Type 2 Diabetes Code Only	11,529,716	67.2%
Type 1 or Type 2 Diabetes Code	16,536,129	96.3%
Neither Type 1 nor Type 2 Diabetes Code	631,588	3.7%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1aa. Baseline Characteristics for Users with a Novolog Mix 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	3,676,340	100%
Number of unique patients	335,945	100%
Demographics	Mean	Standard Deviation
Mean Age	69.1	11.8
Age (years)	Number	Percent
18-44	139,399	3.8%
45-64	1,014,994	27.6%
65+	2,521,947	68.6%
Sex		
Female	183,710	54.7%
Male	152,235	45.3%
Race ²		
Unknown	63,263	18.8%
American Indian or Alaska Native	2,212	0.7%
Asian	7,405	2.2%
Black or African American	72,217	21.5%
Native Hawaiian or Other Pacific Islander	622	0.2%
White	190,226	56.6%
Hispanic Origin ²	17,699	5.3%
Year		
2013	780,498	21.2%
2014	708,316	19.3%
2015	641,710	17.5%
2016	536,376	14.6%
2017	531,996	14.5%
2018	477,444	13.0%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	17	0.0%
Apidra and Apidra SoloStar	790	0.0%
Basaglar	2,892	0.1%
Fiasp	14	0.0%
Humalog	10,987	0.3%
Humalog Mix 50/50	809	0.0%
Humalog Mix 75/25	3,567	0.1%
Humulin 70/30	2,032	0.1%
Humulin N	1,925	0.1%
Humulin R	5,172	0.1%
Insulin lispro	0	0.0%
J1815	6,120	0.2%
J1817	185	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	116,098	3.2%

Table 1aa. Baseline Characteristics for Users with a Novolog Mix 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	70,450	1.9%
Myxredlin	0	0.0%
Novolin 70/30	7,277	0.2%
Novolin N	3,647	0.1%
Novolin R	20,257	0.6%
Novolog	87,516	2.4%
Novolog Mix 70/30	3,676,340	100.0%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	*****	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	65	0.0%
Toujeo	3,971	0.1%
Tresiba	4,847	0.1%
Xultophy	35	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	43,009	1.2%
Type 2 Diabetes Code Only	2,770,052	75.3%
Type 1 or Type 2 Diabetes Code	3,530,944	96.0%
Neither Type 1 nor Type 2 Diabetes Code	145,396	4.0%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1ab. Baseline Characteristics for Users with a Soliqua Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	68,806	100%
Number of unique patients	15,262	100%
Demographics	Mean	Standard Deviation
Mean Age	60.2	9.6
Age (years)	Number	Percent
18-44	6,966	10.1%
45-64	37,398	54.4%
65+	24,442	35.5%
Sex		
Female	7,673	50.3%
Male	7,589	49.7%
Race ²		
Unknown	7,460	48.9%
American Indian or Alaska Native	32	0.2%
Asian	288	1.9%
Black or African American	1,172	7.7%
Native Hawaiian or Other Pacific Islander	25	0.2%
White	6,285	41.2%
Hispanic Origin ²	525	3.4%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	14,308	20.8%
2018	54,498	79.2%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	*****	0.0%
Afrezza	17	0.0%
Apidra and Apidra SoloStar	86	0.1%
Basaglar	254	0.4%
Fiasp	*****	0.0%
Humalog	2,232	3.2%
Humalog Mix 50/50	17	0.0%
Humalog Mix 75/25	124	0.2%
Humulin 70/30	32	0.0%
Humulin N	24	0.0%
Humulin R	103	0.1%
Insulin lispro	0	0.0%
J1815	75	0.1%
J1817	*****	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	333	0.5%

Table 1ab. Baseline Characteristics for Users with a Soliqua Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	236	0.3%
Myxredlin	0	0.0%
Novolin 70/30	18	0.0%
Novolin N	18	0.0%
Novolin R	61	0.1%
Novolog	1,302	1.9%
Novolog Mix 70/30	66	0.1%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	68,806	100.0%
Toujeo	163	0.2%
Tresiba	90	0.1%
Xultophy	18	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	327	0.5%
Type 2 Diabetes Code Only	58,913	85.6%
Type 1 or Type 2 Diabetes Code	63,895	92.9%
Neither Type 1 nor Type 2 Diabetes Code	4,911	7.1%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1ac. Baseline Characteristics for Users with a Toujeo Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	2,129,377	100%
Number of unique patients	273,322	100%
Demographics	Mean	Standard Deviation
Mean Age	65.3	11.2
Age (years)	Number	Percent
18-44	138,351	6.5%
45-64	736,646	34.6%
65+	1,254,380	58.9%
Sex		
Female	135,808	49.7%
Male	137,514	50.3%
Race ²		
Unknown	78,754	28.8%
American Indian or Alaska Native	905	0.3%
Asian	4,539	1.7%
Black or African American	28,122	10.3%
Native Hawaiian or Other Pacific Islander	408	0.1%
White	160,594	58.8%
Hispanic Origin ²	8,882	3.2%
Year		
2013	0	0.0%
2014	0	0.0%
2015	100,451	4.7%
2016	558,738	26.2%
2017	768,600	36.1%
2018	701,588	32.9%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	88	0.0%
Afrezza	761	0.0%
Apidra and Apidra SoloStar	7,238	0.3%
Basaglar	508	0.0%
Fiasp	275	0.0%
Humalog	173,414	8.1%
Humalog Mix 50/50	614	0.0%
Humalog Mix 75/25	3,145	0.1%
Humulin 70/30	1,040	0.0%
Humulin N	938	0.0%
Humulin R	6,237	0.3%
Insulin lispro	0	0.0%
J1815	3,085	0.1%
J1817	62	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	8,538	0.4%

Table 1ac. Baseline Characteristics for Users with a Toujeo Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	3,290	0.2%
Myxredlin	0	0.0%
Novolin 70/30	860	0.0%
Novolin N	690	0.0%
Novolin R	5,056	0.2%
Novolog	138,240	6.5%
Novolog Mix 70/30	3,973	0.2%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	*****	0.0%
Soliqua	164	0.0%
Toujeo	2,129,377	100.0%
Tresiba	1,519	0.1%
Xultophy	32	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	54,109	2.5%
Type 2 Diabetes Code Only	1,682,987	79.0%
Type 1 or Type 2 Diabetes Code	2,041,041	95.9%
Neither Type 1 nor Type 2 Diabetes Code	88,336	4.1%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 1ad. Baseline Characteristics for Users with a Tresiba Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	1,895,233	100%
Number of unique patients	313,159	100%
Demographics	Mean	Standard Deviation
Mean Age	63.7	11.9
Age (years)	Number	Percent
18-44	163,721	8.6%
45-64	721,382	38.1%
65+	1,010,130	53.3%
Sex		
Female	159,882	51.1%
Male	153,277	48.9%
Race ²		
Unknown	82,772	26.4%
American Indian or Alaska Native	1,401	0.4%
Asian	5,915	1.9%
Black or African American	34,972	11.2%
Native Hawaiian or Other Pacific Islander	419	0.1%
White	187,680	59.9%
Hispanic Origin ²	11,470	3.7%
Year		
2013	0	0.0%
2014	0	0.0%
2015	594	0.0%
2016	202,244	10.7%
2017	606,018	32.0%
2018	1,086,377	57.3%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	43	0.0%
Afrezza	578	0.0%
Apidra and Apidra SoloStar	3,105	0.2%
Basaglar	1,234	0.1%
Fiasp	1,448	0.1%
Humalog	82,877	4.4%
Humalog Mix 50/50	317	0.0%
Humalog Mix 75/25	1,213	0.1%
Humulin 70/30	349	0.0%
Humulin N	470	0.0%
Humulin R	3,757	0.2%
Insulin lispro	0	0.0%
J1815	3,098	0.2%
J1817	55	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	6,587	0.3%

Table 1ad. Baseline Characteristics for Users with a Tresiba Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic ¹	Number	Percent
Levemir	5,776	0.3%
Myxredlin	0	0.0%
Novolin 70/30	1,160	0.1%
Novolin N	684	0.0%
Novolin R	5,457	0.3%
Novolog	205,489	10.8%
Novolog Mix 70/30	4,861	0.3%
S5550	*****	0.0%
S5551	*****	0.0%
S5552	*****	0.0%
S5553	*****	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	90	0.0%
Toujeo	1,550	0.1%
Tresiba	1,895,233	100.0%
Xultophy	218	0.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	73,432	3.9%
Type 2 Diabetes Code Only	1,465,941	77.3%
Type 1 or Type 2 Diabetes Code	1,813,206	95.7%
Neither Type 1 nor Type 2 Diabetes Code	82,027	4.3%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1ae. Baseline Characteristics for Users with a Xultophy Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Number of episodes	30,240	100%
Number of unique patients	8,170	100%
Demographics	Mean	Standard Deviation
Mean Age	62.6	10.1
Age (years)	Number	Percent
18-44	2,221	7.3%
45-64	13,878	45.9%
65+	14,141	46.8%
Sex		
Female	4,109	50.3%
Male	4,061	49.7%
Race ²		
Unknown	3,118	38.2%
American Indian or Alaska Native	*****	*****
Asian	232	2.8%
Black or African American	745	9.1%
Native Hawaiian or Other Pacific Islander	*****	*****
White	4,040	49.4%
Hispanic Origin ²	391	4.8%
Year		
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	4,115	13.6%
2018	26,125	86.4%
Insulin Dispensing or Administration Within +/- 3 Days of Index:		
Admelog and Admelog SoloStar	0	0.0%
Afrezza	*****	0.0%
Apidra and Apidra SoloStar	27	0.1%
Basaglar	24	0.1%
Fiasp	19	0.1%
Humalog	546	1.8%
Humalog Mix 50/50	*****	0.0%
Humalog Mix 75/25	20	0.1%
Humulin 70/30	*****	0.0%
Humulin N	*****	0.0%
Humulin R	28	0.1%
Insulin lispro	0	0.0%
J1815	35	0.1%
J1817	0	0.0%
J1820	0	0.0%
K0548	0	0.0%
Lantus and Lantus Solostar	87	0.3%

Table 1ae. Baseline Characteristics for Users with a Xultophy Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Characteristic¹	Number	Percent
Levemir	101	0.3%
Myxredlin	0	0.0%
Novolin 70/30	*****	0.0%
Novolin N	0	0.0%
Novolin R	17	0.1%
Novolog	876	2.9%
Novolog Mix 70/30	35	0.1%
S5550	0	0.0%
S5551	0	0.0%
S5552	0	0.0%
S5553	0	0.0%
S5560	0	0.0%
S5561	0	0.0%
S5565	0	0.0%
S5566	0	0.0%
S5570	0	0.0%
S5571	0	0.0%
Soliqua	19	0.1%
Toujeo	33	0.1%
Tresiba	222	0.7%
Xultophy	30,240	100.0%
Presence of Diabetes Codes -3 to 180 Days from Index:		
Type 1 Diabetes Code Only	172	0.6%
Type 2 Diabetes Code Only	26,022	86.1%
Type 1 or Type 2 Diabetes Code	28,594	94.6%
Neither Type 1 nor Type 2 Diabetes Code	1,646	5.4%

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

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Table 2. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, Overall

	Users	Episodes	Adjusted Dispensings
National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS)			
All insulins	5,944,918	107,528,855	117,864,739
HCPCS			
All insulin HCPCS	984,969	1,682,070	1,697,154
J1815: Injection, insulin, per 5 units	963,617	1,635,916	1,637,451
J1817: Insulin for administration through DME (i.e., insulin pump) per 50 units	35,191	55,272	55,289
J1820: Injection, insulin, up to 100 units	11	11	11
K0548: Injection, insulin lispro, up to 50 units	0	0	0
NDCs			
All insulin NDCs	5,617,952	105,941,433	116,167,585
Admelog and Admelog SoloStar	1,639	2,902	2,908
Afrezza	3,477	17,156	17,156
Apidra and Apidra SoloStar	72,811	517,809	518,346
Basaglar	304,408	1,454,654	1,454,659
Fiasp	4,959	12,180	12,194
Humalog	1,699,064	14,842,175	14,863,409
Humalog Mix 75/25	201,640	2,183,210	2,184,414
Humalog Mix 50/50	22,614	219,001	219,122
Humulin N	381,007	3,714,097	3,715,455
Humulin 70/30	228,274	2,466,588	2,467,789
Humulin R	362,065	2,723,216	2,724,438
Insulin lispro	0	0	0
Lantus and Lantus Solostar	3,118,937	39,326,260	39,345,032
Levemir	1,500,610	16,966,889	16,977,478
Myxredlin	0	0	0
Novolin N	196,160	1,793,945	1,794,020
Novolin 70/30	252,871	2,794,273	2,794,494
Novolin R	300,606	2,089,963	2,090,052
Novolog	1,858,492	17,167,717	17,184,120
Novolog Mix 70/30	335,945	3,676,340	3,677,998
Soliqua	15,262	68,806	68,806
Toujeo	273,322	2,129,377	2,129,572
Tresiba	313,159	1,895,233	1,895,704
Xultophy	8,170	30,240	30,240

Table 3. Summary of Insulin Dispensings in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Type of Insurer

	Users	Episodes	Adjusted Dispensings
Commercial			
National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS)			
All insulins	3,643,323	75,475,070	82,577,218
HCPCS			
All insulin HCPCS	751,028	1,286,582	1,298,806
J1815: Injection, insulin, per 5 units	735,370	1,256,942	1,257,595
J1817: Insulin for administration through DME (i.e., insulin pump) per 50 units	28,740	40,456	40,459
J1820: Injection, insulin, up to 100 units	*****	*****	*****
K0548: Injection, insulin lispro, up to 50 units	0	0	0
NDCs			
All insulin NDCs	3,397,979	74,218,376	81,278,412
Admelog and Admelog SoloStar	1,352	2,401	2,406
Afrezza	1,446	6,926	6,926
Apidra and Apidra SoloStar	38,231	260,806	260,920
Basaglar	191,126	833,386	833,386
Fiasp	2,310	5,151	5,152
Humalog	959,886	8,487,342	8,494,187
Humalog Mix 75/25	129,137	1,501,718	1,502,240
Humalog Mix 50/50	14,451	151,815	151,848
Humulin N	125,845	1,234,849	1,235,150
Humulin 70/30	140,279	1,592,057	1,592,550
Humulin R	202,073	1,530,625	1,531,015
Insulin lispro	0	0	0
Lantus and Lantus Solostar	2,021,657	28,703,318	28,714,861
Levemir	989,904	12,602,379	12,609,037
Myxredlin	0	0	0
Novolin N	133,797	1,371,512	1,371,512
Novolin 70/30	179,423	2,147,718	2,147,719
Novolin R	238,371	1,791,566	1,791,566
Novolog	1,313,202	13,410,172	13,420,621
Novolog Mix 70/30	243,089	2,912,979	2,914,006
Soliqua	6,950	25,898	25,898
Toujeo	169,230	1,413,800	1,413,804
Tresiba	198,694	1,237,192	1,237,424
Xultophy	4,474	16,087	16,087

Table 3. Summary of Insulin Dispensings in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Type of Insurer

	Users	Episodes	Adjusted Dispensings
Medicare			
NDCs and HCPCS			
All insulins	2,301,595	32,053,785	35,287,521
HCPCS			
All insulin HCPCS	233,941	395,488	398,348
J1815: Injection, insulin, per 5 units	228,247	378,974	379,856
J1817: Insulin for administration through DME (i.e., insulin pump) per 50 units	6,451	14,816	14,830
J1820: Injection, insulin, up to 100 units	*****	*****	*****
K0548: Injection, insulin lispro, up to 50 units	0	0	0
NDCs			
All insulin NDCs	2,219,973	31,723,057	34,889,173
Admelog and Admelog SoloStar	287	501	502
Afrezza	2,031	10,230	10,230
Apidra and Apidra SoloStar	34,580	257,003	257,426
Basaglar	113,282	621,268	621,273
Fiasp	2,649	7,029	7,042
Humalog	739,178	6,354,833	6,369,222
Humalog Mix 75/25	72,503	681,492	682,174
Humalog Mix 50/50	8,163	67,186	67,274
Humulin N	255,162	2,479,248	2,480,305
Humulin 70/30	87,995	874,531	875,239
Humulin R	159,992	1,192,591	1,193,423
Insulin lispro	0	0	0
Lantus and Lantus Solostar	1,097,280	10,622,942	10,630,171
Levemir	510,706	4,364,510	4,368,441
Myxredlin	0	0	0
Novolin N	62,363	422,433	422,508
Novolin 70/30	73,448	646,555	646,775
Novolin R	62,235	298,397	298,486
Novolog	545,290	3,757,545	3,763,499
Novolog Mix 70/30	92,856	763,361	763,992
Soliqua	8,312	42,908	42,908
Toujeo	104,092	715,577	715,768
Tresiba	114,465	658,041	658,280
Xultophy	3,696	14,153	14,153

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
NDCs and HCPCS				
All insulins				
2013				
January	1142740	1437726	1600221	100.00%
February	1061577	1294496	1437266	100.00%
March	1114493	1390157	1540232	100.00%
April	1136689	1419497	1572561	100.00%
May	1146996	1445794	1601353	100.00%
June	1100245	1355329	1502350	100.00%
July	1162274	1473473	1634439	100.00%
August	1149358	1446464	1602700	100.00%
September	1120782	1389227	1539534	100.00%
October	1169401	1479749	1640989	100.00%
November	1110454	1378661	1527903	100.00%
December	1167558	1482179	1647766	100.00%
2014				
January	1181910	1488917	1652737	100.00%
February	1099992	1342361	1488428	100.00%
March	1165173	1459083	1614986	100.00%
April	1160322	1445828	1599612	100.00%
May	1170522	1473865	1628813	100.00%
June	1156492	1440372	1590892	100.00%
July	1187248	1502713	1659388	100.00%
August	1156726	1452649	1601719	100.00%
September	1169868	1468905	1620399	100.00%
October	1193863	1518005	1673274	100.00%
November	1115624	1386297	1527320	100.00%
December	1210696	1559430	1725540	100.00%
2015				
January	1189900	1493440	1648820	100.00%
February	1106757	1349394	1488329	100.00%
March	1195576	1507253	1659310	100.00%
April	1176832	1469160	1615143	100.00%
May	1164696	1457341	1601027	100.00%
June	1197630	1505619	1656254	100.00%
July	1206273	1530061	1681207	100.00%
August	1186872	1495720	1642055	100.00%
September	1187565	1491896	1638579	100.00%
October	1208299	1531658	1682512	100.00%
November	1170204	1470043	1615139	100.00%
December	1235474	1594772	1758443	100.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	1193647	1500087	1644959	100.00%
February	1171708	1462091	1601093	100.00%
March	1234271	1572353	1721085	100.00%
April	1191053	1488365	1625883	100.00%
May	1212603	1539594	1681768	100.00%
June	1224158	1548679	1694799	100.00%
July	1196539	1509957	1648923	100.00%
August	1254108	1612429	1763673	100.00%
September	1215645	1542667	1687260	100.00%
October	1223165	1562355	1707905	100.00%
November	1219829	1554219	1701063	100.00%
December	1253510	1622056	1779473	100.00%
2017				
January	1216696	1555011	1697199	100.00%
February	1137927	1413337	1539595	100.00%
March	1246837	1604597	1746659	100.00%
April	1165476	1463159	1587542	100.00%
May	1235862	1592955	1730844	100.00%
June	1222139	1555407	1691843	100.00%
July	1207404	1540559	1673388	100.00%
August	1244754	1606484	1747202	100.00%
September	1193183	1509399	1642063	100.00%
October	1228720	1581156	1719537	100.00%
November	1207393	1540269	1676277	100.00%
December	1216426	1564976	1706132	100.00%
2018				
January	1198951	1545367	1679307	100.00%
February	1108196	1383351	1498876	100.00%
March	1190260	1532934	1658962	100.00%
April	1160405	1474008	1591966	100.00%
May	1194174	1546760	1670756	100.00%
June	1164847	1485874	1605341	100.00%
July	1182219	1528624	1651667	100.00%
August	1199182	1560577	1686722	100.00%
September	1128113	1430945	1545353	100.00%
October	1199887	1566571	1693228	100.00%
November	1158721	1489436	1609859	100.00%
December	1166222	1514713	1639297	100.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
HCPCS				
All insulin HCPCS				
2013				
January	16068	18649	18878	1.18%
February	14652	16857	17100	1.19%
March	16256	18845	19115	1.24%
April	16502	19095	19375	1.23%
May	16909	19442	19716	1.23%
June	16123	18649	18909	1.26%
July	16440	18804	19048	1.17%
August	16794	19549	19823	1.24%
September	16297	18969	19206	1.25%
October	18044	20882	21164	1.29%
November	16473	19069	19331	1.27%
December	17083	19844	20068	1.22%
2014				
January	18560	21586	21863	1.32%
February	16790	19345	19555	1.31%
March	18764	21643	21909	1.36%
April	18635	21539	21833	1.36%
May	18935	21969	22257	1.37%
June	18089	20918	21180	1.33%
July	19013	21995	22254	1.34%
August	18524	21653	21887	1.37%
September	18353	21392	21645	1.34%
October	18705	21885	22123	1.32%
November	17045	19941	20147	1.32%
December	18956	22111	22347	1.30%
2015				
January	19821	23205	23475	1.42%
February	17766	20571	20781	1.40%
March	20584	24035	24273	1.46%
April	20062	23376	23600	1.46%
May	19601	22820	23015	1.44%
June	19526	22790	22978	1.39%
July	20269	23737	23970	1.43%
August	19199	22423	22635	1.38%
September	18776	21964	22186	1.35%
October	19677	23134	23322	1.39%
November	18407	21876	22043	1.36%
December	19627	23261	23464	1.33%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	20660	24601	24805	1.51%
February	20448	24423	24612	1.54%
March	21360	25429	25632	1.49%
April	20497	24267	24451	1.50%
May	20846	24874	25036	1.49%
June	20974	25307	25498	1.50%
July	20600	24664	24824	1.51%
August	21353	25770	25944	1.47%
September	20315	24451	24623	1.46%
October	20591	24807	24973	1.46%
November	20183	24155	24333	1.43%
December	20665	24987	25202	1.42%
2017				
January	22479	27396	27602	1.63%
February	20613	24848	25059	1.63%
March	22873	27634	27848	1.59%
April	21428	25693	25863	1.63%
May	22504	27171	27374	1.58%
June	21788	26008	26167	1.55%
July	21441	25839	26025	1.56%
August	22229	26822	27010	1.55%
September	20812	24851	25031	1.52%
October	21986	26530	26740	1.56%
November	21935	26194	26407	1.58%
December	21729	25720	25910	1.52%
2018				
January	22741	27135	27350	1.63%
February	20638	24410	24585	1.64%
March	22402	26732	26934	1.62%
April	22002	26211	26401	1.66%
May	22866	27247	27401	1.64%
June	21815	26194	26309	1.64%
July	21819	26038	26206	1.59%
August	21990	26514	26646	1.58%
September	20178	24210	24319	1.57%
October	22498	27425	27575	1.63%
November	21012	25051	25215	1.57%
December	20720	24639	24769	1.51%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
J1815: Injection, insulin, per 5 units				
2013				
January	15246	17705	17712	1.11%
February	13948	16056	16064	1.12%
March	15466	17879	17900	1.16%
April	15779	18277	18288	1.16%
May	16159	18581	18590	1.16%
June	15422	17796	17809	1.19%
July	15764	18029	18043	1.10%
August	16136	18817	18829	1.17%
September	15656	18196	18204	1.18%
October	17389	20126	20134	1.23%
November	15906	18427	18444	1.21%
December	16517	19142	19148	1.16%
2014				
January	18019	20962	20988	1.27%
February	16249	18730	18740	1.26%
March	18163	20951	20963	1.30%
April	18035	20835	20851	1.30%
May	18310	21252	21267	1.31%
June	17426	20145	20163	1.27%
July	18399	21305	21318	1.28%
August	17974	21011	21026	1.31%
September	17795	20748	20766	1.28%
October	18237	21312	21328	1.27%
November	16615	19446	19465	1.27%
December	18468	21531	21546	1.25%
2015				
January	19320	22621	22643	1.37%
February	17312	20041	20060	1.35%
March	20084	23403	23420	1.41%
April	19618	22861	22888	1.42%
May	19224	22377	22398	1.40%
June	19018	22189	22209	1.34%
July	19730	23115	23133	1.38%
August	18671	21791	21800	1.33%
September	18252	21340	21355	1.30%
October	19205	22545	22566	1.34%
November	17974	21332	21352	1.32%
December	19061	22579	22600	1.29%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	20148	24015	24044	1.46%
February	19960	23839	23867	1.49%
March	20821	24760	24787	1.44%
April	19946	23629	23650	1.45%
May	20295	24222	24243	1.44%
June	20445	24622	24640	1.45%
July	20096	24039	24066	1.46%
August	20864	25093	25112	1.42%
September	19835	23830	23872	1.41%
October	20101	24249	24264	1.42%
November	19708	23614	23634	1.39%
December	20085	24304	24340	1.37%
2017				
January	21929	26743	26774	1.58%
February	20118	24257	24311	1.58%
March	22299	26953	26987	1.55%
April	20947	25119	25148	1.58%
May	22007	26560	26586	1.54%
June	21339	25448	25475	1.51%
July	20978	25321	25352	1.52%
August	21763	26297	26329	1.51%
September	20345	24293	24317	1.48%
October	21482	25949	25972	1.51%
November	21406	25550	25573	1.53%
December	21179	25038	25062	1.47%
2018				
January	22227	26493	26523	1.58%
February	20143	23840	23855	1.59%
March	21813	26015	26043	1.57%
April	21472	25549	25576	1.61%
May	22396	26647	26679	1.60%
June	21337	25602	25616	1.60%
July	21369	25489	25519	1.55%
August	21556	25978	26004	1.54%
September	19743	23659	23681	1.53%
October	22037	26829	26864	1.59%
November	20606	24525	24561	1.53%
December	20282	24093	24115	1.47%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
J1817: Insulin for administration through DME (i.e., insulin pump) per 50 units				
2013				
January	1028	1142	1142	0.07%
February	909	1009	1009	0.07%
March	971	1074	1074	0.07%
April	968	1052	1053	0.07%
May	983	1077	1077	0.07%
June	877	943	943	0.06%
July	896	974	974	0.06%
August	894	956	956	0.06%
September	819	883	884	0.06%
October	919	1011	1011	0.06%
November	807	861	861	0.06%
December	725	798	798	0.05%
2014				
January	769	844	844	0.05%
February	724	783	783	0.05%
March	806	880	881	0.05%
April	836	930	930	0.06%
May	853	938	938	0.06%
June	818	903	903	0.06%
July	823	879	879	0.05%
August	728	813	816	0.05%
September	763	856	856	0.05%
October	666	769	770	0.05%
November	584	656	657	0.04%
December	654	737	737	0.04%
2015				
January	696	808	808	0.05%
February	594	690	690	0.05%
March	649	791	791	0.05%
April	602	693	695	0.04%
May	532	586	586	0.04%
June	643	708	708	0.04%
July	710	796	796	0.05%
August	679	781	781	0.05%
September	676	792	792	0.05%
October	620	728	728	0.04%
November	562	661	661	0.04%
December	713	810	811	0.05%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	664	722	722	0.04%
February	620	707	708	0.04%
March	676	779	779	0.05%
April	692	762	762	0.05%
May	658	754	754	0.04%
June	643	774	774	0.05%
July	601	715	715	0.04%
August	614	772	772	0.04%
September	566	660	660	0.04%
October	593	651	651	0.04%
November	617	669	670	0.04%
December	714	792	792	0.04%
2017				
January	677	759	759	0.04%
February	613	692	692	0.04%
March	698	762	762	0.04%
April	566	629	629	0.04%
May	606	686	686	0.04%
June	511	545	546	0.03%
July	558	592	592	0.04%
August	553	576	576	0.03%
September	543	596	596	0.04%
October	618	682	683	0.04%
November	670	776	776	0.05%
December	654	749	749	0.04%
2018				
January	630	716	716	0.04%
February	572	637	637	0.04%
March	680	765	765	0.05%
April	654	769	769	0.05%
May	556	680	682	0.04%
June	533	627	627	0.04%
July	545	648	648	0.04%
August	504	602	602	0.04%
September	487	586	586	0.04%
October	534	656	656	0.04%
November	473	583	583	0.04%
December	479	590	590	0.04%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
J1820: Injection, insulin, up to 100 units				
2013				
January	*****	*****	*****	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	*****	*****	*****	0.00%
June	*****	*****	*****	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	*****	*****	*****	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	*****	*****	*****	0.00%
July	0	0	0	0.00%
August	*****	*****	*****	0.00%
September	*****	*****	*****	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	*****	*****	*****	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	*****	*****	*****	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	*****	*****	*****	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2018				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	*****	*****	*****	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
K0548: Injection, insulin lispro, up to 50 units				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2018				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
NDCs				
All insulin NDCs				
2013				
January	1132119	1419712	1581343	98.82%
February	1051740	1278237	1420166	98.81%
March	1103798	1371963	1521117	98.76%
April	1126009	1401086	1553186	98.77%
May	1135982	1426996	1581637	98.77%
June	1089570	1337316	1483441	98.74%
July	1151685	1455329	1615391	98.83%
August	1138567	1427604	1582877	98.76%
September	1109999	1370910	1520328	98.75%
October	1157741	1459557	1619825	98.71%
November	1099571	1360247	1508572	98.73%
December	1156353	1463025	1627698	98.78%
2014				
January	1169934	1468206	1630874	98.68%
February	1088828	1323855	1468873	98.69%
March	1152810	1438366	1593077	98.64%
April	1148266	1425257	1577779	98.64%
May	1158415	1452864	1606556	98.63%
June	1144699	1420319	1569712	98.67%
July	1175153	1481688	1637134	98.66%
August	1144687	1431936	1579832	98.63%
September	1158209	1448418	1598754	98.66%
October	1182040	1497032	1651151	98.68%
November	1104466	1367154	1507173	98.68%
December	1198603	1538274	1703193	98.70%
2015				
January	1177047	1471185	1625345	98.58%
February	1094930	1329793	1467548	98.60%
March	1182196	1484332	1635037	98.54%
April	1163839	1446848	1591543	98.54%
May	1151891	1435551	1578012	98.56%
June	1185003	1483939	1633276	98.61%
July	1193327	1507343	1657237	98.57%
August	1174640	1474279	1619420	98.62%
September	1175444	1470937	1616393	98.65%
October	1195650	1509563	1659190	98.61%
November	1158139	1449089	1593096	98.64%
December	1223001	1572548	1734979	98.67%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	1180145	1476777	1620154	98.49%
February	1158420	1439021	1576481	98.46%
March	1220719	1548350	1695453	98.51%
April	1177895	1465483	1601432	98.50%
May	1199252	1516032	1656732	98.51%
June	1210736	1524888	1669301	98.50%
July	1183274	1486764	1624099	98.49%
August	1240590	1588286	1737729	98.53%
September	1202632	1519729	1662637	98.54%
October	1210096	1539021	1682932	98.54%
November	1206884	1531566	1676730	98.57%
December	1240525	1598680	1754271	98.58%
2017				
January	1202022	1529276	1669597	98.37%
February	1124326	1390051	1514536	98.37%
March	1232203	1578713	1718811	98.41%
April	1151341	1438959	1561679	98.37%
May	1221546	1567441	1703470	98.42%
June	1208237	1531020	1665676	98.45%
July	1193708	1516412	1647363	98.44%
August	1230717	1581471	1720192	98.45%
September	1179787	1486361	1617032	98.48%
October	1214744	1556475	1692797	98.44%
November	1193327	1515890	1649870	98.42%
December	1202556	1541070	1680222	98.48%
2018				
January	1184204	1520262	1651957	98.37%
February	1094569	1360770	1474291	98.36%
March	1175847	1508184	1632028	98.38%
April	1146152	1449705	1565565	98.34%
May	1179561	1521630	1643355	98.36%
June	1150751	1461688	1579032	98.36%
July	1168446	1504811	1625461	98.41%
August	1185379	1536357	1660076	98.42%
September	1115038	1408785	1521034	98.43%
October	1185735	1541497	1665653	98.37%
November	1145325	1466733	1584644	98.43%
December	1153166	1492517	1614528	98.49%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Admelog and Admelog SoloStar				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2018				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	30	30	30	0.00%
April	25	29	29	0.00%
May	48	55	55	0.00%
June	100	119	119	0.01%
July	136	152	153	0.01%
August	246	287	288	0.02%
September	309	340	341	0.02%
October	449	513	514	0.03%
November	532	622	623	0.04%
December	644	755	756	0.05%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Afrezza				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	*****	*****	*****	0.00%
February	48	*****	*****	0.00%
March	127	137	137	0.01%
April	155	170	170	0.01%
May	242	261	261	0.02%
June	311	335	335	0.02%
July	319	354	354	0.02%
August	376	406	406	0.02%
September	392	434	434	0.03%
October	419	460	460	0.03%
November	419	468	468	0.03%
December	443	499	499	0.03%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	370	402	402	0.02%
February	354	392	392	0.02%
March	359	397	397	0.02%
April	295	328	328	0.02%
May	319	356	356	0.02%
June	287	315	315	0.02%
July	256	285	285	0.02%
August	243	288	288	0.02%
September	280	314	314	0.02%
October	251	284	284	0.02%
November	253	284	284	0.02%
December	261	294	294	0.02%
2017				
January	221	244	244	0.01%
February	214	242	242	0.02%
March	260	298	298	0.02%
April	256	288	288	0.02%
May	294	332	332	0.02%
June	289	335	335	0.02%
July	290	325	325	0.02%
August	316	360	360	0.02%
September	310	351	351	0.02%
October	346	398	398	0.02%
November	357	415	415	0.02%
December	331	397	397	0.02%
2018				
January	313	363	363	0.02%
February	337	362	362	0.02%
March	336	376	376	0.02%
April	344	394	394	0.02%
May	392	456	456	0.03%
June	412	454	454	0.03%
July	405	461	461	0.03%
August	440	519	519	0.03%
September	423	481	481	0.03%
October	506	607	607	0.04%
November	466	551	551	0.03%
December	547	633	633	0.04%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Apidra and Apidra SoloStar				
2013				
January	9377	9995	10013	0.63%
February	9066	9501	9512	0.66%
March	9656	10342	10358	0.67%
April	9648	10338	10347	0.66%
May	9969	10731	10743	0.67%
June	9645	10252	10268	0.68%
July	10346	11262	11278	0.69%
August	10551	11283	11294	0.70%
September	10087	10664	10675	0.69%
October	10942	11753	11760	0.72%
November	10319	10960	10976	0.72%
December	11284	12206	12217	0.74%
2014				
January	10484	11143	11152	0.67%
February	9688	10122	10129	0.68%
March	10264	10939	10948	0.68%
April	9728	10307	10312	0.64%
May	9865	10551	10565	0.65%
June	9761	10380	10388	0.65%
July	10012	10751	10756	0.65%
August	9699	10313	10331	0.64%
September	9814	10472	10479	0.65%
October	9961	10694	10703	0.64%
November	9223	9807	9818	0.64%
December	10438	11386	11399	0.66%
2015				
January	9098	9645	9649	0.59%
February	8416	8850	8857	0.60%
March	9086	9756	9764	0.59%
April	8732	9335	9343	0.58%
May	8409	9013	9019	0.56%
June	8849	9478	9480	0.57%
July	8497	9179	9187	0.55%
August	8218	8805	8818	0.54%
September	8307	8873	8882	0.54%
October	8375	8956	8962	0.53%
November	7939	8477	8483	0.53%
December	8616	9379	9384	0.53%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	6153	6492	6492	0.39%
February	5934	6301	6304	0.39%
March	6032	6485	6486	0.38%
April	5274	5624	5632	0.35%
May	5479	5914	5918	0.35%
June	5503	5880	5887	0.35%
July	5270	5650	5656	0.34%
August	5560	6029	6035	0.34%
September	5308	5740	5746	0.34%
October	5334	5794	5800	0.34%
November	5363	5827	5832	0.34%
December	5485	6081	6090	0.34%
2017				
January	3909	4266	4272	0.25%
February	3669	3939	3944	0.26%
March	3836	4236	4238	0.24%
April	3145	3448	3454	0.22%
May	3451	3883	3888	0.22%
June	3368	3753	3757	0.22%
July	3292	3677	3684	0.22%
August	3465	3882	3888	0.22%
September	3299	3609	3614	0.22%
October	3374	3805	3811	0.22%
November	3456	3803	3811	0.23%
December	3446	3859	3865	0.23%
2018				
January	2858	3198	3207	0.19%
February	2568	2804	2808	0.19%
March	2779	3119	3122	0.19%
April	2560	2889	2893	0.18%
May	2613	2955	2959	0.18%
June	2538	2840	2845	0.18%
July	2510	2855	2860	0.17%
August	2480	2843	2845	0.17%
September	2331	2590	2597	0.17%
October	2404	2725	2732	0.16%
November	2228	2491	2495	0.15%
December	2344	2625	2630	0.16%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Basaglar				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	*****	*****	*****	0.00%
December	171	*****	*****	0.01%
2017				
January	3354	3645	3645	0.21%
February	5596	6296	6297	0.41%
March	11448	13301	13301	0.76%
April	14797	17714	17714	1.12%
May	17591	21376	21376	1.24%
June	19440	23031	23031	1.36%
July	20015	23512	23512	1.41%
August	21672	25562	25562	1.46%
September	21242	24662	24662	1.50%
October	22953	26764	26764	1.56%
November	23147	26710	26710	1.59%
December	24655	28544	28544	1.67%
2018				
January	44811	50291	50291	2.99%
February	56156	61563	61563	4.11%
March	73554	83123	83123	5.01%
April	86063	96997	96997	6.09%
May	93825	108809	108809	6.51%
June	93949	107507	107507	6.70%
July	99255	114638	114638	6.94%
August	103137	119667	119667	7.09%
September	97465	110701	110701	7.16%
October	105405	122431	122432	7.23%
November	102255	117568	117570	7.30%
December	103721	120056	120057	7.32%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Fiasp				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	*****	*****	*****	0.00%
December	*****	*****	*****	0.00%
2018				
January	*****	*****	*****	0.00%
February	126	134	134	0.01%
March	345	366	367	0.02%
April	533	564	567	0.04%
May	704	768	768	0.05%
June	874	930	931	0.06%
July	1055	1133	1133	0.07%
August	1283	1384	1384	0.08%
September	1341	1417	1420	0.09%
October	1609	1750	1751	0.10%
November	1616	1740	1744	0.11%
December	1848	1974	1975	0.12%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humalog				
2013				
January	148646	160256	160392	10.02%
February	139472	147929	148060	10.30%
March	147752	159130	159254	10.34%
April	149053	160823	160962	10.24%
May	152278	165264	165410	10.33%
June	145186	155699	155855	10.37%
July	155048	169644	169858	10.39%
August	153997	167396	167591	10.46%
September	149602	161070	161215	10.47%
October	157783	172018	172169	10.49%
November	151719	163396	163545	10.70%
December	163713	179244	179447	10.89%
2014				
January	169176	183502	183676	11.11%
February	158879	169482	169612	11.40%
March	172362	187297	187480	11.61%
April	171569	185783	185986	11.63%
May	174140	190632	190849	11.72%
June	172922	187596	187805	11.81%
July	178872	196252	196477	11.84%
August	174423	190033	190238	11.88%
September	178334	193904	194128	11.98%
October	183634	201527	201732	12.06%
November	172286	186479	186672	12.22%
December	192598	213324	213586	12.38%
2015				
January	180519	196231	196466	11.92%
February	168108	179448	179653	12.07%
March	184082	201225	201425	12.14%
April	179895	195511	195750	12.12%
May	178522	194621	194852	12.17%
June	185266	202486	202726	12.24%
July	188602	206976	207240	12.33%
August	186542	204281	204528	12.46%
September	187309	204451	204695	12.49%
October	193234	212109	212391	12.62%
November	191224	208581	208867	12.93%
December	212403	235089	235426	13.39%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	205204	223129	223442	13.58%
February	203486	220343	220601	13.78%
March	216931	238709	239027	13.89%
April	207502	225451	225725	13.88%
May	213994	235468	235779	14.02%
June	218414	239949	240279	14.18%
July	214084	234926	235215	14.26%
August	227299	253162	253545	14.38%
September	221168	245056	245431	14.55%
October	224709	250207	250608	14.67%
November	225948	250705	251080	14.76%
December	237529	266119	266599	14.98%
2017				
January	204722	228175	228607	13.47%
February	186840	204147	204535	13.28%
March	206181	230882	231294	13.24%
April	192125	211815	212190	13.37%
May	204910	230229	230640	13.33%
June	202628	225671	226115	13.37%
July	200250	223598	224031	13.39%
August	207696	233679	234094	13.40%
September	197812	219556	219995	13.40%
October	205639	230829	231276	13.45%
November	203354	226418	226840	13.53%
December	211772	237422	237889	13.94%
2018				
January	193979	217862	218271	13.00%
February	179701	197678	198040	13.21%
March	195780	220519	220936	13.32%
April	187259	209521	209890	13.18%
May	193411	219572	220019	13.17%
June	188712	211836	212206	13.22%
July	188676	213916	214301	12.97%
August	192743	219317	219708	13.03%
September	180825	202136	202494	13.10%
October	193787	220632	220984	13.05%
November	188663	212516	212912	13.23%
December	195681	222336	222793	13.59%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humalog Mix 75/25				
2013				
January	28956	31645	31653	1.98%
February	26550	28356	28363	1.97%
March	27892	30218	30223	1.96%
April	28388	30900	30912	1.97%
May	28741	31575	31582	1.97%
June	27260	29444	29460	1.96%
July	28726	31958	31970	1.96%
August	28278	31221	31237	1.95%
September	27431	29791	29795	1.94%
October	28332	31204	31214	1.90%
November	26807	29049	29063	1.90%
December	28236	31254	31277	1.90%
2014				
January	30333	33335	33353	2.02%
February	28211	30111	30127	2.02%
March	30162	32798	32814	2.03%
April	30442	33056	33081	2.07%
May	30514	33596	33608	2.06%
June	30092	32719	32731	2.06%
July	30976	34200	34210	2.06%
August	29739	32594	32617	2.04%
September	30159	33101	33117	2.04%
October	30551	33884	33897	2.03%
November	28269	30665	30678	2.01%
December	30779	34470	34490	2.00%
2015				
January	30604	33571	33585	2.04%
February	28152	30006	30022	2.02%
March	30207	33123	33143	2.00%
April	29566	32217	32235	2.00%
May	29100	31743	31765	1.98%
June	29607	32540	32563	1.97%
July	29942	33031	33045	1.97%
August	29099	32006	32020	1.95%
September	28893	31652	31670	1.93%
October	29601	32563	32583	1.94%
November	28682	31387	31411	1.94%
December	31263	34872	34897	1.98%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	32702	35613	35635	2.17%
February	31665	34218	34244	2.14%
March	33438	36851	36870	2.14%
April	32093	34897	34912	2.15%
May	32436	35748	35766	2.13%
June	32667	35952	35978	2.12%
July	31490	34546	34556	2.10%
August	33031	36948	36976	2.10%
September	31651	35139	35164	2.08%
October	31402	35082	35104	2.06%
November	30947	34402	34429	2.02%
December	31353	35324	35340	1.99%
2017				
January	27748	30835	30861	1.82%
February	24376	26448	26469	1.72%
March	26431	29616	29641	1.70%
April	24487	26939	26959	1.70%
May	25777	29072	29088	1.68%
June	25161	28107	28135	1.66%
July	24741	27595	27610	1.65%
August	25330	28517	28534	1.63%
September	23855	26438	26453	1.61%
October	24567	27516	27537	1.60%
November	23616	26288	26299	1.57%
December	23765	26630	26659	1.56%
2018				
January	22670	25408	25418	1.51%
February	20302	22065	22070	1.47%
March	21705	24445	24462	1.47%
April	20712	23094	23103	1.45%
May	21159	23889	23904	1.43%
June	20394	22745	22756	1.42%
July	20405	23018	23036	1.39%
August	20351	23107	23117	1.37%
September	18836	20872	20888	1.35%
October	20228	22996	23011	1.36%
November	19168	21508	21523	1.34%
December	19105	21487	21496	1.31%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humalog Mix 50/50				
2013				
January	3570	3888	3890	0.24%
February	3354	3559	3561	0.25%
March	3455	3723	3725	0.24%
April	3512	3847	3850	0.24%
May	3572	3928	3929	0.25%
June	3370	3632	3633	0.24%
July	3538	3943	3945	0.24%
August	3594	3974	3976	0.25%
September	3421	3705	3706	0.24%
October	3628	4000	4000	0.24%
November	3302	3559	3559	0.23%
December	3590	3979	3980	0.24%
2014				
January	3659	4000	4002	0.24%
February	3308	3520	3520	0.24%
March	3484	3770	3771	0.23%
April	3545	3861	3862	0.24%
May	3497	3857	3860	0.24%
June	3415	3727	3728	0.23%
July	3533	3938	3940	0.24%
August	3367	3721	3723	0.23%
September	3459	3809	3811	0.24%
October	3501	3858	3858	0.23%
November	3222	3492	3492	0.23%
December	3547	3972	3973	0.23%
2015				
January	3346	3627	3627	0.22%
February	3107	3300	3302	0.22%
March	3319	3621	3622	0.22%
April	3230	3497	3500	0.22%
May	3087	3367	3369	0.21%
June	3209	3510	3513	0.21%
July	3141	3475	3479	0.21%
August	3090	3373	3375	0.21%
September	3151	3441	3442	0.21%
October	3118	3438	3439	0.20%
November	3008	3257	3259	0.20%
December	3207	3572	3575	0.20%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	3017	3270	3271	0.20%
February	2880	3118	3121	0.19%
March	3010	3307	3308	0.19%
April	2846	3107	3108	0.19%
May	2813	3087	3088	0.18%
June	2803	3071	3075	0.18%
July	2692	2932	2933	0.18%
August	2829	3125	3126	0.18%
September	2656	2966	2967	0.18%
October	2707	2979	2983	0.17%
November	2627	2886	2887	0.17%
December	2656	2968	2969	0.17%
2017				
January	2216	2436	2437	0.14%
February	1998	2173	2177	0.14%
March	2146	2438	2440	0.14%
April	1976	2170	2173	0.14%
May	2093	2345	2347	0.14%
June	2038	2305	2307	0.14%
July	2000	2231	2233	0.13%
August	2092	2383	2385	0.14%
September	2002	2182	2185	0.13%
October	2054	2326	2328	0.14%
November	1958	2188	2191	0.13%
December	1973	2198	2201	0.13%
2018				
January	1839	2066	2067	0.12%
February	1641	1796	1800	0.12%
March	1739	1930	1933	0.12%
April	1688	1867	1869	0.12%
May	1773	1998	1998	0.12%
June	1677	1890	1890	0.12%
July	1627	1842	1843	0.11%
August	1616	1831	1831	0.11%
September	1465	1623	1623	0.11%
October	1586	1806	1808	0.11%
November	1516	1710	1712	0.11%
December	1526	1711	1712	0.10%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humulin N				
2013				
January	54073	57433	57442	3.59%
February	49735	52000	52008	3.62%
March	52007	55068	55077	3.58%
April	52525	55692	55704	3.54%
May	53313	56892	56900	3.55%
June	49695	52270	52276	3.48%
July	53658	57507	57520	3.52%
August	51626	55063	55066	3.44%
September	50184	52938	52952	3.44%
October	52643	56071	56082	3.42%
November	48817	51559	51572	3.38%
December	51974	55639	55654	3.38%
2014				
January	52667	56078	56091	3.39%
February	47767	49971	49992	3.36%
March	51609	54677	54688	3.39%
April	50616	53537	53546	3.35%
May	50911	54211	54230	3.33%
June	50241	53176	53195	3.34%
July	52478	55992	56010	3.38%
August	50144	53265	53271	3.33%
September	51107	54148	54163	3.34%
October	52104	55567	55578	3.32%
November	48145	50794	50809	3.33%
December	52671	56554	56570	3.28%
2015				
January	51436	54549	54560	3.31%
February	46793	48954	48960	3.29%
March	51133	54408	54415	3.28%
April	50072	52884	52899	3.28%
May	48708	51604	51621	3.22%
June	50964	54154	54167	3.27%
July	51315	54647	54665	3.25%
August	50041	53164	53181	3.24%
September	50090	53148	53166	3.24%
October	50985	54349	54371	3.23%
November	48475	51347	51365	3.18%
December	52473	56487	56510	3.21%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	51415	54553	54570	3.32%
February	49481	52261	52276	3.27%
March	53119	56677	56704	3.29%
April	50469	53358	53373	3.28%
May	51009	54216	54241	3.23%
June	51300	54533	54545	3.22%
July	49663	52775	52799	3.20%
August	52340	56172	56196	3.19%
September	50374	53920	53942	3.20%
October	50432	54122	54143	3.17%
November	49559	53006	53031	3.12%
December	51538	55605	55628	3.13%
2017				
January	48461	51693	51712	3.05%
February	42955	45265	45290	2.94%
March	47783	51144	51172	2.93%
April	43513	46100	46125	2.91%
May	46151	49514	49537	2.86%
June	45709	48687	48705	2.88%
July	44496	47489	47515	2.84%
August	46535	49989	50024	2.86%
September	43675	46390	46415	2.83%
October	44937	48078	48112	2.80%
November	43737	46642	46672	2.78%
December	43916	47050	47078	2.76%
2018				
January	45518	48599	48629	2.90%
February	40589	42831	42855	2.86%
March	44395	47425	47457	2.86%
April	42692	45318	45350	2.85%
May	43754	46814	46841	2.80%
June	42346	45083	45103	2.81%
July	43106	46134	46164	2.79%
August	42372	45443	45469	2.70%
September	38919	41159	41185	2.67%
October	41946	45109	45133	2.67%
November	39963	42674	42691	2.65%
December	39707	42472	42497	2.59%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humulin 70/30				
2013				
January	42417	46199	46208	2.89%
February	38424	40896	40908	2.85%
March	39501	42738	42752	2.78%
April	39898	43291	43301	2.75%
May	39730	43519	43528	2.72%
June	37233	39952	39960	2.66%
July	39454	43479	43499	2.66%
August	38474	42089	42103	2.63%
September	37270	40223	40235	2.61%
October	38307	42147	42158	2.57%
November	35709	38689	38702	2.53%
December	37311	41084	41094	2.49%
2014				
January	38657	42374	42379	2.56%
February	35464	37836	37843	2.54%
March	37535	40801	40812	2.53%
April	36880	39993	40007	2.50%
May	37071	40570	40588	2.49%
June	36263	39378	39386	2.48%
July	37515	41360	41375	2.49%
August	35926	39382	39400	2.46%
September	35842	39217	39240	2.42%
October	36926	40935	40953	2.45%
November	33530	36449	36466	2.39%
December	36426	40751	40762	2.36%
2015				
January	36066	39391	39409	2.39%
February	32534	34902	34925	2.35%
March	34918	38220	38236	2.30%
April	34148	37145	37164	2.30%
May	33289	36345	36364	2.27%
June	33995	37268	37289	2.25%
July	34638	38175	38192	2.27%
August	33257	36440	36467	2.22%
September	32826	36000	36025	2.20%
October	33431	36945	36969	2.20%
November	32156	35283	35304	2.19%
December	34035	38058	38074	2.17%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	34828	38174	38192	2.32%
February	33642	36620	36636	2.29%
March	35141	38900	38914	2.26%
April	33166	36163	36177	2.23%
May	33503	36889	36912	2.19%
June	33732	37014	37037	2.19%
July	32590	35715	35734	2.17%
August	33507	37396	37426	2.12%
September	32418	35821	35843	2.12%
October	32195	35838	35859	2.10%
November	31471	34917	34944	2.05%
December	31630	35586	35600	2.00%
2017				
January	28042	31160	31183	1.84%
February	24189	26358	26380	1.71%
March	26257	29326	29337	1.68%
April	23847	26082	26102	1.64%
May	24800	27764	27784	1.61%
June	24416	27072	27091	1.60%
July	23758	26346	26365	1.58%
August	24287	27144	27167	1.55%
September	23001	25436	25453	1.55%
October	23591	26384	26396	1.54%
November	23013	25557	25572	1.53%
December	22784	25450	25468	1.49%
2018				
January	23105	25763	25781	1.54%
February	20920	22856	22870	1.53%
March	22650	25300	25315	1.53%
April	21043	23271	23287	1.46%
May	21605	24180	24202	1.45%
June	20719	22980	22990	1.43%
July	20913	23332	23350	1.41%
August	20222	22801	22820	1.35%
September	18603	20595	20610	1.33%
October	19775	22398	22411	1.32%
November	19113	21371	21384	1.33%
December	18733	21105	21120	1.29%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Humulin R				
2013				
January	38755	41647	41658	2.60%
February	35823	37981	37998	2.64%
March	37634	40413	40426	2.62%
April	37029	39855	39877	2.54%
May	37406	40537	40556	2.53%
June	35073	37459	37476	2.49%
July	37688	41127	41138	2.52%
August	36574	39576	39587	2.47%
September	35697	38340	38354	2.49%
October	37101	40340	40349	2.46%
November	35066	37611	37637	2.46%
December	37111	40551	40568	2.46%
2014				
January	37567	40596	40608	2.46%
February	34914	37071	37082	2.49%
March	37389	40368	40373	2.50%
April	36579	39322	39330	2.46%
May	36812	39866	39876	2.45%
June	36295	39173	39188	2.46%
July	37217	40501	40517	2.44%
August	36468	39500	39515	2.47%
September	36595	39452	39463	2.44%
October	37981	41288	41304	2.47%
November	34812	37220	37234	2.44%
December	38342	42120	42137	2.44%
2015				
January	36343	39106	39116	2.37%
February	33718	35838	35852	2.41%
March	36636	39831	39846	2.40%
April	35502	38300	38314	2.37%
May	34562	37387	37400	2.34%
June	35612	38611	38625	2.33%
July	36038	39177	39188	2.33%
August	34932	37770	37778	2.30%
September	35208	37983	37994	2.32%
October	35703	38741	38751	2.30%
November	34467	37185	37193	2.30%
December	37474	41099	41110	2.34%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	35227	37937	37946	2.31%
February	34664	37330	37341	2.33%
March	36918	40174	40186	2.33%
April	34131	36666	36679	2.26%
May	35285	38459	38471	2.29%
June	35795	38907	38920	2.30%
July	35036	38025	38039	2.31%
August	36855	40715	40735	2.31%
September	35706	39218	39243	2.33%
October	36063	39666	39692	2.32%
November	35994	39574	39597	2.33%
December	37419	41424	41464	2.33%
2017				
January	34189	37712	37749	2.22%
February	31520	34175	34204	2.22%
March	34517	38312	38340	2.20%
April	31374	34193	34212	2.16%
May	33229	36983	37014	2.14%
June	32417	35672	35693	2.11%
July	32368	35712	35738	2.14%
August	33230	37054	37079	2.12%
September	31476	34442	34460	2.10%
October	32825	36502	36528	2.12%
November	32131	35407	35430	2.11%
December	32601	36062	36084	2.11%
2018				
January	31647	34995	35016	2.09%
February	29289	31820	31837	2.12%
March	32143	35861	35879	2.16%
April	30742	33868	33885	2.13%
May	31587	35342	35359	2.12%
June	30715	33910	33930	2.11%
July	31120	34732	34754	2.10%
August	31009	34756	34774	2.06%
September	28895	31779	31799	2.06%
October	31212	35132	35155	2.08%
November	30445	33906	33919	2.11%
December	30228	33852	33869	2.07%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Insulin lispro				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2018				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Lantus and Lantus Solostar				
2013				
January	568047	619746	619904	38.74%
February	516723	550292	550454	38.30%
March	543025	587711	587861	38.17%
April	550769	597538	597711	38.01%
May	554334	605665	605827	37.83%
June	529867	568807	569017	37.88%
July	564145	619604	619905	37.93%
August	557712	608266	608495	37.97%
September	543135	584818	585026	38.00%
October	568866	622534	622748	37.95%
November	537279	579585	579794	37.95%
December	568615	623553	623782	37.86%
2014				
January	574820	626736	626964	37.93%
February	525393	559455	559644	37.60%
March	556908	604854	605084	37.47%
April	552116	597672	597968	37.38%
May	555752	606328	606620	37.24%
June	545163	589618	589898	37.08%
July	560413	613435	613736	36.99%
August	543301	590632	590905	36.89%
September	548626	596270	596547	36.81%
October	560617	614177	614470	36.72%
November	519775	560012	560288	36.68%
December	568109	628816	629131	36.46%
2015				
January	562959	612414	612762	37.16%
February	513325	546242	546523	36.72%
March	558167	608697	609004	36.70%
April	546543	592019	592311	36.67%
May	540158	586350	586622	36.64%
June	553244	603251	603572	36.44%
July	556570	609423	609741	36.27%
August	543734	592779	593076	36.12%
September	540695	587092	587383	35.85%
October	547355	597683	597966	35.54%
November	525473	569495	569762	35.28%
December	556123	613376	613670	34.90%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	531422	576544	576814	35.07%
February	512453	552840	553062	34.54%
March	539341	590717	590959	34.34%
April	513739	555593	555852	34.19%
May	522547	572190	572447	34.04%
June	525008	573078	573378	33.83%
July	509887	555534	555781	33.71%
August	535544	591637	591904	33.56%
September	514738	562460	562807	33.36%
October	518216	568765	569141	33.32%
November	513450	562214	562570	33.07%
December	529355	584801	585168	32.88%
2017				
January	508512	559286	559657	32.98%
February	464773	500628	500986	32.54%
March	507311	559982	560289	32.08%
April	459417	498010	498281	31.39%
May	488698	540976	541240	31.27%
June	480570	526767	527026	31.15%
July	473890	520456	520748	31.12%
August	488512	541514	541792	31.01%
September	465689	508437	508695	30.98%
October	478518	528836	529149	30.77%
November	466886	512511	512765	30.59%
December	468053	516286	516567	30.28%
2018				
January	436154	481708	481948	28.70%
February	373496	402871	403078	26.89%
March	381574	421818	422054	25.44%
April	341698	372977	373167	23.44%
May	349781	387428	387644	23.20%
June	339331	371934	372155	23.18%
July	343751	380298	380507	23.04%
August	347916	386961	387174	22.95%
September	325232	355128	355308	22.99%
October	348643	388719	388929	22.97%
November	333757	368051	368265	22.88%
December	336631	373360	373554	22.79%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Levemir				
2013				
January	150342	166526	166590	10.41%
February	143846	155520	155567	10.82%
March	154883	170311	170359	11.06%
April	163412	180779	180832	11.50%
May	168296	187676	187722	11.72%
June	162949	178687	178780	11.90%
July	173655	195264	195378	11.95%
August	172340	192526	192612	12.02%
September	168061	185505	185585	12.05%
October	178305	200012	200108	12.19%
November	169804	187700	187783	12.29%
December	180287	202577	202662	12.30%
2014				
January	187477	209426	209517	12.68%
February	176741	192422	192522	12.93%
March	190286	211534	211613	13.10%
April	194524	215941	216061	13.51%
May	200049	224263	224392	13.78%
June	199248	221246	221378	13.92%
July	206867	232632	232766	14.03%
August	204185	227944	228110	14.24%
September	210117	234334	234464	14.47%
October	215983	243460	243639	14.56%
November	201152	222641	222804	14.59%
December	222654	253530	253691	14.70%
2015				
January	216931	242086	242273	14.69%
February	203276	221694	221814	14.90%
March	222928	249744	249911	15.06%
April	221563	246384	246556	15.27%
May	221164	247102	247259	15.44%
June	229489	256855	257032	15.52%
July	233362	262738	262914	15.64%
August	230039	257639	257781	15.70%
September	231249	258248	258421	15.77%
October	234898	263430	263571	15.67%
November	227221	252982	253103	15.67%
December	239709	271468	271605	15.45%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	232693	258956	259107	15.75%
February	229188	253416	253549	15.84%
March	241570	272410	272557	15.84%
April	232127	257779	257911	15.86%
May	235425	265128	265272	15.77%
June	236702	265843	266001	15.70%
July	229139	256884	257014	15.59%
August	239485	272671	272831	15.47%
September	230454	259498	259659	15.39%
October	229545	259692	259860	15.22%
November	227662	256842	257026	15.11%
December	232574	264822	265015	14.89%
2017				
January	224275	253973	254153	14.97%
February	207044	228745	228896	14.87%
March	226976	258111	258302	14.79%
April	211892	237124	237297	14.95%
May	223587	255775	255984	14.79%
June	218800	247193	247380	14.62%
July	214221	242754	242931	14.52%
August	219201	250479	250663	14.35%
September	209435	236035	236225	14.39%
October	214824	244835	245031	14.25%
November	209668	237198	237374	14.16%
December	210546	239140	239294	14.03%
2018				
January	213872	242578	242760	14.46%
February	199940	221154	221306	14.76%
March	219822	249933	250110	15.08%
April	221235	250439	250623	15.74%
May	227897	262697	262906	15.74%
June	219892	250228	250407	15.60%
July	223445	256956	257130	15.57%
August	225404	260281	260486	15.44%
September	208429	235877	236067	15.28%
October	220511	255371	255558	15.09%
November	211331	241452	241649	15.01%
December	210157	241794	241969	14.76%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Myxredlin				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2018				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Novolin N				
2013				
January	30495	33599	33600	2.10%
February	26586	28755	28756	2.00%
March	27438	30132	30134	1.96%
April	27769	30639	30639	1.95%
May	27617	30680	30682	1.92%
June	26092	28419	28419	1.89%
July	27410	30576	30577	1.87%
August	26748	29628	29628	1.85%
September	25893	28252	28253	1.84%
October	26982	29949	29950	1.83%
November	24994	27363	27364	1.79%
December	26229	29316	29316	1.78%
2014				
January	26146	28912	28912	1.75%
February	23761	25604	25604	1.72%
March	24890	27453	27454	1.70%
April	24591	26977	26977	1.69%
May	24486	27083	27084	1.66%
June	24056	26255	26255	1.65%
July	24879	27535	27536	1.66%
August	23944	26296	26297	1.64%
September	24090	26481	26483	1.63%
October	24629	27268	27269	1.63%
November	22701	24638	24640	1.61%
December	24511	27384	27385	1.59%
2015				
January	24126	26449	26450	1.60%
February	22303	23931	23933	1.61%
March	23753	26128	26130	1.57%
April	23309	25461	25462	1.58%
May	22873	25086	25088	1.57%
June	23299	25553	25556	1.54%
July	23576	25996	25998	1.55%
August	23075	25281	25284	1.54%
September	23013	25119	25122	1.53%
October	23667	26036	26037	1.55%
November	22413	24440	24441	1.51%
December	23589	26139	26140	1.49%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	21491	23412	23412	1.42%
February	20708	22471	22471	1.40%
March	21322	23533	23535	1.37%
April	20359	22074	22074	1.36%
May	20397	22491	22492	1.34%
June	20300	22278	22279	1.31%
July	19823	21598	21599	1.31%
August	20797	22972	22972	1.30%
September	19925	21766	21767	1.29%
October	20022	21885	21887	1.28%
November	19814	21693	21694	1.28%
December	20524	22555	22557	1.27%
2017				
January	21881	23858	23859	1.41%
February	20906	22379	22380	1.45%
March	22927	25024	25025	1.43%
April	21291	22907	22907	1.44%
May	22708	24907	24907	1.44%
June	22223	24158	24160	1.43%
July	21871	23800	23801	1.42%
August	22508	24780	24781	1.42%
September	21317	23129	23130	1.41%
October	22172	24230	24234	1.41%
November	21415	23267	23268	1.39%
December	21288	23251	23251	1.36%
2018				
January	20999	22936	22936	1.37%
February	19186	20437	20439	1.36%
March	20401	22302	22303	1.34%
April	19652	21301	21304	1.34%
May	19942	21863	21863	1.31%
June	19249	20841	20843	1.30%
July	19401	21214	21214	1.28%
August	19905	21798	21798	1.29%
September	18377	19798	19798	1.28%
October	19523	21522	21523	1.27%
November	18600	20296	20296	1.26%
December	18691	20406	20406	1.24%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Novolin 70/30				
2013				
January	47695	53385	53387	3.34%
February	43108	46997	46998	3.27%
March	44283	49231	49234	3.20%
April	44976	50022	50025	3.18%
May	44074	49468	49471	3.09%
June	41668	45644	45645	3.04%
July	43950	49514	49517	3.03%
August	43088	48232	48234	3.01%
September	41327	45555	45556	2.96%
October	42891	48255	48258	2.94%
November	39887	43986	43987	2.88%
December	41377	46636	46639	2.83%
2014				
January	41805	46789	46790	2.83%
February	38156	41475	41477	2.79%
March	39697	44069	44073	2.73%
April	39266	43504	43505	2.72%
May	39133	43642	43644	2.68%
June	38294	42275	42279	2.66%
July	38989	43666	43668	2.63%
August	37840	42089	42091	2.63%
September	37861	41968	41972	2.59%
October	38404	43113	43117	2.58%
November	35244	38757	38760	2.54%
December	38375	43675	43680	2.53%
2015				
January	38152	42427	42431	2.57%
February	35131	37968	37970	2.55%
March	37337	41420	41424	2.50%
April	36314	40104	40109	2.48%
May	35337	38858	38862	2.43%
June	36169	40022	40025	2.42%
July	36234	40338	40341	2.40%
August	35360	39039	39043	2.38%
September	35133	38829	38833	2.37%
October	35861	39929	39932	2.37%
November	34057	37433	37437	2.32%
December	35586	40030	40033	2.28%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	32700	35858	35861	2.18%
February	31381	34303	34309	2.14%
March	32126	35761	35765	2.08%
April	30523	33464	33468	2.06%
May	30678	33960	33966	2.02%
June	30755	33985	33991	2.01%
July	29901	32908	32910	2.00%
August	31193	34956	34959	1.98%
September	30193	33289	33293	1.97%
October	29867	33134	33135	1.94%
November	30079	33183	33187	1.95%
December	30560	34159	34161	1.92%
2017				
January	33021	36453	36457	2.15%
February	31234	33601	33605	2.18%
March	34454	38288	38292	2.19%
April	32015	34822	34826	2.19%
May	33843	37627	37631	2.17%
June	33294	36683	36686	2.17%
July	32551	35893	35895	2.15%
August	33848	37673	37675	2.16%
September	31743	34743	34746	2.12%
October	32925	36508	36509	2.12%
November	31813	35114	35116	2.09%
December	31619	35077	35079	2.06%
2018				
January	31690	35051	35057	2.09%
February	28836	31210	31213	2.08%
March	30621	33880	33883	2.04%
April	29596	32430	32432	2.04%
May	29839	33014	33019	1.98%
June	28686	31311	31315	1.95%
July	29210	32266	32268	1.95%
August	29719	32978	32980	1.96%
September	27220	29556	29558	1.91%
October	28866	32122	32127	1.90%
November	27597	30392	30395	1.89%
December	27425	30277	30278	1.85%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Novolin R				
2013				
January	40896	45040	45043	2.81%
February	37180	40175	40176	2.80%
March	38697	42712	42713	2.77%
April	38592	42538	42539	2.71%
May	38474	42845	42846	2.68%
June	35996	39361	39361	2.62%
July	37662	42067	42067	2.57%
August	36295	40156	40158	2.51%
September	34820	38126	38126	2.48%
October	36169	40222	40223	2.45%
November	33187	36326	36326	2.38%
December	34599	38711	38711	2.35%
2014				
January	33924	37553	37553	2.27%
February	30903	33471	33471	2.25%
March	32078	35413	35416	2.19%
April	31538	34659	34660	2.17%
May	31113	34377	34378	2.11%
June	30163	33034	33034	2.08%
July	30626	34028	34029	2.05%
August	29444	32324	32327	2.02%
September	29387	32310	32312	1.99%
October	29506	32819	32821	1.96%
November	27320	29712	29715	1.95%
December	29052	32603	32606	1.89%
2015				
January	27901	30647	30652	1.86%
February	25608	27547	27548	1.85%
March	27288	30082	30085	1.81%
April	26531	29032	29035	1.80%
May	26183	28654	28655	1.79%
June	26077	28636	28637	1.73%
July	26354	29123	29127	1.73%
August	25397	27835	27837	1.70%
September	25406	27806	27807	1.70%
October	25920	28389	28390	1.69%
November	24541	26875	26876	1.66%
December	25782	28676	28676	1.63%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	23543	25622	25624	1.56%
February	22843	24840	24842	1.55%
March	23319	25753	25755	1.50%
April	22557	24383	24385	1.50%
May	22803	25185	25187	1.50%
June	22546	24621	24622	1.45%
July	21874	23863	23864	1.45%
August	22786	25236	25239	1.43%
September	21637	23664	23665	1.40%
October	21575	23667	23669	1.39%
November	21540	23644	23647	1.39%
December	21840	24038	24041	1.35%
2017				
January	22140	24158	24162	1.42%
February	21161	22687	22687	1.47%
March	23363	25706	25708	1.47%
April	21711	23362	23363	1.47%
May	23530	25922	25923	1.50%
June	23171	25152	25153	1.49%
July	23008	24955	24955	1.49%
August	23688	25905	25906	1.48%
September	22259	23947	23948	1.46%
October	23219	25318	25318	1.47%
November	22496	24450	24450	1.46%
December	22416	24397	24397	1.43%
2018				
January	21646	23637	23637	1.41%
February	19691	21025	21025	1.40%
March	20915	22837	22837	1.38%
April	20719	22434	22434	1.41%
May	20913	23009	23009	1.38%
June	20210	21861	21861	1.36%
July	20457	22317	22318	1.35%
August	20814	22784	22784	1.35%
September	19121	20574	20574	1.33%
October	20406	22526	22526	1.33%
November	19422	21039	21039	1.31%
December	19736	21561	21562	1.32%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Novolog				
2013				
January	221525	242447	242599	15.16%
February	202143	217064	217194	15.11%
March	214166	234186	234308	15.21%
April	218854	239882	239995	15.26%
May	222182	245022	245146	15.31%
June	212333	230623	230783	15.36%
July	226203	251070	251232	15.37%
August	223756	246751	246889	15.40%
September	217778	237769	237925	15.45%
October	229423	253909	254107	15.48%
November	217100	236635	236776	15.50%
December	231362	256631	256786	15.58%
2014				
January	222511	244533	244665	14.80%
February	204564	220265	220408	14.81%
March	215874	237091	237251	14.69%
April	211783	232601	232805	14.55%
May	213624	236473	236716	14.53%
June	211403	231916	232138	14.59%
July	217286	241389	241650	14.56%
August	211113	233025	233265	14.56%
September	213166	234873	235116	14.51%
October	218545	242783	243014	14.52%
November	203666	222591	222822	14.59%
December	226917	254367	254649	14.76%
2015				
January	215683	237261	237505	14.40%
February	201011	216718	216926	14.58%
March	218048	241246	241518	14.56%
April	212501	233564	233792	14.48%
May	210198	231463	231716	14.47%
June	217739	240452	240676	14.53%
July	217286	241708	241954	14.39%
August	214348	237183	237415	14.46%
September	215061	236794	237031	14.47%
October	220576	244562	244828	14.55%
November	212915	234522	234779	14.54%
December	228607	256145	256426	14.58%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	201858	222205	222474	13.52%
February	197174	216370	216607	13.53%
March	207363	231432	231678	13.46%
April	197728	218307	218524	13.44%
May	201583	225536	225792	13.43%
June	203117	225593	225823	13.32%
July	197203	219034	219257	13.30%
August	207497	233402	233665	13.25%
September	200447	222399	222657	13.20%
October	201765	224697	224947	13.17%
November	203916	226718	226937	13.34%
December	213817	239413	239697	13.47%
2017				
January	214293	237671	237953	14.02%
February	203972	221515	221776	14.40%
March	227321	253966	254251	14.56%
April	208390	229409	229657	14.47%
May	225296	253057	253311	14.64%
June	223121	247775	248013	14.66%
July	220504	245713	245962	14.70%
August	229931	258217	258520	14.80%
September	220013	243499	243749	14.84%
October	228309	255383	255683	14.87%
November	224971	250069	250328	14.93%
December	229131	255578	255868	15.00%
2018				
January	224403	250042	250294	14.90%
February	205728	224057	224282	14.96%
March	221933	247829	248072	14.95%
April	217278	240986	241213	15.15%
May	223351	251324	251564	15.06%
June	215086	238922	239167	14.90%
July	221466	249023	249268	15.09%
August	226000	254824	255089	15.12%
September	210820	233282	233520	15.11%
October	225746	254781	255049	15.06%
November	217145	241854	242110	15.04%
December	221059	248321	248558	15.16%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Novolog Mix 70/30				
2013				
January	62058	68940	68963	4.31%
February	56063	60599	60610	4.22%
March	58773	64680	64693	4.20%
April	60118	66475	66492	4.23%
May	60299	67276	67294	4.20%
June	57188	62477	62508	4.16%
July	60252	67482	67505	4.13%
August	59303	65973	66007	4.12%
September	57376	62901	62923	4.09%
October	59668	66681	66699	4.06%
November	56025	61471	61487	4.02%
December	58519	65543	65564	3.98%
2014				
January	58583	65190	65211	3.95%
February	53209	57419	57441	3.86%
March	55488	61279	61300	3.80%
April	54126	59644	59677	3.73%
May	54076	60109	60143	3.69%
June	53024	58280	58309	3.67%
July	54203	60439	60464	3.64%
August	52164	57707	57741	3.60%
September	52042	57424	57457	3.55%
October	52634	58764	58795	3.51%
November	48389	52958	52974	3.47%
December	52546	59103	59129	3.43%
2015				
January	51459	56819	56857	3.45%
February	47562	51182	51214	3.44%
March	50902	56333	56365	3.40%
April	49355	54256	54273	3.36%
May	48216	53116	53149	3.32%
June	49327	54755	54789	3.31%
July	48973	54647	54677	3.25%
August	47646	52806	52842	3.22%
September	47339	52251	52275	3.19%
October	47624	52936	52965	3.15%
November	45173	49817	49851	3.09%
December	47001	52792	52828	3.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	42471	46545	46570	2.83%
February	41021	44812	44834	2.80%
March	42452	47355	47375	2.75%
April	40365	44242	44259	2.72%
May	40656	45158	45181	2.69%
June	40691	45136	45165	2.66%
July	39290	43482	43501	2.64%
August	40969	46116	46142	2.62%
September	38999	43241	43267	2.56%
October	39118	43347	43370	2.54%
November	38601	42934	42950	2.52%
December	39376	44008	44029	2.47%
2017				
January	41101	45511	45535	2.68%
February	38561	41695	41718	2.71%
March	42686	47451	47472	2.72%
April	39251	42930	42949	2.71%
May	41800	46833	46859	2.71%
June	41119	45658	45674	2.70%
July	39938	44387	44411	2.65%
August	40897	45885	45912	2.63%
September	38648	42542	42556	2.59%
October	39740	44406	44427	2.58%
November	38509	42687	42703	2.55%
December	37850	42011	42033	2.46%
2018				
January	38657	43025	43046	2.56%
February	35057	37906	37919	2.53%
March	37339	41460	41477	2.50%
April	36558	40098	40111	2.52%
May	37206	41527	41534	2.49%
June	35616	39451	39467	2.46%
July	36220	40429	40448	2.45%
August	36465	40929	40946	2.43%
September	33629	36906	36923	2.39%
October	35890	40403	40414	2.39%
November	34038	37705	37725	2.34%
December	33696	37605	37625	2.30%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Soliqua				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	45	45	45	0.00%
February	168	174	174	0.01%
March	301	322	322	0.02%
April	408	433	433	0.03%
May	574	627	627	0.04%
June	722	776	776	0.05%
July	1142	1328	1328	0.08%
August	1392	1631	1631	0.09%
September	1558	1785	1785	0.11%
October	1957	2258	2258	0.13%
November	2087	2374	2374	0.14%
December	2227	2555	2555	0.15%
2018				
January	2419	2777	2777	0.17%
February	2477	2780	2780	0.19%
March	2899	3298	3298	0.20%
April	3113	3522	3522	0.22%
May	3590	4142	4142	0.25%
June	4037	4526	4526	0.28%
July	4308	4895	4895	0.30%
August	4714	5322	5322	0.32%
September	4643	5176	5176	0.33%
October	5299	6004	6004	0.35%
November	5279	5909	5909	0.37%
December	5471	6147	6147	0.37%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Toujeo				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	11	11	11	0.00%
April	609	629	629	0.04%
May	1888	2007	2007	0.13%
June	3991	4291	4291	0.26%
July	6540	7134	7134	0.42%
August	8838	9568	9568	0.58%
September	12146	13212	13212	0.81%
October	16043	17574	17574	1.04%
November	18572	20415	20416	1.26%
December	22880	25610	25610	1.46%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	26598	28995	28996	1.76%
February	29532	32187	32190	2.01%
March	34912	38775	38780	2.25%
April	36399	39829	39832	2.45%
May	39475	43671	43672	2.60%
June	42527	46888	46891	2.77%
July	43207	47412	47415	2.88%
August	47949	53575	53583	3.04%
September	48158	53013	53014	3.14%
October	50252	55629	55632	3.26%
November	51618	57050	57057	3.35%
December	55183	61714	61720	3.47%
2017				
January	55122	61103	61106	3.60%
February	51915	56255	56258	3.65%
March	57669	64292	64293	3.68%
April	55128	60315	60321	3.80%
May	59216	66264	66269	3.83%
June	58930	65288	65291	3.86%
July	58735	65052	65060	3.89%
August	61017	68253	68257	3.91%
September	58020	63684	63690	3.88%
October	59650	66375	66380	3.86%
November	59108	65280	65286	3.89%
December	59820	66439	66444	3.89%
2018				
January	58421	64658	64663	3.85%
February	51590	55618	55626	3.71%
March	54434	60234	60240	3.63%
April	50780	55576	55582	3.49%
May	52673	58493	58499	3.50%
June	51354	56228	56235	3.50%
July	52255	57821	57830	3.50%
August	53831	59645	59657	3.54%
September	50769	55112	55117	3.57%
October	55041	61230	61239	3.62%
November	52733	57770	57778	3.59%
December	53742	59203	59217	3.61%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Tresiba				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	79	80	80	0.00%
December	484	514	514	0.03%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	1308	1345	1346	0.08%
February	3521	3699	3700	0.23%
March	6615	7150	7152	0.42%
April	8561	9189	9192	0.57%
May	11204	12190	12191	0.72%
June	13837	15107	15112	0.89%
July	16116	17538	17540	1.06%
August	20003	22099	22104	1.25%
September	21834	23852	23855	1.41%
October	24361	26808	26817	1.57%
November	26973	29567	29576	1.74%
December	30361	33700	33711	1.89%
2017				
January	32883	35944	35956	2.12%
February	34073	36505	36514	2.37%
March	40748	44777	44790	2.56%
April	39286	42418	42426	2.67%
May	44357	48630	48644	2.81%
June	45929	50122	50140	2.96%
July	46757	50956	50975	3.05%
August	50600	55516	55538	3.18%
September	50299	54385	54404	3.31%
October	54920	59922	59934	3.49%
November	56465	61381	61394	3.66%
December	60046	65462	65485	3.84%
2018				
January	68888	74607	74633	4.44%
February	66687	70939	70952	4.73%
March	76524	83215	83234	5.02%
April	78906	85235	85254	5.36%
May	83838	91808	91828	5.50%
June	83402	90132	90158	5.62%
July	86689	94496	94518	5.72%
August	90295	98843	98858	5.86%
September	85814	92281	92297	5.97%
October	93584	102838	102856	6.07%
November	91592	99381	99403	6.17%
December	93761	102602	102623	6.26%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
Xultophy				
2013				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2014				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2015				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%

Table 4. Summary of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018, by Year and Month

Month	Users	Episodes	Adjusted Dispensings	Percent ¹
2016				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	0	0	0	0.00%
June	0	0	0	0.00%
July	0	0	0	0.00%
August	0	0	0	0.00%
September	0	0	0	0.00%
October	0	0	0	0.00%
November	0	0	0	0.00%
December	0	0	0	0.00%
2017				
January	0	0	0	0.00%
February	0	0	0	0.00%
March	0	0	0	0.00%
April	0	0	0	0.00%
May	57	65	65	0.00%
June	194	206	206	0.01%
July	254	275	275	0.02%
August	386	415	415	0.02%
September	486	512	512	0.03%
October	683	719	719	0.04%
November	832	865	865	0.05%
December	997	1058	1058	0.06%
2018				
January	1102	1143	1143	0.07%
February	1300	1328	1328	0.09%
March	1445	1516	1516	0.09%
April	1591	1656	1656	0.10%
May	1873	1972	1972	0.12%
June	2064	2163	2163	0.13%
July	2232	2370	2370	0.14%
August	2430	2559	2559	0.15%
September	2436	2550	2550	0.17%
October	2705	2880	2880	0.17%
November	2802	2944	2944	0.18%
December	2854	3044	3044	0.19%

¹We calculated percent as [Adjusted dispensings of specific product or code type in the month-year] / [Adjusted dispensings of all HCPCS and NDCs in the month-year]

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells pres

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	19,624,302	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	13,804,389	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	7,860,906	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	7,004,437	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	5,691,299	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	5,515,805	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	5,322,158	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	4,359,045	N/A
Novolin_7030_u-100,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	2,656,005	N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	2,562,590	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	2,279,860	N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	2,260,372	N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	1,905,547	N/A
Humulin_7030_u-100,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	1,870,116	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	1,496,893	N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	1,478,936	N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	1,355,217	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	1,337,687	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	1,305,136	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A	1,290,594	N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	1,219,790	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	1,202,188	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	1,037,138	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	995,580	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	989,209	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	831,980	ED
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	722,736	N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	707,067	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	657,496	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	561,208	AV
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX	N/A	474,582	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	446,646	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	425,536	N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_7030_u-100_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A	377,530	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A	370,409	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	316,832	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	253,843	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A	208,102	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	206,669	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A	196,124	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	187,703	N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	178,771	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	175,491	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulinr_u500_conc_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	169,771	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	165,792	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	151,759	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
	Injection				
Humalog_mix_50-50_kwikpen,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	140,128	N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	115,560	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A	108,993	N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	94,467	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	91,418	IPX
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	90,587	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	85,083	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	80,071	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	76,681	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	71,660	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	66,328	N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	65,527	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	64,142	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	63,290	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		
Humalog_mix_50-50_u-100,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A	62,701	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	62,521	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	55,979	N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	54,664	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	48,007	N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	45,115	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	43,911	N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	42,768	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	40,003	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	39,699	N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	36,862	N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	34,584	N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	29,887	N/A N/A
Xultophy_10036,pen J1815	Xultophy 100/3.6, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	29,214 29,108	N/A IP
Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	29,078	N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	28,183	N/A N/A
Tresiba_flextouch_u-200,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	26,946	N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	26,824	N/A N/A
Levemir_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	26,814	N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	26,530	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	26,306	N/A N/A
Lantus_u-100,solution Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	25,379	N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	24,625	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	22,713	N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	22,254	N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	22,055	N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	20,579	N/A N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	19,017	ED
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	18,588	N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	18,382	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	16,670	N/A N/A
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	16,308	N/A N/A
Afrezza,cartridge_with_inhaler	Afrezza, Cartridge With Inhaler	RX	N/A	15,625	N/A
Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	15,442	N/A N/A
Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	15,365	N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	14,716	N/A N/A
Novolog_u-100_aspart,solution Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	14,423	N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	14,112	N/A N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	13,648	AV
Toujeo_solostar_u-300,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	13,229	N/A N/A
Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	13,111	N/A N/A
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	12,852	N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	12,828	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	12,442	N/A N/A
Humalog_u-100,solution Humalog_kwikpen,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	11,969	N/A N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	11,047	IS
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	10,980	N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	10,963	N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX	N/A N/A	10,959	N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	10,534	N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	10,494	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	10,322	N/A N/A
Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	10,147	N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	9,766	N/A N/A
Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	9,690	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	9,681	N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	9,672	N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	8,871	N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	8,774	N/A N/A
J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	8,740	ED ED
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	8,654	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX	N/A N/A	8,569	N/A N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	7,721	OA
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	7,381	AV AV
Levemir_flexpen,pen Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	7,353	N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	6,992	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	6,970	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX	N/A N/A	6,789	N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	6,652	N/A N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A	6,350	N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	6,086	N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	6,050	N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	5,870	N/A N/A
Levemir_flextouch_u-100,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	5,847	N/A N/A
Humulin_r_reg_u-100,solution Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	5,777	N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	5,734	N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	5,710	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	5,575	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	5,513	N/A N/A
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	5,481	AV AV
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	5,090	N/A N/A
Levemir_flexpen,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	5,028	N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	4,899	N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	4,887	N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	4,820	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	4,739	N/A N/A
Lantus_u-100,solution Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	4,623	N/A N/A
Levemir_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	4,550	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	4,519	N/A N/A
Fiasp_u-100,solution	Fiasp U-100 Insulin, Solution, Subcutaneous	RX	N/A	4,256	N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	4,199	N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	4,181	N/A N/A
Lantus_solostar_u-100,pen Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	3,887	N/A N/A
Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	3,856	N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	3,843	N/A N/A
Lantus_u-100,solution Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	3,829	N/A N/A
Toujeo_solostar_u-300,pen Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	3,780	N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	3,732	N/A N/A
Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	3,716	N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	3,706	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	3,688	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	3,651	N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	3,647	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	3,644	N/A
,suspension	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution					
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	3,628	N/A
,suspension	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Injection				
Humalogjr_kwikpen_u100	Humalog Junior Kwikpen U-100, Insulin Pen,	RX	N/A	3,556	N/A
,halfpen	Half-Unit				
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	3,300	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	3,298	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	3,193	N/A
Humalog_mix_75-25u-100,susp	Injection	RX	N/A		N/A
	Humalog Mix 75-25(U-100)insulin, Suspension				
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	3,159	N/A
,solut	Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen				
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	3,092	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC	3,040	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
	Injection, Insulin, Per 5 Units				
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	3,010	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	2,995	AV AV
Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	2,995	N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	2,994	N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	2,915	N/A N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	2,844	N/A AV
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	2,834	N/A N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	2,788	OA
J1815 00088222033	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	2,780	AV AV
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	2,774	N/A N/A
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	2,750	AV
Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	2,673	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	2,651	N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	2,646	N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	2,612	N/A N/A
Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	2,595	N/A N/A
Tresiba_flextouch_u-100,pen Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	2,535	N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	2,457	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	2,440	N/A N/A
Novolog_u-100_aspart,solution Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	2,438	N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	2,380	N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	2,362	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	2,353	N/A ED
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	2,349	AV
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	2,332	N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX	N/A N/A	2,280	N/A N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	2,269	OA OA
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	2,249	N/A N/A
J1817 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	2,195	OA OA
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	2,190	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	2,189	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	2,178	N/A N/A
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	2,052	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	2,023	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	1,996	N/A
Lantus_u-100,solution		RX	N/A		N/A
Humalog_u-100,solution		RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	1,975	N/A
Novolin_r_reg_u-100,solution		RX	N/A		N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	1,951	N/A
Humalog_kwikpen,pen		RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	1,942	N/A
Novolin_r_reg_u-100,solution		RX	N/A		N/A
Levemir_u-100,solution		RX	N/A		N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	1,938	N/A
Levemir_u-100,solution		RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	1,907	N/A
J1815		PX	HC		ED
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	1,901	N/A
Humalog_u-100,solution		RX	N/A		N/A
Humalog_kwikpen,pen		RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	1,894	AV
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	1,889	N/A
Humulin_r_reg_u-100,solution		RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	1,872	N/A N/A
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	1,866	AV AV
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	1,863	ED ED
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	1,838	N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	1,815	N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	1,814	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,783	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_pen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	1,753	N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,752	N/A N/A
Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	1,732	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	1,717	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,712	N/A N/A N/A
Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,675	N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	1,667	N/A N/A
Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	1,646	N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,634	N/A N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	1,615	AV
Levemir_u-100,solution Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,601	N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,579	N/A N/A
Admelog_solostar_u-100,pen	Admelog Solostar U-100 Insulin, Insulin Pen	RX	N/A	1,557	N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	1,512	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	1,508	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	1,495	N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,494	N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,474	N/A N/A
Humulin_r_u-500_conc,solution Humalog_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,466	N/A N/A
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	1,444	N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,430	N/A N/A N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	1,414	AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	1,391	IPX
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	1,389	N/A AV
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	1,384	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,381	N/A N/A
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	1,380	AV AV
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,378	N/A N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	1,367	IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	1,364	AV
Novolog_flexpen_u-100,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,355	N/A N/A
Novolin_r_reg_u-100,solution Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,354	N/A N/A
Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,341	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,331	N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	1,328	N/A N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	1,319	N/A ED
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	1,286	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	1,282	N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	1,273	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	1,268	N/A N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	1,251	N/A AV
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	1,242	IP IP
Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	1,241	N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,239	N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	1,238	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	1,219	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,209	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,186	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	1,175	N/A N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	1,169	AV
Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,169	N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,162	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	1,159	N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	1,135	N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	1,132	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,123	N/A N/A
Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	1,121	N/A N/A
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	1,094	AV AV
J1817 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	1,076	OA OA
Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,068	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	1,067	N/A N/A N/A
J1815 J1815	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	1,065	AV ED
Levemir_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	1,047	N/A N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	1,038	N/A ED
Lantus_solostar_u-100,pen Humulin_n_pen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX	N/A N/A	1,032	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	1,012	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_kwipen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	997	N/A N/A
Soliqua_10033,pen Humalog_kwipen,pen	Soliqua 100/33, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	991	N/A N/A
Basaglar_kwipen_u-100,pen Apidra_solostar_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	989	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwipen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	988	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	983	N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	961	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwipen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	958	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	958	N/A N/A
Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwipen ,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	948	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	944	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	932	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	931	N/A N/A
Tresiba_flextouch_u-200,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	930	N/A N/A
Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	919	N/A N/A
Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	918	N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	914	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	913	N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	912	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	905	AV N/A
Levemir_u-100,solution Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	903	N/A N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	888	AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	887	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	885	N/A N/A N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	884	N/A ED
J1815 Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	862	AV N/A
J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	856	AV N/A
Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	855	N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	841	N/A N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	840	IP
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	838	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Lantus_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	838	N/A N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	828	ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	821	ED
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	821	N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	820	N/A N/A N/A
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	812	IP
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	795	OA
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	795	N/A N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	789	N/A AV
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	787	N/A N/A
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	782	ED ED
Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	780	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	774	N/A N/A
Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	773	N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	769	N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	763	N/A N/A N/A
Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	759	N/A N/A
Humulin_7030_pen,pen Humalog_kwikpen,pen	Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	753	N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	741	N/A N/A
Novolog_u-100_aspart,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	736	N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	732	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	720	N/A N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	717	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	713	IP
J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	712	ED N/A
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	694	ED ED
Novolog_penfill_u100,cartridge Levemir_flexpen,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	691	N/A N/A
J1815 Humalog_kwipen,pen	Injection, Insulin, Per 5 Units Humalog Kwipen Insulin, Insulin Pen	PX RX	HC N/A	690	ED N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	689	N/A N/A N/A
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	683	N/A ED
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	680	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwipen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwipen, Insulin Pen	RX RX	N/A N/A	679	N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	676	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	675	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	672	N/A N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	672	IP
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	668	N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humalog_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	666	N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	665	N/A N/A N/A
Admelog_u-100_lispro,solution	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX	N/A	660	N/A
Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	660	N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	659	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	658	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	657	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	656	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	655	N/A
Humalog_mix_75-25u-100,susp	Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	653	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	651	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	647	N/A
Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	637	N/A
Novolin_n_nph_u-100 ,suspension	Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	626	N/A
Humulinr_u500_conc_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	622	N/A
Humalog_mix_50-50_u-100 ,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	622	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	621	N/A N/A N/A
Tresiba_flextouch_u-100,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	617	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	608	N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	606	N/A N/A
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	606	N/A N/A
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	598	IP IP
Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	587	N/A N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	586	AV
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	584	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	582	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	575	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	574	N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	572	N/A N/A N/A
Levemir_flexpen,pen Humulin_7030_u-100 ,suspension	Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	568	N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	562	N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	561	N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	561	N/A N/A
Soliqua_10033,pen Novolog_flexpen_u-100,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	558	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	545	AV N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	544	N/A N/A
Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	542	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	542	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	541	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	541	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	537	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Apidra_u-100,solution	Humulin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	532	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	532	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	530	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX	N/A N/A	530	N/A N/A
Tresiba_flextouch_u-200,pen Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	528	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_penfill_u100,cartridge	Tresiba Flextouch U-100, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	RX RX	N/A N/A	528	N/A N/A
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	525	AV N/A
Toujeo_solostar_u-300,pen Humulinr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	514	N/A N/A
Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	514	N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	514	N/A N/A
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	514	AV
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	510	N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution	Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	503	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	497	N/A N/A N/A
Levemir_flextouch_u-100,pen Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	497	N/A N/A
00088222033 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	495	AV AV
Levemir_flexpen,pen Humulin_7030_pen,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	494	N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	490	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	477	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	476	N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	471	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	464	N/A AV N/A
Levemir_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	464	N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	462	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	461	N/A OA
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	458	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	458	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	453	N/A AV N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	453	N/A N/A
Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	450	N/A N/A
Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	450	N/A N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	449	AV
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	443	N/A AV
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	442	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	442	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	441	N/A N/A
Novolog_penfill_u100,cartridge Levemir_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	441	N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	439	N/A AV
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	431	N/A N/A
Toujeo_solostar_u-300,pen Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	431	N/A N/A
Tresiba_flextouch_u-100,pen Fiasp_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	429	N/A N/A
Lantus_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	426	N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	424	N/A N/A
Levemir_flexpen,pen Humulin_r_u-500_conc,solution	Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	423	N/A N/A
Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	417	N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	415	N/A N/A
J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	413	IPX IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	410	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	408	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	407	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	404	AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	402	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	400	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	399	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	398	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	397	N/A
Humalog_mix_50-50_u-100 ,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	397	N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	396	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	396	N/A N/A N/A
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	394	ED
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	392	ED
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	392	N/A N/A N/A
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	388	ED ED
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	386	N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	385	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	382	N/A N/A N/A
Lantus_solostar_u-100,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	379	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	379	IP
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	377	N/A N/A AV
J1815 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	375	IP IP IP
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	374	N/A N/A N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	373	ED
Levemir_flexpen,pen Humalog_mix_75-25u-100,susp	Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	367	N/A N/A
Novolin_n_nph_u-100 ,suspension Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	366	N/A N/A
Toujeo_max_u-300_solostar ,pen Novolog_flexpen_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	365	N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	362	N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	361	N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,cartridge	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	356	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX PX	N/A HC	356	N/A AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	355	AV
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	352	N/A N/A N/A
Humalog_u-100,solution Apidra_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	349	N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	349	N/A N/A N/A
Toujeo_solostar_u-300,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	348	N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	346	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	346	N/A N/A
J1815 00088221905	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	344	AV AV
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	340	N/A N/A N/A
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen	RX RX	N/A N/A	339	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	338	AV AV AV
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25u-100,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	337	N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	334	N/A N/A
Tresiba_flextouch_u-200,pen Fiasp_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	332	N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	331	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	330	N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	329	N/A N/A N/A
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND	329	AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	328	IS
Novolog_mix_70-30_u-100 ,solut Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	327	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	324	N/A N/A N/A
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	323	IP IP
Novolin_r_reg_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX PX	N/A HC	322	N/A ED
Apidra_u-100,solution Apidra_solostar_u-100,pen J1815	Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	321	N/A N/A AV
00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	319	AV AV AV
Novolog_u-100_aspart,solution Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	317	N/A N/A
Lantus_u-100,solution 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	316	N/A OA
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	314	N/A N/A
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	314	N/A ED
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	313	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Humalog_u-100,cartridge	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	311	N/A N/A
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	311	OA OA
Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	308	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	307	N/A N/A N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	305	AV
Toujeo_solostar_u-300,pen Humalog_mix_50-50_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	305	N/A N/A
Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen	Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	302	N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	298	N/A N/A N/A
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	295	IP IP
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	294	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	294	N/A N/A N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	293	IP
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	291	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	291	N/A N/A
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	291	N/A AV
J1815 00169368712 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	290	AV AV AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	290	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	289	N/A ED N/A
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	289	IP IP
Novolin_7030_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	288	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	286	N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	285	N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	283	N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	283	N/A ED
J1815 00088222033	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	281	IP IP
Levemir_flexpen,pen Humalog_u-100,cartridge	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	280	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	279	N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	279	N/A N/A
J1815 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	278	AV AV
Lantus_u-100,solution Humulin_n_nph_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	277	N/A N/A
J1815 00088222033	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	277	ED ED
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	275	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humalog_mix_75-25u-100,susp	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	272	N/A N/A
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	RX RX	N/A N/A	272	N/A N/A
Xultophy_10036,pen Humalog_kwikpen,pen	Xultophy 100/3.6, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	271	N/A N/A
Lantus_u-100,solution Humulin_7030_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	271	N/A N/A
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	271	ED N/A
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	270	AV AV
Levemir_flexpen,pen Humulin_n_pen,pen	Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen	RX RX	N/A N/A	270	N/A N/A
Toujeo_solostar_u-300,pen Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	267	N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	267	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	267	N/A N/A AV
Lantus_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Lantus Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	266	N/A N/A
Humulin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	262	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	262	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	262	ED
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	261	N/A
Lantus_u-100,solution	Subcutaneous	RX	N/A		N/A
J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	PX	HC		ED
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	260	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_n_nph_u-100	Injection	RX	N/A		N/A
,suspension	Humulin N Nph U-100 Insulin, Suspension				
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	260	N/A
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	258	AV
00169750111	Novolog U-100 Insulin Aspart, Solution,	PX	ND		AV
00169368712	Subcutaneous	PX	ND		AV
	Levemir U-100 Insulin, Solution, Subcutaneous				
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	257	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	257	N/A
,solut	Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen				
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	254	N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension					
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	253	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulinr_u500_conc_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	250	N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	248	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	248	N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	248	N/A N/A N/A
Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	248	N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	246	N/A N/A
Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	245	N/A N/A
Tresiba_flextouch_u-100,pen Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	245	N/A N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	244	IP
Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	243	N/A N/A
Toujeo_solostar_u-300,pen Humulin_7030_u-100_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	243	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	238	AV N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	237	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	232	N/A N/A N/A
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	231	IP IP
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	230	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	229	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	228	N/A N/A ED
Humulin_n_nph_kwikpen,pen Humalog_mix_50-50_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	226	N/A N/A
Basaglar_kwikpen_u-100,pen Admelog_solostar_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	226	N/A N/A
Novolin_7030_flexpen_u-100 ,pen	Novolin 70-30 Flexpen U-100, Insulin Pen	RX	N/A	226	N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX RX	N/A N/A	221	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	220	N/A N/A N/A
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	220	N/A ED
Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	219	N/A N/A
Humulin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	219	N/A N/A
Humulin_n_nph_kwikpen,pen Apidra_solostar_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	219	N/A N/A
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	218	ED ED
Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	217	N/A N/A
Novolog_flexpen_u-100,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	216	N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	215	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	215	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	213	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	212	N/A N/A N/A
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	211	ED ED
Tresiba_flextouch_u-200,pen Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	211	N/A N/A
Novolog_mix_70-30_u-100 ,solut J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	210	N/A AV
Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	208	N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	207	AV N/A
Humalog_u-100,solution 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	207	N/A OA
Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	207	N/A N/A
J1815 00002850101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX	HC ND	207	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	205	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	205	IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	205	N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	205	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	203	AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	203	N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	202	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	202	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	202	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	201	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	201	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	201	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	199	N/A N/A
Tresiba_flextouch_u-100,pen Lantus_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	198	N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	197	N/A N/A N/A
00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	196	AV AV
Novolog_mix_70-30_u-100 ,solut Humalog_mix_50-50_u-100 ,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	194	N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	194	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	194	N/A AV
Novolog_u-100_aspart,solution Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	192	N/A N/A
J1815 Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	192	ED N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	191	OA
Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	190	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	188	N/A N/A
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	188	ED N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	187	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	186	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	186	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	186	N/A N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	186	IP
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	186	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	186	N/A AV
Tresiba_flextouch_u-100,pen Basaglar_kwipen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	186	N/A N/A
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	185	AV
Novolin_r_reg_u-100,solution Humulin_r_u-500_conc,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	185	N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwipen ,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	183	N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	183	N/A N/A N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	183	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	181	ED
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	181	ED N/A
Novolog_u-100_aspart,solution Humulin_n_nph_kwipen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	179	N/A N/A
Lantus_u-100,solution 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	179	N/A AV
Toujeo_solostar_u-300,pen Levemir_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	179	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	178	N/A N/A
Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	178	N/A N/A
Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX	N/A N/A	176	N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	175	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen	RX RX	N/A N/A	175	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	175	N/A N/A N/A
J1815 00002831517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	175	AV AV
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	175	N/A ED
Toujeo_solostar_u-300,pen Humulin_n_nph_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	174	N/A N/A
Levemir_flextouch_u-100,pen Afrezza,cartridge_with_inhaler	Levemir Flextouch U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	174	N/A N/A
Tresiba_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	173	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	173	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	172	N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	172	N/A N/A
Tresiba_flextouch_u-200,pen Levemir_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	172	N/A N/A
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	171	N/A ED
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge	RX RX	N/A N/A	171	N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	170	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	169	N/A N/A
Humulin_n_pen,pen Humalog_u-100,solution	Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	169	N/A N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	169	N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	168	AV N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	168	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	166	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	165	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_penfill_u100,cartridge	Tresiba Flextouch U-200, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	RX RX	N/A N/A	165	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	164	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	164	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	164	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	164	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	163	N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	162	N/A N/A
00088221905 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	160	AV AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	159	IP
Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	157	N/A N/A N/A
Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	157	N/A N/A
Novolin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	156	N/A N/A
Humalog_u-100,solution 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	156	N/A AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	155	OA
Tresiba_flextouch_u-200,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	155	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	154	N/A ED
J1815 00169183411	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	PX PX	HC ND	154	AV AV
Humulin_7030_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	153	N/A N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	152	ED
Novolog_u-100_aspart,solution Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	151	N/A N/A
J1815 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	150	AV AV AV
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	150	N/A IPX
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	149	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	148	N/A N/A
Lantus_u-100,solution Humulin_n_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX	N/A N/A	147	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	146	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	146	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	145	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	145	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	145	N/A N/A ED
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	144	IP IP
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	144	N/A N/A N/A
00002871501 00002871501	Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX	ND ND	144	AV AV
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	143	N/A N/A
Humulin_n_nph_u-100 ,suspension Apidra_solostar_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	141	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	140	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	139	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A	139	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	138	AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	137	N/A
Levemir_u-100,solution	Injection	RX	N/A		N/A
Lantus_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	134	AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	134	OA
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	133	N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	133	AV
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	132	N/A
Lantus_solostar_u-100,pen	Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	132	N/A
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	132	N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	132	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	132	N/A N/A N/A
Tresiba_flextouch_u-200,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	132	N/A N/A
J1815 00002879901	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	132	AV AV
J1817 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	130	AV AV
Humalog_mix_75-25u-100,susp Apidra_u-100,solution	Humalog Mix 75-25(U-100)insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	130	N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	129	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_mix_50-50_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	129	N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	129	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	129	N/A N/A
Humalog_mix_75-25u-100,susp Basaglar_kwikpen_u-100,pen	Humalog Mix 75-25(U-100)insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	128	N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	128	ED N/A
Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	127	N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	127	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	126	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	126	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	125	N/A N/A
Novolin_7030_u-100 ,suspension Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	125	N/A N/A
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	124	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	124	N/A N/A N/A
Tresiba_flextouch_u-100,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-100, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	124	N/A N/A
J1817 00169183302	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	124	AV AV
Novolog_u-100_aspart,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	123	N/A AV
Novolin_n_nph_u-100 ,suspension Apidra_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	123	N/A N/A
J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	123	IP IP
J1815 00088502101	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	123	AV AV
Soliqua_10033,pen Humalog_u-100,solution	Soliqua 100/33, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	122	N/A N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	122	ED
J1815 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	122	AV AV
J1815 Humulin_n_nph_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX	HC N/A	122	AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	122	N/A N/A
Novolog_mix_70-30_u-100 ,solut Apidra_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	122	N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	121	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	121	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	121	N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	120	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	120	N/A N/A
Lantus_solostar_u-100,pen Admelog_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	119	N/A N/A
Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	119	N/A N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	118	OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	118	N/A N/A
Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	118	N/A N/A
Tresiba_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	118	N/A AV
00169368712 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	117	AV AV
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen J1815 00002871517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX RX RX PX PX	N/A N/A N/A HC ND	117 117	N/A N/A N/A AV AV
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	116	N/A N/A IPX
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution J1817 00002850101	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX PX PX	N/A N/A N/A HC ND	115	N/A N/A N/A OA OA
J1815 00169183711	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	115	AV AV
Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	114	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX RX	N/A N/A	114	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	113	N/A N/A N/A
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	113	ED ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	113	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	113	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	112	N/A N/A
Humulin_r_reg_u-100,solution Apidra_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	112	N/A N/A
J1817 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	112	OA OA
Tresiba_flextouch_u-100,pen Levemir_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	112	N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	111	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Fiasp_flextouch_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	111	N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	111	N/A N/A N/A
Toujeo_solostar_u-300,pen Fiasp_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	111	N/A N/A
Tresiba_flextouch_u-200,pen Apidra_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	111	N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	110	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	110	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	110	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	109	N/A N/A N/A
Novolog_u-100_aspart,solution Humulinr_u500_conc_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	109	N/A N/A
Levemir_flextouch_u-100,pen Fiasp_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	109	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	108	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humalog_u-100,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	108	N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	108	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	108	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	108	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	108	N/A ED
Levemir_flexpen,pen 00169643910	Levemir Flexpen, Insulin Pen Levemir Flexpen, Insulin Pen	RX PX	N/A ND	107	N/A OA
Novolin_r_reg_u-100,solution Humulin_n_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX	N/A N/A	107	N/A N/A
J1815 00088222033 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	107	AV AV AV
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND	107	AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	107	IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen 00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	106	N/A AV
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	106	AV
J1815 00088221905	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	105	OA OA
Humalogjr_kwikpen_u100 ,halfpen Basaglar_kwikpen_u-100,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	104	N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	104	N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen Apidra_solostar_u-100,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	104	N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	104	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	104	N/A IPX
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	103	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	102	N/A N/A N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	101	ED
Levemir_flexpen,pen Humulin_n_nph_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	101	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00088221905	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	100	AV AV AV
S5553 S5551	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX	HC HC	100	AV AV
Humalog_kwikpen,pen Apidra_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	100	N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	100	N/A N/A
J1815 00169643810 00169633910	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	99	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	99	N/A N/A
Tresiba_flextouch_u-100,pen Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	99	N/A N/A
Tresiba_flextouch_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Tresiba Flextouch U-100, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	98	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	98	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	98	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	98	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	98	N/A N/A N/A
Novolog_flexpen_u-100,pen 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	97	N/A OA
Levemir_u-100,solution J1815 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	97	N/A AV N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	97	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	97	N/A AV N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	97	N/A N/A N/A
Novolog_u-100_aspart,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	96	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	96	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	96	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	96	N/A N/A N/A
Toujeo_solostar_u-300,pen Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	96	N/A N/A
J1817 00169633910	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	95	AV AV
Novolin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	95	N/A N/A
Humulin_r_u-500_conc,solution Apidra_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	95	N/A N/A
Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	94	N/A N/A
Humulin_n_pen,pen Apidra_solostar_u-100,pen	Humulin N Pen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	94	N/A N/A
Tresiba_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	94	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	93	N/A N/A N/A
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	92	IP IP
Levemir_flextouch_u-100,pen Humalogjr_kwipen_u100 ,halfpen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	92	N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_kwipen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	92	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	92	N/A N/A N/A
Levemir_u-100,solution 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	91	N/A OA
J1815 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	91	AV AV AV AV
J1815 Humulin_7030_u-100_kwipen ,pen	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	91	AV N/A
Soliqua_10033,pen Basaglar_kwipen_u-100,pen	Soliqua 100/33, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	91	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen 00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX PX	N/A ND	91	N/A AV
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND	91	AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	90	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	89	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	89	N/A N/A N/A
Soliqua_10033,pen Novolog_u-100_aspart,solution	Soliqua 100/33, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX	N/A N/A	89	N/A N/A
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	88	ED ED
Levemir_flextouch_u-100,pen Humalog_mix_50-50_u-100 ,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	88	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	88	N/A N/A N/A
Novolog_flexpen_u-100,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	88	N/A N/A
Humulin_7030_pen,pen Humalog_u-100,solution	Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	87	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	87	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	86	N/A N/A N/A
Levemir_flextouch_u-100,pen 00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	85	N/A OA
Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	85	N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	84	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	84	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	84	N/A N/A N/A N/A
J1815 00088250033	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	84	AV AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	84	OA
00169643910 00169633910	Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	83	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution Humalog_mix_75-25u-100,susp	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	83	N/A N/A
J1815 00088221905 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	83	AV AV AV
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	83	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	83	N/A N/A N/A
S5553 S5551	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX	HC HC	82	ED ED
J1815 00088502101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	82	AV AV AV
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	82	AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	82	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	81	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	80	N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	80	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	80	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	80	N/A N/A N/A
00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	79	AV AV
Levemir_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	79	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	79	AV N/A
Novolin_7030_u-100 ,suspension 00169183702	Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	79	N/A AV
J1815 00002879901	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	79	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_50-50_u-100 ,susp Humalog_kwikpen,pen	Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	78	N/A N/A
Humulin_n_pen,pen Humalog_mix_50-50_kwikpen ,pen	Humulin N Pen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	78	N/A N/A
00088222033 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	78	ED ED
J1815 J1815	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	78	IPX IP
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	77	AV
Levemir_flexpen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	77	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	77	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	77	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	77	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	76	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	76	N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	75	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	75	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	75	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	75	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_70-30flexpen_u-100 ,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	75	N/A N/A
00169368712 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	74	IP IP
J1815 00169368712 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	74	IP IP IP
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	74	N/A ED N/A
Humalog_u-100,solution Apidra_solostar_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	74	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	74	IPX N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	74	N/A N/A N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	74	N/A IPX
Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	73	N/A N/A N/A
Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	73	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,cartridge Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	73	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	73	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	73	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002831517 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	73	AV AV AV
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	73	N/A IPX
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	72	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100 ,suspension	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	72	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	72	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	72	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	72	N/A N/A N/A
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	72	IP
Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	71	N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	71	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	71	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	71	N/A N/A N/A
Tresiba_flextouch_u-100,pen Apidra_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	71	N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	70	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	70	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	70	N/A N/A N/A
Soliqua_10033,pen Lantus_solostar_u-100,pen	Soliqua 100/33, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	70	N/A N/A
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	69	AV
Humulin_7030_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	69	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	69	N/A N/A N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	69	OA
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	69	N/A N/A N/A
Humulin_r_u-500_conc,solution Basaglar_kwikpen_u-100,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	69	N/A N/A
J1817 00088250033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	69	OA OA
Tresiba_flextouch_u-200,pen Humalog_mix_75-25u-100,susp	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	68	N/A N/A
J1815 Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX RX	HC N/A	68	ED N/A
Humalog_u-100,solution Afrezza,cartridge_with_inhaler	Humalog U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	68	N/A N/A
00002821517 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	68	AV AV
Basaglar_kwikpen_u-100,pen Admelog_u-100_lispro,solution	Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	68	N/A N/A
Soliqua_10033,pen Levemir_flextouch_u-100,pen	Soliqua 100/33, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	68	N/A N/A
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND	68	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	67	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	67	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	67	N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	67	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	67	N/A N/A N/A
00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	66	IP IP
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	66	ED N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	66	N/A IPX
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	65	OA
S5553 J1815	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	65	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	65	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	65	N/A N/A N/A
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	64	ED ED
Humulin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	64	N/A N/A
Tresiba_flextouch_u-200,pen Humalog_u-100,cartridge	Tresiba Flextouch U-200, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	64	N/A N/A
Humulin_7030_u-100 ,suspension 00002871501 00002871501	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX	N/A ND ND	64	N/A OA OA
Novolog_u-100_aspart,solution Humulin_n_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX	N/A N/A	64	N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	64	N/A N/A AV
Lantus_u-100,solution Afrezza,cartridge_with_inhaler	Lantus U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	64	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	63	AV
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	63	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	63	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	63	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	63	N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A		N/A
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND	63	AV
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	62	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	62	N/A
Novolog_70-30flexpen_u-100 ,pen	Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		62
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	62	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	62	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	61	AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	61	N/A N/A N/A
Humalog_kwikpen,pen 00002879959	Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX	N/A ND	61	N/A OA
Novolin_7030_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	61	N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	61	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	61	N/A N/A N/A
Humulin_r_reg_u-100,solution 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	61	N/A OA
Humulin_r_u-500_conc,solution Apidra_solostar_u-100,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	61	N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	61	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	61	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flexpen,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	60	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	60	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	60	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	60	N/A N/A
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	60	AV
Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	59	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_50-50_u-100 ,susp	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	59	N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	59	N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_n_nph_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	59	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	59	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	59	N/A N/A N/A
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	59	OA OA
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	59	N/A N/A N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	58	ED
J1815 00169750111 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	58	IP IP IP
Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Novolin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	58	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	58	N/A N/A N/A
Xultophy_10036,pen Tresiba_flextouch_u-200,pen	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-200, Insulin Pen	RX RX	N/A N/A	58	N/A N/A
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	57	OA OA
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	57	N/A N/A N/A
00002821517 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	57	IP IP
Humulin_r_u-500_conc,solution Humulin_7030_u-100 ,suspension	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	57	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Humulin_n_nph_kwipen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	57	N/A N/A
Novolin_7030_u-100 ,suspension 00169183711	Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	57	N/A OA
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	57	ED
J1815 00169633910 00088222033	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	56	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	56	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwipen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	56	N/A N/A N/A
Toujeo_solostar_u-300,pen 00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX PX	N/A ND	56	N/A OA
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	55	OA
Humalog_mix_50-50_kwipen ,pen Basaglar_kwipen_u-100,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	55	N/A N/A
Soliqua_10033,pen Humalog_mix_75-25_kwipen ,pen	Soliqua 100/33, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	55	N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	55	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	55	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	55	N/A N/A N/A
J1815 00169643810	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	HC ND	54	ED ED
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	54	N/A N/A N/A
Levemir_flexpen,pen Humalog_mix_50-50_u-100 ,susp	Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	54	N/A N/A
Levemir_u-100,solution J1815 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	54	N/A ED N/A
00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	54	IP IP
Humulin_7030_u-100 ,suspension 00002871501 00002871501	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX	N/A ND ND	54	N/A AV AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	54	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	54	N/A N/A N/A
Lantus_solostar_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	54	N/A N/A N/A
Lantus_solostar_u-100,pen J1817	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	54	N/A AV
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	54	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	54	N/A N/A N/A
J1815 J1815	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	54	AV OA
Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	53	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	53	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	53	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	53	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	53	N/A
Humulin_n_nph_u-100	Injection	RX	N/A		N/A
,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	53	N/A
Levemir_u-100,solution	Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	53	N/A
,solut	Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Lantus U-100 Insulin, Solution, Subcutaneous				
Lantus_u-100,solution					
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	53	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	53	N/A
,solut	Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous				
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	53	N/A
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolin_7030_u-100					
,suspension					
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	53	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	53	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	52	N/A AV
Toujeo_solostar_u-300,pen Humalogjr_kwipen_u100 ,halfpen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	52	N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	52	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Lantus_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	52	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	52	N/A N/A N/A
J1815 00169330312	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge	PX PX	HC ND	51	AV AV
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	51	N/A N/A N/A
J1815 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	51	ED ED ED
Novolog_u-100_aspart,solution Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	51	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	50	N/A N/A N/A
J1815 00088221905	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	50	ED ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	49	N/A N/A N/A N/A
Humalog_mix_50-50_kwikpen ,pen Apidra_solostar_u-100,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	49	N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	49	N/A AV N/A
Novolog_u-100_aspart,solution Humulin_7030_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	49	N/A N/A
Levemir_flextouch_u-100,pen Admelog_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	49	N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	49	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	49	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	49	AV AV
Tresiba_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	48	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	48	N/A N/A N/A
J1817 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	48	AV AV
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	48	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	48	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	48	N/A N/A ED
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	48	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	48	N/A N/A N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	47	IP
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	47	N/A N/A N/A
J1815 Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	47	IPX N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	47	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	47	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	47	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	47	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	47	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	47	N/A N/A ED
J1815 00002821591	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	47	ED ED
Novolog_70-30flexpen_u-100 ,pen Apidra_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	47	N/A N/A
Toujeo_max_u-300_solostar ,pen Novolog_u-100_aspart,solution J1815	Toujeo Max U-300 Solostar, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	47	N/A N/A IP
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	46	IP IP IP
Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	46	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	46	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	46	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	46	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	46	N/A N/A
Humulin_r_u-500_conc,solution Humalog_mix_50-50_kwikpen ,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	46	N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	46	N/A IPX N/A
Tresiba_flextouch_u-200,pen Humulin_7030_u-100_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	46	N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	46	N/A N/A
Novolin_7030_u-100 ,suspension 00169183711	Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	46	N/A AV
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	46	N/A N/A N/A
Soliqua_10033,pen Apidra_solostar_u-100,pen	Soliqua 100/33, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	46	N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	45	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	45	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_n_nph_kwipen,pen	Tresiba Flextouch U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	45	N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	45	N/A N/A AV
00169750111 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	44	AV AV
Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp Humalog_kwipen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	44	N/A N/A N/A
Humulin_n_nph_kwipen,pen Humalog_u-100,solution Humalog_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	44	N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	44	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Basaglar_kwipen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	44	N/A N/A N/A
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size	PX	HC	44	AV
Humulin_r_u-500_conc,solution Humulin_n_nph_kwipen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	44	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	44	N/A ED N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	44	N/A N/A N/A
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	44	IPX
J1815 J1815	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	44	IS ED
Toujeo_solostar_u-300,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	43	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	43	N/A N/A N/A
J1815 Humulinr_u500_conc_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	43	ED N/A
Levemir_u-100,solution Humulin_7030_pen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	43	N/A N/A
00088222033 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	43	AV AV AV
J1815 Humulin_7030_u-100_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	43	ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	43	N/A N/A N/A
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	43	IPX IPX
J1815 00002831517 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	43	AV AV AV
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	43	AV
J1815 00169368712 00002821517	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	42	AV AV AV
Toujeo_solostar_u-300,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	42	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	42	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	42	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	42	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen J1815 Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	42	N/A AV N/A
Novolog_flexpen_u-100,pen Humalog_mix_50-50_u-100 ,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	42	N/A N/A
Novolin_r_reg_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	42	N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	42	N/A N/A N/A
Lantus_u-100,solution Admelog_u-100_lispro,solution	Lantus U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	42	N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	42	N/A N/A IPX
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	42	N/A AV
J1815 00002871501 00002871501	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	HC ND ND	42	AV AV AV
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	41	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	41	N/A N/A
Humalog_u-100,cartridge Humalog_mix_75-25_kwikpen ,pen	Humalog U-100 Insulin, Cartridge Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	41	N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	41	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_u-100 ,suspension	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	41	N/A N/A
J1815 Humulinr_u500_conc_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	41	AV N/A
J1815 00002751101 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	41	AV AV AV
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	41	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	41	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	41	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	41	N/A N/A N/A
Xultophy_10036,pen Novolog_u-100_aspart,solution	Xultophy 100/3.6, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX	N/A N/A	41	N/A N/A
J1815 00169368512	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	40	AV AV
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	40	N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	40	OA N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	40	OA N/A
Novolin_7030_u-100 ,suspension Humulin_7030_pen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	40	N/A N/A
00088221905 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	40	IP IP
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Lantus_solostar_u-100,pen J1817 J1815	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	40	N/A ED ED
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	40	N/A N/A N/A
Basaglar_kwikpen_u-100,pen Afrezza,cartridge_with_inhaler	Basaglar Kwikpen U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	40	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	40	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen J1815 Basaglar_kwipen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	40	N/A AV N/A
00088221905 00002879901	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	40	IP IP
Novolog_70-30flexpen_u-100 ,pen 00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX PX	N/A ND	39	N/A AV
J1815 00169369619	Injection, Insulin, Per 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX	HC ND	39	AV AV
J1815 00169643910 00169633910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	39	AV AV AV
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwipen,pen Humalog_u-100,solution Humalog_kwipen	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	39	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_kwipen,pen Humalog_kwipen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	39	N/A N/A N/A
S5553 J1815	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	39	ED ED
Humulin_n_nph_u-100 ,suspension Humulin_7030_pen,pen	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	39	N/A N/A
Novolog_penfill_u100,cartridge Humulin_n_nph_kwipen,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	39	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	39	N/A N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Lantus_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	39	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100, pen Novolin_7030_u-100, suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	39	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100, suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	39	N/A N/A AV
Novolin_r_reg_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX PX	N/A HC	39	N/A IPX
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100, pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	39	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	38	N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	38	N/A N/A N/A
S5553 S5550	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	38	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	38	N/A N/A N/A
Novolog_penfill_u100,cartridge Humalog_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	38	N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	38	N/A N/A N/A
00088222033 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	38	IP IP IP
Humulin_n_nph_u-100 ,suspension 00002831501	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	38	N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	38	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	38	IPX N/A
Novolog_mix_70-30_u-100 ,solut Humulin_r_u-500_conc,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	38	N/A N/A
J1815 00002880559 00002879959	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	38	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen	PX	ND	38	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	38	OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	38	OA
Humulin_r_u-500_conc,solution Humalog_mix_75-25_kwikpen ,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	37	N/A N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	37	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	37	N/A AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	37	N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	37	N/A
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	37	N/A AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	37	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	37	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00169183311	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	36	AV AV AV
Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	36	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	36	N/A N/A N/A
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size	PX	HC	36	ED
J1815 Humulin_7030_pen,pen	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	PX RX	HC N/A	36	AV N/A
J1815 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	36	IP IP IP
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	36	N/A N/A N/A
Lantus_solostar_u-100,pen J1817	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	36	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	36	N/A N/A ED
Lantus_u-100,solution Fiasp_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Fiasp U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	36	N/A N/A AV
00088221905 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	36	AV AV AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	36	N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	35	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00088221905 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	35	N/A N/A OA OA
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	35	N/A N/A N/A
Humulin_7030_pen,pen Humalog_mix_75-25_kwikpen ,pen	Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	35	N/A N/A
Humalog_mix_75-25_kwikpen ,pen 00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX	N/A ND	35	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	35	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	35	N/A N/A
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	35	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	35	N/A N/A N/A
Novolog_u-100_aspart,solution Afrezza,cartridge_with_inhaler	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	35	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	35	N/A N/A AV
Tresiba_flextouch_u-100,pen 00169266015	Tresiba Flextouch U-100, Insulin Pen Tresiba Flextouch U-100, Insulin Pen	RX PX	N/A ND	35	N/A AV
00002879859	Humalog Mix 50-50 Kwikpen, Insulin Pen	PX	ND	35	AV
J1815 00088221905	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	35	IP IP
J1815 49999099410	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	34	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humalog_mix_50-50_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	34	N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_7030_u-100_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	34	N/A N/A
J1815 00002751017 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	34	AV AV AV
Toujeo_solostar_u-300,pen Admelog_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	34	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Humulin_r_u-500_conc,solution 00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX	N/A ND	34	N/A OA
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	34	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Basaglar_kwipen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	34	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen 00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX PX	N/A ND	33	N/A OA
00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	33	AV AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	33	ED
Lantus_u-100,solution J1815 Humalog_kwipen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwipen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	33	N/A AV N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	33	N/A N/A N/A
Humulin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	33	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	33	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Apidra_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	33	N/A N/A N/A
J1815 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	33	OA OA
Novolin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	33	N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	33	N/A N/A ED
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	32	IP
Lantus_u-100,solution Humalogjr_kwikpen_u100 ,halfpen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	32	N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	32	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	32	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	32	N/A N/A N/A
J1815 00088222033 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	32	IP IP IP
00002831517 00002751017	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	32	AV AV
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	32	N/A N/A AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	32	N/A IP
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Levemir_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	32	N/A N/A N/A
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	32	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	32	AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	32	N/A N/A N/A
J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	32	IS IS

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	31	N/A AV	
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A	
Novolog_penfill_u100,cartridge Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A		N/A N/A	
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	31	N/A N/A N/A	
Humalog_mix_75-25_kwikpen ,pen 00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX	N/A ND		31	N/A AV
Humulin_n_pen,pen Humalog_u-100,cartridge	Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A		31	N/A N/A
00088221905 00002821517 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	31	IP IP IP	
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A		31	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A		31	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	31	N/A N/A N/A	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002831517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	31	ED ED
S5550 00169183311	Insulin, Rapid Onset, 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	31	AV AV
Novolog_mix_70-30_u-100 ,solut 00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	30	N/A OA
J1815 00169643810	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	HC ND	30	OA OA
Lantus_solostar_u-100,pen Humulin_7030_pen,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_k	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	30	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Levemir_flexpen,pen Humulin_n_pen,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	30	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution 00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	30	N/A N/A OA OA
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
S5571 J1815	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size Injection, Insulin, Per 5 Units	PX PX	HC HC	30	ED ED
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Humulin_r_reg_u-100,solution 00002821517	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	30	N/A OA
Novolog_70-30flexpen_u-100 ,pen Humulin_r_u-500_conc,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	30	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	30	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Levemir_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	30	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	30	N/A ED N/A
J1815 00088221905 00002879901	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	30	IP IP IP
J1815 00002879959	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	30	IP IP
J1815 00169368712 00002821517 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	29	AV AV AV AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	29	N/A N/A N/A N/A N/A
J1815 49999099410 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	29	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	29	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	29	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulinr_u500_conc_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	29	N/A N/A
J1815 00169183411 00002751001	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	29	AV AV AV
Tresiba_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	29	N/A N/A
Humulin_r_u-500_conc,solution Humulin_7030_u-100_kwikpen ,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	29	N/A N/A
Tresiba_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	29	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	29	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	29	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	29	N/A N/A N/A
J1817 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	29	AV AV
J1815 00002871517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	29	ED ED
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	29	N/A N/A N/A
J1815 00002879959	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	29	OA OA
Apidra_u-100,solution 00088250033	Apidra U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	29	N/A OA
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	29	AV
00169633910 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	28	IP IP
Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	28	N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	28	OA OA
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	28	N/A N/A AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	28	N/A OA
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	28	N/A N/A N/A
Soliqua_10033,pen Novolog_70-30flexpen_u-100 ,pen	Soliqua 100/33, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	28	N/A N/A
Novolog_u-100_aspart,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	28	N/A AV
J1815 00002879959	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	28	ED ED
J1815 J1815	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	28	IS AV
J1815 00169633910 00169368712	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	27	AV AV AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	27	IP
Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX	N/A N/A	27	N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	27	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	27	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	27	N/A ED N/A
J1817 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	27	AV N/A
J1815 00002871517 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	27	AV AV AV
Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	27	N/A N/A
J1815 Humulin_n_nph_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX	HC N/A	27	ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	27	ED N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Lantus_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	27	N/A N/A N/A
Novolog_flexpen_u-100,pen Afrezza,cartridge_with_inhaler	Novolog Flexpen U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	27	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	27	N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	27	AV
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	27	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00169183402	Novolin N Nph U-100 Insulin, Suspension	PX	ND	27	AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	26	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	26	OA
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	26	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	26	AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	26	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	26	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	26	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
Humulin_r_reg_u-100,solution Apidra_solostar_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	26	N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	26	N/A N/A ED
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
J1815 00088222033 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	26	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100,aspart,solution Novolin_n_nph_u-100 ,suspension J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	26	N/A N/A AV
Novolin_n_nph_u-100 ,suspension 00169183402	Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	26	N/A OA
Soliqua_10033,pen Novolin_r_reg_u-100,solution	Soliqua 100/33, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	26	N/A N/A
Apidra_u-100,solution Afrezza,cartridge_with_inhaler J1815 00002871517	Apidra U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	26 26	N/A N/A IP IP
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	26	N/A N/A N/A
Tresiba_flextouch_u-200,pen Fiasp_u-100,solution J1815 00169633910 00002821517	Tresiba Flextouch U-200, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX PX	N/A N/A HC ND ND	26 25	N/A N/A AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pe	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	25	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solutio	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	25	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantu	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	25	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Lantus_u-100,solution Apidra_u-100,solution Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	25	N/A ED
Levemir_u-100,solution Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	25	N/A N/A AV
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	25	N/A N/A IPX
Levemir_u-100,solution Fiasp_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	25	N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	25	N/A N/A N/A
Toujeo_solostar_u-300,pen Toujeo_max_u-300_solostar ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen	RX RX	N/A N/A	25	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Fiasp_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	25	N/A N/A
J1815 00169643810	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	HC ND	24	IP IP
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	24	AV AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	24	N/A N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	24	N/A IPX N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	24	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_r_u-500_conc,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
J1815 00088221905 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	24	IP IP IP
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	24	N/A AV N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	24	N/A IPX
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	24	N/A N/A N/A
00002873059	Humulin N Pen, Insulin Pen	PX	ND	24	AV
J1815 Apidra_solostar_u-100,pen	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	24	ED N/A
00169368712 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	23	IP IP
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	23	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	23	AV AV
Tresiba_flextouch_u-200,pen Humalogjr_kwikpen_u100 ,halfpen	Tresiba Flextouch U-200, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	23	N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	23	N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_mix_50-50_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	PX RX	HC N/A	23	AV N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-10	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	23	N/A N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulinr_u500_conc_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	23	N/A N/A
J1815 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	23	IP IP IP IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	23	OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Apidra_solostar_u-100,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	23	N/A N/A
Novolog_penfill_u100,cartridge Humulin_n_pen,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin N Pen, Insulin Pen	RX RX	N/A N/A	23	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	23	N/A IP
00088222033 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	23	AV AV
Xultophy_10036,pen Levemir_flextouch_u-100,pen	Xultophy 100/3.6, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	23	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	23	OA
Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	23	N/A N/A ED
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	23	N/A N/A N/A
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND	23	AV
J1815 00169368712 00169183311	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	22	AV AV AV
Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,solution	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	22	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Humalog_mix_50-50_u-100 ,susp Apidra_u-100,solution	Humalog Mix 50-50 Insulin U-100, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	22	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Humulin_r_reg_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	22	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	22	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution 00088222033 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	22	N/A N/A OA OA
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	22	N/A N/A AV
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	22	N/A N/A AV
J1815 00002831517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	22	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	22	N/A N/A N/A
Novolog_flexpen_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	22	N/A ED
00169183311 00088222033	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	22	AV AV
00169368712 00169183311	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	21	AV AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	21	IPX
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	21	OA
Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
J1817 Humalog_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	21	AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 54569231900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	21	AV AV
Novolin_7030_u-100 ,suspension Humulin_r_u-500_conc,solution Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_u-100,solution Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_n_pen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX	N/A N/A	21	N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1817 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	21	N/A ED ED
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	21	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension 00169183402	Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	21	N/A AV
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	21	N/A N/A AV
Novolog_flexpen_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	21	N/A AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	21	OA
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	21	IPX IPX
J1817 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	21	AV AV
00169330312	Novolog Penfill U-100 Insulin, Cartridge	PX	ND	20	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	20	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	20	OA
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	20	N/A
Humalog_mix_75-25_kwikpen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	20	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	20	N/A
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	20	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikp	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	20	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_70-30flexpen_u-100	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	20	N/A
,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen					

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
S5553 S5552	Insulin, Long Acting; 5 Units Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX PX	HC HC	20	OA OA
Humalog_mix_50-50_kwikpen ,pen 00002879859	Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX PX	N/A ND	20	N/A AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Levemir_flexpen,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
J1817 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	20	AV AV
Humulin_7030_pen,pen Apidra_solostar_u-100,pen	Humulin 70/30 Insulin Pen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	20	N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	20	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	20	OA N/A
J1815 Humulin_n_pen,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX RX	HC N/A	20	AV N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Soliqua_10033,pen Humulin_r_reg_u-100,solution	Soliqua 100/33, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	20	N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Xultophy_10036,pen Lantus_solostar_u-100,pen	Xultophy 100/3.6, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	20	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_u-100,solution 00169183302 00088222033	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	20	N/A N/A OA OA
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	20	N/A N/A N/A
J1815 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	20	AV AV AV
00088250205 00088221905	Apidra Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	20	AV AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	20	IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553	Insulin, Long Acting; 5 Units	PX	HC	19	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	19	IP
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	19	N/A
Humalog_u-100,solution	Injection	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	19	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,p	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	19	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	19	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	19	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
54569231800	Humulin N Nph U-100 Insulin, Suspension	PX	ND	19	AV
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	19	N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A
Humalog_mix_50-50_u-100					
,susp					

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution,	RX	N/A	19	N/A
Humalog_mix_50-50_u-100 ,susp	Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		
Humalog_mix_50-50_u-100 ,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A	19	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	19	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	19	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	19	N/A
Humulin_n_nph_u-100 ,suspension	Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX	N/A		
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	19	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	19	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	19	N/A
Novolin_7030_u-100 ,suspension	Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
J1815	Injection, Insulin, Per 5 Units	PX	HC	19	IP
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	19	OA N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	19	N/A AV AV
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	19	N/A OA
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
00002771559	Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX	ND	19	AV
Levemir_flexpen,pen J1817	Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	19	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	19	N/A N/A IPX
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Levemir_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	19	N/A N/A N/A
Xultophy_10036,pen Novolog_70-30flexpen_u-100 ,pen	Xultophy 100/3.6, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	19	N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	19	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	19	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	19	N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	19	N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND	19	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	18	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	18	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	18	OA
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		OA
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	18	IS
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	18	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	18	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	18	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	18	N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,cartridge	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	18	N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	18	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	18	IPX IPX
00002831517 00002751017	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	18	IP IP
Humulin_n_pen,pen Humulin_7030_u-100_kwikpen ,pen	Humulin N Pen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	18	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
00002751659	Humalog U-100 Insulin, Cartridge	PX	ND	18	AV
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	18	N/A AV AV
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
00088221905 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	18	IP IP
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Levemir_flextouch_u-100,pen J1817 J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	18	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
Soliqua_10033,pen Levemir_u-100,solution	Soliqua 100/33, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	18	N/A N/A
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	18	IP
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	18	N/A N/A N/A
00002871501 00002871501	Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX	ND ND	18	ED ED
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	18	N/A OA
00002877059	Humulin 70/30 Insulin Pen, Insulin Pen	PX	ND	18	AV
00088222033 00002879959	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	18	AV AV
00088250033 00088222033	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	18	AV AV
00169750111 00169368712 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	17	AV AV AV
J1815 00169643910 00169633910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	17	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	17	N/A N/A N/A N/A
Lantus_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Toujeo_solostar_u-300,pen J1815 Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	17	N/A ED N/A
J1817 Humalog_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	17	ED N/A
S5553 S5550	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	17	AV AV
Humalog_mix_75-25u-100,susp Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	17	N/A N/A
Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_u-100 ,susp	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	17	N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	17	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen 00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX PX	N/A ND	17	N/A OA
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	17	N/A N/A
J1815 00002751659	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	PX PX	HC ND	17	AV AV
J1815 Humulin_r_u-500_conc,solution 00002850101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	17	OA N/A OA
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	17	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	17	N/A IS
Lantus_solostar_u-100,pen Admelog_u-100_lispro,solution	Lantus Solostar U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	17	N/A N/A
Levemir_flextouch_u-100,pen J1815 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	17	N/A AV AV
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	17	N/A N/A ED
J1815 00002821591	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	17	AV AV
Novolog_flexpen_u-100,pen Levemir_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	17	N/A N/A ED
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	17	N/A OA
Novolog_penfill_u100,cartridge Novolin_7030_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	17	N/A N/A
Novolin_7030_u-100 ,suspension 00169183702	Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	17	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	17	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	17	N/A IPX
Novolog_u-100_aspart,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	17	N/A ED
Tresiba_flextouch_u-200,pen Soliqua_10033,pen	Tresiba Flextouch U-200, Insulin Pen Soliqua 100/33, Insulin Pen	RX RX	N/A N/A	17	N/A N/A
Apidra_solostar_u-100,pen 00088250205	Apidra Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	17	N/A OA
S5553 00169368712	Insulin, Long Acting; 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	16	AV AV
J1815 00169633910 00088222033	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	16	IP IP IP
Lantus_solostar_u-100,pen J1815 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	16	N/A AV AV
J1815 00169750111 00088221905	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	16	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	16	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	16	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	16	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	16	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	16	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	16	N/A
Humalog_mix_50-50_kwikpen,pen		Humalog Mix 50-50 Kwikpen, Insulin Pen	RX		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	16	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	16	N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	16	N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	16	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	16	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	16	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	16	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_7030_u-100,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	16	IPX N/A
Lantus_solostar_u-100,pen J1815 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	16	N/A AV AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
J1815 00002831517 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	16	IP IP IP
J1815 00002871517 00002821517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	16	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183311 00002821517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	16	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Levemir_flextouch_u-100,pen J1817	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	16	N/A AV
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	16	ED
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	16	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_mix_70-30_u-100 ,solut	Novolog Penfill U-100 Insulin, Cartridge Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	16	N/A N/A
Tresiba_flextouch_u-200,pen 00169255013	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-200, Insulin Pen	RX PX	N/A ND	16	N/A AV
Fiasp_u-100,solution Basaglar_kwikpen_u-100,pen	Fiasp U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	16	N/A N/A
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	15	OA
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	15	IPX
00169633910 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	15	IP IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	15	IS

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	15	ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	15	AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	15	N/A
Humalog_mix_50-50_kwikpen,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	15	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	15	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	15	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	15	N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	15	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_50-50_u-100,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_u-100,cartridge	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	15	N/A N/A
Lantus_u-100,solution Humalog_u-100,solution 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	15	N/A N/A AV
Toujeo_solostar_u-300,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	15	ED N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Soliqua_10033,pen Humulinr_u500_conc_kwikpen ,pen	Soliqua 100/33, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	15	N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humulin_7030_pen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Tresiba_flextouch_u-200,pen Admelog_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	15	N/A N/A
Lantus_solostar_u-100,pen 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	15	N/A AV
J1815 00002831517 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	15	AV AV AV AV
J1815 00088221905 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	15	AV AV AV AV
00088221905 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	15	AV AV
J1815 Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	15	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	15	N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	15	N/A
Novolin_n_nph_u-100	Injection	RX	N/A		N/A
,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humuli	Injection				
	Humulin N Nph U-100 Insulin, Suspension				
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	15	N/A
Lantus_solostar_u-100,pen	Injection	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
	Humulin R Regular U-100 Insulin, Solution,				
	Injection				
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	15	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Apidra_solostar_u-100,pen	Injection	RX	N/A		N/A
	Apidra Solostar U-100 Insulin, Insulin Pen				
J1815	Injection, Insulin, Per 5 Units	PX	HC	15	OA
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
	Injection				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	15	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Lantus Solostar U-100 Insulin, Insulin Pen				
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	15	N/A
Lantus_solostar_u-100,pen	Injection	RX	N/A		N/A
Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
	Apidra Solostar U-100 Insulin, Insulin Pen				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	15	N/A N/A ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Lantus_u-100,solution J1815 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	15	N/A AV AV
Lantus_u-100,solution J1815 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	15	N/A AV AV
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Levemir_flexpen,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Levemir_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	15	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	15	N/A N/A ED
00002879801	Humalog Mix 50-50 Kwikpen, Insulin Pen	PX	ND	15	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	15	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
Xultophy_10036,pen Fiasp_flextouch_u-100,pen	Xultophy 100/3.6, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	15	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	15	IPX N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	15	OA
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
J1815 00169183302	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	15	AV AV
J1815 Apidra_u-100,solution	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	15	ED N/A
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND	15	ED
J1815 00169750111 00169368512	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	14	AV AV AV
J1815 00169368712 00002821517 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	14	IP IP IP IP
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	14	OA OA
J1815 00169633910 00088221905	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	14	IP IP IP
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	14	N/A N/A AV
J1815 00169643910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen	PX PX	HC ND	14	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_kwikpen,pen Humalogjr_kwikpen_u100 ,halfpen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	14	N/A N/A
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	14	ED
Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Soliqua_10033,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Humulin_7030_pen,pen Humalog_mix_50-50_kwikpen ,pen	Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	14	N/A N/A
Tresiba_flextouch_u-200,pen Humalog_mix_50-50_u-100 ,susp	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	14	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	14	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	14	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		
Humulinr_u500_conc_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	14	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	14	N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	14	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	14	ED
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		
J1815	Injection, Insulin, Per 5 Units	PX	HC	14	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100 ,suspension Humalog_u-100,solution 00002871501 00002871501 00002751001	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX PX	N/A N/A ND ND ND	14	N/A N/A OA OA OA
Tresiba_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Lantus_u-100,solution J1817 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	14	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	14	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	14	N/A AV AV
00002831501 00002751001	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	14	AV AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	14	IPX
J1815 00002871517 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	14	IP IP IP
Lantus_u-100,solution J1815 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	14	N/A AV AV
Lantus_u-100,solution J1815 Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	14	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	14	IP
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Levemir_u-100,solution Humulin_n_pen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX	N/A N/A	14	N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5550 Lantus_solostar_u-100,pen	Insulin, Rapid Onset, 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	14	AV N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	14	N/A IS
J1815 00088222033 00002821501	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	14	AV AV AV
J1817 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	14	ED ED
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	14	N/A IP
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Basaglar_kwipen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	14	N/A N/A AV
Novolog_flexpen_u-100,pen Fiasp_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	14	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	14	N/A N/A N/A
Novolog_penfill_u100,cartridge J1815	Novolog Penfill U-100 Insulin, Cartridge Injection, Insulin, Per 5 Units	RX PX	N/A HC	14	N/A AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	14	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	14	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC ND	14	AV AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen				
J1815	Injection, Insulin, Per 5 Units	PX	HC	14	IP
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	14	AV
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Fiasp_u-100,solution	Fiasp U-100 Insulin, Solution, Subcutaneous	RX	N/A	14	N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	13	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	13	IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	13	IP
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00169633910	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	13	AV AV AV
J1815 00169633910 00169183311	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	13	AV AV AV
J1815 00169750111 00169643810	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	13	AV AV AV
J1815 00169750111 00169183311	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	13	IP IP IP
00169750111 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	13	IP IP
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	13	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
J1815 Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	13	IP N/A
J1815 Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	13	ED N/A N/A
J1815 Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	13	OA N/A
Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	13	N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	13	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	13	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
J1815 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	13	ED ED ED
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	13	N/A N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	13	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	13	N/A ED N/A
Levemir_u-100,solution Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	13	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	13	N/A N/A AV
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	13	N/A N/A ED
Lantus_solostar_u-100,pen J1815 J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	13	N/A ED AV
Lantus_solostar_u-100,pen J1815 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	13	N/A OA OA
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	13	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	13	N/A N/A AV
00002871517 00002821517	Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	13	IP IP
00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	13	IP IP
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	13	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	13	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	13	N/A
		PX	HC		IP
Novolog_penfill_u100,cartridge J1815	Novolog Penfill U-100 Insulin, Cartridge Injection, Insulin, Per 5 Units	RX	N/A	13	N/A
		PX	HC		ED
Novolog_u-100_aspart,solution Fiasp_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	13	N/A
	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Soliqua_10033,pen J1815	Soliqua 100/33, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	13	N/A
		PX	HC		AV
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	13	N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	13	IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	12	ED
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	12	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	12	OA
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	12	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
J1815 Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	12	AV N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_k	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	12	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,p	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	12	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	12	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815 Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	12	N/A AV N/A
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
S5553 S5550	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	12	IPX IPX
Novolin_7030_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	12	N/A N/A
J1815 54569383300	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	12	AV AV
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Humalog_mix_75-25u-100,susp 00002751101	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX PX	N/A ND	12	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	12	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen, pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100, suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	12	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	12	N/A
Humalog_u-100,cartridge	Injection Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	12	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution,	RX	N/A	12	N/A
Humulin_n_nph_u-100, suspension	Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	12	N/A
Humulin_n_nph_u-100, suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	12	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	12	N/A
Novolin_7030_u-100, suspension	Injection Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
00088222033 00002821501 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	12	IP IP IP
J1815 00088222033 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	12	ED ED ED
00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	12	ED ED
00088221905 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	12	AV AV
Humulin_n_nph_kwikpen,pen Humulin_7030_pen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	12	N/A N/A
00002871517 00002751017	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	12	IP IP
Levemir_flextouch_u-100,pen J1815 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	12	N/A AV AV
00088502101 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	12	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX	N/A N/A	12	N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	12	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_r_reg_u-100,solution Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Lantus_solostar_u-100,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	12	N/A AV
Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen 00088250205 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	12	N/A N/A OA OA
Lantus_solostar_u-100,pen Fiasp_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	12	N/A N/A
Toujeo_solostar_u-300,pen Admelog_u-100_lispro,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	12	N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	12	N/A N/A N/A N/A
Lantus_u-100,solution Fiasp_flextouch_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	12	N/A N/A
00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	12	ED ED
00002831517 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	12	AV AV
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Levemir_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Levemir_u-100,solution J1817	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	12	N/A AV
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	12	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	12	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	12	N/A N/A ED
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	12	N/A IPX
Novolog_mix_70-30_u-100 ,solut Apidra_solostar_u-100,pen J1815 00169183711	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	12	N/A N/A ED ED
S5550 J1815	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	12	AV AV
00169183311 00088222033	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	12	IP IP
00169183702	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	12	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	11	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	11	AV
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	11	AV
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	11	AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	11	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	11	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	11	ED
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	11	AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	11	AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 00169750111	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	11	N/A AV AV
J1815 00169750111 00002821501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	11	AV AV AV
J1817 00169750111 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	11	AV AV AV
S5551 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	11	AV AV
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	11	N/A AV N/A AV
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwik	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	11	N/A N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	11	N/A AV N/A
Soliqua_10033,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Soliqua 100/33, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
S5553 J1815 Humalog_mix_50-50_kwikpen ,pen	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	PX PX RX	HC HC N/A	11 11	IP ED N/A
Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
J1817 Humalog_u-100,solution 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	11	OA N/A OA
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	11	N/A AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	11	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solut	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	11	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	11	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	11	N/A AV N/A
Xultophy_10036,pen Humalog_u-100,solution	Xultophy 100/3.6, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	11	N/A N/A
J1815 00002751017 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	11	IP IP IP
Lantus_u-100,solution Admelog_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	11	N/A N/A
Lantus_u-100,solution 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	11	N/A AV
J1815 00088502101 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	11	AV AV AV AV
Humulin_n_pen,pen Humulin_7030_u-100 ,suspension	Humulin N Pen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	11	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
J1815 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	11	ED ED
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
J1815 00002751201	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	PX PX	HC ND	11	AV AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	11	IP N/A
Levemir_flextouch_u-100,pen Humulin_n_pen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX	N/A N/A	11	N/A N/A
Humulin_n_pen,pen Apidra_u-100,solution	Humulin N Pen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	11	N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	11	N/A ED N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	11	N/A N/A ED
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Lantus	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	11	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Apidra_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Soliqua_10033,pen Lantus_u-100,solution	Soliqua 100/33, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	11	N/A N/A
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	11	IPX IPX
Levemir_flextouch_u-100,pen J1815 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	11	N/A AV AV
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	11	N/A N/A AV
Levemir_flextouch_u-100,pen Fiasp_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	11	N/A N/A
J1815 00002821591	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	11	IPX IPX
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension 00169183702 00169183302	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	11	N/A N/A OA OA
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	11	N/A N/A
Novolin_r_reg_u-100,solution 00169183302	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	11	N/A OA
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	11	N/A N/A N/A
Novolog_flexpen_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	11	N/A ED ED
Novolog_u-100_aspart,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	11	N/A OA
Toujeo_solostar_u-300,pen 00024586901	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX PX	N/A ND	11	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	11	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	11	AV
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	11	IPX
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	11	ED
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	11	IP
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalogjr_kwikpen_u100_halfpen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX	N/A		N/A
Novolin_n_nph_u-100_suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00002751001	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Humalog_kwikpen,pen 00002751017	Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 Humalog_kwikpen,pen 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pe	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_pen,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_50-50_u-100 ,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
54868510800	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25u-100,susp Humalo	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25u-100,susp	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Toujeo_solostar_u-300,pen Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_u-100,solution Humalog_u-100,solution Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	ED N/A
00002751017 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Lantus_solostar_u-100,pen 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00002821517 00002751001	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00002821501 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
Novolog_flexpen_u-100,pen J1815 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00169183311 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	*****	IP IP
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	*****	ED
Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Toujeo_max_u-300_solostar ,pen Lantus_solostar_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Lantus_solostar_u-100,pen J1815 Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Lantus_u-100,solution J1815 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Lantus_u	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Lantus_u-100,solution J1815 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA
J1815 00002821517 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	OA
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_n_nph_u-100 ,suspension 00169183411	Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Novolin_r_reg_u-100,solution Apidra_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Novolin_r_reg_u-100,solution	Xultophy 100/3.6, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	*****	N/A N/A
Novolin_r_reg_u-100,solution 00169183302	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00002871501 00002871501	Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX	ND ND	*****	OA OA
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
00002873059	Humulin N Pen, Insulin Pen	PX	ND	*****	OA
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A		N/A
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		ED
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		ED
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00169368712	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169633910 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00169750111 00169368712 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_u-100,solution Humulin_r_reg_u-100,solution 00169368712 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169633910 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Levemir_flextouch_u-100,pen J1815 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00169750111 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00169183711	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution J1817 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA
Humulin_n_pen,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,cartridge Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,cartridge	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_u-100,solution 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Lantus_u-100,solution Humulin_7030_pen,pen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humal	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Humalog_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_u-100,so	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
S5571 J1815	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV AV
Novolin_7030_u-100 ,suspension Humulinr_u500_conc_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_pen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_r_u-500_conc,solution Humulin_7030_pen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00002831517 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00088502101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
Lantus_solostar_u-100,pen J1815 00088222033 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 00088222033 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	IPX N/A
Humulin_n_nph_kwikpen,pen 00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Humulin_n_nph_u-100 ,suspension 00002831501	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A OA
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution 00088221905 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humulin_r_reg_u-100,solution	Toujeo Max U-300 Solostar, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1817 J1815	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Lantus_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Lantus_u-100,solution J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Lantus_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1817 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
00002821517 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
00002831517 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00088221905 00002879901 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1817	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Levemir_u-100,solution Fiasp_flextouch_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IPX
Toujeo_max_u-300_solostar ,pen Novolin_r_reg_u-100,solution	Toujeo Max U-300 Solostar, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
J1815 00002879701	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX	HC ND	*****	AV AV
Toujeo_max_u-300_solostar ,pen Fiasp_flextouch_u-100,pen J1815 00002879759	Toujeo Max U-300 Solostar, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
J1815 00002879759	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX	HC ND	*****	OA OA
Tresiba_flextouch_u-200,pen 00169255013	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-200, Insulin Pen	RX PX	N/A ND	*****	N/A OA
J1815 00088222033 00002879959	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00088250033 00088222033	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00169266015	Tresiba Flextouch U-100, Insulin Pen	PX	ND	*****	AV
J1815 00169643810 00169330312	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut 00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IPX
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IS
J1815 00169368712 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	IP
00169750111 00169633910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IS
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169633910 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
J1815 00169643810 00002751017	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
S5551 S5550	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	ED ED
J1817 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
S5551 00169750111	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humalog_u-100,solution Humalog_kwikpen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_n_pen,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humalog_kwikpen,pen Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002821501	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00169183311	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_mix_50-50_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_50-50_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humalog_mix_50-50_kwikpen,pen	Soliqua 100/33, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100,suspension Lantus_u-100,solution Humalog_mix_50-50_u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 54868361900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV
Levemir_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,cartridge Humalog_mix_75-25u-100,susp	Humalog U-100 Insulin, Cartridge Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25u-100,susp	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_mix_75-25u-100,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
Humalog_u-100,solution Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,cartridge Apidra_solostar_u-100,pen	Humalog U-100 Insulin, Cartridge Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 Humalog_u-100,cartridge	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	PX RX	HC N/A	*****	AV N/A
J1815 Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Lantus_u-100,solution Humalog_u-100,solution 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humalog_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solu	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Fiasp_u-100,solution	Fiasp U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size	PX	HC	*****	IP
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Admelog_solostar_u-100,pen	Admelog Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IPX
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IPX
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002821501	Injection	PX	ND		IP
00002751017	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
	Injection				
	Humalog U-100 Insulin, Solution, Subcutaneous				
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND	*****	IP
00088222033	Injection	PX	ND		IP
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
	Humalog U-100 Insulin, Solution, Subcutaneous				
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821517 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
J1815 00002850101 00002751017	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 00169183311 00088222033 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_7030_u-100_kwikpen ,pen	Soliqua 100/33, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_so	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED
Lantus_solostar_u-100,pen J1815 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Levemir_u-100,solution J1817	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1817	Novolin 70/30 U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolin_n_nph_u-100 ,suspension	Soliqua 100/33, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension 00169183411	Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	IP
00002871501	Humulin, Suspension	PX	ND		IP
Novolog_70-30flexpen_u-100, pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100, solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00002873001	Humulin N Pen, Insulin Pen	PX	ND	*****	AV
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100, solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Injection, Insulin, Per 5 Units	PX	HC		ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
00002873059	Humulin N Pen, Insulin Pen	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		ED
00002880359	Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX	ND	*****	AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	OA
J1815	Insulin For Administration Through Dme (I.E., Injection, Insulin, Per 5 Units	PX	HC		OA
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	*****	IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IP
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		IP
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IPX
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
00169633910	Injection, Insulin, Per 5 Units	PX	ND		AV
00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	OA
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		OA
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_u-100,solution 00169750111	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
00169750111 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
00169750111 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
J1815 00169750111 00002850101	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169750111 00002871517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution J1815 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1817 J1815 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution 00169750111 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpe	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,p	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humalog_kwikpen,pen 00088222033 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_pen,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1817 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX	HC	*****	ED
J1815		PX	HC		ED
Humalog_kwikpen,pen		RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	*****	N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	IP
49999099410		PX	ND		IP
00002751017		PX	ND		IP
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IP
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IS
J1815	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX	HC	*****	ED
54569231800		PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen,pen		RX	N/A		N/A
Humalog_mix_50-50_kwikpen,pen		RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_50-50_kwikpen,pen		RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	AV
54569560500		PX	ND		AV
S5560	Insulin Delivery Device, Reusable Pen; 1.5 MI Size	PX	HC	*****	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Humalog_mix_75-25_kwikpen ,pen	Xultophy 100/3.6, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_u-100	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_7030_u-100 ,suspension	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
00002751017 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
J1815 00002821501 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen Humulin_n_pen,pen Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_pen,pen	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	PX RX	HC N/A	*****	ED N/A
J1815 00088221905 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1817 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
00088222033	Injection, Insulin, Per 5 Units	PX	ND		AV
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND		AV
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge Humulin_7030_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	OA OA
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_7030_u-100_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_n_nph_u-100 ,suspension	Soliqua 100/33, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	AV N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution 00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	*****	IP N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution 00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 00002850101	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_u-100,solution Admelog_u-100_lispro,solution	Levemir U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution 00088221905	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821517 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00002871501 00002871501 00002821501	Humulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00088221905 00002821517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
S5550 00002821517	Insulin, Rapid Onset, 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED
J1815 00088502101 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Levemir_flextouch_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Levemir_flextouch_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
J1817 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	OA OA
J1815 00002821591	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
Novolog_flexpen_u-100,pen Levemir_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	IP IP
J1815 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	ED ED
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Soliqua_10033,pen Novolin_7030_u-100 ,suspension	Soliqua 100/33, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolin_7030_u-100 ,suspension J1817	Novolin 70/30 U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND	*****	IP
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Apidra_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Apidra Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Soliqua_10033,pen Afrezza,cartridge_with_inhaler	Soliqua 100/33, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IPX
Novolog_penfill_u100,cartridge Apidra_solostar_u-100,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Apidra Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	AV
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
Novolog_penfill_u100,cartridge Lantus_u-100,solution 00169330312 00088222033	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
00169750111 00169368712 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169368712 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169368712 00002751001	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169368712 00169183311	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169750111 00169368712 00169183311	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169368712 00002821501	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169750111 00169369619	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1817 00169633910	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX	HC	*****	AV
J1815		PX	HC		AV
00169643810		PX	ND		AV
00169633910		PX	ND		AV
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169633910		PX	ND		AV
J1815	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX	HC	*****	AV
00169633910		PX	ND		AV
00002831517		PX	ND		AV
J1815	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX	HC	*****	OA
00169633910		PX	ND		OA
00088221905		PX	ND		OA
J1815	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC	*****	AV
00169643810		PX	ND		AV
00002821517		PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
00169643910		PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen		RX	N/A		N/A
00169643910		PX	ND		OA
00002879959		PX	ND		OA
J1815	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	HC	*****	AV
Humalog_kwikpen,pen		RX	N/A		N/A
00169750111		PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00169750111 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_flexpen_u-100,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
S5551 Lantus_u-100,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
Humulin_n_nph_u-100 ,suspension Humalogjr_kwikpen_u100 ,halfpen	Humulin N Nph U-100 Insulin, Suspension Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
S5552 J1815	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV AV
Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Levemir_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_u-100,so	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_u-100,solution Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Humulinr_u500_conc_kwikpen ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_pen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,p	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_kwikpe	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_kwikp	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 54569231800	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A
Humalog_mix_50-50_u-100					
,susp					
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_mix_50-50_u-100	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		N/A
,susp					
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Humulin_7030_u-100	Injection	RX	N/A		N/A
,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog Mix 75-25(U-100)insulin, Suspension				
Humalog_mix_75-25u-100,susp					
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_u-100,cartr	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,cartridge	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humalog_u-100,cartridge	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Novolog_penfill_u100,cartridge Humalog_u-100,cartridge	Novolog Penfill U-100 Insulin, Cartridge Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
S5570	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size	PX	HC	*****	AV
J1815 Humalog_u-100,solution 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	OA N/A OA
J1815 Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Basaglar_kwipen_u-100,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_kwipen,pen Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Apidra_solostar_u-100,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humulinr_u500_conc_kwikpen ,pen	Toujeo Max U-300 Solostar, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00088222033 00002751017 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1817 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
J1815 00088222033 00002821501 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002821517 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00088222033 00002821517 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen J1815 00002751001	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00169183311 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00088502101 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_pen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_pen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_7030_pen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00002751101 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00088502101 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821501 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
S5550 00002751017	Insulin, Rapid Onset, 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humulin_7030_u-100_kwikpen ,pen	Toujeo Max U-300 Solostar, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_7030_u-100_kwikpen ,pen 00002880359	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_n_nph_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_n_pen,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-10	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Afrezza,cartridge_with_inhaler	Humulin R Regular U-100 Insulin, Solution, Injection Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1817 Humulin_r_reg_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	*****	AV N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Lantus_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_u-100_aspart,solution Lantus_u-100,solution	Soliqua 100/33, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088221905 00002821501	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00088222033 00002821501	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00002831501 00002821501	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_u-100_aspart,solution Levemir_flexpen,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Levemir_flexpen,pen J1817	Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
J1815 00169183311 00002821517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
S5550 00002821517	Insulin, Rapid Onset, 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
J1815 J1815 00002821517	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	AV ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
00002871517 00002821517	Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_u-100_aspart,solution 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00088502101 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Levemir_flextouch_u-100,pen J1815 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Levemir_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Levemir_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Levemir_u-100,solution	Xultophy 100/3.6, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension 00169183702	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Apidra_u-100,solution Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen J1817	Novolog Mix 70-30flexpen U-100, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Novolog_u-100_aspart,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Xultophy_10036,pen Soliqua_10033,pen	Xultophy 100/3.6, Insulin Pen Soliqua 100/33, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
00002879701	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Fiasp_u-100,solution	Fiasp U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IPX
Tresiba_flextouch_u-100,pen 00169266015	Tresiba Flextouch U-100, Insulin Pen Tresiba Flextouch U-100, Insulin Pen	RX PX	N/A ND	*****	N/A OA
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
J1815 00002880359	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00088250205	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00088250033	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	OA OA
00088250033 00088222033	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
J1820	Injection, Insulin, Up To 100 Units	PX	HC	*****	AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IS
00169183702	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	*****	OA
00169255013	Tresiba Flextouch U-200, Insulin Pen	PX	ND	*****	AV
Novolog_penfill_u100,cartridge 00169330312	Novolog Penfill U-100 Insulin, Cartridge Novolog Penfill U-100 Insulin, Cartridge	RX PX	N/A ND	*****	N/A AV
J1815 00169330312 00088222033	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169368512	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169368512 00002751017	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00169368712 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
00169368712 00002751017 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169750111 00169368712	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169368712 00002751001	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen J1815 00169368712	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution 00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169633910 00169369619	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX	ND ND	*****	IP IP
00169643810 00169633910 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	HC		AV
	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00002873059	Humulin N Pen, Insulin Pen	PX	ND		AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	OA
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		OA
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	HC		AV
	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		AV
00088222033	Subcutaneous	PX	ND		AV
00002821517	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00002871501 00002871501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169750111 00002880559	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
00169750111 00088221905	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
S5553 S5551 00088222033 00002751017	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
S5553 S5551 S5550	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX PX	HC HC HC	*****	AV AV AV
S5551 S5550	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	AV AV
Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,cartridge	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	*****	IPX
Humulin_n_nph_kwikpen,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_50-50_u-100,	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpe	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalo	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humalog_u-100,cartridge Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,cartridge Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwik	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_pen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_kwikpen,pen 00002751001	Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_k	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikp	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_kwik	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815 Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Tresiba_flextouch_u-200,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
S5553 J1815	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IPX IPX
S5553 S5550	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	IP IP
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_50-50_kwikpen ,pen Apidra_u-100,solution	Humalog Mix 50-50 Kwikpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
54569560500	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
S5560	Insulin Delivery Device, Reusable Pen; 1.5 ML Size	PX	HC	*****	ED
Humulin_n_nph_kwikpen,pen Humalog_mix_50-50_u-100 ,susp	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_50-50_u-100 ,susp Apidra_solostar_u-100,pen	Humalog Mix 50-50 Insulin U-100, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
S5561	Insulin Delivery Device, Reusable Pen; 3 ML Size	PX	HC	*****	AV
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
54868605400	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		OA
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_k ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution Humalog_u-100,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solu	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solutio	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,solution Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen		RX	N/A		N/A
Levemir_flextouch_u-100,pen		RX	N/A		N/A
Humalog_u-1		RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwipen_u-100,pen	Basaglar Kwipen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	ED ED N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
00002821517 00002751001	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Admelog_u-100_lispro,solution Admelog_solostar_u-100,pen	Admelog U-100 Insulin Lispro, Solution, Subcutaneous Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1817 J1815 00088222033 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	OA OA OA OA
00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
00002751101 00002751017	Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183311 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169183311 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IS
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IS IS
Lantus_solostar_u-100,pen 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
J1815 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	ED ED ED ED
J1815 00088502101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
00002751101 00002751017	Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Lantus_solostar_u-100,pen 00088222033 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1815 00002821501 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088502101 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_u-100,solution J1815 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
00002871517 00002751017	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00024586903 00002751017	Injection, Insulin, Per 5 Units Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100,su	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 Humulin_7030_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	AV N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_u-100_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	*****	OA
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
00088221905 00002751659	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	PX PX	ND ND	*****	AV AV
Lantus_solostar_u-100,pen Humulin_n_pen,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Levemir_flexpen,pen J1815 Humulin_r_reg_u-100,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 Humulin_r_reg_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	*****	ED N/A
00002771227	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_r_u-500_conc,solution	Soliqua 100/33, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution Lantus_solostar_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 00002831501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantu	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Lantus	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	PX	HC		ED
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
	Injection, Insulin, Per 5 Units	PX	HC		AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00169183311	Injection, Insulin, Per 5 Units	PX	HC		AV
	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Apidra_u-100,solution 00088250033 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Lantus_u-100,solution 00088221900	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Lantus_u-100,solution 00169183311	Lantus U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Basaglar_kwikpen_u-100,pen 00002771559	Basaglar Kwikpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
J1817 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
J1815 J1815 00002821501 00002821501	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	OA AV AV OA
00002831517 00002821501	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen J1815 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
00002879901 00002821517	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00088221905 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
Levemir_u-100,solution J1815 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_fle	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1817 J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolin_r_reg_u-100,solution Levemir_u-100,solution Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution 00169183311	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Xultophy_10036,pen Novolin_7030_u-100 ,suspension	Xultophy 100/3.6, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution J1817 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Novolin_r_reg_u-100,solution 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A OA
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Toujeo_max_u-300_solostar ,pen Novolog_70-30flexpen_u-100 ,pen	Toujeo Max U-300 Solostar, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1817 J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Novolog_70-30flexpen_u-100 ,pen J1817	Novolog Mix 70-30flexpen U-100, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV
Novolog_flexpen_u-100,pen 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Soliqua_10033,pen Fiasp_flextouch_u-100,pen	Soliqua 100/33, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Apidra_solostar_u-100,pen J1815	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	ED
J1817 J1815 00088221905 00002879959	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV ED
J1815 00169183402	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	ED ED
J1815 00088250205 00088221905	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00088221900	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IPX
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	*****	OA
00169330312	Novolog Penfill U-100 Insulin, Cartridge	PX	ND	*****	IP
00169330312	Novolog Penfill U-100 Insulin, Cartridge	PX	ND	*****	ED
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IP
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		*****
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		OA
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00169368712	Humulin N Nph U-100 Insulin, Suspension	PX	ND		OA
00002831501					
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		AV
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002821501	Injection	PX	ND		IP
	Humulin R Regular U-100 Insulin, Solution,				
	Injection				
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643810 00169633910 00169183311	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
S5571 00169633910	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00169633910 00169183411	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	OA OA
00169643810 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
Novolog_flexpen_u-100,pen 00169643810	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
J1815 00169643810 00002879959	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169643890	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
S5553 S5551 J1815	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX PX	HC HC HC	*****	ED ED ED
S5553 S5551 S5550	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX PX	HC HC HC	*****	ED ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00169750111 00002871517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	IP IP
J1815 00169750111 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169750111 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169750111 00169183311	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
Lantus_solostar_u-100,pen 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_u-100,solution J1815 00169750111 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169750111 00088222033 00002821501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Levemir_u-100,solution J1815 00169750111	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
00169750111 00002871517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169750111 00169183711	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 Lantus_solostar_u-100,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Lantus_u-100,solution Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00169750111 00002751001	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
Novolog_u-100_aspart,solution J1815 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA
35356010200	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_50-50_u-100	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A		
,susp Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Humalog_mix_75-25_kwikpen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		
,pen Humalog_kwikpen,pen					
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen	Injection	RX	N/A		
,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen				
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		
Humalog_u-100,solutio	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		
Humalog_kwikpen,pen					
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	RX	N/A		
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen				
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		
,pen Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	PX	HC		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
		PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		OA
	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		OA
00002	Humulin N Nph U-100 Insulin, Suspension				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution Humulin_n_pen,pen Humalog_kwikpen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_pen,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kw	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_k	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1817 J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX RX	N/A HC HC N/A	*****	N/A ED ED N/A
Lantus_solostar_u-100,pen J1817 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Levemir_flextouch_u-100,pen Levemir_flexpen,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_kwikpen,pen Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002821501	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
Humalog_kwikpen,pen 00002821517	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_kwikpen,pe	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution Humalog_kwikpen,pen Apidra_solostar	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_kwikpen,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 Humalog_kwikpen,pen 00002879959	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	OA N/A OA
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IPX
S5553 Lantus_solostar_u-100,pen	Insulin, Long Acting; 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
S5553 Levemir_flextouch_u-100,pen	Insulin, Long Acting; 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Humalog_u-100,cartridge Humalog_mix_50-50_kwikpen ,pen	Humalog U-100 Insulin, Cartridge Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humalog_mix_50-50_kwikpen ,pen 00002879859	Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX PX	N/A ND	*****	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp Humalog_mix_50-50_u-100 ,susp	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_50-50_u-100 ,susp	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	PX RX	HC N/A	*****	AV N/A
J1815 54868277700	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
J1815 54868438100	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	*****	AV AV
S5561	Insulin Delivery Device, Reusable Pen; 3 ML Size	PX	HC	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution Humalog_mix_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_7030_pen,pen Humalog_mix_75-25u-100,susp	Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_7	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen Afrezza,cartridge_with_inhaler	Humalog Mix 75-25 Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_max_u-300_solostar ,pen Humalog_mix_75-25_kwikpen ,pen	Toujeo Max U-300 Solostar, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Hum	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	IPX N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	ED N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_u-100,solution 00002821517	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND		N/A AV
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A		N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A		N/A N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,solution 00002821517	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND		AV
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Novolin_n_nph_u-100	Injection	RX	N/A		N/A
,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-10	Humalog U-100 Insulin, Solution, Subcutaneous				
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC		AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
Humalog_u-100,solution	Injection, Insulin, Per 5 Units	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous				
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Injection, Insulin, Per 5 Units	PX	HC		AV
J1815	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution					
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Afrezza,cartridge_with_inhaler	Afrezza, Cartridge With Inhaler	RX	N/A		N/A
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	RX	N/A		N/A
Novolog_70-30flexpen_u-100	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
,pen	Humalog U-100 Insulin, Solution, Subcutaneous				
Humalog_u-100,solution					
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolog_70-30flexpen_u-100	Subcutaneous	RX	N/A		N/A
,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous				
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen J1815 Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Tresiba_flextouch_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Humalog_u-100,solution Basaglar_kwikpen_u-100,pen J1815	Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
J1817 J1815 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	AV AV N/A
J1815 Humalog_u-100,solution 00088222033	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Humalog_u-100,solution Fiasp_flextouch_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
S5570	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 ML Size	PX	HC	*****	OA
S5571 J1815	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IS IS

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulinr_u500_conc_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IPX IPX
J1815 00169183311 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IS
00088222033 00002751017 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00088222033 00002821517 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Levemir_u-100,solution J1815 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen J1815 00002751001	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00088222033 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1815 00169183311 00088222033 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169183311 00002751001	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00169183411 00002751001	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_7030_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_pen,pen Apidra_u-100,solution	Humulin 70/30 Insulin Pen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Admelog_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Lantus_solostar_u-100,pen 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002821501 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00088222033 00002821501 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00002871517 00002821517 00002751017	Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00169183311 00088222033 00002821517 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
00088222033 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	ED ED ED
00088502101 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
Levemir_u-100,solution 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 00002879959 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Injection Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_7030_u-100 ,suspension	Soliqua 100/33, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Xultophy_10036,pen Humulin_7030_u-100 ,suspension	Xultophy 100/3.6, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	IP N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Injection	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolin_n_nph_u-100	Subcutaneous	RX	N/A		N/A
,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen				
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
00002751601	Humalog U-100 Insulin, Cartridge	PX	ND	*****	ED
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Humulin_r_u-500_conc,solution	Subcutaneous	RX	N/A		N/A
Humulin_n_nph_u-100	Humulin R U-500 (Conc) Insulin, Solution,	RX	N/A		N/A
,suspension	Subcutaneous				
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension				
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension					

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution J1815 Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 00002751659	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	PX PX	HC ND	*****	ED ED
Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Levemir_u-100,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution 00169183311	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_r_u-500_conc,solution	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IPX N/A
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	OA N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Lantus_solostar_u-100,pen 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Lantus_sol	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_s	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1817	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IPX
Lantus_solostar_u-100,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Tresiba_flextouch_u-200,pen Admelog_u-100_lispro,solution	Tresiba Flextouch U-200, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Lantus_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Lantus_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Lantu	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Apidra_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantu	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED AV
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED
Lantus_u-100,solution 00169183311	Lantus U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
S5550 Lantus_u-100,solution	Insulin, Rapid Onset, 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
Levemir_u-100,solution J1815 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311 00002821501	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Levemir_flexpen,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_flexpen,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311 00002821517	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Levemir_flextouch_u-100,pen 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flextouch	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Apidra_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Levemir_flextouch_u-100,pen J1815 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
00002821591	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Levemir_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution J1815	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_u	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Levemir_u-100,solution J1817 J1815	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1817	Novolin N Nph U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002871501	Humulin, Suspension	PX	ND		AV
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen				N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Afrezza,cartridge_with_inhaler	Afrezza, Cartridge With Inhaler	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_7	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Soliqua_10033,pen Apidra_u-100,solution	Soliqua 100/33, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Soliqua_10033,pen J1815	Soliqua 100/33, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A ED
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	OA
Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00088502101 00002879959	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183411	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	IP IP
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	AV
J1815 J1815 00169183311	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	ED AV ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00024586903	Injection, Insulin, Per 5 Units Toujeo Solostar U-300 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00169183311 00088221905	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00088502005	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00169183402	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
J1815 00169183711	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	OA OA
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IPX
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IS
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00169183411 00169183311	Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	*****	IP
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	*****	IS
J1815 00169368512 00002821517	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1817 00169368512	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00169750111 00169368712	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169750111 00169368712 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169368712	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00169368712	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
00169368712 00002751659	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	PX PX	ND ND	*****	AV AV
Lantus_solostar_u-100,pen 00169368712	Lantus Solostar U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1817 J1815 00169368712	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution 00169368712 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
S551 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
J1815 00169369619	Injection, Insulin, Per 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX	HC ND	*****	OA OA
00169750111 00169643810 00169633910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	ND ND ND	*****	IP IP IP
00169643910 00169633910	Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
J1815 00169633910 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00169643910 00169633910	Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	ED ED
J1815 00169750111 00169643810 00169633910	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169643810 00169633910 00002880559	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169643890 00169633910	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169643910 00169633910 00169183311	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169750111 00169633910 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Lantus_solostar_u-100,pen J1815 00169633910	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
J1817 00169633910 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_flextouch_u-100,pen J1815 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
J1817 J1815 00169633910	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	AV AV AV
J1815 00169633910 00088502005	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
00169633910 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen 00169643910 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
J1815 00169643910 00169633910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA
00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
00169643810 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00169643810	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643810 00169183311	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169643810 00002879959	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169643910 00002751001	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169643910 00002879959	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169643910 00169183311	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
00169643910 00088250205	Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	IPX IPX
00169750111 00002831517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	IP IP
J1815 00169750111 00169183411	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169183311 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
S5550 00169750111	Insulin, Rapid Onset, 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
Humalog_kwikpen,pen 00169750111	Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Humulin_n_nph_u-100 ,suspension 00169750111	Humulin N Nph U-100 Insulin, Suspension Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_u-100,solution 00169750111	Lantus U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Levemir_u-100,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen J1815 00169750111 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00169183411	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
00169750111 00169183411	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
S5550 00169750111	Insulin, Rapid Onset, 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
S5551 Humalog_kwikpen,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humalogjr_kwikpen_u100 ,halfpen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Soliqua_10033,pen Humalogjr_kwikpen_u100 ,halfpen	Soliqua 100/33, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
S5552 Lantus_solostar_u-100,pen	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalo	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Humalog_	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulinr_u500_conc_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulinr_u500_conc_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_u-500_conc,solution	Humulin R U-500 (Conc) Insulin, Solution,	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_kw	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A		N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A		N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A		N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_k	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,p	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humalog_kwikpen,pen 00088221905 00002879959 00002	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX PX PX	N/A N/A N/A ND ND	*****	N/A N/A N/A OA OA
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002771227	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	OA N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100,p	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Lantus_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen J1815 Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humalog_kwikpen,pen 00169183311	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
J1817 J1815 Humalog_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
J1815 49999099410	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5553		PX	HC		AV
S5553	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC	*****	AV
S5550		PX	HC		AV
00002871517		PX	ND		AV
00002821517		PX	ND		AV
S5553	Insulin, Long Acting; 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	AV
00088222033		PX	ND		AV
Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
		RX	N/A		N/A
		RX	N/A		N/A
Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
		RX	N/A		N/A
		RX	N/A		N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
		RX	N/A		N/A
		RX	N/A		N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
		RX	N/A		N/A
		RX	N/A		N/A
Humalog_mix_50-50_kwikpen ,pen Afrezza,cartridge_with_inhaler	Humalog Mix 50-50 Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX	N/A	*****	N/A
		RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_mix_50-50_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
54569560500 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
J1815 54569646200	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_50-50_u-100 ,susp	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_mix_50-50_u-100 ,susp	Tresiba Flextouch U-100, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
J1815 54868274600	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
54868277700	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	AV
J1815 54868510800	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwik	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-10	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulinr_u500_conc_kwikpen ,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25u-100,susp 00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	*****	N/A
	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND		OA
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	PX	HC		ED
		RX	N/A	N/A	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX RX	HC N/A	*****	IP N/A
54868588300	Levemir Flexpen, Insulin Pen	PX	ND	*****	IP
54868605400	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	OA
J1815 55045350601	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV
S5565	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 150 Units	PX	HC	*****	AV
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Humalog_mix_75-25_kwikpen ,pen	Novolog Penfill U-100 Insulin, Cartridge Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_n_pen,pen	Humulin N Pen, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	AV	
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Admelog_u-100_lispro,solution	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX	N/A		N/A

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Lantus_u-100,solution Humalog_u-100,solution 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humalog_u-100,solution 00088221905 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
J1815 Humalog_u-100,solution 00088222033 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_u-10	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,so	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	IP N/A N/A
Lantus_u-100,solution Humulin_n_pen,pen Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_u-100	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_u-100,s	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,s	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwikpen_u-1	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solutio	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Lantus_u-100,solution Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Lantus_u-100,solution J1817 J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX RX	N/A HC HC N/A	*****	N/A ED ED N/A
Lantus_u-100,solution J1817 J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV	
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND		N/A AV	
J1815	Injection, Insulin, Per 5 Units	PX	HC		*****	AV
Humalog_u-100,solution 00002821501	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND		N/A AV	
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A	
Levemir_flexpen,pen Humalog_u-100,solution Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A	
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A	
Levemir_flextouch_u-100,pen J1815 Humalog_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A	
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1817 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution 00169183402	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Basaglar_kwikpen_u-100,pen Afrezza,cartridge_with_inhaler	Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution Basaglar_kwikpen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Soliqua_10033,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Soliqua 100/33, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	ED AV N/A
J1815 Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
J1815 Humalog_u-100,solution 00169183311	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Humalog_u-100,solution 00169183311	Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
S5571 J1815	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IP IP
Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulinr_u500_conc_kwikpen ,pen 00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IPX
J1815 00169183311 00088222033 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169183411 00002751001	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169183311 00088222033 00002751001	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00088222033 00002751017 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	ED ED ED ED
J1817 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
00002751101 00002751001	Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002751001	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen 00088222033 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_u-100,solution 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00002821501 00002751001	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00002831517 00002751001	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00002850101 00002751001	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00002879959 00002751001	Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_7030_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_kwikpen,pen Admelog_solostar_u-100,pen	Humalog Kwikpen Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_75-25_kwikpen ,pen Admelog_solostar_u-100,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Apidra_solostar_u-100,pen Admelog_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
00088221905 00002821501 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00002831517 00002821517 00002751017	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169183311 00088222033 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00002751017 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED AV
00088221905 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
J1815 00088222033 00002821501 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002831517 00002821517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
J1817 J1815 00002821517 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_flextouch_u-100,pen 00088222033 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1815 00088222033 00002831517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00088222033 00002850101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolog_70-30flexpen_u-100 ,pen J1815 00002751017	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution J1815 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution J1815 Basaglar_kwikpen_u-100,pen 00088222033 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Toujeo_solostar_u-300,pen J1815 00002751017	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 00002751017	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 Basaglar_kwikpen_u-100,pen 00002751017	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Basaglar_kwikpen_u-100,pen 00002751017	Basaglar Kwikpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169183311 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_7030_u-100,suspe	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_7030_u-	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_7030_u-100 ,suspension 00169183411	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
00002821517 00002751101	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	AV AV
J1815 00088222033 00002751101	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
00002751201	Humalog Mix 50-50 Insulin U-100, Suspension	PX	ND	*****	AV
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Humulin_n_nph_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	OA N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Afrezza,cartridge_with_inhaler	Humulin N Nph U-100 Insulin, Suspension Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_nph_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 J1815 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX RX	HC HC N/A	*****	AV AV N/A
J1817 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	ED N/A
J1817 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	OA N/A
J1815 00002751659	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	PX PX	HC ND	*****	IP IP
J1815 00088221905 00002751659	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	AV AV AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_pen,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX RX	HC N/A	*****	ED N/A
Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A OA N/A
Levemir_flexpen,pen J1815 Humulin_r_reg_u-100,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution 00024586903 00002821501	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
J1815 Humulin_r_reg_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
J1815 Humulin_r_reg_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
Toujeo_solostar_u-300,pen Levemir_u-100,solution Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815 Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen J1815 Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humulin_r_u-500_conc,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_r_u-500_conc,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humulin_r_u-500_conc,solution	Toujeo Max U-300 Solostar, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Xultophy_10036,pen Humulin_r_u-500_conc,solution	Xultophy 100/3.6, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100,suspension Lantus_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100,pen Lantus_u-100,solution Lantus_solos	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100,solut Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Levemir_flextouch_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwik	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_70-30flexpen_u-100,pen Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Novolog_mix_70-30_u-100,solut Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A	
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A		N/A	
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A	
Lantus_solostar_u-100,pen J1815 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED	
Novolog_flexpen_u-100,pen Admelog_u-100_lispro,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A		*****	N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND			*****
Lantus_u-100,solution J1815 00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV	
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A		*****	
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****		N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Lantus_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_u-100,solution Lantus_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution 00002831501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Lantu	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution J1815	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution J1815	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Lantus_u-100,solution J1815 00169183711	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution J1815 Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_u-100,solution J1815 Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IPX
J1815 00088250033 00002821501	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00088222033 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311 00002821501	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IS
Novolog_70-30flexpen_u-100, pen J1815 00002821501	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
00002873059 00002821501	Humulin N Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Toujeo_solostar_u-300,pen J1815 00002821501	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-100,pen J1815 00002821501	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
J1817 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexpen,p	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen J1815	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_fl	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
J1815	Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 00002831501 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_7030_u-100 ,suspension J1815 00002821517	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution J1815 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00002879959 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1817 J1815 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	AV AV AV
Levemir_flextouch_u-100,pen J1815 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Levemir_flextou	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_f	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_f	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Xultophy_10036,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Xultophy 100/3.6, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV ED
Levemir_flextouch_u-100,pen 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 J1815 00002821591	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	IPX IP IPX
00002821591	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
00002821591	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Levemir_u-100,solution J1815	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution J1815	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Levemir_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Novolog_70-30flexpen_u-100 ,pen J1815 00002831501	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen J1815 00002831501	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00088222033 00002831517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1817 00002831517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
Novolog_flexpen_u-100,pen Novolin_7030_flexpen_u-100 ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70-30 Flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Novolin_7030_u-100 ,suspension J1815 00169183702	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002850101	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension 00169183302	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension 00169183411	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Novolin_n_nph_u-100 ,suspension J1817	Novolin N Nph U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A OA
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution J1817 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Novolin_r_reg_u-100,solution J1815 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution J1817	Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
Novolin_r_reg_u-100,solution 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Afrezza,cartridge_with_inhaler	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Afrezza,cartridge_with_inhaler	Levemir U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Afrezza,cartridge_with_inhaler	Novolog Mix 70-30flexpen U-100, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Afrezza,cartridge_with_inhaler	Afrezza, Cartridge With Inhaler	RX	N/A		N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Afrezza,cartridge_with_inhaler	Afrezza, Cartridge With Inhaler	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00002873059	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX PX	HC ND	*****	OA OA
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution J1815	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IPX
Novolog_u-100_aspart,solution 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Fiasp_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_max_u-300_solostar ,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Toujeo_max_u-300_solostar ,pen J1815	Toujeo Max U-300 Solostar, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
00088221905 00002879759	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX	ND ND	*****	AV AV
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Toujeo_solostar_u-300,pen J1817	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV
Toujeo_solostar_u-300,pen S5550	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin, Rapid Onset, 5 Units	RX PX	N/A HC	*****	N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Fiasp_flextouch_u-100,pen Apidra_u-100	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Fiasp Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND	*****	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	AV
J1815		PX	HC		AV
J1815		PX	HC		ED
J1815		PX	HC		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00024592410	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Apidra_u-100,solution 00088250033	Apidra U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
J1817 J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	IS AV
J1817 Basaglar_kwikpen_u-100,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1817 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	OA OA
00088250033 00088222033	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
00169183311 00088222033	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED
S5550 00169183311	Insulin, Rapid Onset, 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
J1815 00169330312	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge	PX PX	HC ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169369619 00169330312	Injection, Insulin, Per 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen 00169330312	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution 00169330312	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge	RX PX	N/A ND	*****	N/A AV
J1817 00169330312	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Penfill U-100 Insulin, Cartridge	PX PX	HC ND	*****	AV AV
00169330312 00088221905	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00169750111 00169368512 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169750111 00169368712 00169368512	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169368712 00169368512 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368512 00002751001	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169368512 00169183311	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
S5553 S5553 S5550 S5550	Insulin, Long Acting; 5 Units Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Insulin, Rapid Onset, 5 Units	PX PX PX PX	HC HC HC HC	*****	OA AV OA AV
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IPX IPX
00169633910 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
00169750111 00169368712 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169750111 00169368712 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
S5553 00169368712	Insulin, Long Acting; 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND		IP
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	ED
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		ED
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169368712 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen 00169750111 00169368712	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
S5553 S5550 00169368712 00002751017	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
Humalog_u-100,solution 00169368712	Humalog U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00169368712 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Levemir_flextouch_u-100,pen J1815 00169368712 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_u-100,solution 00169368712	Lantus U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169368712 00002871517 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 Basaglar_kwikpen_u-100,pen 00169368712	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
S5553 S5551	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX	HC HC	*****	IPX IPX
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
J1815 00169633910 00169369619	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IP IP
J1815 00169750111 00169643810 00169633910	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00169643810 00169633910 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00169643810 00169633910	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1815 00169643810 00169633910 00169183311	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1817 J1815 00169633910 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1815 00169633910 00169183311 00088221905 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
00169633910 00088221905 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169633910 00002879759	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwippen, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00088502005	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00169633910 00002880559	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX	ND ND	*****	IP IP
00169633910 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	ED OA
Humalog_kwikpen,pen 00169633910	Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A ED
J1817 J1815 00169633910	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED ED ED
00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
00169633910 00169183411	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	ED ED
J1815 00169643810 00169633910 00002821517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169750111 00169633910 00088221905	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169750111 00169633910 00088221905	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_u-100,solution 00169633910	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_flexpen,pen 00169633910	Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
00169633910 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
J1815 00169633910 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169633910 00088221905 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169633910 00002850101	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen 00169633910	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen 00169633910 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_u-100_aspart,solution 00169633910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00002879959	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169633910 00002880559	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 J1815 00169633910	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED AV AV
00169633910 00169183411	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
Lantus_solostar_u-100,pen 00169633910 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A OA OA
00169643810 00002821517 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169643810 00002821517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169643810 00002879901	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00169643810 00002879959	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
00169643810 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humalog_kwikpen,pen 00169643810	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_u-100,solution 00169643810	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
00169643810 00002879901	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
S5551 00169750111	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
S5551 S5551 J1815 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX PX PX	HC HC HC HC	*****	ED AV ED AV
S5551 J1815 00088502101 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	ED ED ED ED
S5551 Novolog_flexpen_u-100,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643910 00002821517	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00169750111 00169643910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 00169643910 00002821517	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169643910 00002879901	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
00169643910 00088221905	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 Humalog_kwikpen,pen 00169750111	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	IP N/A IP
Lantus_solostar_u-100,pen J1815 00169750111 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A IP IP IP
J1815 00169750111 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00088221905	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00169750111 00169183411	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	IP IP
S5550 00169750111	Insulin, Rapid Onset, 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
00169750111 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	ND ND	*****	ED OA
Humulin_r_reg_u-100,solution 00169750111	Humulin R Regular U-100 Insulin, Solution, Injection Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Lantus_solostar_u-100,pen 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Levemir_u-100,solution J1815 00169750111	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_flexpen_u-100,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Humalog_u-100,solution 00169750111	Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_u-100,solution J1815 Humalog_u-100,solution 00169750111	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
00169750111 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
00169750111 00002831501 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169183311 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_u-100,solution 00169750111	Levemir U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169750111 00002831517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
Novolin_7030_u-100 ,suspension J1815 00169750111	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution J1815 00169750111	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 J1815 00169750111	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	ED AV AV
00169750111 00169183311 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5552 S5551	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX	HC HC	*****	AV AV
S5551 Levemir_u-100,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5551 Novolog_u-100_aspart,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5551 00002879959	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humalogjr_kwikpen_u100 ,halfpen	Toujeo Max U-300 Solostar, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
00169750111 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1817 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	AV OA
35356010200	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
J1815 35356010200	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
J1815 54868462600 35356010200	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
47918088236 00088221905	Afrezza, Cartridge With Inhaler Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
S5552 S5550	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	ED ED
S5552 S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX PX	HC HC	*****	AV OA
S5552 00002831501	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
Humulin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwi	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pe	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_n_nph_u-100,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pe	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pe	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pe	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-1	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_max_u-300_solostar,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulinr_u500_conc_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Humulinr_u500_conc_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_7030_pen,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_pen,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	IP N/A IP
Humalog_kwikpen,pen 00002751017	Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Lantus_u-100,solution J1815 Humalog_kwikpen,pen 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
J1815 Humalog_kwikpen,pen 00088502101 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_kwikpe	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_kw	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_pen,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_kwik	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Toujeo Max U-300 Solostar, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen 00002879959	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
J1815 Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	IPX N/A N/A
J1815 Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwik	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_n_pen,pen Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_kwikpen,pen 00002771201	Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwik	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kw	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_kwikp	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwik	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humalog_kw	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Humalog_kwikp	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-100,pen~	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pe	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_solosta	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Xultophy 100/3.6, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1817 J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A OA N/A
S5550 Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Insulin, Rapid Onset, 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_kwikpen,pen 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IPX
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC		N/A IP
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	N/A	
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Novolog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flexpen,	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,p	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Novolin_n_nph_u-100	Injection	RX	N/A		N/A
,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog	Humalog Kwikpen Insulin, Insulin Pen				
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC		AV
Humalog_kwikpen,pen	Insulin Pump) Per 50 Units	RX	N/A		N/A
	Humalog Kwikpen Insulin, Insulin Pen				
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen					
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 Humalog_kwikpen,pen 00002831501	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humalog_kw	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Soliqua_10033,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Soliqua 100/33, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Toujeo_max_u-300_solostar ,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen 00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen Tresiba_flextouch_u-200,pen Humalog_kwikpen,pen	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-200, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	IPX N/A N/A
J1815 J1815 Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	ED AV N/A
J1815 Humalog_kwikpen,pen 00088222033	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Humalog_kwikpen,pen 00088221905	Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Humalog_kwikpen,pen 00169183311	Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
J1815 49999099410 00002821517 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size Insulin, Long Acting; 5 Units	PX	HC	*****	IP
S5553		PX	HC		IP
S5553	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units	PX	HC	*****	IS
J1815		PX	HC		IS
S5553	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	PX	HC	*****	IS
S5550		PX	HC		IS
54569231900	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
J1815	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC	*****	IP
54569231900		PX	ND		IP
54569231900	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	AV
S5553	Insulin, Long Acting; 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	ED
Lantus_u-100,solution		RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX	HC	*****	AV
54569291800		PX	ND		AV
S5553	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC	*****	AV
J1815		PX	HC		AV
00002821517		PX	ND		AV
S5553		PX	HC		AV
S5550	Insulin, Rapid Onset, 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC	*****	AV
00002821517		PX	HC		AV
00002821517		PX	ND		AV
S5553	Insulin, Long Acting; 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	AV
Levemir_u-100,solution		RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX	HC	*****	AV
00088221905		PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwikpen,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 54569383300	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
54569383300	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	AV
S5553 Levemir_u-100,solution 54569560500	Insulin, Long Acting; 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	***** ***** *****	OA N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_50-50_u-100 ,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_75-25u-100,susp Humalog_mix_50-50_u-100 ,susp	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Tresiba Flextouch U-200, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humalog_mix_50-50_u-100 ,susp	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
Humulin_7030_pen,pen Humalog_mix_50-50_u-100 ,susp	Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
Humulin_n_pen,pen Humalog_mix_50-50_u-100 ,susp	Humulin N Pen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_50-50_u-100 ,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
S5560	Insulin Delivery Device, Reusable Pen; 1.5 ML Size	PX	HC	*****	OA
J1815 54868438100	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	*****	ED ED
S5561 J1815	Insulin Delivery Device, Reusable Pen; 3 ML Size Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25_	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Humalog_mix_75-25_k	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Huma	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
	Humalog Mix 75-25 Kwikpen, Insulin Pen				
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_7	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC		N/A ED
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A	N/A	
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX RX	HC N/A	*****	AV N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension				
54868588300	Levemir Flexpen, Insulin Pen	PX	ND	*****	AV
54868588300	Levemir Flexpen, Insulin Pen	PX	ND	*****	AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen 00002821501	Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen 00002831501	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 J1815 Humalog_mix_75-25_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX RX	HC HC N/A	*****	ED ED N/A
J1817 Humalog_mix_75-25_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_pen,pen Humalog_u-100,cartridge	Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_u-100,cartridge	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_u-100,solution Humalog_u-100,cartridge	Tresiba Flextouch U-200, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
S5571 S5570	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size	PX PX	HC HC	*****	AV AV
Lantus_u-100,solution Humalog_u-100,solution 00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Humulin_n_nph_u-100 ,suspension Humulin_7030_pen,pen Humalog_u-100,solution	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		OA
00002751001	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_7030_u-100	Injection	RX	N/A		N/A
,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100	Humalog U-100 Insulin, Solution, Subcutaneous				
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous				
Humalog_u-100					
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution					

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Apidra_u-100,solution	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solut	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Levemir_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension Humalog_u-10	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Huma	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solu	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solu	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_max_u-300_solostar ,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Toujeo Max U-300 Solostar, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solut	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,p	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,solution Apidra_u-100,solutio	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IS N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution 00169183311	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_u-100,solution J1817 Humalog_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
S5550 Lantus_u-100,solution Humalog_u-100,solution	Insulin, Rapid Onset, 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_u-100,solution 00002821501	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_flexpen,pen J1815 Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1817 Humalog_u-100,solution 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u-10	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Basaglar_kwikpen_u	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humalog_u-100	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humalog_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IP N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815 Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_7030_u-100 ,suspension J1815 Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humal	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution Apidra_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IS
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		OA
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Humulinr_u500_conc_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100_kwikpen,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humu	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution Humulin_n_nph_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humulinr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulinr_u500_conc_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Apidra_u-100,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Xultophy_10036,pen Humulinr_u500_conc_kwikpen ,pen	Xultophy 100/3.6, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 Humulinr_u500_conc_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
Humulinr_u500_conc_kwikpen ,pen Fiasp_flextouch_u-100,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00002821501 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751001	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002871501	Humulin, Suspension	PX	ND	*****	IP
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751001	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		*****
00002751001	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	IP	
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND	*****	IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751001	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		*****
J1815	Injection, Insulin, Per 5 Units	PX	HC	AV	
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	AV	
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC	*****	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
00002821501	Injection, Insulin, Per 5 Units	PX	ND		AV
00002751001	Humulin R Regular U-100 Insulin, Solution,	PX	ND		AV
	Injection Humalog U-100 Insulin, Solution, Subcutaneous				
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088502101 00002821517 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Novolin_7030_u-100 ,suspension J1815 00002751001	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00002871517 00002751001	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution J1815 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-100,pen 00002751001	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Tresiba_flextouch_u-100,pen J1815 00002751001	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00169183711 00002751001	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
S5550 00002751001	Insulin, Rapid Onset, 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_pen,pen 00002877059	Humulin 70/30 Insulin Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen Humalog_kwikpen,pen Admelog_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Admelog_solostar_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Admelog_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Admelog_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen Admelog_solostar_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1817 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
Lantus_u-100,solution 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP
J1815 00002821501 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00002831517 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00088221905 00002850101 00002821517 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
J1815 00169183311 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
00088502101 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP	
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP	
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP	
Novolog_u-100_aspart,solution 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP	
J1815 00088502001 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND		*****	IP IP IP
J1815 00088222033 00002751017 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	ED AV ED AV		
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****		N/A N/A ED
Lantus_u-100,solution J1815 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND		*****	N/A ED ED
Levemir_flextouch_u-100,pen 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND			*****
Levemir_flextouch_u-100,pen J1815 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****		
J1815 J1815 00002751017	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND		ED AV ED	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00088222033 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	ED ED ED ED
J1815 00088221905 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00088222033 00002751101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Humulin_r_reg_u-100,solution 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Lantus_u-100,solution J1815 00088221905 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_u-100,solution 00088222033 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A ND ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		AV
00002821501	Injection	PX	ND		AV
00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	AV
00002871501	Humulin, Suspension	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002871501	Humulin, Suspension	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1815 00002751017	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_mix_70-30_u-100 ,solut J1815 00002751017	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen 00002751017	Tresiba Flextouch U-200, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00002879959 00002751017	Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00088502101 00002879959 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00088502101 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169183711 00002751017	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00169183311 00088222033 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
00169183411 00002751017	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00169183711 00002751017	Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 Humulin_7030_u-100 ,suspension 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension 00002821517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humulin_7030_u-100 ,suspension	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1815 Humulin_7030_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 Humulin_7030_u-100 ,suspension 00002831501	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	IS N/A
J1817 Humulin_7030_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	ED N/A
00002821517 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	OA OA
00088222033 00002751101	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311 00002751101	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	AV AV
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_7030_u-100_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815 Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_7030_u-100_kwikpen ,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kw	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_n_nph_kwipen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_kwipen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwipen,pen Afrezza,cartridge_with_inhaler	Humulin N Nph Insulin Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Levemir_flexpen,pen Humulin_n_nph_kwipen,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_kwipen,pen 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_kwipen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_n_nph_kwipen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Toujeo_max_u-300_solostar,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
Humulin_n_nph_kwipen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
00002751601	Humalog U-100 Insulin, Cartridge	PX	ND	*****	AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_n_np	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution Humul	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Apidra_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	IPX N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00169183411	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
Levemir_flexpen,pen Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humulin_n_nph_u-100 ,suspension 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX RX	HC HC N/A	*****	ED AV N/A
J1815 Humulin_n_nph_u-100 ,suspension 00169183311	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
00002751659	Humalog U-100 Insulin, Cartridge	PX	ND	*****	ED
Novolog_flexpen_u-100,pen J1815 00002751659	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX PX	N/A HC ND	*****	N/A AV AV
00088222033 00002751659	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humulin_n_pen,pen	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen 00088221905 00002873059	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_n_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humulin_n_pen,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,s	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_re	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_r_re	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humulin_r_reg	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Humulin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A OA N/A OA
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_r	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humulin_r_r	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humulin_r_r	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_r_reg	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1815 Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Humulin R Regular U-100 Insulin, Solution, Injection	RX RX	N/A N/A	*****	N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 00002771227	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_u-500_conc,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution Levemir_flexpen,pen Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 Humulin_r_u-500_conc,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 00002771227	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	*****	OA OA
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Lantus_solost	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Lantus_solostar_	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution Lantus_solosta	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Fiasp_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100,pe	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Levemir_flexpen,pen Lantus_solostar_u-100	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen J1815	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00088222033 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwikpen_u	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Lantus_solos	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen J1815	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Levemir_u-100,solution Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_sol	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solo	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED AV
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen J1815 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND		N/A AV AV
Lantus_solostar_u-100,pen J1817 J1815	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A IPX IPX
Lantus_solostar_u-100,pen J1815 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND		N/A ED ED
Lantus_solostar_u-100,pen J1815 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
Lantus_solostar_u-100,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND		N/A IP
Lantus_solostar_u-100,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Lantus_solostar_u-100,pen 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND		N/A ED
Novolin_n_nph_u-100 ,suspension Admelog_u-100_lispro,solution	Novolin N Nph U-100 Insulin, Suspension Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Admelog_u-100_lispro,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_u-100_aspart,solution Basaglar_kwikpen_u-100,pen Admelog_u-100_lispro,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Lantus_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Lantus_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Levemir_flextouch_u-100,pen Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Lantus_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Novolin_7030_u-100,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Lant	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solu	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_penfill_u100,cartridge Lantus_u-100,solution J1815	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Toujeo_max_u-300_solostar ,pen Novolog_u-100_aspart,solution Lantus_u-100,solution	Toujeo Max U-300 Solostar, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Lantus_u-100,solution 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
S5550 Novolog_u-100_aspart,solution Lantus_u-100,solution	Insulin, Rapid Onset, 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	HC		AV
		PX	ND		AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
		PX	ND		AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	HC		AV
		PX	ND		AV
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		IP
J1815		PX	HC		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
		PX	ND		IP
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 00002831501 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_r_reg_u-100,solution J1815 00002821501	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED AV
J1815 J1815 00002821501	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	ED AV AV
J1815 Basaglar_kwikpen_u-100,pen 00002821501	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 00088250033 00002821501	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088250033 00088222033 00002821501	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_fle	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A AV
Novolog_penfill_u100,cartridge Levemir_u-100,solution Levemir_flexpen,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Levemir_f	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution Levemir_flexpen,pen	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Levemir_flexpen,pen 00002879959	Levemir Flexpen, Insulin Pen Humalog Kwipen Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Levemir_flexpen,pen J1817 J1815	Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen J1815 00169183311	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_flexpen,pen J1815 Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_flexpen_u-100,pen J1815 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
J1815 00002821517 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IPX IPX IP
J1815 00024586903 00002821517	Injection, Insulin, Per 5 Units Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00088250033 00088222033 00002821517	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IS
Levemir_u-100,solution 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002831517 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
J1815 00002831517 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
Novolin_7030_u-100 ,suspension J1815 00002821517	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
J1815 00002871517 00002821517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
Novolog_70-30flexpen_u-100 ,pen J1815 00002821517	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_u-100_aspart,solution J1815 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Toujeo_solostar_u-300,pen J1815 00002821517	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Apidra_solostar_u-100,pen 00002821517	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV ED
Novolin_7030_u-100 ,suspension 00002821517	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolin_r_reg_u-100,solution J1815 00002821517	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Toujeo_solostar_u-300,pen 00002821517	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Tresiba_flextouch_u-100,pen J1815 00002821517	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
00002879959 00002821517	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088221905 00002879959 00002821517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED AV
J1815 00024586903 00002821517	Injection, Insulin, Per 5 Units Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183302 00002821517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183411 00002821517	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Levemir_u-100,solution Levemir_flextouch_u-100,pen Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen J1815	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 00002831501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_7030_flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Novolin 70-30 Flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 00002850101	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Basaglar_kwipen_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Apidra_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_fle	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Basaglar_kwik	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A OA
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A ED
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen J1815 00088221905	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND		N/A AV AV
Levemir_flextouch_u-100,pen J1815 00169183711	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	N/A	
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100 ,solut	Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A		N/A
Levemir	Subcutaneous	RX	N/A		N/A
	Novolin 70/30 U-100 Insulin, Suspension				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Novolin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_	Novolin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
	Levemir U-100 Insulin, Solution, Subcutaneous				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Apidra_solostar_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-1	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_mix_70-30_u-100,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		AV
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1815 00169183311	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution J1815 Apidra_u-100,solution 00002831501	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A IP
J1815 00169183311 00002831501	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_7030_u-100 ,suspension Novolin_7030_flexpen_u-100 ,pen J1815 00002831517	Novolin 70/30 U-100 Insulin, Suspension Novolin 70-30 Flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A OA OA
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novoli	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension 00169183302	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension J1815 00002871517	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-100,pen Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_7030_u-100 ,suspension J1815	Novolog Penfill U-100 Insulin, Cartridge Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Novolin_7030_u-100 ,suspension J1815 J1815 J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED AV
Novolin_7030_u-100 ,suspension J1817 J1815	Novolin 70/30 U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension J1815 00169183311	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00002850101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND	*****	ED
Novolog_flexpen_u-100,pen 00002850101	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen J1815 00002850101	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Novolin_n_nph_u-100 ,suspension J1815	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Novolin_n_nph_u-100 ,suspension J1817	Novolin N Nph U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Fiasp_flextouch_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension Fiasp_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND	*****	OA
J1815 00002871501 00002871501	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00002871501 00002871501	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	HC ND ND	*****	ED ED ED
Novolog_70-30flexpen_u-100 ,pen 00002871501 00002871501	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX	N/A ND ND	*****	N/A AV AV
00002879959 00002871501 00002871501	Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00088250033 00002871501 00002871501	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution J1815	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolin_r_reg_u-100,solution J1815 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED AV
Novolin_r_reg_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Novolin_r_reg_u-100,solution J1817	Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV
Novolin_r_reg_u-100,solution 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Afrezza,cartridge_with_inhaler	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Afrezza,cartridge_with_inhaler	Novolin R Regular U-100 Insulin, Solution, Injection Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Afrezza,cartridge_with_inhaler	Toujeo Max U-300 Solostar, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
J1815 Afrezza,cartridge_with_inhaler	Injection, Insulin, Per 5 Units Afrezza, Cartridge With Inhaler	PX RX	HC N/A	*****	AV N/A
Fiasp_u-100,solution Afrezza,cartridge_with_inhaler	Fiasp U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
J1815 00002871501 00002871501	Injection, Insulin, Per 5 Units Humulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	OA OA OA
J1815 00002871517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	IPX IPX
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815 00169183311	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_70-30flexpen_u-100 ,pen J1815 Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Soliqua_10033,pen Novolog_flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Toujeo_max_u-300_solostar ,pen Novolog_flexpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Apidra_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC		ED
J1815	Insulin Pump) Per 50 Units	PX	HC		ED
Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units	RX	N/A		N/A
	Basaglar Kwikpen U-100 Insulin, Insulin Pen				
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC		IPX
	Insulin Pump) Per 50 Units				
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
	Injection				
Toujeo_max_u-300_solostar	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	*****	N/A
,pen	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A		N/A
Novolog_mix_70-30_u-100	Subcutaneous				
,solut					
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	PX	HC		IS
J1815	Injection, Insulin, Per 5 Units				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut J1817 J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Novolog_mix_70-30_u-100 ,solut J1817	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A ED
Novolog_mix_70-30_u-100 ,solut J1817	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Apidra_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Novolog_penfill_u100,cartridge Fiasp_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Apidra_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution J1815	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution J1815	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution J1815	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution J1815 Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Toujeo_max_u-300_solostar ,pen Basaglar_kwikpen_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	IP
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND		IP
Toujeo_solostar_u-300,pen J1817	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Toujeo_solostar_u-300,pen J1817	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		ED
Toujeo_solostar_u-300,pen 00088222033	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IS
J1815	Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	HC		ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
Tresiba_flextouch_u-100,pen J1817	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		ED
Tresiba_flextouch_u-100,pen J1817	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		AV
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IS
J1815	Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-200,pen 00169183311	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		ED
00169255013	Tresiba Flextouch U-200, Insulin Pen	PX	ND	*****	AV
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183711	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	IP IP
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND	*****	ED
J1815 00002880559	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX	HC ND	*****	ED ED
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND	*****	OA
J1817 J1815 00088221905	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED ED ED
J1817 J1815 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	ED ED ED
J1815 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169183302	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED OA
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	OA
J1815 00024586901	Injection, Insulin, Per 5 Units Toujeo Solostar U-300 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	AV AV AV
J1820 J1815	Injection, Insulin, Up To 100 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV AV
J1815 00169183311 00088502101	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183702	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
J1815 00169320111	Injection, Insulin, Per 5 Units Fiasp U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
Fiasp_u-100,solution Apidra_u-100,solution	Fiasp U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen	PX	ND	*****	OA
J1815 00088250205	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	OA OA
J1817 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
J1817 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
J1817 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00024592410	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	PX	ND	*****	ED
00024592410	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	PX	ND	*****	AV
J1817 Basaglar_kwikpen_u-100,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	ED N/A
S5550 Basaglar_kwikpen_u-100,pen	Insulin, Rapid Onset, 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1820	Injection, Insulin, Up To 100 Units	PX	HC	*****	ED
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	OA
00088502005	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IPX
00169183402 00169183302	Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
00169183411 00169183311	Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
S5550 00169183311	Insulin, Rapid Onset, 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED
00169183311 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV OA
00169183402	Novolin N Nph U-100 Insulin, Suspension	PX	ND	*****	OA
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND	*****	IPX
00169255097	Tresiba Flextouch U-200, Insulin Pen	PX	ND	*****	AV
00169320111	Fiasp U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169330312 00002871517	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169643810 00169369619 00169330312	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169750111 00169330312	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169330312 00002821517	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169330312 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1817 J1815 00169330312	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Penfill U-100 Insulin, Cartridge	PX PX PX	HC HC ND	*****	AV AV AV
00169330312 00088222033	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00169643810 00169330312	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	PX PX	ND ND	*****	OA OA
00169368712 00169368512	Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169633910 00169368512	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169633910 00169368512	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169643810 00169368512	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169750111 00169368512	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
J1815 00169750111 00169368512	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169368512 00002751017	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169368512 00088222033 00002751017	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368512 00002821517	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00169368512 00002871501 00002871501	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169368512 00088222033	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00169368512 00169183311	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
J1815 00169633910 00169368512	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169368512 00088222033	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED
00169750111 00169368712 00169368512	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169368712 00169368512	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169368712 00169368512 00169183311	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169633910 00169368512 00088221905	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169368512 00002751017	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169368512 00002871501 00002871501 00002831517 00002751017	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
00169368512 00002821501	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen 00169368512	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 00169368512 00088222033	Injection, Insulin, Per 5 Units Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen 00169633910 00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IPX IPX
J1815 00169368712 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IPX IPX IPX
00169643810 00169633910 00169368712	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00169633910 00169368712 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
00169643810 00169368712 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00169750111 00169368712	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	IP N/A IP IP
S5553 S5550 00169750111 00169368712	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
00169750111 00169368712 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169750111 00169368712 00002751017	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
S5553 S5550 00169368712 00002751001	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
S5553 S5550 00169368712 00002751017	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553 J1815 00169368712 00002821517	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
S5553 S5550 00169368712	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	IP IP IP
Lantus_solostar_u-100,pen Humalog_u-100,solution 00169368712 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A IP IP
Lantus_u-100,solution J1815 Humalog_u-100,solution 00169368712 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A IP N/A IP IP
00169368712 00002821501 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00169368712 00002871517 00002821517 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368712 00002821501 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169368712 00002831517 00002821501 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
00169368712 00002831517 00002821517 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
00169368712 00169183411 00002821517 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
Levemir_flextouch_u-100,pen 00169368712 00002821517 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A ND ND ND	*****	N/A IP IP IP
Levemir_u-100,solution J1815 00169368712 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC	*****	IP
J1815	Insulin Pump) Per 50 Units	PX	HC		IP
00169368712	Injection, Insulin, Per 5 Units	PX	ND		IP
00002751017	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection	PX	ND		IP
	Humalog U-100 Insulin, Solution, Subcutaneous				
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
	Injection				
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169368712 00002871517	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
00169368712 00002879959	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwipen Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IPX IP
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IS IS
J1815 00169368712 00002821517	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED IS ED
J1815 00169368712	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED IS
00169633910 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
Lantus_u-100,solution 00169633910 00169368712	Lantus U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A ED ED
00169750111 00169368712 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	ED ED ED
00169750111 00169368712 00002831517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	ED ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169368712 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	ED ED ED
J1815 Humalog_kwikpen,pen 00169368712 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	ED N/A ED ED
J1815 Humalog_kwikpen,pen 00169368712	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
S5553 Levemir_flextouch_u-100,pen 00169368712	Insulin, Long Acting; 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 Humalog_mix_75-25_kwikpen ,pen 00169368712	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
Levemir_u-100,solution J1815 Humalog_u-100,solution 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
J1815 00169368712 00002751001	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643810 00169633910 00169368712 00169183311	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
J1815 00169750111 00169633910 00169368712 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
00169633910 00169368712 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169633910 00169368712 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1817 J1815 00169633910 00169368712 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00169633910 00169368712	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
00169643910 00169368712	Levemir Flexpen, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169643910 00169368712	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED AV
J1815 J1815 00169750111 00169368712	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV ED ED AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169750111 00169368712 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
J1815 Humalog_kwikpen,pen 00169750111 00169368712	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		AV
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00169750111	Novolog U-100 Insulin Aspart, Solution,	PX	ND		AV
00169368712	Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		AV
00169750111	Novolog U-100 Insulin Aspart, Solution,	PX	ND		AV
00169368712	Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169750111	Novolog U-100 Insulin Aspart, Solution,	PX	ND		AV
00169368712	Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169750111	Novolog U-100 Insulin Aspart, Solution,	PX	ND		AV
00169368712	Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		*****
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	N/A	
00169750111	Injection	PX	ND	AV	
00169368712	Novolog U-100 Insulin Aspart, Solution,	PX	ND	AV	
	Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen 00169750111 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX PX PX	N/A N/A N/A ND ND	*****	N/A N/A N/A AV AV
00169750111 00169368712 00002831501 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	ND ND ND ND	*****	AV AV AV AV
J1815 00169750111 00169368712 00002821501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169750111 00169368712 00002831517 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169750111 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 00169750111 00169368712	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Levemir_u-100,solution 00169750111 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
00169750111 00169368712 00002831517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution 00169750111 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1817 J1815 00169750111 00169368712	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
00169750111 00169368712 00169183411	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC	*****	AV
J1815	Units	PX	HC		AV
00169368712	Injection, Insulin, Per 5 Units	PX	ND		AV
00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humalog_u-100,solution 00169368712	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
00169368712 00169183311 00002751001	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169368712 00002751101 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Lantus_u-100,solution J1815 00169368712 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169368712 00002821501 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169368712 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
Levemir_u-100,solution J1815 00169368712 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen J1815 00169368712 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
00169368712 00002879959 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1817 J1815 00169368712 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1815 00169368712 00088222033 00002751017	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution 00169368712	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen 00169368712 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen 00169368712 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_u-100,solution Apidra_u-100,solution 00169368712 00169183311	Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Levemir_flexpen,pen 00169368712	Levemir Flexpen, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169368712 00169183311 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_u-100,solution 00169368712 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen 00169368712 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_u-100_aspart,solution 00169368712 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen 00169368712 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Levemir_flextouch_u-100,pen 00169368712 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution 00169368712	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Levemir_u-100,solution J1815 00169368712	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution 00169368712	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_u-100,solution J1815 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169368712 00002831517	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169368712 00002850101	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
00169368712 00002871501 00002871501	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV
Apidra_solostar_u-100,pen 00169368712	Apidra Solostar U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169368712 00002871517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
Toujeo_solostar_u-300,pen J1815 00169368712	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen 00169368712	Tresiba Flextouch U-200, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169368712 00002879901	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 J1815 00169368712 00169183311	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	ED AV AV ED
J1815 00169368712 00088222033	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169368712 00088250205	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169368712 00169183711	Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IPX
S5551 Humulin_n_nph_u-100 ,suspension	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	IPX N/A
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IPX IPX
S5551 S5550	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	IPX IPX
J1815 00169633910 00169368712	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
Levemir_u-100,solution Humulin_r_reg_u-100,solution 00169368712 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Levemir_u-100,solution J1815 00169368712	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		OA
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND		IP
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		IP
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		IP
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	ED
00002879901	Humalog Kwipken Insulin, Insulin Pen	PX	ND		ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00169369619 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169633910 00169369619 00002873059	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV
00169643910 00169369619	Levemir Flexpen, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 Humalog_mix_75-25u-100,susp 00169750111 00169369619	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humalog_mix_75-25_kwikpen ,pen 00169369619	Humalog Mix 75-25 Kwikpen, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Novolog_70-30flexpen_u-100 ,pen J1815 00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen 00169369619	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX PX	N/A ND	*****	N/A AV
J1815 00169369619 00169183311	Injection, Insulin, Per 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1817 00169369619	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX	HC ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 00169750111	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
S5553 S5551 00088222033 00002751017	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
S5551 J1815 00002821517 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
S5551 S5550	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	IP IP
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen 00169643910 00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Levemir Flexpen, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
00169643910 00169633910	Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	IPX IPX
00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IPX IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169643810 00169633910 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
J1815 00169750111 00169643810 00169633910 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1815 Humalog_kwikpen,pen 00169643810 00169633910	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX PX PX	HC N/A ND ND	*****	IP N/A IP IP
00169643810 00169633910 00169183311 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
J1817 J1815 00169643810 00169633910 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	IP IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643890 00169633910	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169750111 00169633910 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1815 00169750111 00169633910	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
Humalog_u-100,solution 00169633910	Humalog U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A IP
J1815 00169633910 00002751017	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
Lantus_solostar_u-100,pen J1815 00169633910	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A IP IP
J1815 00169633910 00088222033 00002821501	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00169183311 00002821501	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
Levemir_flextouch_u-100,pen 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A IP
J1817 J1815 00169633910 00088222033 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	IP IP IP IP IP
J1815 00169633910 00088221905 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169633910 00169183411 00088221905 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1815 00169633910 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00169255013	Tresiba Flextouch U-200, Insulin Pen	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002821517	Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX	ND		IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002873001	Humulin N Pen, Insulin Pen	PX	ND		IP
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		IP
00002879701	Humalog Mix 75-25 Kwippen, Insulin Pen	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00002880301	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169633910 00169183311 00088221905	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169633910 00169183711 00169183311	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	IS IS
J1815 J1815 00169633910 00169633910	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX PX	HC HC ND ND	*****	ED AV ED AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A ED N/A ED ED
00169643890 00169633910 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	ED ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen J1815 00169643910 00169633910	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A ED ED ED
J1815 00169643910 00169633910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	ED ED ED
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00169633910	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Levemir_flextouch_u-100,pen 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A ED
J1815 00169633910 00002821517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
00169633910 00002831517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	ED ED
00169633910 00002871517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	ED ED
Novolog_flexpen_u-100,pen J1815 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_flexpen_u-100,pen J1815 00169633910 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A ED ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen 00169643810 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169643810 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
J1815 00169643810 00169633910 00002831517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolog_flexpen_u-100,pen 00169643810 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen J1815 00169643810 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1817 J1815 00169643810 00169633910 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV
J1815 00169643810 00169633910 00088221905	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643810 00169633910 00088502005	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169643810 00169633910 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
00169643810 00169633910 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169643810 00169633910	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV OA AV
00169643890 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
Humalog_kwikpen,pen 00169643910 00169633910	Humalog Kwikpen Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815 00169643910 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
J1815 00169643910 00169633910 00002821517	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00169643910 00169633910 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV
Levemir_flextouch_u-100,pen J1815 00169643910 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169643910 00169633910 00169183711	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
S5571 00169750111 00169633910	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 ML Size Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169750111 00169633910 00002831517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00169750111 00169633910 00002831517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV
J1815 00169750111 00169633910 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
00169750111 00169633910 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
S5552 S5550 00169633910 00169183411	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Rapid Onset, 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00169633910	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169633910 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00169633910 00088221905	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
J1815 Humalog_kwikpen,pen 00169633910 00088222033	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
J1815 54569291800 00169633910	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00169633910	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
00169633910 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169633910 00002751101	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Humulin_r_reg_u-100,solution 00169633910	Humulin R Regular U-100 Insulin, Solution, Injection Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen J1815 00169633910 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169633910 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169633910 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Lantus_solostar_u-100,pen J1817 J1815 00169633910 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC HC ND ND	*****	N/A AV AV AV AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_u-100_aspart,solution Lantus_u-100,solution 00169633910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_u-100,solution J1815 00169633910	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00002821501	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
J1817 J1815 00169633910 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1817 J1815 00169633910 00088222033 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV
00169633910 00088222033 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen 00169633910 00002831517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1817 00169633910	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution J1815 00169633910	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
00169633910 00002831517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
00169633910 00002850101	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169633910 00002871517	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815 00169633910	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen J1815 Basaglar_kwikpen_u-100,pen 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
J1815 00169633910 00002873001	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_mix_70-30_u-100 ,solut J1815 00169633910	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00002879759	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
Toujeo_solostar_u-300,pen J1815 00169633910 00088221905	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
00169633910 00002879959	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00169633910 00002880301	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 00169633910 00002880501	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
00169633910 00002880559	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX	ND ND	*****	AV AV
00169633910 00088221905 00002880559	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169633910 00024586901	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169633910 00024586903	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1817 J1815 00169633910 00169183711	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169633910 00169183311 00088221905	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
S5550 J1815 00169633910 00088221905	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1815 00169633910 00169183311 00088222033	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169633910 00088502001	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169633910 00169183311 00088502005	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
S5550 00169633910	Insulin, Rapid Onset, 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
Levemir_flexpen,pen 00169643910 00169633910	Levemir Flexpen, Insulin Pen Levemir Flexpen, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A OA OA
J1815 54868605400 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_u-100,solution 00169633910 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Novolog_flexpen_u-100,pen J1815 00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A OA OA
J1815 00169633910 00002873059	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA
J1815 00169633910 00088221905 00002873059	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	OA OA OA OA
J1815 00169633910	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV OA
J1815 00169633910 00088222033	Injection, Insulin, Per 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
00169750111 00169643810	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
J1815 00169750111 00169643810	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
Lantus_solostar_u-100,pen 00169643810	Lantus Solostar U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A IP
J1815 00169643810 00002871517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169643810 00002879959	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00169643810 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
J1815 00169643810	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	IS IS
Lantus_solostar_u-100,pen 00169643810	Lantus Solostar U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A ED
00169643810 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
J1815 00169643810 00002821517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
J1815 J1815 00169643810	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED AV ED
J1817 J1815 00169643810	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED ED ED
J1815 00169643810 00169183311	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
Humalog_kwikpen,pen 00169643810	Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00169643810	Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND		N/A AV
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND		N/A N/A AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169643810 00002879959	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Levemir_flextouch_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen 00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
00169643810 00002751017	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00169643810 00002821517 00002751017	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169643810 00088221905 00002751017	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00169643810	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution J1815 00169643810	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
00169643810 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
J1815 00169643810 00169183311 00002821517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Levemir_u-100,solution J1815 00169643810	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00169643810 00002871517	Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Novolog_u-100_aspart,solution 00169643810	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution J1815 00169643810 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IS
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		ED
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IS
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		IS
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IS
J1815	Injection, Insulin, Per 5 Units	PX	HC		IS
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	IS
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		OA
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		OA
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		OA
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND		OA
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		*****
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		OA
00169643890	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		*****

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00169643890	Levemir Flextouch U-100 Insulin, Insulin Pen	PX	ND		ED
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	ED
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC		ED
S5550	Units	PX	HC		ED
Lantus_u-100,solution	Insulin, Rapid Onset, 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	ED
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC		ED
Levemir_flextouch_u-100,pen	Units Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	ED
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC		ED
S5550	Units	PX	HC		ED
J1815	Insulin, Rapid Onset, 5 Units	PX	HC		ED
	Injection, Insulin, Per 5 Units				
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC	*****	ED
Humalog_u-100,solution	Units Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC	*****	ED
J1815	Units	PX	HC		ED
Humalog_u-100,solution	Injection, Insulin, Per 5 Units	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous				
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC	*****	ED
J1815	Units	PX	HC		ED
00088222033	Injection, Insulin, Per 5 Units	PX	ND		ED
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
	Humalog U-100 Insulin, Solution, Subcutaneous				
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5	PX	HC	*****	ED
Lantus_u-100,solution	Units Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 Levemir_flextouch_u-100,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	ED N/A
S5551 Novolog_u-100_aspart,solution Levemir_u-100,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	ED N/A N/A
S5551 Novolin_n_nph_u-100 ,suspension	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	ED N/A
S5551 Novolog_u-100_aspart,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX	HC N/A	*****	ED N/A
Toujeo_solostar_u-300,pen S5551	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	RX PX	N/A HC	*****	N/A ED
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	ED IS
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	ED AV
S5551 00088222033	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
00169750111 00169643910	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	IP
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		IP
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		ED
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		ED
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		ED
00169643910	Levemir Flexpen, Insulin Pen	PX	ND	*****	ED
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		ED
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169643910	Levemir Flexpen, Insulin Pen	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169643910 00169183311	Levemir Flexpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
J1815 00169643910	Injection, Insulin, Per 5 Units Levemir Flexpen, Insulin Pen	PX PX	HC ND	*****	ED OA
00169750111 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	ND ND	*****	IPX IP
00169750111 00002831517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	IPX IPX
00169750111 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IPX IPX
Humalog_kwikpen,pen 00169750111	Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP
00169750111 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
J1815 00169750111 00088222033 00002751001	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00169750111 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00088222033 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169750111 00002751101	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
J1815 Humulin_r_reg_u-100,solution 00169750111 00088222033 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX PX	HC N/A ND ND ND	*****	IP N/A IP IP IP
Lantus_solostar_u-100,pen 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP
00169750111 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
J1815 00169750111 00002821501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00088222033 00002821501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169750111 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IPX IP IPX
J1815 00169750111 00002831501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169750111 00002831517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
00169750111 00002871501 00002871501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX PX PX	ND ND ND	*****	IP IP IP
Novolog_u-100_aspart,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
Tresiba_flextouch_u-200,pen J1815 00169750111	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	IPX IP
J1817 J1815 00169750111 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1817 J1815 00169750111 00169183311	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
00169750111 00169183411 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	ED IS
00169750111 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	ND ND	*****	ED AV
J1815 J1815 00169750111 00169750111	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV ED ED AV
00169750111 00169750111 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV ED AV
J1815 Humalog_kwikpen,pen 00169750111	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
S5553 00169750111	Insulin, Long Acting; 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Lantus_u-100,solution J1815 00169750111	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED
J1815 00169750111 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169750111 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV ED AV
Levemir_flextouch_u-100,pen J1815 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED
J1815 00169750111 00002871517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	ED ED ED
Novolog_70-30flexpen_u-100 ,pen J1815 00169750111	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Tresiba_flextouch_u-100,pen 00169750111	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
J1815 Apidra_solostar_u-100,pen 00169750111	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 J1815 00169750111	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	ED AV ED
J1815 00169750111 00169183411 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	ED ED ED ED
J1815 00169750111 00169183411	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00169750111	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	AV ED
J1815 00169750111 00088222033	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV ED AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169750111 00169183411	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	ED ED
S5552 00169750111 00169183411	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX RX PX	N/A N/A N/A ND	*****	N/A N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169750111 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_u-100,solution J1815 Humalog_kwikpen,pen 00169750111 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humalog_kwikpen,pen 00169750111 00088222033	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humalog_kwikpen,pen 00169750111 00169183311	Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
J1815 Humalog_mix_75-25_kwikpen ,pen 00169750111	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Humulinr_u500_conc_kwikpen ,pen 00169750111	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169750111 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169750111 00002751101	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 Humulin_r_u-500_conc,solution 00169750111	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169750111 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
Lantus_solostar_u-100,pen J1815 00169750111 00169183311 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
Lantus_solostar_u-100,pen J1817 00169750111	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen 00169750111 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Lantus_u-100,solution J1817 00169750111	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution 00169750111 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
J1817 00169750111 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Levemir_flextouch_u-100,pen J1815 00169750111 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Levemir_flextouch_u-100,pen J1817 00169750111	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution 00169750111	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1815 00169750111 00088222033	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00169750111 00002831501	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
00169750111 00088222033 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169750111 00002831517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169750111 00088222033 00002831517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolin_7030_u-100 ,suspension 00169750111	Novolin 70/30 U-100 Insulin, Suspension Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension J1815 00169750111	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen J1815 00169750111	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1815 00169750111	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen J1815 Basaglar_kwikpen_u-100,pen 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_flexpen_u-100,pen J1817 00169750111	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution J1817 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Toujeo_solostar_u-300,pen 00169750111	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen J1815 00169750111	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1817 00169750111	Tresiba Flextouch U-200, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 Basaglar_kwikpen_u-100,pen 00169750111	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Basaglar_kwikpen_u-100,pen 00169750111	Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00169750111 00169183411 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
S5551 Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169750111	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
S5551 Levemir_flextouch_u-100,pen 00169750111	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX	HC HC	*****	AV OA
S5553 S5552 S5551	Insulin, Long Acting; 5 Units Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX PX PX	HC HC HC	*****	AV AV AV
S5552 S5551 Novolog_70-30flexpen_u-100,pen	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
S5552 S5551 S5550	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin, Rapid Onset, 5 Units	PX PX PX	HC HC HC	*****	AV AV AV
S5553 S5551 Humalog_kwikpen,pen	Insulin, Long Acting; 5 Units Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
S5551 Lantus_u-100,solution Humalog_kwikpen,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		AV
Lantus_solostar_u-100,pen		RX	N/A		N/A
Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		AV
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		AV
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 Humulinr_u500_conc_kwikpen ,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
S5551 J1815 00002821517 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
S5551 J1815 00088222033 00002821517 00002751017	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV
S5551 Humulin_n_nph_u-100 ,suspension	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	AV N/A
S5551 J1817 Humulin_r_u-500_conc,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	AV AV N/A
S5551 Novolog_u-100_aspart,solution Lantus_u-100,solution	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5551 Levemir_u-100,solution Levemir_flexpen,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
S5551 Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
S5551 Novolog_flexpen_u-100,pen	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Tresiba_flextouch_u-100,pen S5551	Tresiba Flextouch U-100, Insulin Pen Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	RX PX	N/A HC	*****	N/A AV
S5551 J1815	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV ED
S5551 J1817	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	AV AV
S5551 00088221905	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
Lantus_u-100,solution Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalogjr_kwikpen_u100 ,halfpen Humalog_mix_75-25_kwikpen ,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Levemir_flextouch_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humalogjr_kwikpen_u100 ,halfpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalogjr_kwikpen_u100 ,halfpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalogjr_kwikpen_u100 ,halfpen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalogjr_kwikpen_u100 ,halfpen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Humalogjr_kwikpen_u100 ,halfpen Afrezza,cartridge_with_inhaler	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalogjr_kwikpen_u100 ,halfpen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_flextouch_u-100,pen Humalogjr_kwikpen_u100 ,halfpen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalogjr_kwikpen_u100 ,halfpen Apidra_solostar_u-100,pen	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Apidra Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humalogjr_kwikpen_u100 ,halfpen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Humalogjr_kwikpen_u100 ,halfpen	Novolog Penfill U-100 Insulin, Cartridge Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Novolog_penfill_u100,cartridge Humalogjr_kwikpen_u100 ,halfpen Basaglar_kwikpen_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815 Humalogjr_kwikpen_u100 ,halfpen	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Xultophy_10036,pen Humalogjr_kwikpen_u100 ,halfpen	Xultophy 100/3.6, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	RX RX	N/A N/A	*****	N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution 00169750111 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humalog_u-100,solution 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	OA N/A OA
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen 00169750111 00088221905	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Novolog_penfill_u100,cartridge J1817 00169750111	Novolog Penfill U-100 Insulin, Cartridge Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A OA OA
Novolog_u-100_aspart,solution J1817 J1815 00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX PX PX PX	N/A HC HC ND	*****	N/A OA ED OA
J1817 J1815 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	OA ED OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 00169750111 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
J1815 35356010200	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
35356010200 00088502101	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
Humulin_r_reg_u-100,solution 35356010200	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
J1815 54868462600 35356010200 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Tresiba_flextouch_u-200,pen S5551	Tresiba Flextouch U-200, Insulin Pen Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units	RX PX	N/A HC	*****	N/A OA
35356010200	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	*****	IP
S5553 S5552 S5550	Insulin, Long Acting; 5 Units Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Rapid Onset, 5 Units	PX PX PX	HC HC HC	*****	IP IP IP
S5552 S5550	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Insulin, Rapid Onset, 5 Units	PX PX	HC HC	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC	*****	IS
47918088236	Afrezza, Cartridge With Inhaler	PX	ND	*****	AV
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	ED
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units	PX	HC		ED
S5550	Insulin, Rapid Onset, 5 Units	PX	HC		ED
S5552 Humalog_u-100,solution	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5552 Humalog_u-100,solution 00002831501	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
S5552 Humalog_u-100,solution 00169183311	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
S5552 Humulin_n_nph_kwikpen,pen	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
S5552 Lantus_u-100,solution	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5552 00002821501	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5552 00002831517	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
S5552 J1815	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV ED
S5552 J1815 J1815	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX PX	HC HC HC	*****	AV ED AV
S5552 00169183311	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV
J1817 Humalog_kwikpen,pen 00169750111	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	OA N/A OA
Toujeo_solostar_u-300,pen S5571 S5552 Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A
J1815 Humalog_kwikpen,pen 49999099410 00002821517 00002751001	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX PX	HC N/A ND ND ND	*****	AV N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 49999099410	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC		*****
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_50-50_u-100 ,susp	Humalog Mix 50-50 Insulin U-100, Suspension	RX	N/A	*****	N/A
Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_50-50_kwikpen ,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwi	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen Humalog_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Humalog_mix_50-50_kwikpen ,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
S5553 Humalog_kwikpen,pen	Insulin, Long Acting; 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX RX	HC N/A	*****	OA N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 54569532100 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_u-100,	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Humalog_u-100,cartridge Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kw	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_7	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_7	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpe	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Humalog_kwi	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pe	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humalog_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution Humalog_mix_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_pen,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_mix_75-25u-100,susp Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25_kw	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_mix	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_mix_75-2	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpe	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen Humalo	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Humalog_	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX RX	HC N/A N/A N/A	*****	AV N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,p	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen Apidra_solostar_u-1	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_s	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_mix_75-25	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpe	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Huma	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_k	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_k	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikp	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25_kwikpen ,pen Humal	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_mix_75-25_kwikpen ,pen Humalog_kwikpen,pen Apidra_solostar_u-1	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humalog_u-100,solution Humalog_u-100,cartridge Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humalog_	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,cartridge Humalog_kwikpen,p	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,cartridge Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,cartridge Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_u-100,cartridge Humalog_kwikp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_n_nph_u-100,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulinr_u500_conc_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
,pen	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humulin	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen				
Lantus_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100_kwikpen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-1	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog Kwikpen Insulin, Insulin Pen				
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,					
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog Kwikpen Insulin, Insulin Pen				N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution Humalog_kwikpen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_u-100,so	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_u-100,solution Humalog_kwikpen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikp	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_kwikp	Tresiba Flextouch U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikpen,p	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_r	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikp	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Hum	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-1	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution Humalog_kwikpen,p	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX PX RX RX	N/A N/A HC N/A N/A	*****	N/A N/A ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,s	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,p	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100,pen Lantus_s	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX RX	N/A N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 Humalo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A ED N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen~	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen~	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flextouch	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_fle	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX RX RX RX RX	N/A N/A N/A N/A N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solut	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,s	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen B	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX RX	N/A N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution Hu	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Humalog_u-100,solu	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flexpen,pen Humalog_u-100,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solu	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX RX	N/A N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikp	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pe	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pe	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humalog_u-100,solution Humalog_kwikp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen Afrezza,cartridge_with_i	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humalog_u-100,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_kwikpen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-1	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution Humalog_kwik	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_u-1	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humalog_u-100,solution Humalog_kwikpen,pen Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-100,solution Humalog_kwikpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humalog_u-100,solution Humalog_kwikpen,pen Fiasp_flextouch_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Huma	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humalog_kw	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
,pen Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A	*****	N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Humulin_7030_u-100_kwikpen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
,pen	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humulin_7030_pen,pen Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humulin_7030_pen,pen Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen Humulin_7030_pen,pen Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_7030_pen,pen Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_pen,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_7030_pen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
J1817 Humalog_kwikpen,pen 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	OA N/A OA
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A IP N/A IP IP
J1815 Humalog_kwikpen,pen 00002821517 00002821501 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX PX	HC N/A ND ND ND	*****	IP N/A IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humalog_kwikpen,pen 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen 00002751017	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED
J1815 Humalog_kwikpen,pen 00002751017	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen 00002751017	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033 00002831517 00002821517 0000	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00002831501 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_u-100,solution Humalog_kwikpen,pen 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00002821517	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND		AV AV
	Humalog U-100 Insulin, Solution, Subcutaneous				
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002821517	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND		AV AV
	Humalog U-100 Insulin, Solution, Subcutaneous				
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00002751017	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_kwikpen,pen 00002751017	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen 00002751017	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen 00088222033 00002751017	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humal	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humal	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humalog_kwikpen,p	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humalog_	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_kwikpen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
J1815 Humalog_kwikpen,pen 00002751101	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_k	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwik	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_pen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Humulin N Pen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_k	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_kwik	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalo	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humalog_	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	J1815 Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	IPX N/A N/A
J1815 Humulin_7030_u-100_kwikpen ,pen Humalog_kwikpen,pen	J1815 Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humul	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Hum	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpe	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flectouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwik	Levemir Flectouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwi	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX RX	HC N/A N/A N/A	*****	AV N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100,suspension Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_kwik	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_n_nph_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
J1815 Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen 00002831517	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX RX RX PX	HC N/A N/A ND	*****	ED N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_kwik	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_n_nph_kwikpen,pen Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Huma	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humal	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_n_pen,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00002771201	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_k	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwi	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_k	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpe	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_r	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_kwik	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-1	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,p	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		ED
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection				
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_kwikpen,pen	Humalog Kwikpen Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088221905 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solost	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen J1815 Humalog_	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A AV N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikp	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikp	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-10	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-10	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_kw	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_kwikpe	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00002871517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033 00002871517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_kwikpen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Toujeo Max U-300 Solostar, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A ED N/A ED ED
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088221905 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A IP N/A IP
Lantus_solostar_u-100,pen J1815 J1815 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX RX	N/A HC HC N/A	*****	N/A ED AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169320111 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169183302	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169183411	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_kwikpen,pen 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A OA N/A OA
Lantus_solostar_u-100,pen J1817 Humalog_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A OA N/A
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humalog_kwikpen,pen 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
S5550 Lantus_solostar_u-100,pen Humalog_kwikpen,pen	Insulin, Rapid Onset, 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flext	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_kwikpen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_u-100,solution Lantus_u-100,solution Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_kwikpen,pen 00002850101	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_kwikp	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_kwikpen,	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_kwik	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_kwikpen,p	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Soliqua_10033,pen Lantus_u-100,solution Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Lantus_u-100,solution Humalog_kwikpen,pen	Toujeo Max U-300 Solostar, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humalog_kwikpen,pen 00002879959	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_u-100,solution J1817 J1815 Humalog_kwikpen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX RX	N/A HC HC N/A	*****	N/A ED ED N/A
Lantus_u-100,solution Humalog_kwikpen,pen Fiasp_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_kwikpen,pen 00002821501	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Humalog_kwikpen,pen 00088221905 00002821501	Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexpen,pen Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Humalog_kwikpen,pe	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen Humalog_kwikpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flexpen,pen Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Humalog_kwikpen,pen 00002879959	Levemir Flexpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_flexpen,pen J1817 Humalog_kwikpen,pen	Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution J1815 Humalog_kwikpen,pen 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A OA N/A OA
J1815 Humalog_kwikpen,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	IP N/A IP
Toujeo_solostar_u-300,pen J1815 Humalog_kwikpen,pen 00002821517	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Tresiba_flextouch_u-200,pen J1815 Humalog_kwikpen,pen 00002821517	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
J1815 Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	ED N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00088222033 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_kwikpe	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00002831517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Humalog_kw	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humalog_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00002871517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_kw	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwikpen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_kwi	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_max_u-300_solostar ,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen	Toujeo Max U-300 Solostar, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-10	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_kwi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00169183711	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Levemir_flextouch_u-100,pen J1815 Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A OA N/A
Levemir_flextouch_u-100,pen J1817 Humalog_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humalog_kwikpen,pen 00169183311	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A ED
J1815 Humalog_kwikpen,pen 00002821591	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_kwikp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_u-100,solution Humalog_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 Humalog_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Levemir_u-100,solution Humalog_kwikpen,pen Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1815 Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Levemir_u-100,solution J1815 Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Levemir_u-100,solution Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution J1817 Humalog_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen J1815 J1815 Humalog_kwikpen,pen 00169183311 00002831501	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX PX PX RX PX	N/A HC HC N/A ND	*****	N/A ED AV N/A ED
Humalog_kwikpen,pen 00002831517	Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A ED
Humalog_kwikpen,pen 00002831517	Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
J1815 Humalog_kwikpen,pen 00002831517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humalog_k	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humalog_kwikp	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_7030_u-100 ,suspension Humalog_kwikpen,pen	Tresiba Flextouch U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815 Humalog_kwikpen,pen	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen J1815 Humalog_kwikpen,pen 00002850101	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00002850101	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen Basaglar_kwikpe	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Soliqua_10033,pen Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_n_nph_u-100 ,suspension Humalog_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1815 Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension J1815 Humalog_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humalog_kwikpen,pen 00002871501 00002871501	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen Afrezza,cartridge_with_inhaler	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Soliqua_10033,pen Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Soliqua_10033,pen Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humalog_kwikpen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Xultophy_10036,pen Novolog_flexpen_u-100,pen Humalog_kwikpen,pen	Xultophy 100/3.6, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_kwi	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_kwikpen,pen Apidra_u-100,soluti	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_max_u-300_solostar ,pen J1815 Humalog_kwikpen,pen	Toujeo Max U-300 Solostar, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen 00002879959	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Toujeo_solostar_u-300,pen J1815 Humalog_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A OA N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humalog_kwikpen,pen 00088222033	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Xultophy_10036,pen Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humalog_kwikpen,pen 00088221905	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen Fiasp_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen 00169266015	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Tresiba Flextouch U-100, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_kwikpen,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_kwikpen,pen 00002879901	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00002879959	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	ED N/A ED
J1817 J1815 Humalog_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	IP IP N/A
J1815 Humalog_kwikpen,pen 00088221905	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 Humalog_kwikpen,pen 00088222033	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 Humalog_kwikpen,pen 00169183311 00088221905	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
J1815 Humalog_kwikpen,pen 00088502101	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humalog_kwikpen,pen 00169183411	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humalog_kwikpen,pen 00169183711	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Humalog_kwikpen,pen 00024586903	Humalog Kwikpen Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_kwikpen,pen 00169183311	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Humalog_kwikpen,pen 00088221905	Humalog Kwikpen Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A ED
Humalog_kwikpen,pen 00088222033	Humalog Kwikpen Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Humalog_kwikpen,pen 00169183311	Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Humalog_kwikpen,pen 00169183311	Humalog Kwikpen Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 49999099310	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
S5552 Humalog_u-100,solution	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	OA N/A
S5552 Lantus_u-100,solution	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	OA N/A
S5552 J1815	Insulin, Intermediate Acting (Nph Or Lente); 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	OA ED
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		*****
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		*****
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC		*****
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
50090049700	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
S5553	Insulin, Long Acting; 5 Units	PX	HC	*****	IP
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553 S5550 00002821517	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	IP IP IP
S5553 Humalog_mix_75-25_kwikpen ,pen	Insulin, Long Acting; 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IS N/A
J1815 54569231800	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	IPX IPX
J1815 54569231800	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	IP IP
54569231800	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	ED
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 54569231800	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
54569231800 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV ED
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 54569231800	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
54569231900	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED
J1815 54569231900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution 54569231900	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Toujeo_solostar_u-300,pen J1815 54569231900	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 54569231900	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 54569231900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	OA AV
S5553 S5553	Insulin, Long Acting; 5 Units Insulin, Long Acting; 5 Units	PX PX	HC HC	*****	AV ED
S5553 S5553 J1815 J1815	Insulin, Long Acting; 5 Units Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX PX PX	HC HC HC HC	*****	ED AV ED AV
S5571 S5553	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Insulin, Long Acting; 5 Units	PX PX	HC HC	*****	ED ED
S5553 00002751001	Insulin, Long Acting; 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
S5553 Levemir_u-100,solution 00002751017	Insulin, Long Acting; 5 Units Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553 J1815 00088222033 00002751017	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	ED ED ED ED
S5553 Novolog_flexpen_u-100,pen Levemir_flexpen,pen	Insulin, Long Acting; 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
S5553 S5550 Levemir_u-100,solution	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	ED ED N/A
S5553 S5550 J1815	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units	PX PX PX	HC HC HC	*****	ED ED ED
S5553 00088221905	Insulin, Long Acting; 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	ED ED
54569291800 00002879901 00002821517	Novolin 70/30 U-100 Insulin, Suspension Humalog Kwipen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
S5553 Humalog_u-100,solution	Insulin, Long Acting; 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5553 J1815 00002751001	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	AV AV AV
S5553 J1815 00088222033 00002751001	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
S5553 J1815 00002751017	Insulin, Long Acting; 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5553 Lantus_u-100,solution J1815	Insulin, Long Acting; 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	PX RX PX	HC N/A HC	*****	AV N/A AV
S5553 S5550 Levemir_flexpen,pen	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Levemir Flexpen, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
S5553 Novolin_7030_u-100 ,suspension	Insulin, Long Acting; 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	AV N/A
Tresiba_flextouch_u-100,pen S5553 S5550	Tresiba Flextouch U-100, Insulin Pen Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
S5553 S5550 J1815	Insulin, Long Acting; 5 Units Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units	PX PX PX	HC HC HC	*****	AV AV AV
S5553 J1817	Insulin, Long Acting; 5 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	AV AV
Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_kwikpen ,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp Humalog_mix_50-50_	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Humulin_n	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-5	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Huma	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_kwi	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen Humalog_mix_50	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwipen, Insulin Pen Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_kwipen,pen Humalog_mix_50-5	Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwipen, Insulin Pen Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_kwipen,pen Humalog_mix_50-50_kwipen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwipen, Insulin Pen Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwipen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humalog_mix_50-50_kwipen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_50-50_kwipen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwipen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_mix_50	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_mix_50-50_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_flexpen,pen Lantus_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humalog_mix_50-50_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_mix_50-50_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_mix_50-50_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Humalog_mix_50-50_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humalog_mix_50-50_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_50-50_kwikpen ,pen 00002879859	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_penfill_u100,cartridge Humalog_mix_50-50_kwikpen ,pen	Novolog Penfill U-100 Insulin, Cartridge Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humalog_mix_50-50_kwikpen ,pen 00002879801	Humalog Mix 50-50 Kwikpen, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Xultophy_10036,pen Humalog_mix_50-50_kwikpen ,pen	Xultophy 100/3.6, Insulin Pen Humalog Mix 50-50 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 Humalog_mix_50-50_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
J1817 Humalog_mix_50-50_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Mix 50-50 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
54569383300	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
54569383300 00169183711	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	IP IP
54569383300	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 54569383300	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
S5553 Humalog_u-100,solution	Insulin, Long Acting; 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	OA N/A
S5553 J1817	Insulin, Long Acting; 5 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	OA OA
J1815 54569532100 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 54569532100	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	HC ND	*****	AV AV
54569560500	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
J1815 54569560500	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
54868277700 54569630000 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 54569646200 00002751017	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
54868011200 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
54868011200	Levemir U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
54868142901	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 54868142901	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
S5560 Levemir_flexpen,pen	Insulin Delivery Device, Reusable Pen; 1.5 Ml Size Levemir Flexpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Humalog_mix_50-50_u-100 ,susp Basaglar_kwikpen_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Humalog_mix_50-50_u-100 ,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100_kwikpen ,pen Humalog_mix_50-50_u-100 ,susp	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_mix_50-50_u-100 ,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_50-50_u-100 ,susp 00002751201	Humalog Mix 50-50 Insulin U-100, Suspension Humalog Mix 50-50 Insulin U-100, Suspension	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_50-50_u-100 ,susp Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_mix_50-50_u-100 ,susp	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humalog_mix_50-50_u-100 ,susp 00002821517	Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_50-50_u-100 ,susp	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_mix_50-50_u-100 ,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_mix_50-50_u-100 ,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Humalog_mix_50-50_u-100 ,susp	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humalog_mix_50-50_u-100 ,susp	Soliqua 100/33, Insulin Pen Humalog Mix 50-50 Insulin U-100, Suspension	RX RX	N/A N/A	*****	N/A N/A
J1817 Humalog_mix_50-50_u-100 ,susp	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Mix 50-50 Insulin U-100, Suspension	PX RX	HC N/A	*****	ED N/A
Humalog_mix_50-50_u-100 ,susp Fiasp_flextouch_u-100,pen	Humalog Mix 50-50 Insulin U-100, Suspension Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 54868274600 00088222033 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
54868274600	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	AV
54868277700	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX	ND	*****	ED
J1815 54868277700	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
J1815 54868277700 00088222033 00002821517	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 54868277700	Injection, Insulin, Per 5 Units Novolog U-100 Insulin Aspart, Solution, Subcutaneous	PX PX	HC ND	*****	OA OA
J1815 54868361900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IPX IPX
J1815 54868361900	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IP IP
54868438100	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	*****	ED
54868462600	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	AV
J1815 54868462600	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
J1815 54868510800	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
54868510800 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
54868520100	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
S5561 Novolog_mix_70-30_u-100 ,solut	Insulin Delivery Device, Reusable Pen; 3 ML Size Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	ED N/A
S5561 J1815	Insulin Delivery Device, Reusable Pen; 3 ML Size Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	ED ED
54868532701	Novolog Mix 70-30flexpen U-100, Insulin Pen	PX	ND	*****	ED
J1817 54868583600	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Cartridge	PX PX	HC ND	*****	ED ED
54868583600	Humalog U-100 Insulin, Cartridge	PX	ND	*****	AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 54868583600	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	PX PX	HC ND	*****	AV AV
S5561 Novolog_flexpen_u-100,pen	Insulin Delivery Device, Reusable Pen; 3 ML Size Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
S5561 J1817	Insulin Delivery Device, Reusable Pen; 3 ML Size Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	AV AV
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-100	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_7	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_pen,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Humulin N Pen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp Humalog_	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mi	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humalog_mix_75-25u-100,susp Humalog_mix_75-25_k	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-2	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp Humalo	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen Basagla	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humalog_mix_75-25u-100,susp Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Humalog_u-100,solution Humalog_mix_75-25u-100,susp 00002751101 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_mix	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_mix_7	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humulin_7030_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25u-100,susp Basaglar_kwikp	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution Humalog_mix_75-25u-	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_75-25u-100,susp Basaglar_kwikpe	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solution Humalog_mix_75-25u-100,s	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humalog_u-100,solution Humalog_mix_7	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Humalog_u-100,solution Humalog_mix_75-25u-100,susp	Tresiba Flextouch U-200, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25u-100,susp 00002751001	Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Humulin_r_reg_u-100,solution Humulin_7030_pen,pen Humalog_mix_75-25u-100,susp	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25u-100,susp 00002879759 00002751017	Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1815 Humalog_mix_75-25u-100,susp 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_7	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_75-25u-100,susp 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	PX RX PX	HC N/A ND	*****	IP N/A IP
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_mix_75-25u-10	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_pen,pen Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX RX RX RX	HC N/A N/A N/A	*****	AV N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX RX RX	HC N/A N/A	*****	ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humalog_mix_75-25u-100,susp	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humalog_mix_7	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humalog_mix_75-25u-100,susp Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_u-100,solution Humalog_mix_75-25u-100,susp	Tresiba Flextouch U-200, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_flexpen,pen Humalog_mix_75-25u-10	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humalog_mix_75-25u	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humalog_mix_75-25u-100,susp 00002821517	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 Humalog_mix_75-25u-100,susp	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humalog_mix_75-25u-100,susp	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humalog_mix	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Huma	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Humalog_mix_75-25u-100,susp Basaglar_kwikpen_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humalog_mix_75-25u-100,susp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humalog_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_mix_75-25u-100,susp	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Xultophy_10036,pen	Xultophy 100/3.6, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A		N/A
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		AV
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Humalog_mix_75-25u-100,susp	Humalog Mix 75-25(U-100)insulin, Suspension	RX	N/A	*****	N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
54868588300	Levemir Flexpen, Insulin Pen	PX	ND	*****	ED
54868588300	Levemir Flexpen, Insulin Pen	PX	ND	*****	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
S5561	Insulin Delivery Device, Reusable Pen; 3 ML Size	PX	HC	*****	OA
S5561	Insulin Delivery Device, Reusable Pen; 3 ML Size	PX	HC	*****	OA
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
54868623100	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED
54868623100	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
55045350601	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
55045350601	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
55045350601	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	AV
68258889903	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
68258889903	Novolog Flexpen U-100 Insulin, Insulin Pen	PX	ND	*****	AV
S5565	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 150 Units	PX	HC	*****	AV
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,cartridge	Humalog U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwi	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_u-100,s	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Humalog_mix_75-25_kwi	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humalog_u-100,solution Humalog_mix_75-25_	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humalog_u-100,solution Humalog_mix_75-25_k	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_75-25_kwikpen ,pen 00088222033 00002751001	Humalog Mix 75-25 Kwikpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_solostar_u-100,pen Humulin_7030_pen,pen Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_7030_pen,pen Humalog_mix_75-25_kwikpen ,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_pen,pen Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen Admelog_u-100_lispro,solution	Humalog Mix 75-25 Kwikpen, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
J1815 J1815 Humalog_mix_75-25_kwikpen ,pen 00169183311 00002751017	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX PX PX	HC HC N/A ND ND	*****	AV ED N/A AV ED
Humalog_mix_75-25_kwikpen ,pen 00002751017	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_mix_75-25_kwikpen ,pen 00088222033 00002821517 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX PX	HC N/A ND ND ND	*****	AV N/A AV AV AV
Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension Hum	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen Basagl	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Huma	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen 00002751101	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	RX PX	N/A ND	*****	N/A ED
J1815 Humalog_mix_75-25_kwikpen ,pen 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 Humalog_mix_75-25_kwikpen ,pen 00002751101	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_mix_75-25_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humal	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_mix	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humalog_mix_75-25_kwikpen ,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_mix_75-25	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humalog_mix_	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_pen,pen Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_75	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Humulin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Lantus_solostar_u-100,pen Humalog_mix_75-25_kwikpen ,pen Afrezza,cartridge_with_inhaler	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_mix_	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	HC		IPX
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_mix_75-25_kwikpen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_mix_75-25_kwikpen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC		
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		
Humalog_mix_75-25_kwikpen ,pen 00002821501	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
J1815	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	AV
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen 00002821517	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
J1815	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IP
Humalog_mix_75-25_kwikpen ,pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		
Humalog_mix_75-25_kwikpen ,pen 00002821517	Humalog Mix 75-25 Kwikpen, Insulin Pen	RX	N/A		

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_mix_75-25_kwikpen ,pen 00002821517	Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 Humalog_mix_75-25_kwikpen ,pen 00002821517	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_mix_75-25_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_mix_75-2	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_u-100,solution J1815 Humalog_mix_75-25_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Huma	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humalog_m	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Humalog_mix_75-25_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_mix_75-25_kwikpen ,pen Afrezza,cartridge_with_inhaler	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humalog_mix_75-25_kwikpen ,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_7	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humalog_mix_75-25_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humalog_mix_75-25_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog Mix 75-25 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_mix_75-25_kwikpen ,pen 00002879901 00002879701	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Tresiba_flextouch_u-200,pen Humalog_mix_75-25_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humalog_mix_75-25_kwikpen ,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_mix_75-25_kwikpen ,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Mix 75-25 Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_mix_75-25_kwikpen ,pen 00002879959	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_mix_75-25_kwikpen ,pen 00002879959	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IP N/A
J1815 J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX RX	HC HC N/A	*****	ED AV N/A
J1815 Humalog_mix_75-25_kwikpen ,pen 00088222033	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humalog_mix_75-25_kwikpen ,pen 00169183311	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humalog_mix_75-25_kwikpen ,pen	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	OA N/A
J1817 Humalog_mix_75-25_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	ED N/A
Humalog_mix_75-25_kwikpen ,pen 00169183311	Humalog Mix 75-25 Kwikpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
S5550 Humalog_mix_75-25_kwikpen ,pen	Insulin, Rapid Onset, 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5565	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 150 Units	PX	HC	*****	OA
Humulinr_u500_conc_kwikpen ,pen Humalog_u-100,solution Humalog_u-100,cartridge	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_pen,pen Humalog_u-100,solution Humalog_u-100,cartridge	Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Humalog_u-100,cartridge Afrezza,cartridge_with_inhaler	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Humalog_u-100,cartridge	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humalog_u-100,cartridge 00088222033 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	IP N/A IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Humalog_u-100,cartridge	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,cartridge	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge	Tresiba Flextouch U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Humulin_n_nph_u-100 ,suspension Humalog_u-100,cartridge Basaglar_kwipen_u-100,pen	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_pen,pen Humalog_u-100,cartridge	Novolin N Nph U-100 Insulin, Suspension Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humalog_u-100,cartridge	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,cartridge 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,cartridge	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,cartridge Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,cartridge	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Lantus_solostar_u-100,pen Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humalog_u-100,cartridge	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_u-100,cartridge	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Humalog_u-100,cartridge	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1817 J1815 Humalog_u-100,cartridge	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A
Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 Humalog_u-100,cartridge	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,cartridge	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen Humalog_u-100,cartridge	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Levemir_flextouch_u-100,pen J1815 Humalog_u-100,cartridge	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_flextouch_u-100,pen Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humalog_u-100,cartridge	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_u-100,cartridge	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humalog_u-100,cartridge	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_u-100,solution Humalog_u-100,cartridge Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_u-100,cartridge	Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Novolog_flexpen_u-100,pen J1815 Humalog_u-100,cartridge	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Soliqua_10033,pen Humalog_u-100,cartridge	Soliqua 100/33, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Toujeo_max_u-300_solostar ,pen Humalog_u-100,cartridge	Toujeo Max U-300 Solostar, Insulin Pen Humalog U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-100,pen Humalog_u-100,cartridge Fiasp_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Cartridge Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,cartridge Fiasp_flextouch_u-100,pen	Humalog U-100 Insulin, Cartridge Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1817 Humalog_u-100,cartridge	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Cartridge	PX RX	HC N/A	*****	OA N/A
S5566	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 300 Units	PX	HC	*****	OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5570	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size	PX	HC	*****	IP
S5570 Levemir_flextouch_u-100,pen	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size Levemir Flextouch U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
S5570 Novolog_u-100_aspart,solution J1815	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units	PX RX PX	HC N/A HC	*****	AV N/A AV
Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humul	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Humalo	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
,pen	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,soluti					
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
,pen	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution					
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A		N/A
,pen	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution					
Humulinr_u500_conc_kwikpen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX	N/A	*****	N/A
,pen	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Basaglar_kwikpen_u-100,pen					
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002821501	Humulin R Regular U-100 Insulin, Solution,	PX	ND		AV
00002751001	Injection	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut J1815 Humalog_u-100,solution 00002751001	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen Humalog_u-100,solution	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_7030_pen,pen Humalog_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_7030_pen,pen Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution 00088221905 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Lantus_u-100,solution Humalog_u-100,solution 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A OA
Lantus_u-100,solution J1815 Humalog_u-100,solution 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A OA N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution 00169183411 00002751001	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
Humalog_u-100,solution 00088221905 00002751001	Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A OA OA
Lantus_u-100,solution J1815 Humalog_u-100,solution 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A IP N/A IP
Lantus_u-100,solution J1815 Humalog_u-100,solution 00088222033 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A IP N/A IP IP
J1815 Humalog_u-100,solution 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	IP N/A IP
J1815 Humalog_u-100,solution 00088222033 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	IP N/A IP IP
Lantus_u-100,solution Humalog_u-100,solution 00002751017 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A ED AV
Levemir_u-100,solution Humalog_u-100,solution 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A	
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		ED	
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED	
Humalog_u-100,solution Basaglar_kwikpen_u-100,pen 00088222033 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A ED ED	
Humalog_u-100,solution 00088222033 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND		N/A ED ED	
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00002751017	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND		*****	N/A N/A AV
Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00002831517 00002751017	Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND			N/A N/A AV AV
Humulin_r_u-500_conc,solution Humalog_u-100,solution 00002751017	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****		N/A N/A AV
Lantus_solostar_u-100,pen Humalog_u-100,solution 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND		*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV	
Humalog_u-100,solution 00088222033 0000	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND		N/A AV	
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC		*****	N/A AV
Humalog_u-100,solution 00088222033 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND			N/A AV AV
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC			*****
Humalog_u-100,solution 00002821501 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	N/A AV AV		
Lantus_u-100,solution J1817 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX PX	N/A HC HC	*****		
Humalog_u-100,solution 00002821517 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND		N/A AV	
J1815	Injection, Insulin, Per 5 Units	PX	HC		*****	
Humalog_u-100,solution 00002821517 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND			N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution Humalog_u-100,solution 00002751017	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_u-100,solution 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humalog_u-100,solution 00088222033	Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100_kwikpen ,pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX	N/A		N/A
Humulin_70	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A		N/A
Humulin_n_nph_u-100 ,suspension	Injection	RX	N/A		N/A
Humulin_7030_	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	N/A	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Hum	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Humalo	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,soluti	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_7030_u-100 ,suspension Humalog_u-100,	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humalog_u-10	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humal	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humulin_7030_u-100 ,suspension Humalog	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	IP N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_7030_u-100_kwikpen ,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humalog_u-100,solution Apidra_u-100,so	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_kwikpen,pen Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Humalog_u-100,solution 00002751601	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100,so	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension Humalog_u-100,s	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolin_7030_u-100	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_n_nph	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension Humalog_u-100,solut	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_u-100,solution	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_n_nph_u-100	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
,suspension Humalog_u-1					
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Humulin_n_nph_u-100	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humalog_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	PX	ND		ED
00002821501	Injection				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-100	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humalo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution 00002831501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Humal	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_u-100 ,suspension Humalog	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humalog_u-	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX RX	HC HC N/A N/A	*****	IP IPX N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	OA N/A N/A
J1817 Humulin_n_nph_u-100 ,suspension Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
J1815 Humulin_n_pen,pen Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-10	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-100,	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humalog_u-10	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution J1815 Humulin_r_re	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A ED N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,s	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,so	Tresiba Flextouch U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX RX PX	N/A HC N/A N/A ND	*****	N/A AV N/A N/A AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-10	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_r_r	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humalog_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A
Levemir_u-100,solution J1817 J1815 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX RX RX	N/A HC HC N/A N/A	*****	N/A AV AV N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humalog_u-1	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1817 Humulin_r_reg_u-100,solution Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_u-500_conc,solution Humalog_u-100	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_u-500_conc,solution Humalog_u-100,solution Apidra_u-100,solution	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,solu	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solut	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen J1815	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-10	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,p	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humalog_u-100,soluti	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humalog_u-100,solution Apidra_solostar	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humalog_u-100,	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humalog_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humalog_u-100,sol	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Humalog_u-1	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Soliqua_10033,pen Lantus_solostar_u-100,pen Humalog_u-100,solution	Soliqua 100/33, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution 00088502101	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Lantus_solostar_u-100,pen J1815 Humalog_u-100,solution 00169183311 00088502101	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX PX RX PX PX	N/A HC N/A ND ND	*****	N/A AV N/A AV AV
Lantus_solostar_u-100,pen J1817 Humalog_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5550 Lantus_solostar_u-100,pen Humalog_u-100,solution	Insulin, Rapid Onset, 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Lantus_solostar_u-100,pen Humalog_u-100,solution Admelog_u-100_lispro,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humalog_u-100,solution Admelog_u-100_lispro,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,solution J1817 J1815 Humalog_u-100	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX PX PX	N/A N/A N/A HC HC	*****	N/A N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_flexpen,pen Lantus_u-100,solution Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_u-100,solution Humalog_u-100,solution Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Humalog_u-100,solution 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,solution Apidra_solostar_u-100,	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Humalog_u-100,s	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humalog_u-100,solution 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A OA N/A OA
Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_u-100,sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution J1815 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Levemir_u-100,solution Lantus_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantu	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815 Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_u-10	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humalog_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,solutio	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,solut	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution Humalog_u-100,solut	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815 Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,sol	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Lantus_u-100,solution Humalog_u-100,s	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A IP N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³	
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A	
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A	
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A	
Basaglar_kwikpen_u-100	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A	
Lantus_u-100,solution J1817 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX PX	N/A HC HC	*****	N/A IP IP	
Humalog_u-100,solution	Injection, Insulin, Per 5 Units	RX	N/A		N/A	
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC		*****	N/A ED
Humalog_u-100,solution 00169183311	Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND			N/A ED
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****		N/A ED
Humalog_u-100,solution 00002821501	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND		N/A ED	
Levemir_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A		*****	N/A N/A N/A
Humalog_u-100,solution	Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	N/A		

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexpen,p	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flexpen,pen Humalog_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humalog_u-100,solution Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution 00002821501	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A OA
J1815 Humalog_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humalog_u-100,solution 00088222033 00002821517	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	IP N/A IP IP
Humalog_u-100,solution 00002821517	Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Levemir_u-100,solution J1815 Humalog_u-100,solution 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Levemir_u-100,solution J1815 Humalog_u-100,solution 00002821517	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Levemir_flextouch_u-100,pen Humalog_u-100,	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Novolin 70-30 Flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 Huma	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A ED N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humalog_u-100,solution Basaglar_kwikp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humalog_u-100,solution Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen Levemir_flextouch_u-100,pen Humalog_u-100,solution	Xultophy 100/3.6, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_u-100,solution Humalog_u-100	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_u-100,solution Apidra_u-100,soluti	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 Humalog_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution J1817 Humalog_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
J1815 Humalog_u-100,solution 00002831517	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humal	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novoli	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A ED
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humalo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humal	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_7030_u-100 ,suspension Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humalog_u-100,solution Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution Basaglar_kwi	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Hum	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Huma	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_n_nph_u-100 ,suspension Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1815 Humalog_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1815 Hum	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humalog_u-100,solution Basaglar_kwikpen_	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humalog_u-	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution J1815 Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_r_reg_u-100,solution J1815 Humalog_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen J1815 Humalog_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humalog_u-1	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_mix_70-30_u-100 ,solut Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut J1815 Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Novolog_mix_70-30_u-100 ,solut J1815 Humalog_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen J1815 Humalog_u-100,solution	Soliqua 100/33, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Humalog_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen J1815 Humalog_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Tresiba_flextouch_u-100,pen Humalog_u-100,solution Apidra_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humalog_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen Humalog_u-100,solution Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Humalog_u-100,solution Apidra_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humalog_u-100,solution Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Humalog U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humalog_u-100,solution 00088221905 00002879901	Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A ND ND	*****	N/A OA OA
J1815 Humalog_u-100,solution	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IPX N/A
J1815 Humalog_u-100,solution 00169183311	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	IP N/A IP
J1815 Humalog_u-100,solution 00088221905	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX RX PX	HC N/A ND	*****	ED N/A ED
S5550 J1815 Humalog_u-100,solution	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	AV AV N/A
J1817 Humalog_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IPX N/A
Humalog_u-100,solution 00169183311	Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Humalog_u-100,solution 00169183311	Humalog U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A OA
S5550 Humalog_u-100,solution	Insulin, Rapid Onset, 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size	PX	HC	*****	IPX
S5571 Lantus_solostar_u-100,pen	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Lantus Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
S5571 00002821501	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV AV
S5571 Novolog_flexpen_u-100,pen	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1815 J1815 Humulinr_u500_conc_kwikpen ,pen 00002751017	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX RX PX	HC HC N/A ND	*****	AV ED N/A ED
Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulinr_u500_conc_kwikpen ,pen 00002751101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humalog Mix 75-25(U-100)insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_70-30flexpen_u-100 ,pen Humulinr_u500_conc_kwikpen ,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulinr_u500_conc_kwikpen ,pen Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution Humulin_	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_reg_u-100,solution Basagla	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulinr_u500_conc_kwikpen ,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulinr_u500_conc_kwikpen ,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulinr_u500_conc_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulnr_u500_conc_kwikpen ,pen 00002821517	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulnr_u500_conc_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulinr_u500_conc_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Humulinr_u500_conc_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulinr_u500_conc_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_flexpen_u-100,pen Humulinr_u500_conc_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulinr_u500_conc_kwikpen ,pen 00169255013 00002882427	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Kwikpen, Insulin Pen	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A OA OA
J1815 Humulinr_u500_conc_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	*****	IS N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humulinr_u500_conc_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX RX	HC N/A	*****	ED N/A
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size	PX	HC	*****	OA
J1815 00002751017 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IPX IPX IPX
J1815 00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IPX
00002821517 00002751017 00002751001	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00088222033 00002821517 00002751017 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1815 00088222033 00002831517 00002751017 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1817 J1815 00002751017 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	IP
J1815		PX	HC		IP
00088222033		PX	ND		IP
00002751017		PX	ND		IP
00002751001		PX	ND		IP
J1815	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	IP
00169183311		PX	ND		IP
00002751017		PX	ND		IP
00002751001		PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002751017		PX	ND		IP
00002751001		PX	ND		IP
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002751001		PX	ND		IP
J1815	Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	IP
00002751101		PX	ND		IP
00002751001		PX	ND		IP
J1815	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX	HC	*****	IP
00169183411		PX	ND		IP
00169183311		PX	ND		IP
00002751101		PX	ND		IP
00002751001		PX	ND		IP
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751001		PX	ND		IP
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002751001		PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002831501 00002821501 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
J1817 J1815 00002821501 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1815 00088222033 00002821501 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00002871517 00002821517 00002751001	Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00002821517 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183311 00088222033 00002821517 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
00088222033 00002821517 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00088222033 00002831501 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00002831517 00002751001	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
00002850101 00002751001	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IP IP
Toujeo_solostar_u-300,pen 00088222033 00002751001	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A IP IP
J1817 J1815 00088222033 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1815 00088221905 00002751001	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND	*****	IP
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	IS
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IS
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Levemir_flextouch_u-100,pen 00002751001	Levemir Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
J1815 Apidra_solostar_u-100,pen 00002751001	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	ED N/A ED
00169266015 00002879901 00002751001	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	ED IS ED
00169183311 00088222033 00002751001	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	ED ED ED
00169183311 00002751001	Novolin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
00169291115 00002751001	Xultophy 100/3.6, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED ED
Humulin_7030_u-100 ,suspension 00002751001	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
J1815 00088222033 00002751101 00002751017 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen 00002751017 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00002751017 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00002821517 00002821501 00002751017 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
J1815 00002871501 00002871501 00002751017 00002751001	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
J1815 Humulin_7030_u-100 ,suspension 00002751001	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 00088222033 00002751101 00002751001	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00088222033 00002751101 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002821501 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX PX PX	HC N/A N/A ND ND	*****	AV N/A N/A AV AV
J1815 Humulin_r_reg_u-100,solution 00002751001	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00002751001	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00088222033 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_solostar_u-100,pen J1815 00169183311 00088222033 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
Lantus_u-100,solution J1817 J1815 00002821501 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC HC ND ND	*****	N/A AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815 00002751001	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00002751001	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Lantus_u-100,solution J1815 00088222033 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
00088222033 00002821501 00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00002831517 00002821517 00002751001	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1817 J1815 00088222033 00002821517 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC HC ND ND ND	*****	AV AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183311 00088222033 00002821517 00002751001	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
00088221905 00002821517 00002751001	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
00169183711 00002821517 00002751001	Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00002751001	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
J1815 00002831501 00002751001	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183411 00002831517 00002751001	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolin_n_nph_u-100 ,suspension 00002751001	Novolin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	AV
00002871501	Humulin, Suspension	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002871501	Humulin, Suspension	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_70-30flexpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		ED
00002751001	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC	*****	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
00002751001	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND	*****	AV
00088222033	Injection	PX	ND		AV
00002751001	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Humulin_7030_u-100	Injection	RX	N/A		N/A
,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen				
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_7030_u-100	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
,suspension	Humulin 70/30 Insulin Pen, Insulin Pen	RX	N/A		N/A
Humulin_7030_pen,pen					
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution,	RX	N/A	*****	N/A
Humulin_7030_u-100	Injection	RX	N/A		N/A
,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_7030_pen,pen	Humulin 70/30 Insulin Pen, Insulin Pen				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension Humulin_7	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Humulin_7030_u-100 ,suspension Humulin_7030_pen,pen	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_pen,pen	Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_70	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_n_pen,pen Humulin_7030_pen,pen	Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_pen,pen Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flexpen,pen Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin_7030_pen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_7030_pen,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_7030_pen,pen	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_pen,pen Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_7030_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_7030_pen,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_7030_pen,pen 00002821501	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_u-100,solution Levemir_flexpen,pen Humulin_7030_pen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Humulin_7030_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humulin_7030_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_7030_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_7030_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_penfill_u100,cartridge Humulin_7030_pen,pen J1815 Humulin_7030_pen,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin 70/30 Insulin Pen, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A IPX N/A
J1815 Humulin_7030_pen,pen 00169183311	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Tresiba_flextouch_u-100,pen Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humalog_u-100,s	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen Admelog_solostar_u-100	Novolog Flexpen U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humalog_kwikpen,pen Basaglar_kwikpen_u-100,pen Admelog_solostar_u-100,pen	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humalog_u-100,solution Admelog_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100 ,suspension Admelog_solostar_u-100,pen	Humulin 70/30 U-100 Insulin, Suspension Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_r_reg_u-100,solution Admelog_solostar_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen Admelog_solostar_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Basaglar_kwikpen_u-100,pen Admelog_u-100_lispro,solution Admelog_solostar_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Admelog_solostar_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Admelog_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen Admelog_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Admelog_solostar_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Admelog Solostar U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 Admelog_solostar_u-100,pen	Injection, Insulin, Per 5 Units Admelog Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	IP N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Admelog_solostar_u-100,pen	Injection, Insulin, Per 5 Units Admelog Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	ED N/A
J1817 00002831501 00002751001	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
00002871501 00002871501 00002751001	Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	OA OA OA
00002751017 00002751017	Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	IPX IP
Lantus_solostar_u-100,pen J1815 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IPX IPX
00088222033 00002879959 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IPX IPX IPX
J1815 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IPX IPX IPX
J1815 00088222033 00002751101 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00169183711 00002751101 00002751017	Novolin 70/30 U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
J1815 Humulin_7030_u-100_kwikpen ,pen 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	IP N/A IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00088222033 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A IP IP IP
Lantus_u-100,solution J1815 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A IP IP IP
J1815 00002821517 00002821501 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00088222033 00002821517 00002821501 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	IP IP IP IP IP
00088221905 00002821517 00002821501 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND	*****	IP
00088221905	Injection	PX	ND		IP
00002821517	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00002821501	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection	PX	ND		IP
	Humulin R Regular U-100 Insulin, Solution,				
	Injection				
	Humalog U-100 Insulin, Solution, Subcutaneous				
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND	*****	IP
00088222033	Injection	PX	ND		IP
00002821517	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002821501	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection	PX	ND		IP
	Humulin R Regular U-100 Insulin, Solution,				
	Injection				
	Humalog U-100 Insulin, Solution, Subcutaneous				
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	IP
00002821501	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection	PX	ND		IP
	Humalog U-100 Insulin, Solution, Subcutaneous				
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection	PX	ND		IP
	Humalog U-100 Insulin, Solution, Subcutaneous				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002850101	Humulin R U-500 (Conc) Insulin, Solution,	PX	ND	*****	IP
00002821517	Subcutaneous	PX	ND		IP
00002751017	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
	Injection Humalog U-100 Insulin, Solution, Subcutaneous				
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		IP
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution 00088222033 00002821517 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A ND ND ND	*****	N/A IP IP IP
J1815 00169183311 00002821517 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00169183711 00169183311 00002821517 00002751017	Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP
00088221905 00002831517 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00088222033 00002831517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	IP IP IP
00088222033 00002871501 00002871501 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002873059	Humulin N Pen, Insulin Pen	PX	ND	*****	IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
00169183711	Novolin 70/30 U-100 Insulin, Suspension	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen	PX	ND		IP
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	IP IP IP
J1817 J1815 00088222033 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	IP IP IP IP
J1815 Fiasp_flextouch_u-100,pen 00002751017	Injection, Insulin, Per 5 Units Fiasp Flextouch U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	IP N/A IP
J1815 00088502101 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1815 00169183711 00002751017	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00088222033 00002821517 00002751017 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	ED AV AV ED AV
J1815 J1815 00002751017 00002751017	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC HC ND ND	*****	ED AV ED AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Lantus_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen	RX	N/A		*****
J1815	Injection, Insulin, Per 5 Units	PX	HC	ED	
00169183302	Novolin R Regular U-100 Insulin, Solution,	PX	ND	ED	
00002751017	Injection	PX	ND	ED	
	Humalog U-100 Insulin, Solution, Subcutaneous				
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00002821501	Humulin R Regular U-100 Insulin, Solution,	PX	ND		ED
00002751017	Injection	PX	ND		ED
	Humalog U-100 Insulin, Solution, Subcutaneous				
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Novolin_n_nph_u-100	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
,suspension	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751017					

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Novolog_u-100_aspart,solution 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
		PX	ND		ED
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
		PX	ND		ED
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
		PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV ED
Humulin_7030_u-100_kwikpen ,pen 00002751017	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen J1815 00088222033 00002751101 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
00088222033 00002751101 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 Humulin_7030_u-100_kwikpen ,pen 00002751017	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002831517 00002821517 000	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX RX RX PX PX PX	HC N/A N/A ND ND ND	*****	AV N/A N/A AV AV
J1815 Humulin_n_nph_u-100 ,suspension 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_u-100 ,suspension 00088222033 00002751017	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
Humulin_r_reg_u-100,solution 00088222033 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1815 Humulin_r_u-500_conc,solution 00002751017	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Lantus_solostar_u-100,pen J1815 00088222033 00002821517 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
Lantus_solostar_u-100,pen J1817 00002821517 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Lantus_solostar_u-100,pen J1815 00169183311 00088222033 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
Lantus_solostar_u-100,pen J1815 00088502101 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_solostar_u-100,pen 00088221905 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_u-100,solution 00002821517 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_u-100_aspart,solution Lantus_u-100,solution 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
00002821517 00002771559 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwipen U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Levemir_flexpen,pen 00002751017	Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821517 00002821501 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00088502101 00002821517 00002821501 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX PX	HC ND ND ND ND	*****	AV AV AV AV AV
00088222033 00002821501 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
00088502101 00002821501 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
00002821517 00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED AV
J1815 00002821517 00002751017	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	ED ED AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00088222033	Injection	PX	ND		AV
00002821517	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
	Humalog U-100 Insulin, Solution, Subcutaneous				

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		AV
00002821517	Injection	PX	ND		AV
00002751017	Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002821517	Humulin R Regular U-100 Insulin, Solution,	PX	ND		AV
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
Levemir_u-100,solution	Subcutaneous	RX	N/A		N/A
J1815	Levemir U-100 Insulin, Solution, Subcutaneous	PX	HC		AV
00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002831501	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen J1815 00002831517 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00088502101 00002831517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169183311 00002831517 00002751017	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolin_7030_u-100 ,suspension 00088222033 00002751017	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension J1815 00088222033 00002751017	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
00169183411 00002871501 00002871501 00002751017	Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	ND ND ND ND	*****	AV AV AV AV
J1815 00088222033 00002871517 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen 00088222033 00002751017	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Novolog_u-100_aspart,solution J1815 00088222033 00002751017	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
00002879759 00002751017	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
J1815 00002879759 00002751017	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Tresiba_flextouch_u-100,pen 00002751017	Tresiba Flextouch U-100, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Tresiba_flextouch_u-100,pen J1815 00088222033 00002751017	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1815 00088222033 00002879959 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00088221905 00002879959 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
00088222033 00002879959 00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1817	Insulin For Administration Through Dme (I.E.,	PX	HC	*****	AV
J1815	Insulin Pump) Per 50 Units	PX	HC		AV
00088502101	Injection, Insulin, Per 5 Units	PX	ND		AV
00002751017	Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		AV
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		AV
00002751017	Injection Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		AV
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Apidra_u-100,solution 00002751017	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
Apidra_u-100,solution 00088222033 00002751017	Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
J1817 00088222033 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV
Basaglar_kwikpen_u-100,pen 00088222033 00002751017	Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
00088502005 00002751017	Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
Humulin_7030_u-100 ,suspension 00088222033 00002821517 00002751017	Humulin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A ND ND ND	*****	N/A IP IP IP
Humulin_7030_u-100 ,suspension 00002751017	Humulin 70/30 U-100 Insulin, Suspension Humalog U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen Humu	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-1	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Humulin_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_7030_u-100_kwikpen ,pen Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humulin_7030_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX RX RX RX	HC N/A N/A N/A	*****	AV N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_7	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Apidra_s	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Basaglar_kwik	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution Humulin	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humulin_7	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_70	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension 00169183311	Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A ED
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_7030_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_solostar_u-100,pen J1817 Humulin_7030_u-100 ,suspension	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_flexpen,pen Lantus_u-100,solution Humulin_7030_u-100 ,suspension	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_7030_u	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_7030_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Lantus_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Lantus_u-100,solution J1815	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A	*****	N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_70-30flexpen_u-100 ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_flexpen,pen	Levemir Flexpen, Insulin Pen	RX	N/A		N/A
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flexpen,pen J1815	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humulin_7030_u-100 ,suspension	Humulin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100 ,suspension 00002821517	Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 Humulin_7030_u-100 ,suspension 00002821517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension Basaglar_kwikp	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Humulin_70	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_u-100,solution Humulin_7030_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Basa	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Soliqua_10033,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension	Soliqua 100/33, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_7030_u-100 ,suspension Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_7030_u-100 ,suspension Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution J1815 Humulin_7030_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Humulin_7030_u-100 ,suspension 00002871517	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_7030_u-100 ,suspension 00002871517	Humulin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A OA
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_7030_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut J1815 Humulin_7030_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humulin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humulin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_7030_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Humulin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_7030_u-100 ,suspension Apidra_so	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1817 J1815 Humulin_7030_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX RX	HC HC N/A	*****	IPX IPX N/A
J1815 J1815 Humulin_7030_u-100 ,suspension	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX RX	HC HC N/A	*****	ED AV N/A
J1815 Humulin_7030_u-100 ,suspension 00169183311	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humulin_7030_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	IS N/A
Humulin_7030_u-100 ,suspension 00169183311	Humulin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Humulin_7030_u-100 ,suspension 00169183711	Humulin 70/30 U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
J1815 00002751017	Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED OA
J1817 J1815 00002751017	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	OA OA OA
J1815 00088222033 00002751017	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	OA OA OA
00002821517 00002751101	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	IP IP
Lantus_solostar_u-100,pen J1815 00002751101	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution 00002751101	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 75-25(U-100)insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Lantus_u-100,solution J1815 00002751101	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002821501 00002751101	Humulin R Regular U-100 Insulin, Solution, Injection Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	AV AV
Levemir_flextouch_u-100,pen J1815 00002751101	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
00002831501 00002751101	Humulin N Nph U-100 Insulin, Suspension Humalog Mix 75-25(U-100)insulin, Suspension	PX PX	ND ND	*****	AV AV
Novolin_7030_u-100 ,suspension J1815 00002751101	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_70-30flexpen_u-100 ,pen J1815 00002751101	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen J1815 00002751101	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 75-25(U-100)insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Humulin_7030_u-100_kwikpen ,pen	Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Humulin_7030_u	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen Humulin_7030_u	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Humulin_n_nph_kwipen,pen Humulin_7030_u-100_kwipen ,pen	Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen Humulin_7030_u-100_kwipen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_n_nph_kwipen,pen Humulin_7030_u-100_kwipen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_7030_u-100_kwipen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwipen ,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

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Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Humulin_7030_	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_7030	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_7030_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen 00002821501	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen Levemir_flexpen,pen Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_7030_u	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humulin_7030_u-100_kwikpen ,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Humulin_7030_u-100_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen	Novolin 70-30 Flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humul	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_7030_u-100_kwikpen ,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Humulin_7030_u-100_kwikpen ,pen Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_7030_u-100_kwikpen ,pen Apidra_u-100,solution	Humulin 70/30 U-100 Kwikpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
J1815 Humulin_7030_u-100_kwikpen ,pen 00169183411	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	PX RX PX	HC N/A ND	*****	AV N/A AV
J1817 Humulin_7030_u-100_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	ED N/A
J1817 Humulin_7030_u-100_kwikpen ,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1820 Humulin_7030_u-100_kwikpen ,pen	Injection, Insulin, Up To 100 Units Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
00002751201	Humalog Mix 50-50 Insulin U-100, Suspension	PX	ND	*****	IP
00088222033 00002751201	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Mix 50-50 Insulin U-100, Suspension	PX PX	ND ND	*****	IP IP
Lantus_solostar_u-100,pen J1815 00002751201	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution J1815 00002751201	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution J1815 00002751201	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humalog Mix 50-50 Insulin U-100, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen Basaglar_k	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Humulin_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A
Novolog_u-100_aspart,solution Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A ED N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension Humulin_n_nph_kwikpen,pen	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Lantus_solostar_u-100,pen Humulin_n_pen,pen Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_n	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Apidra_solostar_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_n_nph_kwikpen,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_solostar_u-100,pen J1815 Humulin_n_nph_kwikpen,pen	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_n_nph_kwikpen,pen Apidra_solostar_u-100,pe	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_kw	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_n_nph_kwikpen,pen 00002821501	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Levemir_u-100,solution Levemir_flexpen,pen Humulin_n_nph_kwikpen,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100, pen Levemir_flexpen,pen Humulin_n_nph_kwikpen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_kwikpen,pen 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100, suspension Levemir_u-100,solution Humulin_n_nph_kwikpen,pen	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_n_nph_kwikpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_n_nph_kwipen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humulin_n_nph_kwipen,pen	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Humul	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humulin_n_nph_kwipen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_n_nph_kwipen,pen Basaglar_kwipen_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution J1815 Humulin_n_nph_kwipen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_kwipen,pen Basaglar_kwipen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humulin_n_nph_kwikpen,pen 00002873059	Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin N Pen, Insulin Pen	RX PX	N/A ND		N/A AV
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A ED
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC		*****
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A	N/A	
Novolog_flexpen_u-100,pen Humulin_n_nph_kwikpen,pen 00002880559	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	RX RX PX	N/A N/A ND	N/A N/A AV	
Novolog_flexpen_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX RX	HC N/A		AV N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A	*****	N/A
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
Humulin_n_nph_kwikpen,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_kwikpen,pen 00002880559	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX PX	HC N/A ND	*****	AV N/A AV
J1817 J1815 Humulin_n_nph_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX PX RX	HC HC N/A	*****	ED ED N/A
J1815 Humulin_n_nph_kwikpen,pen Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
J1815 Humulin_n_nph_kwikpen,pen 00169183411 00169183311	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV
J1817 Humulin_n_nph_kwikpen,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph Insulin Kwikpen, Insulin Pen	PX RX	HC N/A	*****	AV N/A
Humulin_n_nph_kwikpen,pen Fiasp_flextouch_u-100,pen	Humulin N Nph Insulin Kwikpen, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_n_nph_kwikpen,pen 00169183711	Humulin N Nph Insulin Kwikpen, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
00002751601	Humalog U-100 Insulin, Cartridge	PX	ND	*****	IP
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspensio	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_n_pen,pen Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u-10	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-100,s	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002831517 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A IP IP
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	OA N/A N/A OA
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002831517 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX PX	HC N/A N/A ND ND	*****	AV N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX RX PX	HC N/A N/A ND	*****	AV N/A N/A AV
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Humulin_n_nph_u	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_r_reg_u-100,solution Humulin_n_nph	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		
Humuli	Humulin N Nph U-100 Insulin, Suspension				
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		
Novolog_flexpen_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	PX	HC		IPX
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Novolog_u-100_aspart,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units	PX	HC		AV
Humulin_n_nph_u-100 ,suspension	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A		N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Humulin_r_reg_u-100,solution	Humulin R Regular U-100 Insulin, Solution, Injection	RX	N/A	*****	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00169183411 00169183311	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution Humulin_r_u-500_conc,solution Humulin_n_np	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_nph_u-100	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Lantus_solostar_u-100,pen Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_nph_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution Humulin_n_np	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_n_nph_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_n_nph_u-100 ,suspension	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_u-100,solution Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_n_nph_u-100 ,suspension 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Levemir_flexpen,pen Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen Humulin_n_nph_u-100,	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Humulin_n_nph_u-100 ,suspension 00002821501	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A OA
J1817 Humulin_n_nph_u-100 ,suspension 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
Humulin_n_nph_u-100 ,suspension 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
J1815 Humulin_n_nph_u-100 ,suspension 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_nph_u-100 ,suspension	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension	Novolin N Nph U-100 Insulin, Suspension	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A AV
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A
Levemir_u-100,solution J1817 J1815	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX PX	N/A HC HC		N/A AV AV
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A	N/A	
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A ED
Humulin_n_nph_u-100 ,suspension	Humulin N Nph U-100 Insulin, Suspension	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Humulin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution J1815 Humulin_n_nph_u-100 ,suspension	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Humulin_n_nph_u-100 ,suspension 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_nph_u-100 ,suspension	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_flexpen_u-100,pen Humulin_n_nph_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Novolog_u-100_aspart,solution J1817 Humulin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	RX PX RX	N/A HC N/A	*****	N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_n_nph_u-100 ,suspension	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	IS N/A
J1817 J1815 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX RX	HC HC N/A	*****	ED ED N/A
J1817 Humulin_n_nph_u-100 ,suspension	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin N Nph U-100 Insulin, Suspension	PX RX	HC N/A	*****	IPX N/A
Humulin_n_nph_u-100 ,suspension 00088222033	Humulin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A IP
Humulin_n_nph_u-100 ,suspension 00169183302	Humulin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Humulin_n_nph_u-100 ,suspension 00169183311	Humulin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Humulin_n_nph_u-100 ,suspension 00169183411	Humulin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A ED
Humulin_n_nph_u-100 ,suspension Fiasp_u-100,solution	Humulin N Nph U-100 Insulin, Suspension Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
J1815 00002821517 00002751659	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humalog U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088221905 00002751659	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00088222033 00002751659	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	IP IP IP
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00088222033 00002751659	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A ED ED ED
Lantus_u-100,solution J1815 00002751659	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX PX	N/A HC ND	*****	N/A ED ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815 00002751659	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Toujeo_solostar_u-300,pen J1815 00002751659	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog U-100 Insulin, Cartridge	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00088222033 00002751659	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog U-100 Insulin, Cartridge	PX PX PX	HC ND ND	*****	AV AV AV
Humulin_r_reg_u-100,solution Humulin_n_pen,pen 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Humulin_r_reg_u-100,solution Humulin_n_pen,pen Apidra_solostar_u-100,pen	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_reg_u-100,solution Humulin_n_pen,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Pen, Insulin Pen	PX RX RX	HC N/A N/A	*****	ED N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_n_pen,pen	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_n_pen,pen	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_n_pen,	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_n_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_n_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humulin_n_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_n_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_n_pen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humulin_n_pen,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Humulin_n_pen,pen	Novolin 70/30 U-100 Insulin, Suspension Humulin N Pen, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension J1815 Humulin_n_pen,pen	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Humulin_n_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Humulin_n_pen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_n_pen,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Humulin_n_pen,pen 00002873059	Humulin N Pen, Insulin Pen Humulin N Pen, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Humulin_n_pen,pen 00002873059	Humulin N Pen, Insulin Pen Humulin N Pen, Insulin Pen	RX PX	N/A ND	*****	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 Humulin_n_pen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-100,pen J1815 00002771201	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A IS IS
00002771201	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-1	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Humulin_	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Humulin_r_u-500_conc,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solutio	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-100	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Lantus_solostar_u-100,pen J1817 J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX RX	N/A N/A HC HC N/A	*****	N/A N/A ED ED N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution Apidra_solos	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_u-	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Humulin_r_reg	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Humulin_r_reg_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_r_re	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen Humulin_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen J1815 Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Lantus_solostar_u-100,pen J1817 Humulin_r_reg_u-100,solution	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Humulin_r_reg_u-100,solution 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_u-100,solution Humulin_r_reg_u-100,solution 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A OA
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX PX	N/A HC N/A ND	*****	N/A ED N/A ED
Lantus_u-100,solution Humulin_r_reg_u-100,solution 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,	Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,s	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Humulin_r_reg_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_reg	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_r_reg	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Humulin_r_reg_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IP N/A
Lantus_u-100,solution J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IS N/A
Lantus_u-100,solution J1817 J1815 Humulin_r_reg_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A
J1815 Humulin_r_reg_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A AV
Levemir_flexpen,pen Humulin_r_reg_u-100,solution 00002821501	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A OA
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_fle	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flexpen,pen Humulin_r_reg_u-100,soluti	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flexpen,pen Humulin_r_reg_u-100,so	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen Humulin_r_reg_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen Humulin_r_reg_u-100,solution Apidra_u-100,solution	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Humulin_r_reg_u-100,solution 00002821517	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
J1815 Humulin_r_reg_u-100,solution 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
Humulin_r_reg_u-100,solution 00002821517	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 Humulin_r_reg_u-100,solution 00088222033 00002821517	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_reg_u-100,solution Basaglar_kwikpe	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Humulin_	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen Humulin_r_r	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Levemir_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX RX	N/A HC N/A N/A	*****	N/A AV N/A N/A
Levemir_flextouch_u-100,pen J1817 Humulin_r_reg_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Levemir_u-100,solution Humulin_r_reg	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Humulin_r_reg_u-100,solution Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Humulin_r_r	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Humulin_r_re	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_reg_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Humulin_r_reg_u-100,solution 00002831517	Humulin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Humuli	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Humulin_r_reg_u-100,solution	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension J1815 Humulin_r_reg_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension J1817 J1815 Humulin_r_reg_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A
Novolin_n_nph_u-100 ,suspension J1815 Humulin_r_reg_u-100,solution 00169183411	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX PX RX PX	N/A HC N/A ND	*****	N/A AV N/A AV
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1815 Humul	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX PX RX	N/A N/A N/A HC N/A	*****	N/A N/A N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution Humulin_r_reg_u-100,solution Afrezza,cartridge_with_inhaler	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Humulin_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Humulin_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen J1815 Humulin_r_reg_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Tresiba_flextouch_u-100,pen Novolog_mix_70-30_u-100 ,solut Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 Humulin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Soliqua 100/33, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen J1815 Humulin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Toujeo_solostar_u-300,pen Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815 Humulin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	*****	IS N/A
J1817 J1815 Humulin_r_reg_u-100,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX RX	HC HC N/A	*****	ED ED N/A
J1815 Humulin_r_reg_u-100,solution 00169183311	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 Humulin_r_reg_u-100,solution	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX RX	HC N/A	*****	AV N/A
J1815 Humulin_r_reg_u-100,solution Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Humulin_r_reg_u-100,solution 00169183311	Humulin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Humulin_r_reg_u-100,solution 00169183411	Humulin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A ED
Lantus_u-100,solution Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Apidra_solostar_	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1815 Humulin_r_u-500_conc,solution	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_solostar_u-100,pen J1817 J1815 Humulin_r_u-500_conc,solution	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX RX	N/A HC HC N/A	*****	N/A AV AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flexpen,pen Lantus_u-100,solution Humulin_r_u-500_conc,solution	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution Humulin_r_u-500_conc,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_u-100,solution Humulin_r_u-500_conc,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815 Humulin_r_u-500_conc,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Lantus_u-100,solution Humulin_r_u-500	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_u-100,solution Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 Humulin_r_u-500_conc,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_u-100,solution J1815 Humulin_r_u-500_conc,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Lantus_u-100,solution Humulin_r_u-500_conc,solution Basaglar_kwipen_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Humulin_r_u-500_conc,solution 00002821517	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 Humulin_r_u-500_conc,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_flextouch_u-100,pen Humulin_r_u-500_conc,solution Basaglar_kwipen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Humulin_r_u-500_conc,solution Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Humulin_r_u-500_conc,solution	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolin_7030_u-100 ,suspension Humulin_r_u-500_conc,solution Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Humul	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Humulin_r_u-500_conc,solution Apidra_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Humulin_r_u-500_conc,solution Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Humulin_r_u-500_conc,solution	Novolog Penfill U-100 Insulin, Cartridge Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolog_u-100_aspart,solution J1815 Humulin_r_u-500_conc,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-200,pen J1815 Humulin_r_u-500_conc,solution	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IP N/A
J1815 Humulin_r_u-500_conc,solution	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IS N/A
J1817 J1815 Humulin_r_u-500_conc,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX RX	HC HC N/A	*****	ED ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 Humulin_r_u-500_conc,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	ED N/A
J1817 Humulin_r_u-500_conc,solution	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
Humulin_r_u-500_conc,solution Fiasp_flextouch_u-100,pen	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Humulin_r_u-500_conc,solution 00088222033	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
00002879701 00002771459	Humalog Mix 75-25 Kwikpen, Insulin Pen Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	PX PX	ND ND	*****	AV AV
Levemir_flexpen,pen Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-1	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Lantus_solostar_u-10	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,p	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution Lantus_solos	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A AV
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Lantus_solost	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_u-100,sol	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A IP
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Soliqua_10033,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Soliqua 100/33, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_u-100,solution Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_u-100,solution Lantus_solostar_u-100,pen Apidra_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_u-100,solution Lantus_solostar_u-100,pen J1817	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00088221905 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-100,	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen Lantus_solostar_u-10	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_solostar_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flexpen,pen Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1815 00002821501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
Lantus_solostar_u-100,pen 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Lantus_solostar_u-100,pen J1815 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A IP IP
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Lantus_solostar_u-100,pen J1815 00088222033 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A ED ED ED
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen J1815 00002821517	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Lantus_solostar_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Lantus_s	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen Lantus_	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Lantus_solostar	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_k	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Lantus_solost	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwikpe	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Basaglar_kwik	Tresiba Flextouch U-200, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_solostar_u-100,pen Fiasp_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Lantus_solostar	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Lantus_solo	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_u-100,solution Lantus_solostar_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Lantus_solostar_u-100,pen 00002831501	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen J1815 00002831517	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Lantu	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension Lantus_s	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Lantus_s	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_so	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_7030_u-100 ,suspension Lantus_solostar_u-100,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen 00002850101	Lantus Solostar U-100 Insulin, Insulin Pen Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lant	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Lantu	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen J1815	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Lantus_solostar_u-100,pen J1815	Novolin N Nph U-100 Insulin, Suspension Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00002871501 00002871501	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Lantu	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_sol	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Apidra_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen J1815 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolin_r_reg_u-100,solution Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_s	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_s	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1817	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solost	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Xultophy_10036,pen Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Xultophy 100/3.6, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002879959 00002879959	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A ED AV ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00002879959	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A IPX IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A IP IP
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A OA
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1815 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A OA OA
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Fiasp_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen 00088221905	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A OA
S5550 Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen	Insulin, Rapid Onset, 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Lantus_solostar_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Tresiba_flextouch_u-200,pen Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Lantus_solostar_u-100,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1815 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Xultophy_10036,pen Soliqua_10033,pen Lantus_solostar_u-100,pen	Xultophy 100/3.6, Insulin Pen Soliqua 100/33, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Lantus_solostar_u-100,pen Fiasp_flextouch_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_solostar_u-100,pen J1815 00088222033	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Lantus_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen J1815 Basaglar_kwipen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_solostar_u-100,pen J1815 Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A AV N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_solostar_u-100,pen Apidra_solost	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Lantus_solostar_u-100,pen Apidra_u-100,solution Apidra_solostar_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1817 Apidra_solostar_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen Apidra_solostar_u-100,pen 00088250205	Lantus Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_solostar_u-100,pen J1815 00002879901	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00002879959	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A ED ED
Lantus_solostar_u-100,pen J1815 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
Lantus_solostar_u-100,pen J1815 00088221900	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00088221905 00088221905	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV OA
Lantus_solostar_u-100,pen J1815 00088502005	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00088502101	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00169183411	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen J1815 00169183711	Lantus Solostar U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_solostar_u-100,pen J1817	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IS
Lantus_solostar_u-100,pen J1817 00169183411	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_solostar_u-100,pen Fiasp_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Lantus Solostar U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_solostar_u-100,pen J1817	Lantus Solostar U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A OA
Lantus_solostar_u-100,pen 00088221900	Lantus Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen 00088250033 00088222033	Lantus Solostar U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A ND ND	*****	N/A AV AV
Lantus_solostar_u-100,pen 00088502101	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Lantus_solostar_u-100,pen 00088502101	Lantus Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Lantus_solostar_u-100,pen 00169183311	Lantus Solostar U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Humulin_n_nph_u-100 ,suspension Admelog_u-100_lispro,solution	Humulin N Nph U-100 Insulin, Suspension Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 Admelog_u-100_lispro,solution	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_flextouch_u-100,pen Admelog_u-100_lispro,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Levemir_u-100,solution Basaglar_kwikpen_u-100,pen Admelog_u-100_lispro,solution	Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Admelog_u-100_lispro,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen Admelog_u-100_lispro,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Admelog_u-100_lispro,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Admelog U-100 Insulin Lispro, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
J1815 00002771501	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	IP IP
J1815 00002771501	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	ED ED
Lantus_u-100,solution 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Levemir_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flexpen,pen Lantus_u-100,solution Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Lantus_u-100,solution	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexpen,pen Lantus_u-100,solutio	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flexpen,pen Lantus_u-100,solution Apidra_solostar_u-100,pen	Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen Lantus_u-100,solut	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_flexpen,pen Lantus_u-100,soluti	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flexpen,pen Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Lantus_u-100,solution J1815 00002879959 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A ED ED ED
Lantus_u-100,solution J1815 00088221905 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_u-100,solution J1817 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Lantus_u-100	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution Apidra_solostar_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Levemir_flextouch_u-100,pen Lantus_u-100,solution	Xultophy 100/3.6, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Lantus_u-100,solution J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Levemir_u-100,solution Lantus_u-100	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Levemir_u-100,solution Lantus_u-100,solution Basaglar_kwikpen_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Lantus_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Levemir_u-100,solution Lantus_u-100,solution J1815	Levemir U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Lantus_u-100,solution J1815 00002831501	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Lantus_u-1	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Lantus_u-	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Lantus_u-100,solution Apidra_u-100,	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Lantus_	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Lantus_u-100,solution J1815	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolin_7030_u-100 ,suspension Lantus_u-100,solution J1817	Novolin 70/30 U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Novolin_n_nph_u-100 ,suspension Lantus_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Lantus_u-1	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1817 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED
Novolin_r_reg_u-100,solution Lantus_u-100,solution J1817 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Novolin_r_reg_u-100,solution Lantus_u-100,solution Fiasp_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_7	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Lantus_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Lant	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Lantus_u-100,solution J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-10	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-10	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A IP
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Lantus_u-100,solution Basaglar_kwipen_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Lantus_u-100,	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1815 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_flexpen_u-100,pen Lantus_u-100,solution 00088221900	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Lantus_u-100,solution 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge Lantus_u-100,solution J1815	Novolog Penfill U-100 Insulin, Cartridge Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Lantus_u-100,solution J1815 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A OA OA
Novolog_u-100_aspart,solution Lantus_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_u-100_aspart,solution Lantus_u-100,solution 00088221905	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_u-100_aspart,solution Lantus_u-100,solution 00169183311 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A ND ND	*****	N/A N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Lantus_u-100,solution Fiasp_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Lantus_u-100,solution	Toujeo Max U-300 Solostar, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Lantus_u-100,solution J1815	Tresiba Flextouch U-200, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Lantus_u-100,solution Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Lantus_u-100,solution Apidra_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Lantus_u-100,solution Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1815 Apidra_solostar_u-100,pen	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution J1815 00002879901	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Lantus_u-100,solution J1815 00002879959	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A OA OA
Lantus_u-100,solution J1817 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A IP IP
Lantus_u-100,solution J1815 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
Lantus_u-100,solution J1817 J1817 J1815 J1815	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX PX PX	N/A HC HC HC HC	*****	N/A ED AV ED AV
Lantus_u-100,solution J1815 00088221905	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A ED ED
Lantus_u-100,solution J1815 00088250033 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Lantus_u-100,solution J1815 00088502101	Lantus U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Lantus_u-100,solution Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Lantus U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Lantus_u-100,solution J1817	Lantus U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A OA
Lantus_u-100,solution 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Levemir,solution	Levemir, Solution, Subcutaneous	RX	N/A	*****	N/A
00002771559	Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX	ND	*****	ED
00002879959 00002771559	Humalog Kwikpen Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00002821501 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IPX IP
J1815 J1815 00002821501	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	IPX IP IPX
00088222033 00002821517 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
00002831501 00002821501	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088221905 00002879959 00002821501	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
J1817 J1815 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	IP IP IP
00169183411 00169183311 00002821501	Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IS IS
00002821501 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED AV
00002821501 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED OA
00002821517 00002821501	Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002880559 00002821517 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	ED ED ED ED
Levemir_flextouch_u-100,pen J1815 00002821501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Levemir_u-100,solution 00002821501	Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Novolog_flexpen_u-100,pen J1815 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
J1815 Apidra_solostar_u-100,pen 00002821501	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 00088221905 00002821501	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 00002821501	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815 00002821517 00002821501	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX PX	N/A N/A HC ND ND	*****	N/A N/A AV AV AV
00088222033 00002821517 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00002821501	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
J1815 00002831517 00002821501	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_7030_u-100 ,suspension J1815 00002821501	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
00169183311	Novolin R Regular U-100 Insulin, Solution,	PX	ND		AV
00088222033	Injection	PX	ND		AV
00002871501	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002821501	Humulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection				
00002871517	Humulin 70/30 U-100 Insulin, Suspension	PX	ND	*****	AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
Novolog_mix_70-30_u-100	Novolog Mix 70-30 U-100 Insulin, Solution,	RX	N/A	*****	N/A
,solut	Subcutaneous	PX	HC		AV
J1815	Injection, Insulin, Per 5 Units	PX	ND		AV
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection				
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution,	RX	N/A	*****	N/A
J1815	Subcutaneous	PX	HC		AV
00002821501	Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002879701 00002821501	Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Tresiba_flextouch_u-200,pen 00002821501	Tresiba Flextouch U-200, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 00169183311 00002821501	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Basaglar_kwikpen_u-100,pen 00002821501	Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Levemir_flexpen,pen J1815 00002821501	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A IP IP
Levemir_flexpen,pen 00002821501	Levemir Flexpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_fle	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pe	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen Levemir_flexpen,pen	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen Levemir_flexpen,pen Basaglar_kwikpen_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexp	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_u-100,solution Levemir_flexpen,pen Apidra_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100, pen Levemir_u-100,solution Levemir_fle	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100, solut Levemir_u-100,solution Levemir_flex	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Levemir_flexpen,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flexpen,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_f	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levem	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_flexpen,pen Apidra_solostar_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1815 00002871501 00002871501	Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_flexpen,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolin_r_reg_u-100,solution Levemir_flexpen,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Levemir_flexpen,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IP
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1817 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A OA
Novolog_flexpen_u-100,pen Levemir_flexpen,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Levemir_flexpen,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flexpen,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Levemir_flexpen,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_u-100_aspart,solution Levemir_flexpen,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_flexpen,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flexpen, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flexpen,pen J1817 J1815	Levemir Flexpen, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Levemir_flexpen,pen 00169183311	Levemir Flexpen, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
J1815 J1815 00002821517 00002821501	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	ED OA ED OA
Novolin_r_reg_u-100,solution J1815 00002821501	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
Novolog_u-100_aspart,solution J1815 00002821501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A OA OA
J1815 J1815 00002821501	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	AV OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088222033 00002821501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	OA OA
J1815 00169183311 00002821517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IPX IP IPX
J1817 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	IPX IPX
J1815 00088221905 00002871517 00002821517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP
00088221905 00002871517 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00002879959 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00088221905 00002879959 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088222033 00002879959 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
J1815 00169183411 00002821517	Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	IP IP IP
00169183411 00002880501 00002821517	Novolin N Nph U-100 Insulin, Suspension Humulin N Nph Insulin Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	IP IP IP
Basaglar_kwikpen_u-100,pen 00002821517	Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
00088502101 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
00169183311 00002821517	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	IP IP
J1815 J1815 00002821517 00002821517	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	ED AV ED AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	ED
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		OA
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Novolin_7030_u-100,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A	*****	N/A
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00002871501	Humulin 70/30 U-100 Insulin, Suspension	PX	ND		AV
00002871501	Humulin, Suspension	PX	ND		AV
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
Novolin_r_reg_u-100,solution	Novolin R Regular U-100 Insulin, Solution, Injection	RX	N/A		*****
J1815	Injection, Insulin, Per 5 Units	PX	HC	ED	
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	ED	

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen J1815 00002821517	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen 00002821517	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A ED
00002873059 00002821517	Humulin N Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution J1815 00002821517	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Tresiba_flextouch_u-100,pen 00002821517	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Tresiba_flextouch_u-100,pen J1815 00002821517	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen J1815 00002821517	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
00002879959 00002821517	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
J1815 00002879959 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
00088221905 00002879959 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	ED ED ED
J1815 Basaglar_kwikpen_u-100,pen 00002821517	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	ED N/A ED
J1815 00088221905 00002821517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	ED ED ED
00169183311 00002821517	Novolin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002831517 00002821517 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV OA AV OA
Novolog_u-100_aspart,solution Levemir_u-100,solution 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV
00002831501 00002821517	Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolin_n_nph_u-100 ,suspension J1815 00002831517 00002821517	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
J1817 J1815 00002831517 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
00002850101 00002821517	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002850101 00002821517	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_n_nph_u-100 ,suspension J1815 00002821517	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_70-30flexpen_u-100 ,pen 00002821517	Novolog Mix 70-30flexpen U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
J1815 00002879959 00002871517 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
Novolog_70-30flexpen_u-100 ,pen J1815 00002821517	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen J1815 00088221905 00002879901 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX PX	N/A HC ND ND ND	*****	N/A AV AV AV AV
J1815 00002873059 00002821517	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution J1815 00088222033 00002821517	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
00002877059 00002821517	Humulin 70/30 Insulin Pen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
00002879759 00002821517	Humalog Mix 75-25 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Tresiba_flextouch_u-100,pen 00002821517	Tresiba Flextouch U-100, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00002879901 00002821517	Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
J1815 00002879901 00002821517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00088221905 00002879901 00002821517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00088221905 00002879901 00002821517	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00088222033 00002879959 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00088222033 00002879959 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	AV AV AV
00002880301 00002821517	Humulin 70/30 U-100 Kwikpen, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
J1815 J1815 00002821517	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	ED AV AV
J1815 Basaglar_kwikpen_u-100,pen 00002821517	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
J1817 J1815 00088222033 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC HC ND ND	*****	AV AV AV AV
J1815 Basaglar_kwikpen_u-100,pen 00088222033 00002821517	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX PX	HC N/A ND ND	*****	AV N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00169183311 00088221905 00002821517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
J1815 00169183711 00002821517	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
Basaglar_kwikpen_u-100,pen 00002821517	Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00169183411 00002821517	Novolin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00002821517	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A ED ED
Levemir_flextouch_u-100,pen J1815 00088222033 00002821517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
S5550 Levemir_flextouch_u-100,pen 00002821517	Insulin, Rapid Onset, 5 Units Levemir Flextouch U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension Levemir_u	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX RX	N/A N/A N/A N/A N/A	*****	N/A N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_7030_u-100 ,suspension Levemir_u-100,solution Levemir_flex	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_flextou	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution Levemir_fle	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextou	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouc	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Levemir_flex	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_u-100,solution Levemir_flextouch_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Levemir_u-100,solution Levemir_flextouch_u-100,pen J1815	Levemir U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Levemir_flextouch_u-100,pen J1815 00002831517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_flextouch_u-100,pen J1815 00088222033 00002831517	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Basaglar_kw	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen J1815	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolin_7030_u-100 ,suspension Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Novolin 70/30 U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levem	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Levemir_flextouch_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_flextouch_u-100,pen J1815 00002871501 00002871501	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension Humulin, Suspension	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_fl	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_fl	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flexto	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Levemir_flextouch_u-100,pen J1815	Novolin R Regular U-100 Insulin, Solution, Injection Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flex	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen Basaglar_k	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen Levemir_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_f	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Apidra_u-10	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Basaglar_kw	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A IP IP
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX PX RX	N/A N/A HC N/A	*****	N/A N/A ED N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen J1815 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Fiasp_flextouch_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Levemir_flextouch_u-100,pen Fiasp_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Levemir_flextouch_u-100,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Levemir_flextouch_u-100,pen J1815	Novolog Penfill U-100 Insulin, Cartridge Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Xultophy_10036,pen Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen	Xultophy 100/3.6, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_u-100_aspart,solution Levemir_flextouch_u-100,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Levemir_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Levemir Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-1	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Levemir_flextouch_u-100,pen	Levemir Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Levemir_flextouch_u-100,pen J1815 00002879901	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_flextouch_u-100,pen J1815 00002879959	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND		N/A AV AV
Levemir_flextouch_u-100,pen J1817 J1815	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC		N/A IPX IPX
Levemir_flextouch_u-100,pen J1815 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_flextouch_u-100,pen J1815 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED
Levemir_flextouch_u-100,pen J1815 00169183411	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_flextouch_u-100,pen J1815 Apidra_u-100,solution	Levemir Flextouch U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Levemir_flextouch_u-100,pen J1817	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IS
Levemir_flextouch_u-100,pen J1817 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_flextouch_u-100,pen 00088221905	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A IP
Levemir_flextouch_u-100,pen 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Levemir_flextouch_u-100,pen 00088222033	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen 00088502101	Levemir Flextouch U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen 00169183302	Levemir Flextouch U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Levemir_flextouch_u-100,pen 00169183711	Levemir Flextouch U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002831517 00002821517	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	OA OA OA
00088222033 00002879959 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	ND ND ND	*****	OA OA OA
J1815 00088222033 00002821517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	OA OA OA
J1817 00002821517	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	ED OA
J1815 Basaglar_kwikpen_u-100,pen 00002821517	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Humulin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	OA N/A OA
00088222033 00002821517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	OA OA
00002821591	Humulin R Regular U-100 Insulin, Solution, Injection	PX	ND	*****	IPX
J1815 J1815 00002821591	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC HC ND	*****	ED AV ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 00002821591	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Levemir_u-100,solution J1815 00002821591	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levem	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemir_u-	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Novolin_7030_u-100 ,suspension Levemi	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Levemir_u	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution J1815	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution J1815	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension Levemir_u-100,solution Basaglar_kwikpen_u-100,pen	Novolin N Nph U-100 Insulin, Suspension Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_penfill_u100,cartridge Novolin_r_reg_u-100,solution Levemir_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A ED
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolin_r_reg_u-100,solution Levemir_u-100,solution J1815 00169183411	Novolin R Regular U-100 Insulin, Solution, Injection Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Leve	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Levemir_u-100,solution J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Levemir_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-1	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX RX PX	N/A N/A N/A N/A HC	*****	N/A N/A N/A N/A ED
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Levemir_u-100,solution Basaglar_kwipen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A IPX
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX RX PX	N/A N/A N/A HC	*****	N/A N/A N/A AV
Novolog_penfill_u100,cartridge Levemir_u-100,solution J1815	Novolog Penfill U-100 Insulin, Cartridge Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolog_u-100_aspart,solution Levemir_u-100,solution J1817 J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815 00169183311	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX PX	N/A N/A HC ND	*****	N/A N/A AV AV
Novolog_u-100_aspart,solution Levemir_u-100,solution J1815	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A OA
Novolog_u-100_aspart,solution Levemir_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Levemir_u-100,solution J1815	Tresiba Flextouch U-200, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_mix_70-30_u-100 ,solut Levemir_u-100,solution Apidra_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Levemir_u-100,solution Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Levemir U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Levemir_u-100,solution J1815 Apidra_solostar_u-100,pen	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Levemir_u-100,solution J1815 J1815	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED AV
Levemir_u-100,solution J1817 J1815	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Levemir_u-100,solution J1815 00169183302	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution J1815 00169183411	Levemir U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Levemir_u-100,solution J1817 Apidra_u-100,solution	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A ED N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Levemir_u-100,solution Apidra_u-100,solution 00088250033	Levemir U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Levemir_u-100,solution J1817	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IPX
Levemir_u-100,solution J1817	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IP
Levemir_u-100,solution J1817	Levemir U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IS
Levemir_u-100,solution 00169183311	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IP
Levemir_u-100,solution 00169183311	Levemir U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
S5550 Levemir_u-100,solution	Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	ED N/A
S5550 Levemir_u-100,solution	Insulin, Rapid Onset, 5 Units Levemir U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	AV N/A
J1815 00088222033 00002831501	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
00088222033 00002831501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	IP IP
Novolin_7030_u-100 ,suspension J1815 00002831501	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen 00002831501	Novolog Flexpen U-100 Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution J1815 00002831501	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-100,pen J1815 00002831501	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 00002831501	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00088222033 00002831501	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00088250033 00002831501	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
00088222033 00002831501	Lantus U-100 Insulin, Solution, Subcutaneous Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
00169183311 00002831501	Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
00002831517	Humulin N Nph U-100 Insulin, Suspension	PX	ND	*****	IPX
J1815 00088221905 00002879901 00002831517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX PX PX	HC ND ND ND	*****	IP IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_n_nph_u-100 ,suspension J1815 00002831517	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A ED ED
J1815 00002879959 00002831517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183311 00002831517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin N Nph U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
Novolin_n_nph_u-100 ,suspension Novolin_7030_flexpen_u-100 ,pen	Novolin N Nph U-100 Insulin, Suspension Novolin 70-30 Flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_r_reg_u-100,solution Novolin_7030_flexpen_u-100 ,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70-30 Flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolin_7030_flexpen_u-100 ,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70-30 Flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolin_7030_flexpen_u-100 ,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin 70-30 Flexpen U-100, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Novolin_7030_flexpen_u-100 ,pen Basaglar_kwikpen_u-100,pen	Novolin 70-30 Flexpen U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00002831591	Injection, Insulin, Per 5 Units Humulin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension Novolin_	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_n_nph_u-100 ,suspension Novolin_7030_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Novolin_7	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin 70/30 U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_7030_u-100 ,suspension 00002871517	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	RX PX	N/A ND	*****	N/A ED
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_max_u-300_solostar ,pen Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension	Toujeo Max U-300 Solostar, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_7030_u-100 ,suspension J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Novolin_7030_u-100 ,suspension	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin 70/30 U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Novolin_7030_u-100 ,suspension	Toujeo Max U-300 Solostar, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolin_7030_u-100 ,suspension J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Novolin_7030_u-100 ,suspension Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_7030_u-100 ,suspension Apidra_solostar_u-100,pen	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin 70/30 U-100 Insulin, Suspension Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX	N/A	*****	N/A
Novolog_flexpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_7030_u-100 ,suspension	Novolin 70/30 U-100 Insulin, Suspension	RX	N/A		N/A
Apidra_so	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolin_7030_u-100 ,suspension 00002879959	Novolin 70/30 U-100 Insulin, Suspension Humalog Kwikpen Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A ED
Novolin_7030_u-100 ,suspension J1815 00169183411	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolin_7030_u-100 ,suspension J1815 00169183411	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolin_7030_u-100 ,suspension J1815	Novolin 70/30 U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Novolin_7030_u-100 ,suspension 00169183302	Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Novolin_7030_u-100 ,suspension Fiasp_u-100,solution	Novolin 70/30 U-100 Insulin, Suspension Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
S5550 Novolin_7030_u-100 ,suspension	Insulin, Rapid Onset, 5 Units Novolin 70/30 U-100 Insulin, Suspension	PX RX	HC N/A	*****	AV N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 00002850101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
Novolin_r_reg_u-100,solution J1815 00169183311 00002850101	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX PX	N/A HC ND ND	*****	N/A AV AV AV
Novolog_70-30flexpen_u-100 ,pen J1815 00002850101	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 00002850101	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 J1815 00002850101	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	AV OA AV
J1815 00169183311 00002850101	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX PX	HC ND ND	*****	AV AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Basaglar_	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution Novolin_n_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension J1815	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension Fiasp_flextouch_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution Novolin_n_nph_u-100 ,suspension 00169183402	Novolin R Regular U-100 Insulin, Solution, Injection Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	RX RX PX	N/A N/A ND	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen Novolin_n_nph_u-100 ,suspension J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_n_nph_u-100 ,suspension J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Novolin_n_nph_u-100 ,suspension	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Novolin_n_nph_u-100 ,suspension J1815	Novolog Penfill U-100 Insulin, Cartridge Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_u-100_aspart,solution Novolin_n_nph_u-100 ,suspension Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin N Nph U-100 Insulin, Suspension Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Novolin_n_nph_u-100 ,suspension	Toujeo Max U-300 Solostar, Insulin Pen Novolin N Nph U-100 Insulin, Suspension	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension J1817 J1815	Novolin N Nph U-100 Insulin, Suspension Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Novolin_n_nph_u-100 ,suspension J1815 00169183311	Novolin N Nph U-100 Insulin, Suspension Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
J1815 00002850101	Injection, Insulin, Per 5 Units Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	OA OA
Novolog_u-100_aspart,solution Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution Basagla	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_70-30flexpen_u-100 ,pen Novolin_r_reg_u-100,solution J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_penfill_u100,cartridge Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution	Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Basaglar_k	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Basaglar Kwipen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Novolin_r_reg	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1815	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_flexpen_u-100,pen Novolin_r_reg_u-100,solution J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_mix_70-30_u-100 ,solut Novolin_r_reg_u-100,solution J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_u-100_aspart,solution Novolin_r_reg_u-100,solution J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Toujeo_solostar_u-300,pen Novolin_r_reg_u-100,solution J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution Apidra_u-100,solution	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolin_r_reg_u-100,solution J1815	Tresiba Flextouch U-100, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution Apidra_u-100,solution	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolin_r_reg_u-100,solution J1815	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolin_r_reg_u-100,solution J1817 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A IPX IPX
Novolin_r_reg_u-100,solution J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolin_r_reg_u-100,solution J1815 Basaglar_kwikpen_u-100,pen	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A ED N/A
Novolin_r_reg_u-100,solution J1815 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolin_r_reg_u-100,solution J1815 J1815	Novolin R Regular U-100 Insulin, Solution, Injection Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV OA
Novolin_r_reg_u-100,solution 00088221905	Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Novolin_r_reg_u-100,solution 00088250033	Novolin R Regular U-100 Insulin, Solution, Injection Apidra U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_u-100_aspart,solution Levemir_u-100,solution Afrezza,cartridge_with_inhaler	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Levemir U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolin_7030_u-100 ,suspension Afrezza,cartridge_with_inhaler	Novolin 70/30 U-100 Insulin, Suspension Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Novolin_n_nph_u-100 ,suspension Afrezza,cartridge_with_inhaler	Novolin N Nph U-100 Insulin, Suspension Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut Afrezza,cartridge_with_inhaler	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX	N/A N/A	*****	N/A N/A
Toujeo_solostar_u-300,pen Novolog_mix_70-30_u-100 ,solut Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Fiasp_flextouch_u-100,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Fiasp_u-100,solution Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-100, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Fiasp_flextouch_u-100,pen Afrezza,cartridge_with_inhaler	Tresiba Flextouch U-200, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Apidra_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Toujeo Solostar U-300 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen Afrezza,cartridge_with_inhaler	Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Fiasp_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen Afrezza,cartridg	Fiasp Flextouch U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen Afrezza, Cartridge With Inhaler	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
J1815 Afrezza,cartridge_with_inhaler	Injection, Insulin, Per 5 Units Afrezza, Cartridge With Inhaler	PX RX	HC N/A	*****	IPX N/A
J1815 00088221905 00002871517	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
J1815 00169183311 00002871517	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	IP IP IP
00169183711 00002871517	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	ED ED
J1815 00002879959 00002871517	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00088502101 00002871517	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX PX	HC ND ND	*****	AV AV AV
00088222033 00002871517	Lantus U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV
00088250033 00002871517	Apidra U-100 Insulin, Solution, Subcutaneous Humulin 70/30 U-100 Insulin, Suspension	PX PX	ND ND	*****	AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Soliqua_10033,pen Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100,pen	Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_mix_70-30_u-100,solut Novolog_70-30flexpen_u-100,pen J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_70-30flexpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_penfill_u100,cartridge Novolog_70-30flexpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_70-30flexpen_u-100,pen J1815	Soliqua 100/33, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_70-30flexpen_u-100 ,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Novolog_70-30flexpen_u-100 ,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen J1815	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A AV
Novolog_70-30flexpen_u-100 ,pen J1815	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Novolog_70-30flexpen_u-100 ,pen J1815 00088222033	Novolog Mix 70-30flexpen U-100, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
S5550 Novolog_70-30flexpen_u-100 ,pen	Insulin, Rapid Onset, 5 Units Novolog Mix 70-30flexpen U-100, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1815 00002871517	Injection, Insulin, Per 5 Units Humulin 70/30 U-100 Insulin, Suspension	PX PX	HC ND	*****	OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge Novolog_u_	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution Novolog_flexpen_u-100,pen J1817	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Toujeo_max_u-300_solostar ,pen Soliqua_10033,pen Novolog_flexpen_u-100,pen	Toujeo Max U-300 Solostar, Insulin Pen Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Soliqua_10033,pen Novolog_flexpen_u-100,pen	Xultophy 100/3.6, Insulin Pen Soliqua 100/33, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_max_u-300_solostar ,pen Novolog_flexpen_u-100,pen J1815	Toujeo Max U-300 Solostar, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Toujeo_solostar_u-300,pen Novolog_flexpen_u-100,pen 00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX RX PX	N/A N/A ND	*****	N/A N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Xultophy_10036,pen Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IPX
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen J1817 J1815	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX RX PX PX	N/A N/A HC HC	*****	N/A N/A ED ED
Xultophy_10036,pen Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen	Xultophy 100/3.6, Insulin Pen Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_flexpen_u-100,pen J1815	Tresiba Flextouch U-200, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A IS
Novolog_flexpen_u-100,pen J1815 00002879901	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen J1815 00002879959	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Xultophy_10036,pen Novolog_flexpen_u-100,pen J1815	Xultophy 100/3.6, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Novolog_flexpen_u-100,pen J1815 Basaglar_kwikpen_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IP N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen J1815 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A IP IP
Novolog_flexpen_u-100,pen J1815 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A ED ED
Novolog_flexpen_u-100,pen J1815 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX RX PX	N/A N/A ND	*****	N/A N/A IP
S5550 Novolog_flexpen_u-100,pen Basaglar_kwikpen_u-100,pen	Insulin, Rapid Onset, 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Novolog_flexpen_u-100,pen J1817	Novolog Flexpen U-100 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A OA
Novolog_flexpen_u-100,pen 00088222033	Novolog Flexpen U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A AV
Novolog_flexpen_u-100,pen 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A IPX
Novolog_flexpen_u-100,pen 00169183311	Novolog Flexpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_flexpen_u-100,pen Fiasp_u-100,solution	Novolog Flexpen U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
S5550 Novolog_flexpen_u-100,pen	Insulin, Rapid Onset, 5 Units Novolog Flexpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1815 00002873001	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX PX	HC ND	*****	AV AV
Novolog_u-100_aspart,solution Novolog_mix_70-30_u-100 ,solut Apidra_u-100,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Soliqua_10033,pen Novolog_mix_70-30_u-100 ,solut	Soliqua 100/33, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-200,pen Novolog_mix_70-30_u-100 ,solut Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut J1817 J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Novolog_mix_70-30_u-100 ,solut J1815 Apidra_u-100,solution	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Novolog_mix_70-30_u-100 ,solut J1815	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_mix_70-30_u-100 ,solut 00169183311	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
00002873059	Humulin N Pen, Insulin Pen	PX	ND	*****	IP
J1815 00002879959 00002873059	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00002873059	Humulin N Pen, Insulin Pen	PX	ND	*****	ED
J1815 00002879959 00002873059	Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00002873059	Injection, Insulin, Per 5 Units Humulin N Pen, Insulin Pen	PX PX	HC ND	*****	AV AV
00088221905 00002873059	Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX	ND ND	*****	AV AV
Tresiba_flextouch_u-100,pen Novolog_u-100_aspart,solution Novolog_penfill_u100,cartridge	Tresiba Flextouch U-100, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Novolog Penfill U-100 Insulin, Cartridge	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Fiasp_flextouch_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Xultophy_10036,pen Novolog_penfill_u100,cartridge	Xultophy 100/3.6, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge	RX RX	N/A N/A	*****	N/A N/A
Novolog_penfill_u100,cartridge Fiasp_flextouch_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
J1815 00088221905 00002873059	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humulin N Pen, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	OA
00002873059	Humulin N Pen, Insulin Pen	PX	ND		OA
00002877001	Humulin 70/30 Insulin Pen, Insulin Pen	PX	ND	*****	AV
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC		IPX
Tresiba_flextouch_u-100,pen	Tresiba Flextouch U-100, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC		AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen Novolog_u-100_aspart,solution Fiasp_flextouch_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog U-100 Insulin Aspart, Solution, Subcutaneous Fiasp Flextouch U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_u-100_aspart,solution J1815 Basaglar_kwikpen_u-100,pen	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A IPX N/A
Novolog_u-100_aspart,solution J1815 00088222033	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV
Novolog_u-100_aspart,solution J1815 00169183411	Novolog U-100 Insulin Aspart, Solution, Subcutaneous Injection, Insulin, Per 5 Units Novolin N Nph U-100 Insulin, Suspension	RX PX PX	N/A HC ND	*****	N/A AV AV
00002879901 00002877059	Humalog Kwikpen Insulin, Insulin Pen Humulin 70/30 Insulin Pen, Insulin Pen	PX PX	ND ND	*****	IP IP
J1815 00002877059	Injection, Insulin, Per 5 Units Humulin 70/30 Insulin Pen, Insulin Pen	PX PX	HC ND	*****	IP IP
00169183711 00002877059	Novolin 70/30 U-100 Insulin, Suspension Humulin 70/30 Insulin Pen, Insulin Pen	PX PX	ND ND	*****	AV AV
Toujeo_max_u-300_solostar ,pen Soliqua_10033,pen	Toujeo Max U-300 Solostar, Insulin Pen Soliqua 100/33, Insulin Pen	RX RX	N/A N/A	*****	N/A N/A
Tresiba_flextouch_u-200,pen Soliqua_10033,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Soliqua 100/33, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
00002879701	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	IP
J1815 00002879701	Injection, Insulin, Per 5 Units Humalog Mix 75-25 Kwikpen, Insulin Pen	PX PX	HC ND	*****	IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00002879701	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	ED
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
00002879701	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	AV
Toujeo_max_u-300_solostar ,pen J1815	Toujeo Max U-300 Solostar, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A ED
Toujeo_max_u-300_solostar ,pen 00024587102	Toujeo Max U-300 Solostar, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen	RX PX	N/A ND	*****	N/A AV
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002879901	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	IP
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	IP
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	IP
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND	*****	AV
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	PX	ND	*****	AV
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Toujeo_solostar_u-300,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Toujeo_solostar_u-300,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Toujeo Solostar U-300 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IS
Toujeo_solostar_u-300,pen J1815 00088222033	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A AV AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Toujeo Solostar U-300 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen J1815	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Toujeo_solostar_u-300,pen J1817	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A IPX
Toujeo_solostar_u-300,pen J1817	Toujeo Solostar U-300 Insulin, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A OA
Toujeo_solostar_u-300,pen 00088222033	Toujeo Solostar U-300 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	RX PX	N/A ND	*****	N/A ED
Toujeo_solostar_u-300,pen 00169183311	Toujeo Solostar U-300 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
Tresiba_flextouch_u-200,pen Tresiba_flextouch_u-100,pen Basaglar_kwikpen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Tresiba Flextouch U-100, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen J1815	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IP
Tresiba_flextouch_u-100,pen J1815 J1815	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED AV
Tresiba_flextouch_u-100,pen J1815 00169183311	Tresiba Flextouch U-100, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A ED ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-100,pen J1817 J1815	Tresiba Flextouch U-100, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 00088222033	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	RX PX PX	N/A HC ND	*****	N/A IP IP
Tresiba_flextouch_u-200,pen J1815 J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED AV
Tresiba_flextouch_u-200,pen J1817 J1815	Tresiba Flextouch U-200, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	RX PX PX	N/A HC HC	*****	N/A ED ED
Tresiba_flextouch_u-200,pen J1815 Basaglar_kwipen_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Basaglar Kwipen U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-200,pen J1815 00169183311	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815 00169255013	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Tresiba Flextouch U-200, Insulin Pen	RX PX PX	N/A HC ND	*****	N/A AV AV
Tresiba_flextouch_u-200,pen J1815	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A OA
Tresiba_flextouch_u-200,pen J1817	Tresiba Flextouch U-200, Insulin Pen Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	RX PX	N/A HC	*****	N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Tresiba_flextouch_u-200,pen 00169183311	Tresiba Flextouch U-200, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A ED
Tresiba_flextouch_u-200,pen S5550	Tresiba Flextouch U-200, Insulin Pen Insulin, Rapid Onset, 5 Units	RX PX	N/A HC	*****	N/A AV
Novolog_flexpen_u-100,pen Novolog_70-30flexpen_u-100 ,pen Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_mix_70-30_u-100 ,solut Novolog_70-30flexpen_u-100 ,pen Apidra_solostar_u-100,pen	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous Novolog Mix 70-30flexpen U-100, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen Novolog_70-30flexpen_u-100 ,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Novolog Mix 70-30flexpen U-100, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-100,pen Novolog_flexpen_u-100,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-100, Insulin Pen Novolog Flexpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_flexpen_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Novolog Flexpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Toujeo_solostar_u-300,pen Novolog_penfill_u100,cartridge Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Novolog Penfill U-100 Insulin, Cartridge Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Novolog_penfill_u100,cartridge Apidra_u-100,solution Apidra_solostar_u-100,pen	Novolog Penfill U-100 Insulin, Cartridge Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Novolog_penfill_u100,cartridge	Novolog Penfill U-100 Insulin, Cartridge	RX	N/A	*****	N/A
Fiasp_flextouch_u-100,pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Novolog_u-100_aspart,solution	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	RX	N/A		N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A	N/A	
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A	N/A	
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A	*****	N/A
Soliqua_10033,pen	Soliqua 100/33, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A
Tresiba_flextouch_u-200,pen	Tresiba Flextouch U-200, Insulin Pen	RX	N/A		N/A
Toujeo_max_u-300_solostar ,pen	Toujeo Max U-300 Solostar, Insulin Pen	RX	N/A	N/A	
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A	N/A	
Toujeo_solostar_u-300,pen	Toujeo Solostar U-300 Insulin, Insulin Pen	RX	N/A	*****	N/A
Apidra_u-100,solution	Apidra U-100 Insulin, Solution, Subcutaneous	RX	N/A		N/A
Apidra_solostar_u-100,pen	Apidra Solostar U-100 Insulin, Insulin Pen	RX	N/A		N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Toujeo_solostar_u-300,pen J1815 Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Toujeo_solostar_u-300,pen Fiasp_flextouch_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100	Toujeo Solostar U-300 Insulin, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX RX	N/A N/A N/A N/A	*****	N/A N/A N/A N/A
Toujeo_solostar_u-300,pen Basaglar_kwikpen_u-100,pen Apidra_solostar_u-100,pen	Toujeo Solostar U-300 Insulin, Insulin Pen Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
Tresiba_flextouch_u-200,pen J1815 Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	RX PX RX	N/A HC N/A	*****	N/A AV N/A
Tresiba_flextouch_u-200,pen Fiasp_flextouch_u-100,pen Apidra_solostar_u-100,pen	Tresiba Flextouch U-200, Insulin Pen Fiasp Flextouch U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A
J1815 Apidra_solostar_u-100,pen	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	IPX N/A
J1815 Apidra_solostar_u-100,pen	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	IP N/A
J1815 J1815 Apidra_solostar_u-100,pen	Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	AV OA N/A
J1817 J1815 Apidra_solostar_u-100,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
Basaglar_kwikpen_u-100,pen Apidra_u-100,solution Apidra_solostar_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous Apidra Solostar U-100 Insulin, Insulin Pen	RX RX RX	N/A N/A N/A	*****	N/A N/A N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
Apidra_solostar_u-100,pen 00088250205	Apidra Solostar U-100 Insulin, Insulin Pen Apidra Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
J1815 00002880501 00002879901	Injection, Insulin, Per 5 Units Humulin N Nph Insulin Kwikpen, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP
00088222033 00002879901	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
J1815 00088221905 00002879901	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	ED ED ED
00088221905 00002879901	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	ED ED
00002879959 00002879901	Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00088221905 00002879959 00002879901	Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV
J1815 00169183311 00088221905 00002879901	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00169183311 00002879901	Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
J1815 00169183311 00002879959	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	IP IP IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 00002879959	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX	HC ND	*****	IP IP
00088222033 00002879959	Lantus U-100 Insulin, Solution, Subcutaneous Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	IP IP
J1817 J1817 00002879959	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	ED AV ED
J1817 J1815 00002879959	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC HC ND	*****	AV AV AV
J1815 00169183311 00088221905 00002879959	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX PX	HC ND ND ND	*****	AV AV AV AV
00024586903 00002879959	Toujeo Solostar U-300 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00088222033 00088221905 00002879959	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV
00169266015 00002879959	Tresiba Flextouch U-100, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
Xultophy_10036,pen J1815	Xultophy 100/3.6, Insulin Pen Injection, Insulin, Per 5 Units	RX PX	N/A HC	*****	N/A IPX
J1815 00088221905 00002879959	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen Humalog Kwikpen Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	OA
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	OA
00002879959	Humalog Kwikpen Insulin, Insulin Pen	PX	ND		OA
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	IPX
J1815		PX	HC		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IPX
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IPX
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002880359	Humulin 70/30 U-100 Kwikpen, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002882401	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00002882401	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND		IP
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX	HC	*****	IPX
J1815		PX	HC		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND		IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IP
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		IP
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		IP
S5550	Insulin, Rapid Onset, 5 Units	PX	HC	*****	IP
J1815	Injection, Insulin, Per 5 Units	PX	HC		IP
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00002880501	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND		ED
00002880501	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IS
J1815	Injection, Insulin, Per 5 Units	PX	HC		OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IS
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		IS
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	IS
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		IS
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	OA
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	PX	ND		OA
00002882401	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	ED
00002882401	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	AV
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND	*****	IP
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
Basaglar_kwikpen_u-100,pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	RX	N/A		N/A
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		AV
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	PX	ND		AV
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169183411	Novolin N Nph U-100 Insulin, Suspension	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
J1815	Injection, Insulin, Per 5 Units	PX	HC		OA
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND		OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	OA
J1815	Injection, Insulin, Per 5 Units	PX	HC		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		ED
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	PX	ND		OA
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	ED
00024592410	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	PX	ND		ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 J1815 Basaglar_kwikpen_u-100,pen	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	ED ED N/A
J1815 00169183311 00088221905	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	ED ED ED
J1815 00088250033	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	ED ED
J1815 00169255013	Injection, Insulin, Per 5 Units Tresiba Flextouch U-200, Insulin Pen	PX PX	HC ND	*****	ED ED
S5550 J1815	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	IS ED
S5550 J1815	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units	PX PX	HC HC	*****	AV ED
J1815	Injection, Insulin, Per 5 Units	PX	HC	*****	AV
J1817 J1817 J1815 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Injection, Insulin, Per 5 Units	PX PX PX PX	HC HC HC HC	*****	AV OA AV OA
J1817 J1817 J1815	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units	PX PX PX	HC HC HC	*****	ED AV AV
J1815 Basaglar_kwikpen_u-100,pen 00088250033	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Basaglar_kwikpen_u-100,pen 00169183311	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	PX RX PX	HC N/A ND	*****	AV N/A AV
J1815 Basaglar_kwikpen_u-100,pen 00169320111	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Fiasp U-100 Insulin, Solution, Subcutaneous	PX RX PX	HC N/A ND	*****	AV N/A AV
S5550 J1815 Basaglar_kwikpen_u-100,pen	Insulin, Rapid Onset, 5 Units Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX PX RX	HC HC N/A	*****	AV AV N/A
J1815 Fiasp_flextouch_u-100,pen	Injection, Insulin, Per 5 Units Fiasp Flextouch U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	AV N/A
J1815 00088221900	Injection, Insulin, Per 5 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00088222033 00088221905	Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169183311	Injection, Insulin, Per 5 Units Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	HC ND	*****	AV ED
J1815 00169183711 00169183311	Injection, Insulin, Per 5 Units Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX PX	HC ND ND	*****	AV AV AV
J1815 00169255013	Injection, Insulin, Per 5 Units Tresiba Flextouch U-200, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 00169266015	Injection, Insulin, Per 5 Units Tresiba Flextouch U-100, Insulin Pen	PX PX	HC ND	*****	AV AV
J1815 Apidra_u-100,solution	Injection, Insulin, Per 5 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX RX	HC N/A	*****	IPX N/A

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1815 Basaglar_kwikpen_u-100,pen Apidra_u-100,solution	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	PX RX RX	HC N/A N/A	*****	AV N/A N/A
Fiasp_flextouch_u-100,pen Apidra_u-100,solution	Fiasp Flextouch U-100 Insulin, Insulin Pen Apidra U-100 Insulin, Solution, Subcutaneous	RX RX	N/A N/A	*****	N/A N/A
00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen	PX	ND	*****	IP
J1817 J1815 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Injection, Insulin, Per 5 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX PX	HC HC ND	*****	OA OA OA
J1815 00088250205 00088221905	Injection, Insulin, Per 5 Units Apidra Solostar U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	HC ND ND	*****	OA OA OA
J1817 J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	IPX IP
00024587102	Toujeo Max U-300 Solostar, Insulin Pen	PX	ND	*****	AV
00088250205 00024587102	Apidra Solostar U-100 Insulin, Insulin Pen Toujeo Max U-300 Solostar, Insulin Pen	PX PX	ND ND	*****	AV AV
J1817 00088221905	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	IP IP
J1817 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	IP IP
00024588236	Afrezza, Cartridge With Inhaler	PX	ND	*****	AV
J1817 J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units	PX PX	HC HC	*****	IS ED

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
J1817 00088221905	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	HC ND	*****	ED ED
J1817 00088222033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV ED
J1817 00088250033	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Apidra U-100 Insulin, Solution, Subcutaneous	PX PX	HC ND	*****	AV AV
J1817 00169183411	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units Novolin N Nph U-100 Insulin, Suspension	PX PX	HC ND	*****	AV AV
J1815 Basaglar_kwikpen_u-100,pen	Injection, Insulin, Per 5 Units Basaglar Kwikpen U-100 Insulin, Insulin Pen	PX RX	HC N/A	*****	OA N/A
Basaglar_kwikpen_u-100,pen 00088221905	Basaglar Kwikpen U-100 Insulin, Insulin Pen Lantus Solostar U-100 Insulin, Insulin Pen	RX PX	N/A ND	*****	N/A AV
Basaglar_kwikpen_u-100,pen 00169183311	Basaglar Kwikpen U-100 Insulin, Insulin Pen Novolin R Regular U-100 Insulin, Solution, Injection	RX PX	N/A ND	*****	N/A AV
00088222033 00088221905	Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX	ND ND	*****	AV AV
00088250205 00088222033 00088221905	Apidra Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous Lantus Solostar U-100 Insulin, Insulin Pen	PX PX PX	ND ND ND	*****	AV AV AV
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IS
00088222033 00088222033	Lantus U-100 Insulin, Solution, Subcutaneous Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	ED AV
00088250205 00088222033	Apidra Solostar U-100 Insulin, Insulin Pen Lantus U-100 Insulin, Solution, Subcutaneous	PX PX	ND ND	*****	AV AV
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	PX	ND	*****	AV
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	PX	ND	*****	IP

Table 5. Full Code Distribution of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Code Category ¹	Code Type ²	Overall Counts	Encounter Care Setting ³
00169183311 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED AV
00169183311 00169183311	Novolin R Regular U-100 Insulin, Solution, Injection Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED OA
00169183711 00169183311	Novolin 70/30 U-100 Insulin, Suspension Novolin R Regular U-100 Insulin, Solution, Injection	PX PX	ND ND	*****	ED ED
00169183411 00169183411	Novolin N Nph U-100 Insulin, Suspension Novolin N Nph U-100 Insulin, Suspension	PX PX	ND ND	*****	ED AV
00169266015	Tresiba Flextouch U-100, Insulin Pen	PX	ND	*****	OA
00169320415	Fiasp Flextouch U-100 Insulin, Insulin Pen	PX	ND	*****	AV

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

¹Code category is defined using procedure codes (PX) and drug codes (RX)

²Code type is defined using the following criteria: non-applicable (N/A), Healthcare Common Procedure Coding System (HC), and National Drug Codes (ND)

³Care setting is defined using the following criteria: ambulatory visit (AV), Emergency Department (ED), inpatient hospital stay (IP), non-acute institutional stay (IS), other ambulatory visit (OA)

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category¹	Code Type²	Overall Counts
Lantus Solostar U-100 Insulin, Insulin Pen	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	22,592,233
Lantus U-100 Insulin, Solution, Subcutaneous	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	16,736,206
Novolog Flexpen U-100 Insulin, Insulin Pen	Novolog Flexpen U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	9,834,956
Levemir Flextouch U-100 Insulin, Insulin Pen	Levemir Flextouch U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	8,992,903
Humalog Kwikpen Insulin, Insulin Pen	Humalog Kwikpen Insulin, Insulin Pen	Insulin Pen	RX	N/A	7,464,308
Humalog U-100 Insulin, Solution, Subcutaneous	Humalog U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	7,303,449
Novolog U-100 Insulin Aspart, Solution, Subcutaneous	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	Solution	RX	N/A	7,272,886
Levemir U-100 Insulin, Solution, Subcutaneous	Levemir U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	5,298,788
Humulin N Nph U-100 Insulin, Suspension	Humulin N Nph U-100 Insulin, Suspension	Suspension	RX	N/A	3,182,646
Novolin 70/30 U-100 Insulin, Suspension	Novolin 70/30 U-100 Insulin, Suspension	Suspension	RX	N/A	2,793,768
Levemir Flexpen, Insulin Pen	Levemir Flexpen, Insulin Pen	Insulin Pen	RX	N/A	2,678,291
Novolog Mix 70-30flexpen U-100, Insulin Pen	Novolog Mix 70-30flexpen U-100, Insulin Pen	Insulin Pen	RX	N/A	2,380,976
Toujeo Solostar U-300 Insulin, Insulin Pen	Toujeo Solostar U-300 Insulin, Insulin Pen	Insulin Pen	RX	N/A	2,115,213
Novolin R Regular U-100 Insulin, Solution, Injection	Novolin R Regular U-100 Insulin, Solution, Injection	Solution	RX	N/A	2,082,752
Humulin R Regular U-100 Insulin, Solution, Injection	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	RX	N/A	2,033,892
Humulin 70/30 U-100 Insulin, Suspension	Humulin 70/30 U-100 Insulin, Suspension	Suspension	RX	N/A	1,959,951
Novolin N Nph U-100 Insulin, Suspension	Novolin N Nph U-100 Insulin, Suspension	Suspension	RX	N/A	1,793,509

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
J1815	Injection, Insulin, Per 5 Units		PX	HC	1,637,329
Basaglar Kwikpen U-100 Insulin, Insulin Pen	Basaglar Kwikpen U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	1,454,630
Humalog Mix 75-25 Kwikpen, Insulin Pen	Humalog Mix 75-25 Kwikpen, Insulin Pen	Insulin Pen	RX	N/A	1,414,663
Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	Solution	RX	N/A	1,296,378
Tresiba Flextouch U-200, Insulin Pen	Tresiba Flextouch U-200, Insulin Pen	Insulin Pen	RX	N/A	1,111,460
Tresiba Flextouch U-100, Insulin Pen	Tresiba Flextouch U-100, Insulin Pen	Insulin Pen	RX	N/A	784,149
Humalog Mix 75-25(U-100)insulin, Suspension	Humalog Mix 75-25(U-100)insulin, Suspension	Suspension	RX	N/A	769,131
Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	Solution	RX	N/A	492,980
Humulin N Nph Insulin Kwikpen, Insulin Pen	Humulin N Nph Insulin Kwikpen, Insulin Pen	Insulin Pen	RX	N/A	421,786
Humulin 70/30 U-100 Kwikpen, Insulin Pen	Humulin 70/30 U-100 Kwikpen, Insulin Pen	Insulin Pen	RX	N/A	392,922
Apidra Solostar U-100 Insulin, Insulin Pen	Apidra Solostar U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	282,002
Apidra U-100 Insulin, Solution, Subcutaneous	Apidra U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	235,823
Humulin R U-500 (Conc) Kwikpen, Insulin Pen	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	Insulin Pen	RX	N/A	175,646
Humalog Mix 50-50 Kwikpen, Insulin Pen	Humalog Mix 50-50 Kwikpen, Insulin Pen	Insulin Pen	RX	N/A	150,457
Humulin 70/30 Insulin Pen, Insulin Pen	Humulin 70/30 Insulin Pen, Insulin Pen	Insulin Pen	RX	N/A	114,154
Humulin N Pen, Insulin Pen	Humulin N Pen, Insulin Pen	Insulin Pen	RX	N/A	109,515
Soliqua 100/33, Insulin Pen	Soliqua 100/33, Insulin Pen	Insulin Pen	RX	N/A	68,806
Humalog Mix 50-50 Insulin U-100, Suspension	Humalog Mix 50-50 Insulin U-100, Suspension	Suspension	RX	N/A	68,569
Novolog Penfill U-100 Insulin, Cartridge	Novolog Penfill U-100 Insulin, Cartridge	Cartridge	RX	N/A	59,188
Humalog U-100 Insulin, Cartridge	Humalog U-100 Insulin, Cartridge	Cartridge	RX	N/A	58,066

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category¹	Code Type²	Overall Counts
J1817	Insulin For Administration Through Dme (I.E., Insulin Pump) Per 50 Units		PX	HC	55,289
Xultophy 100/3.6, Insulin Pen	Xultophy 100/3.6, Insulin Pen	Insulin Pen	RX	N/A	*****
00002751017	Humalog U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	22,326
Afrezza, Cartridge With Inhaler	Afrezza, Cartridge With Inhaler	Cartridge With Inhaler	RX	N/A	*****
00002821517	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	14,940
Toujeo Max U-300 Solostar, Insulin Pen	Toujeo Max U-300 Solostar, Insulin Pen	Insulin Pen	RX	N/A	14,131
00088222033	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	11,341
00169750111	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	Solution	PX	ND	10,690
00002751001	Humalog U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	8,529
Fiasp Flextouch U-100 Insulin, Insulin Pen	Fiasp Flextouch U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	7,731
00169183311	Novolin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	6,999
00169633910	Novolog Flexpen U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	6,254
00002821501	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	6,007
00169368712	Levemir U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	4,964
00088221905	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	4,663
Fiasp U-100 Insulin, Solution, Subcutaneous	Fiasp U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	*****
Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	Insulin Pen	RX	N/A	4,333

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
Admelog Solostar U-100 Insulin, Insulin Pen	Admelog Solostar U-100 Insulin, Insulin Pen	Insulin Pen	RX	N/A	2,061
00002879959	Humalog Kwikpen Insulin, Insulin Pen	Insulin Pen	PX	ND	1,707
00169643810	Levemir Flextouch U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	1,473
S5551	Insulin, Most Rapid Onset (Lispro Or Aspart); 5 Units		PX	HC	1,292
00169643910	Levemir Flexpen, Insulin Pen	Insulin Pen	PX	ND	1,034
S5553	Insulin, Long Acting; 5 Units		PX	HC	1,022
S5552	Insulin, Intermediate Acting (Nph Or Lente); 5 Units		PX	HC	954
S5550	Insulin, Rapid Onset, 5 Units		PX	HC	928
Admelog U-100 Insulin Lispro, Solution, Subcutaneous	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	Solution	RX	N/A	*****
00002850101	Humulin R U-500 (Conc) Insulin, Solution, Subcutaneous	Solution	PX	ND	783
00002831517	Humulin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	666
00002831501	Humulin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	600
00002879901	Humalog Kwikpen Insulin, Insulin Pen	Insulin Pen	PX	ND	554
00002871517	Humulin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	422
00169183411	Novolin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	420
00088250033	Apidra U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	376
00002751101	Humalog Mix 75-25(U-100)insulin, Suspension	Suspension	PX	ND	376
00088502101	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	363

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
00169369619	Novolog Mix 70-30flexpen U-100, Insulin Pen	Insulin Pen	PX	ND	362
00169183711	Novolin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	346
00002871501	Humulin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	285
00169183302	Novolin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	280
00169368512	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	Solution	PX	ND	280
Novolin 70-30 Flexpen U-100, Insulin Pen	Novolin 70-30 Flexpen U-100, Insulin Pen	Insulin Pen	RX	N/A	240
00002879759	Humalog Mix 75-25 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	211
00024586903	Toujeo Solostar U-300 Insulin, Insulin Pen	Insulin Pen	PX	ND	211
S5571	Insulin Delivery Device, Disposable Pen (Including Insulin); 3 MI Size		PX	HC	153
49999099410	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	150
00088250205	Apidra Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	145
00169183702	Novolin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	*****
00169330312	Novolog Penfill U-100 Insulin, Cartridge	Cartridge	PX	ND	123
00002880559	Humulin N Nph Insulin Kwikpen, Insulin Pen	Insulin Pen	PX	ND	110
00002821591	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	100
00169183402	Novolin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	91
00002873059	Humulin N Pen, Insulin Pen	Insulin Pen	PX	ND	75
00002751659	Humalog U-100 Insulin, Cartridge	Cartridge	PX	ND	67
00002879859	Humalog Mix 50-50 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	60

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
00169266015	Tresiba Flextouch U-100, Insulin Pen	Insulin Pen	PX	ND	55
54569231800	Humulin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	38
00169255013	Tresiba Flextouch U-200, Insulin Pen	Insulin Pen	PX	ND	*****
00002882427	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	Insulin Pen	PX	ND	37
54569231900	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	33
00002771559	Basaglar Kwikpen U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
00002877059	Humulin 70/30 Insulin Pen, Insulin Pen	Insulin Pen	PX	ND	24
00002879701	Humalog Mix 75-25 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	*****
00002880359	Humulin 70/30 U-100 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	*****
00002751201	Humalog Mix 50-50 Insulin U-100, Suspension	Suspension	PX	ND	20
54569383300	Novolin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	*****
54569560500	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	19
S5561	Insulin Delivery Device, Reusable Pen; 3 MI Size		PX	HC	17
00088502001	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	17
00002879801	Humalog Mix 50-50 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	16
35356010200	Humalog U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	15
54868510800	Humalog U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	15
S5570	Insulin Delivery Device, Disposable Pen (Including Insulin); 1.5 MI Size		PX	HC	15

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
S5560	Insulin Delivery Device, Reusable Pen; 1.5 MI Size		PX	HC	15
00088502005	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	15
00088221900	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	14
00024586901	Toujeo Solostar U-300 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
00002771227	Humalog Kwikpen Insulin, Insulin Pen	Insulin Pen	PX	ND	12
00169643890	Levemir Flextouch U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	12
54868277700	Novolog U-100 Insulin Aspart, Solution, Subcutaneous	Solution	PX	ND	12
00002873001	Humulin N Pen, Insulin Pen	Insulin Pen	PX	ND	*****
J1820	Injection, Insulin, Up To 100 Units		PX	HC	11
54868361900	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	*****
54868588300	Levemir Flexpen, Insulin Pen	Insulin Pen	PX	ND	*****
54868605400	Novolog Flexpen U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
00024592410	Admelog U-100 Insulin Lispro, Solution, Subcutaneous	Solution	PX	ND	*****
00002751601	Humalog U-100 Insulin, Cartridge	Cartridge	PX	ND	*****
54868438100	Humalog Mix 75-25(U-100)insulin, Suspension	Suspension	PX	ND	*****
00169320111	Fiasp U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	*****
55045350601	Humulin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	*****
00002771201	Humalog Kwikpen Insulin, Insulin Pen	Insulin Pen	PX	ND	*****

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
54868274600	Humulin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	*****
00002880501	Humulin N Nph Insulin Kwikpen, Insulin Pen	Insulin Pen	PX	ND	*****
S5565	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 150 Units		PX	HC	*****
54868462600	Lantus U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	*****
00002882401	Humulin R U-500 (Conc) Kwikpen, Insulin Pen	Insulin Pen	PX	ND	*****
54569646200	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
54569291800	Novolin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	*****
47918088236	Afrezza, Cartridge With Inhaler	Cartridge With Inhaler	PX	ND	*****
54569532100	Humalog Mix 75-25(U-100)insulin, Suspension	Suspension	PX	ND	*****
54868583600	Humalog U-100 Insulin, Cartridge	Cartridge	PX	ND	*****
00002880301	Humulin 70/30 U-100 Kwikpen, Insulin Pen	Insulin Pen	PX	ND	*****
00024587102	Toujeo Max U-300 Solostar, Insulin Pen	Insulin Pen	PX	ND	*****
00002771501	Basaglar Kwikpen U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
54868142901	Humulin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	*****
54868623100	Lantus Solostar U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
54868011200	Levemir U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	*****
68258889903	Novolog Flexpen U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****

Table 6. Total Code Counts of Insulin Dispensings and Administrations in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018

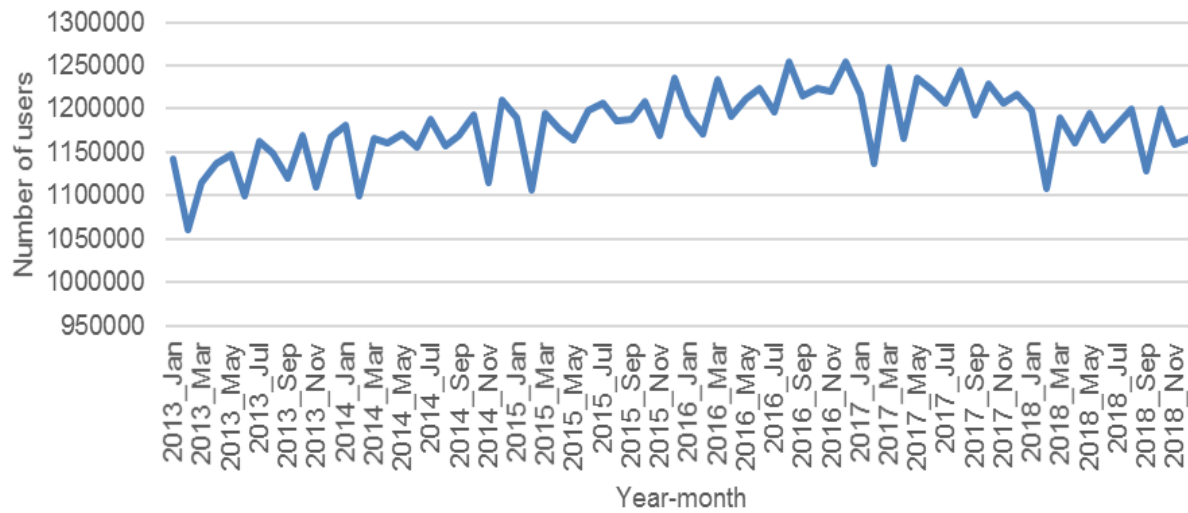
Code	Code Description	Preparation	Code Category ¹	Code Type ²	Overall Counts
00169255097	Tresiba Flextouch U-200, Insulin Pen	Insulin Pen	PX	ND	*****
00024588236	Afrezza, Cartridge With Inhaler	Cartridge With Inhaler	PX	ND	*****
00169320415	Fiasp Flextouch U-100 Insulin, Insulin Pen	Insulin Pen	PX	ND	*****
00002771459	Humalog Junior Kwikpen U-100, Insulin Pen, Half-Unit	Insulin Pen	PX	ND	*****
00002877001	Humulin 70/30 Insulin Pen, Insulin Pen	Insulin Pen	PX	ND	*****
49999099310	Humulin 70/30 U-100 Insulin, Suspension	Suspension	PX	ND	*****
00002831591	Humulin N Nph U-100 Insulin, Suspension	Suspension	PX	ND	*****
S5566	Insulin Cartridge For Use In Insulin Delivery Device Other Than Pump; 300 Units		PX	HC	*****
54569630000	Levemir U-100 Insulin, Solution, Subcutaneous	Solution, Subcutaneous	PX	ND	*****
Levemir,solution	Levemir, Solution, Subcutaneous	Solution, Subcutaneous	RX	N/A	*****
50090049700	Novolin R Regular U-100 Insulin, Solution, Injection	Solution	PX	ND	*****
54868520100	Novolog Mix 70-30 U-100 Insulin, Solution, Subcutaneous	Solution	PX	ND	*****
54868532701	Novolog Mix 70-30flexpen U-100, Insulin Pen	Insulin Pen	PX	ND	*****
00169291115	Xultophy 100/3.6, Insulin Pen	Insulin Pen	PX	ND	*****

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

¹Code category is defined using procedure codes (PX) and drug codes (RX)

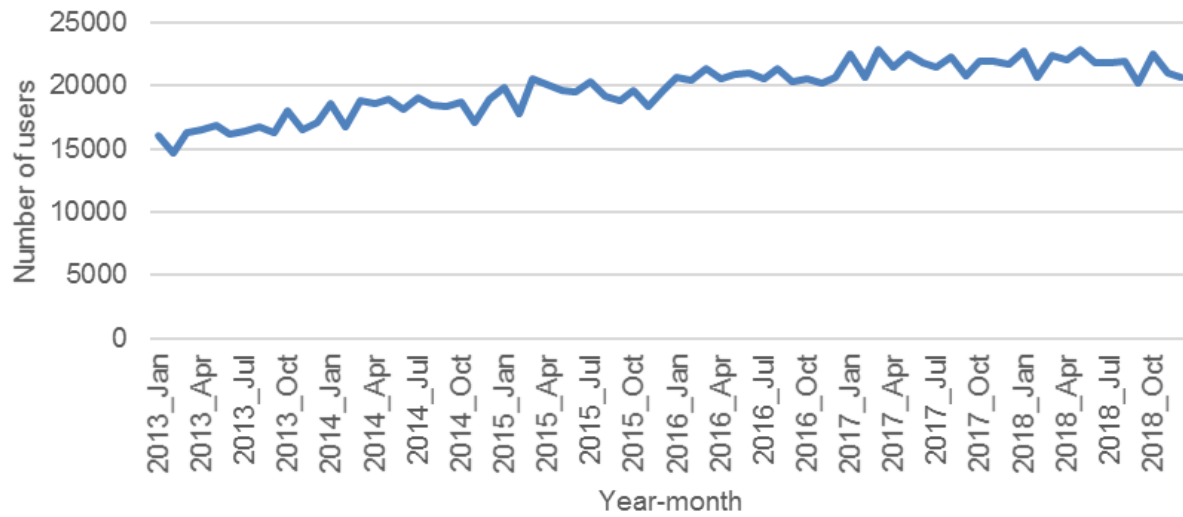
²Code type is defined using the following criteria: non-applicable (N/A), Healthcare Common Procedure Coding System (HC), and National Drug Codes (ND)

Figure 1. Counts of Users with an Insulin Dispensing or Administration Defined Using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



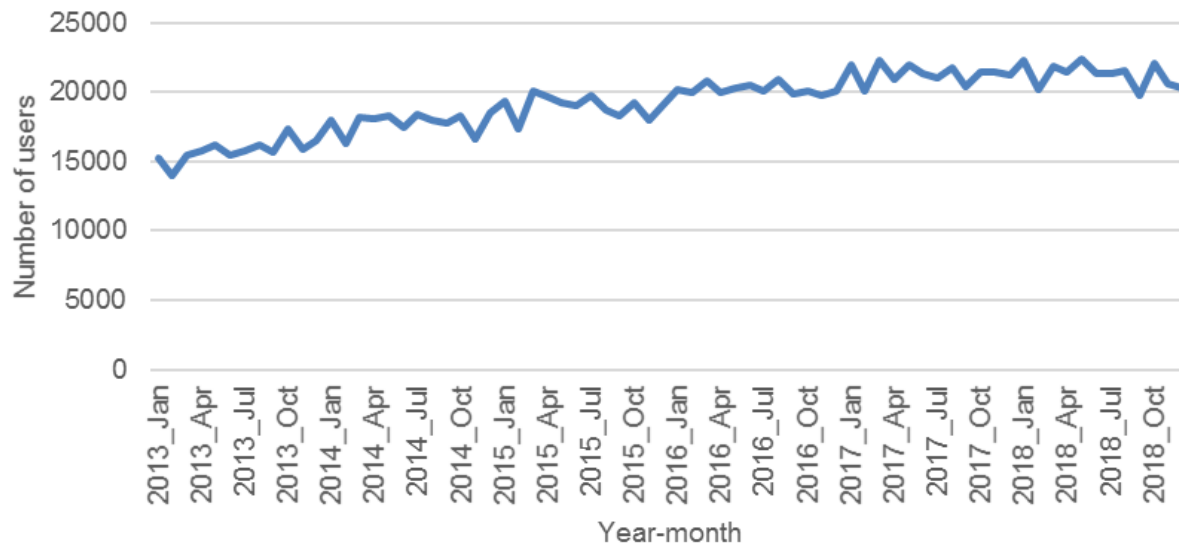
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 2. Counts of Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Codes in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 3. Counts of Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1815 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



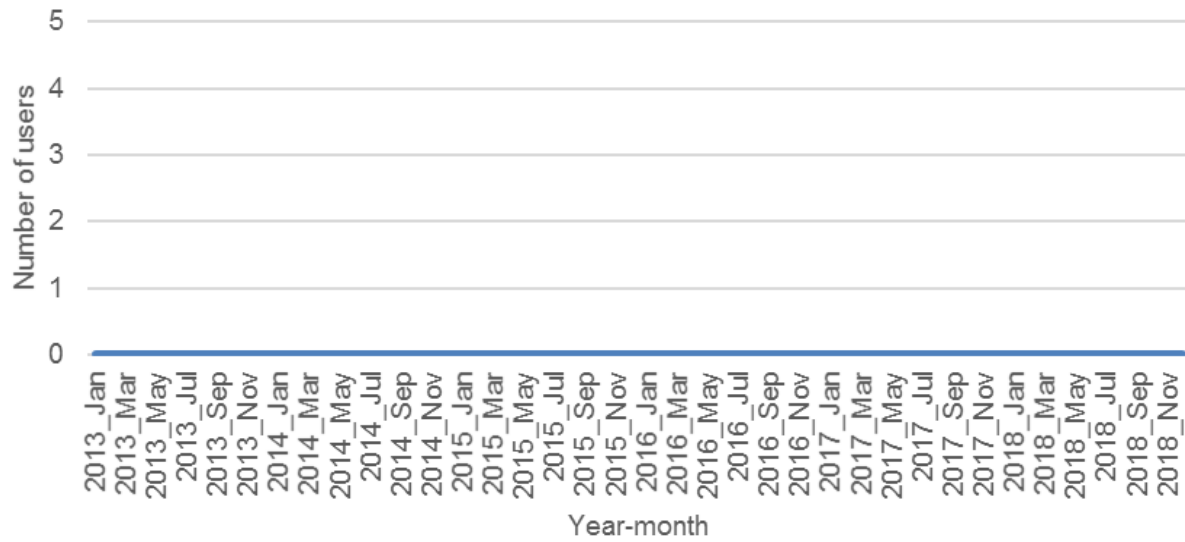
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 4. Counts of Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code J1817 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



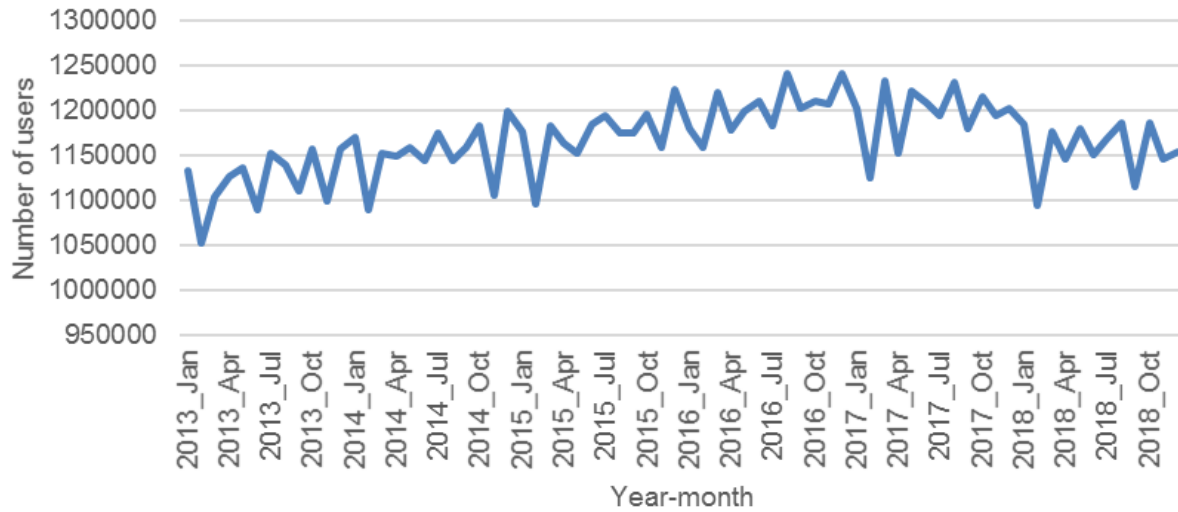
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 5. Counts of Users with an Insulin Dispensing or Administration Defined Using Only Healthcare Common Procedure Coding System (HCPCS) Code K0548 in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



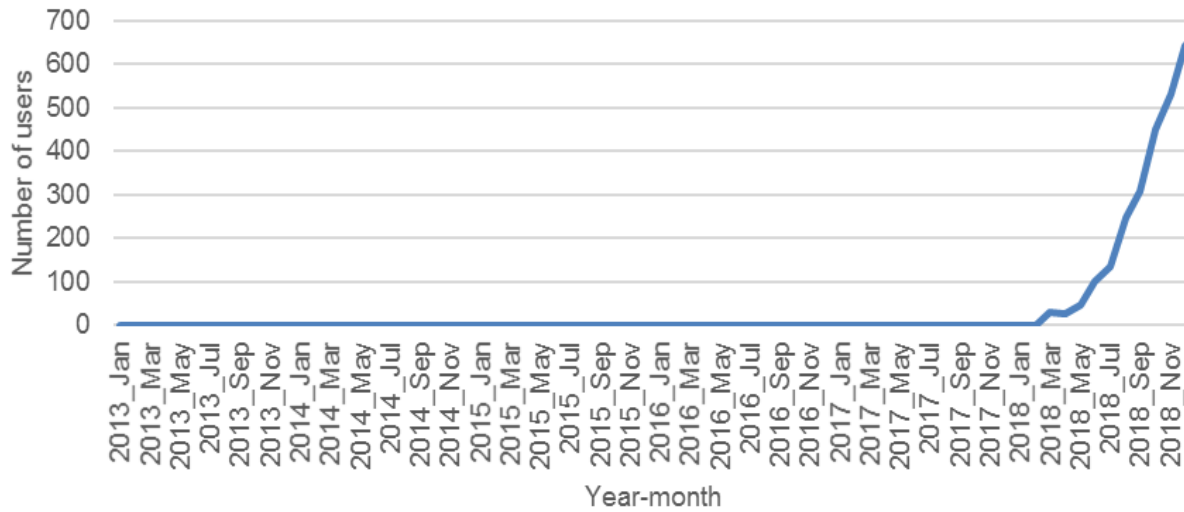
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 6. Counts of Users with an Insulin Dispensing or Administration Defined Using Only National Drug Codes (NDCs) in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



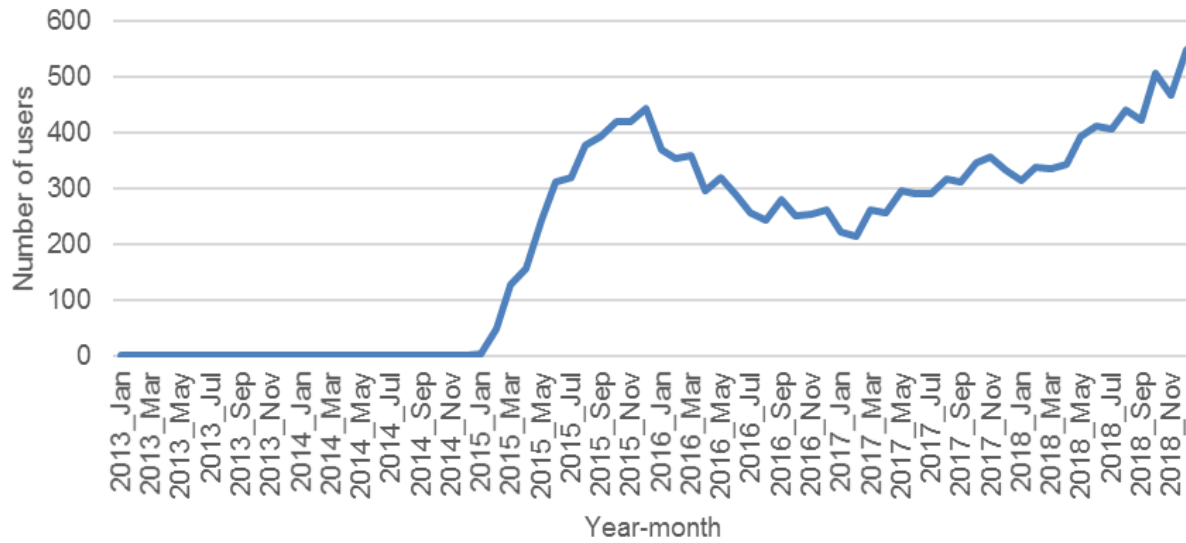
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 7. Counts of Users with an Admelog and Admelog SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



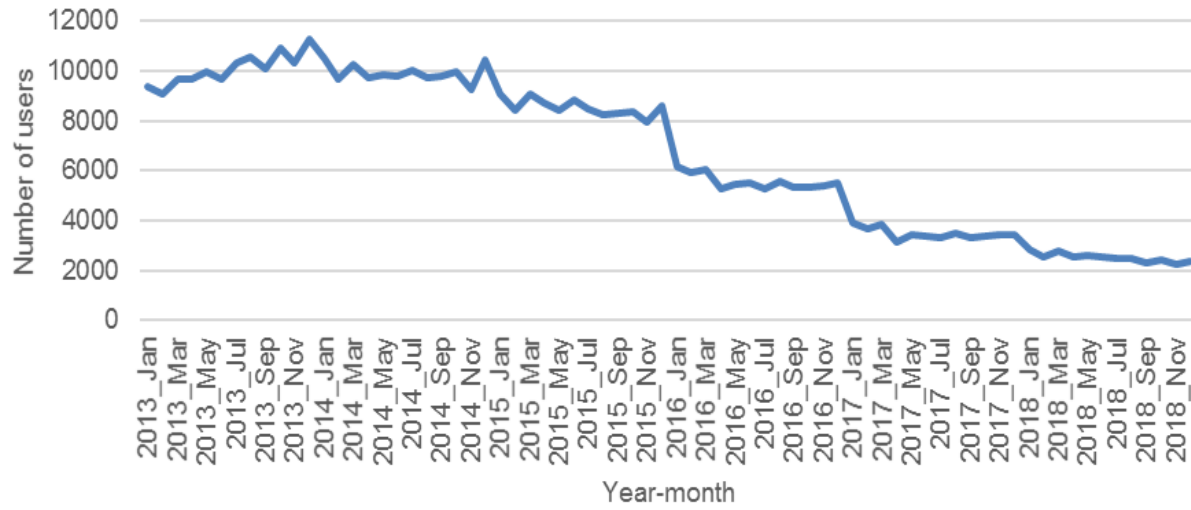
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 8. Counts of Users with an Afrezza Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



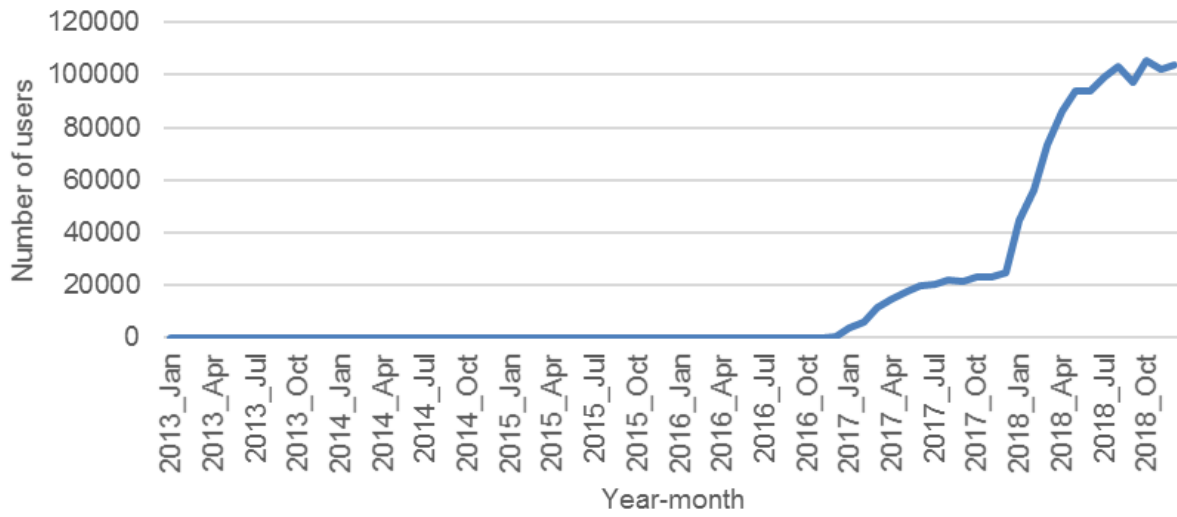
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 9. Counts of Users with an Apidra and Apidra SoloStar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



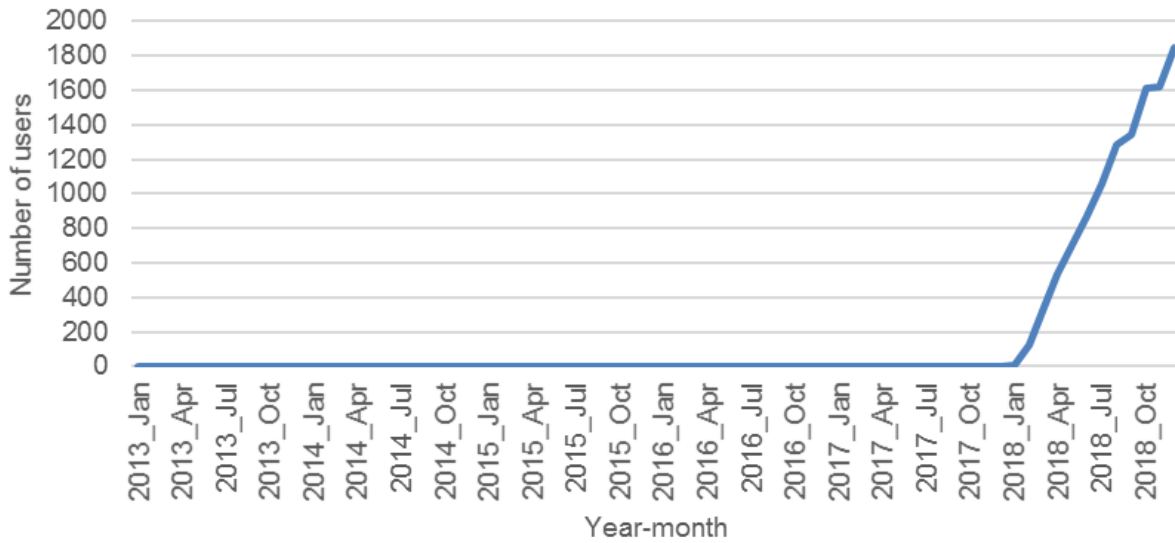
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 10. Counts of Users with a Basaglar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 11. Counts of Users with a Fiasp Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



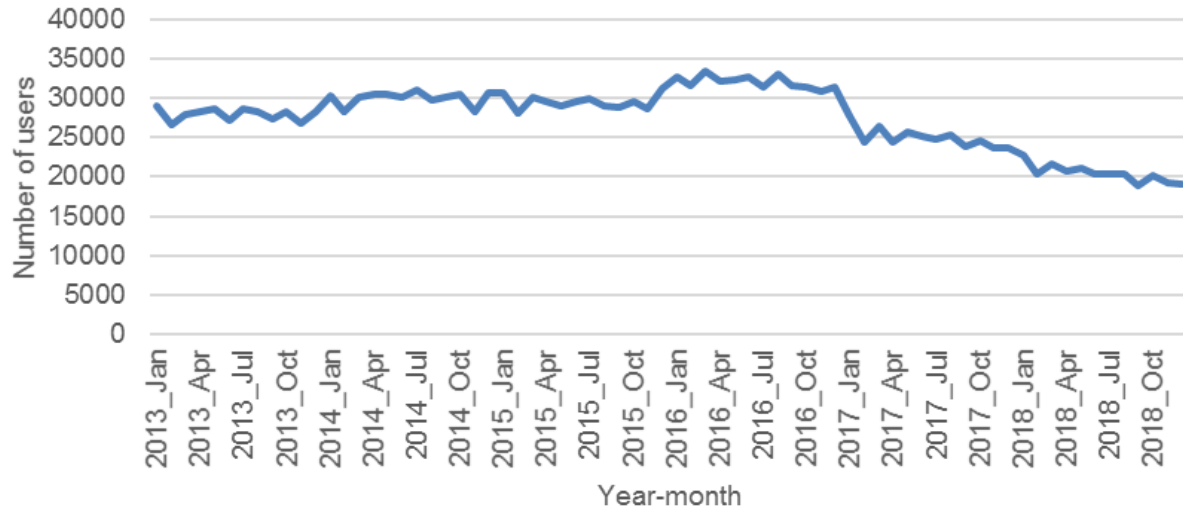
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 12. Counts of Users with a Humalog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 13. Counts of Users with a Humalog Mix 75/25 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



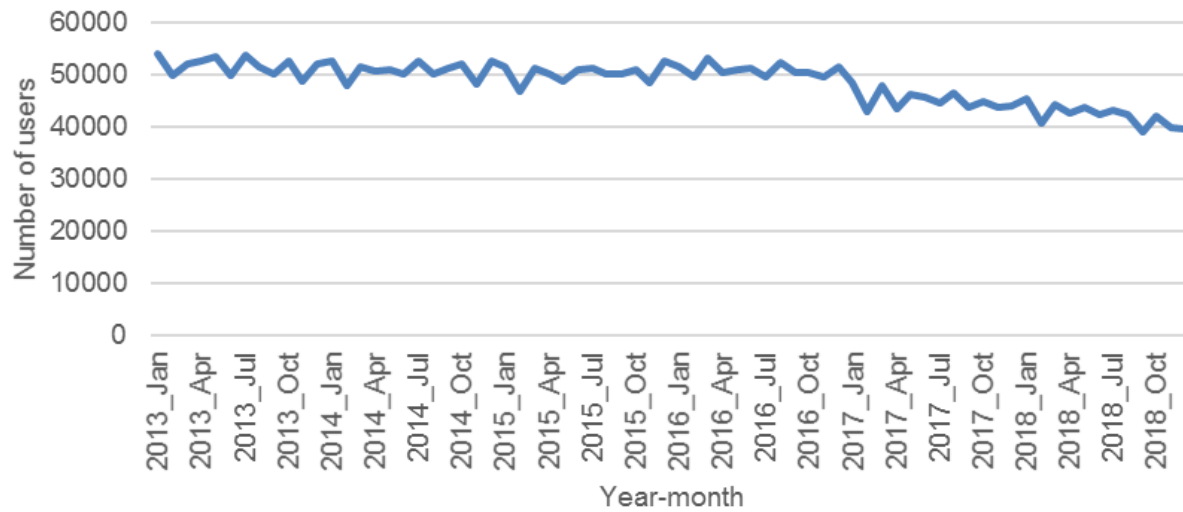
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 14. Counts of Users with a Humalog Mix 50/50 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 15. Counts of Users with a Humulin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



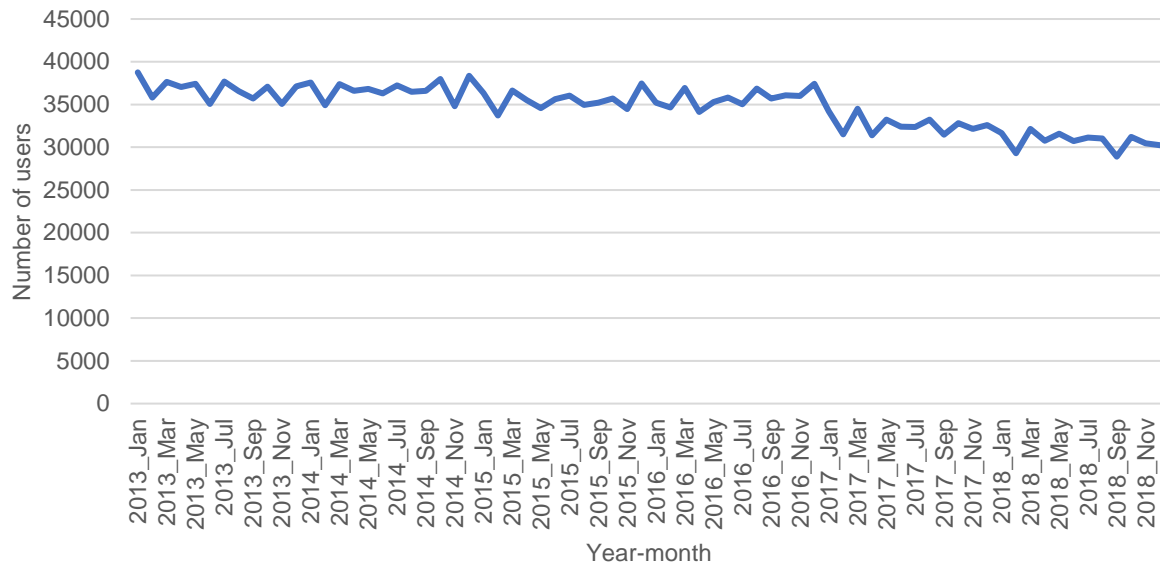
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 16. Counts of Users with a Humulin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



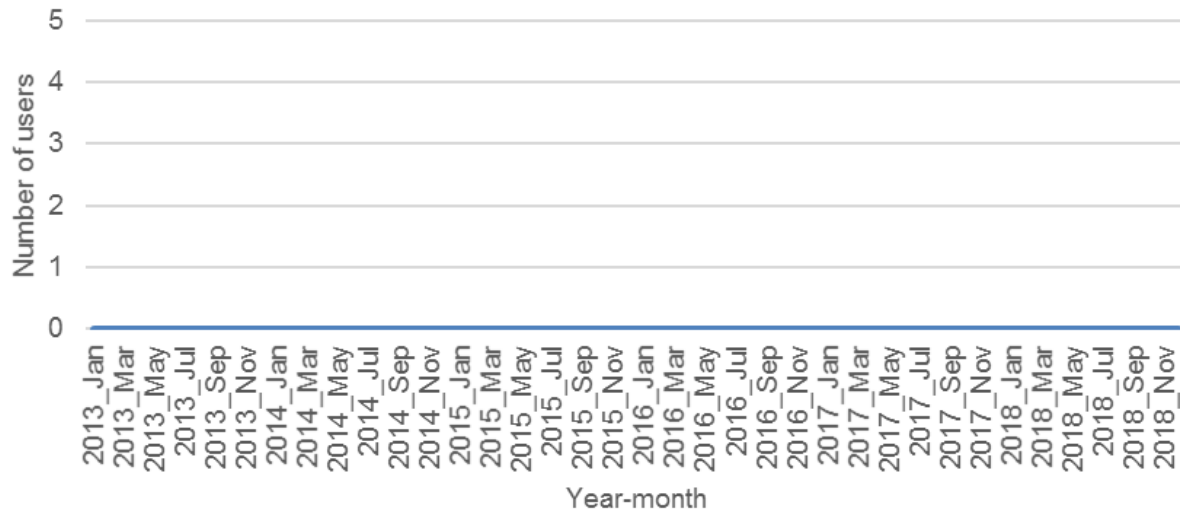
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 17. Counts of Users with a Humulin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



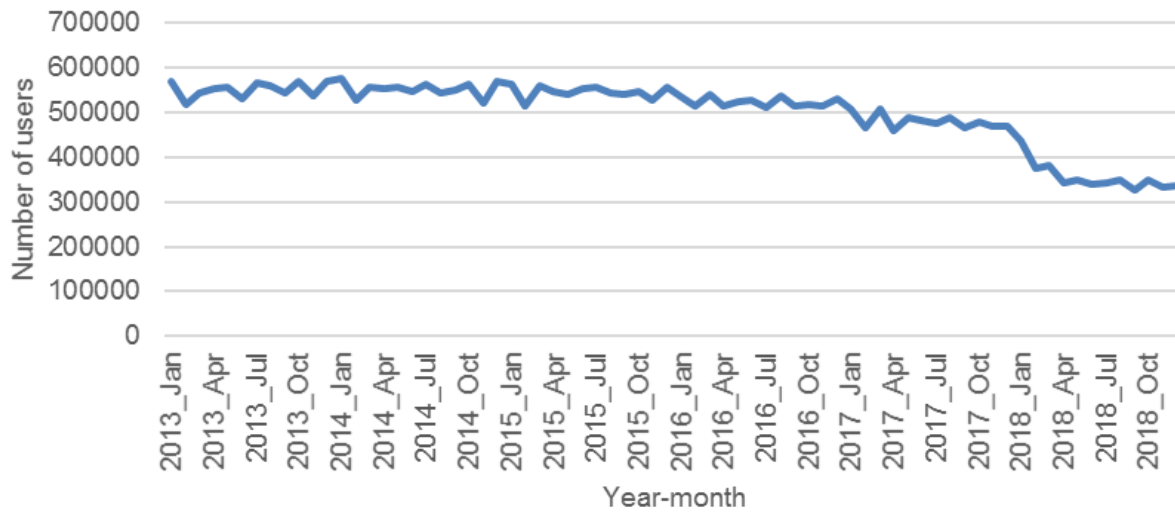
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 18. Counts of Users with an Insulin Lispro Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



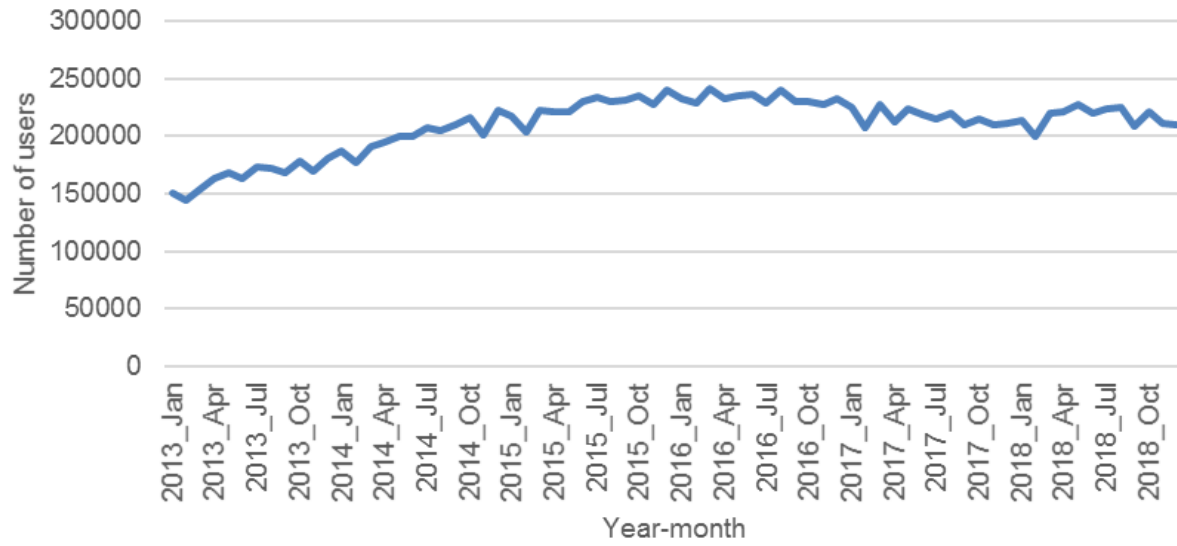
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 19. Counts of Users with a Lantus and Lantus Solostar Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



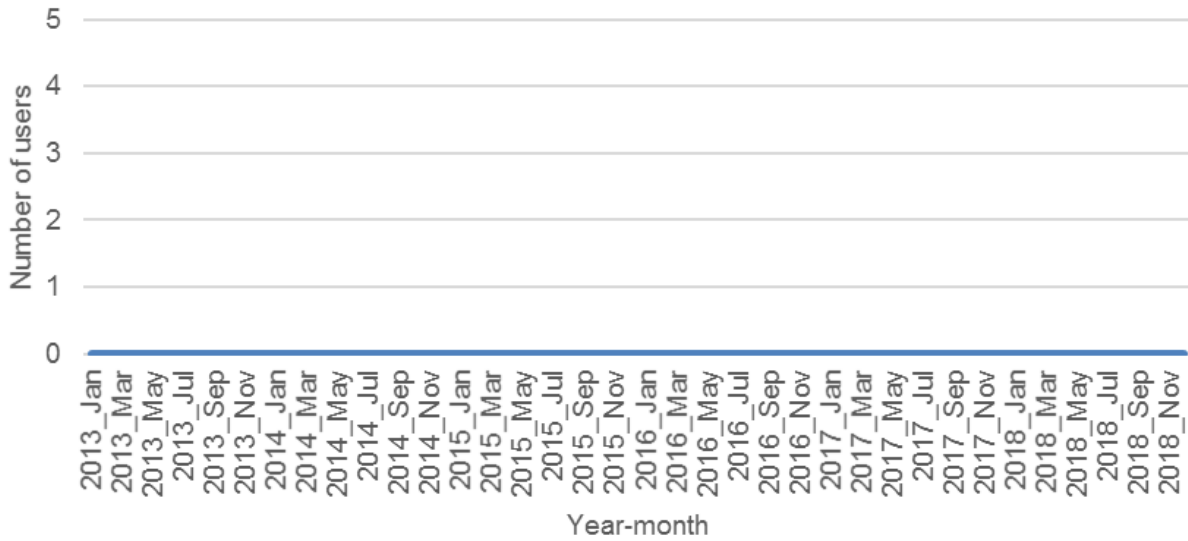
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 20. Counts of Users with a Levemir Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



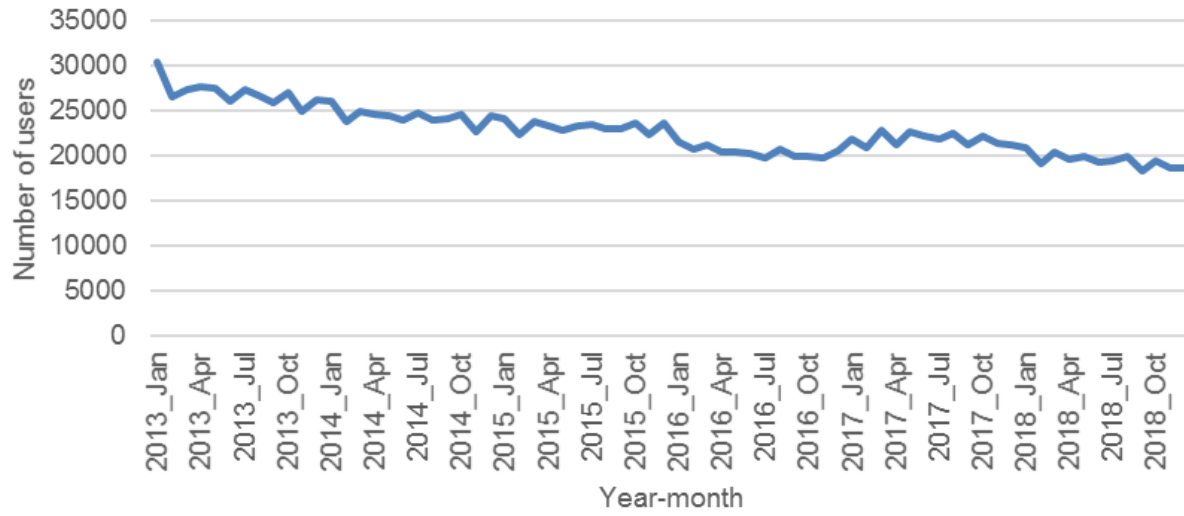
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 21. Counts of Users with a Myxredlin Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



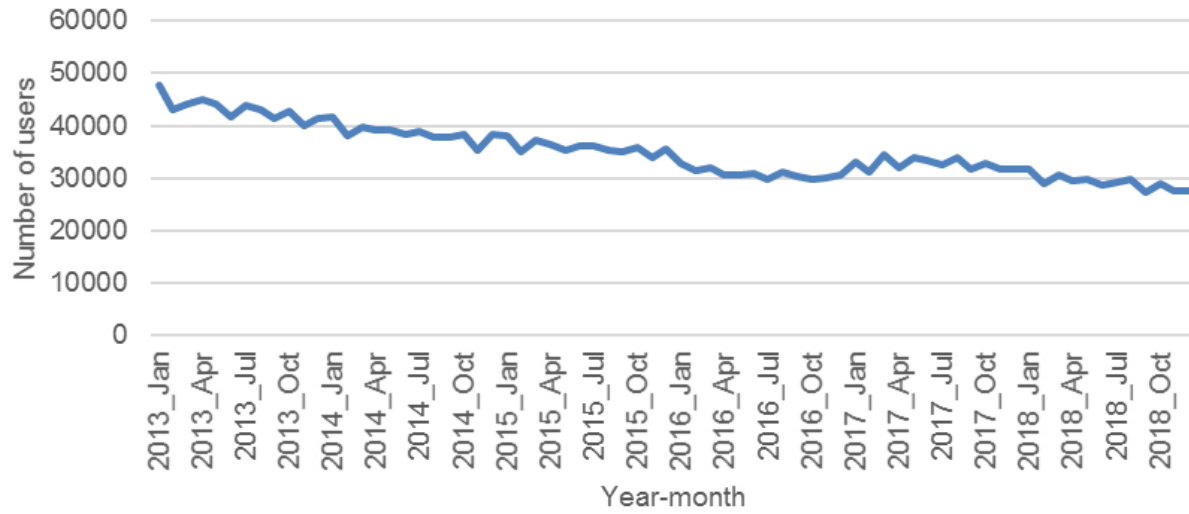
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 22. Counts of Users with a Novolin N Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 23. Counts of Users with a Novolin 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



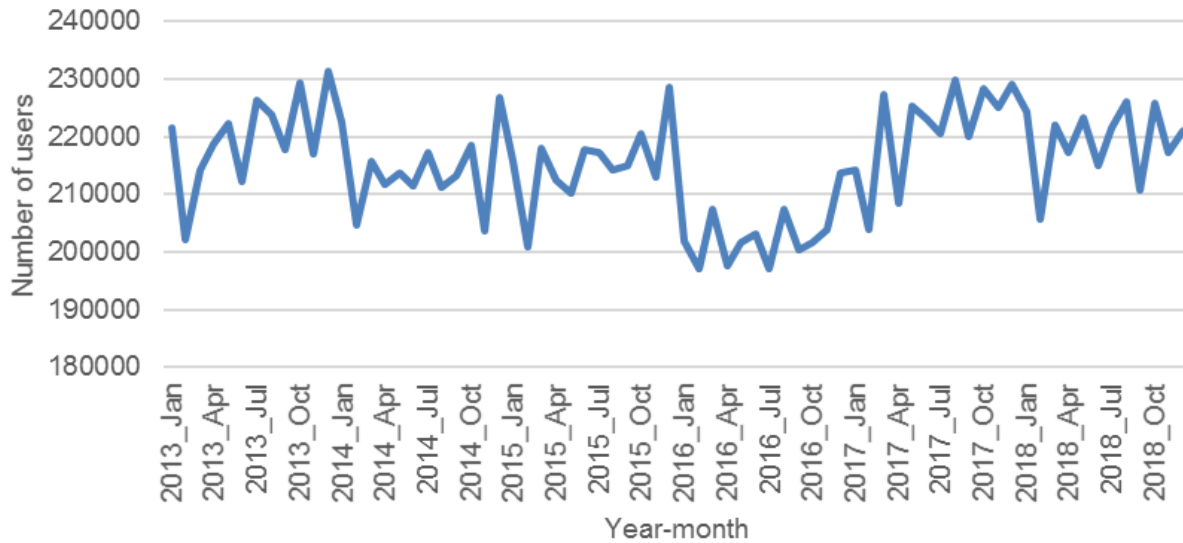
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 24. Counts of Users with a Novolin R Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 25. Counts of Users with a Novolog Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



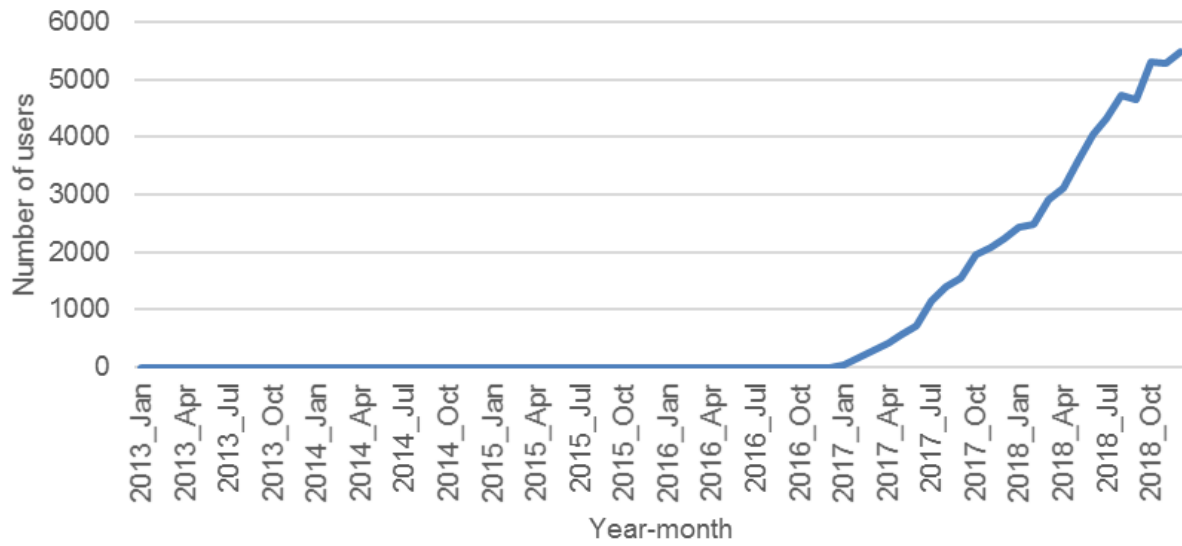
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 26. Counts of Users with a Novolog Mix 70/30 Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



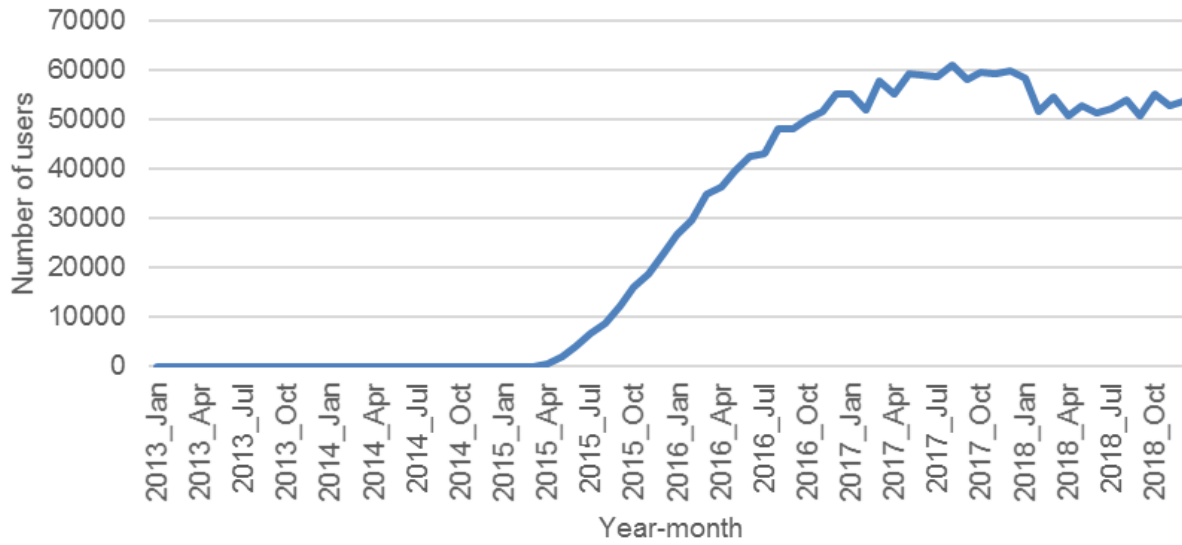
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 27. Counts of Users with a Soliqua Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



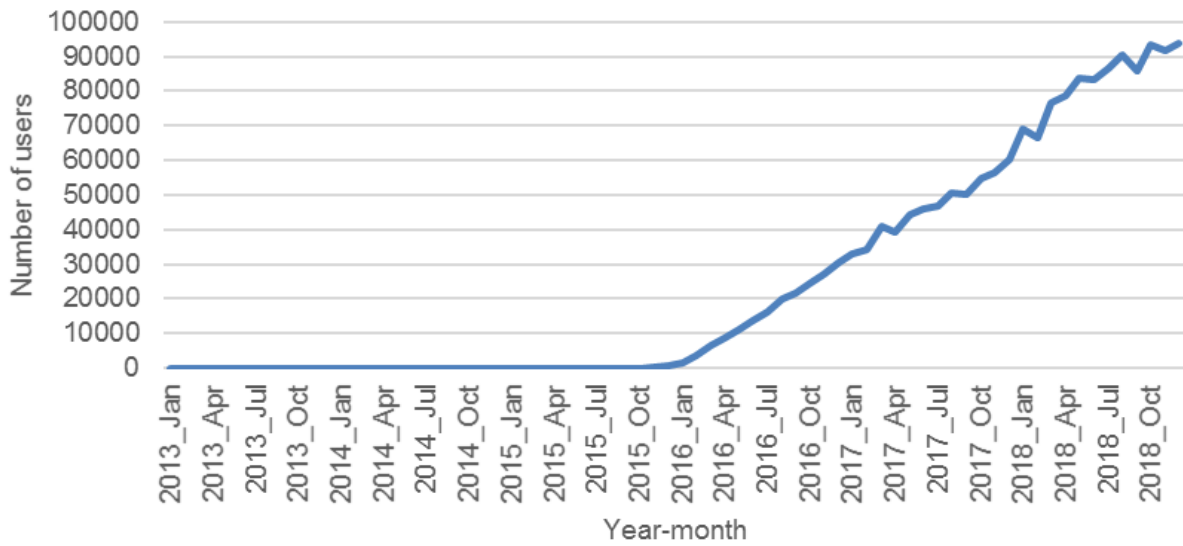
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 28. Counts of Users with a Toujeo Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



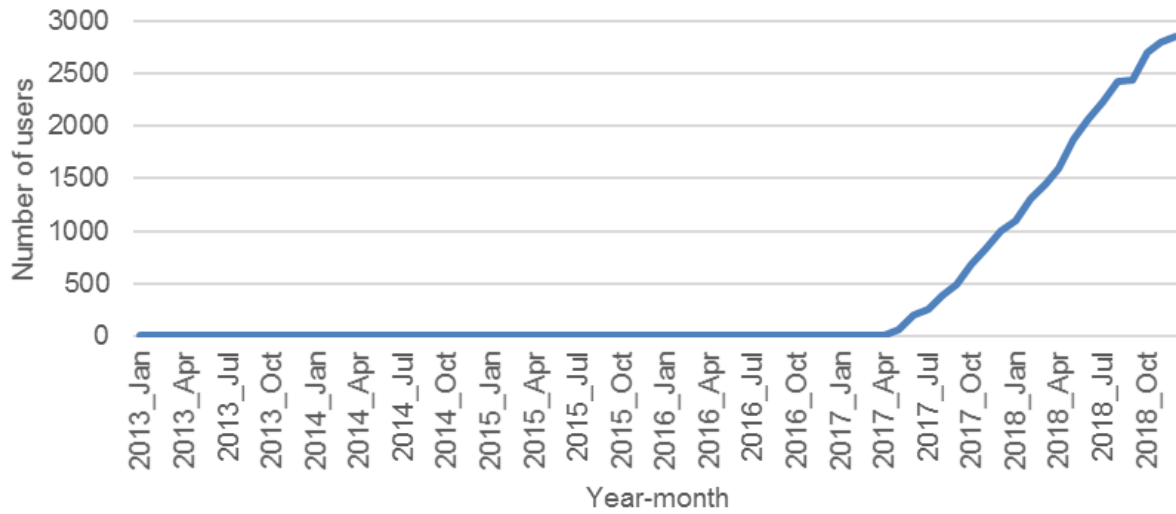
*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 29. Counts of Users with a Tresiba Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Figure 30. Counts of Users with a Xultophy Insulin Dispensing or Administration in the Sentinel Distributed Database (SDD) between January 1, 2013 and December 31, 2018*



*These are crude counts, not adjusted for the size of the enrolled population. Some fluctuation might be due to changes in the size of the source population.

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (March 17, 2020)

DP ID	Start Date ¹	End Date ¹
DP01	1/1/2000	12/31/2018
DP02	1/1/2005	7/31/2018
DP03	1/1/2000	4/30/2018
DP04	1/1/2008	12/31/2018
DP05	1/1/2000	12/31/2018
DP06	1/1/2000	12/31/2017
DP07	1/1/2010	12/31/2018
DP08	1/1/2000	12/31/2018
DP09	1/1/2000	12/31/2018
DP10	6/1/2007	12/31/2018
DP11	1/1/2000	12/31/2018
DP12	1/1/2004	12/31/2018
DP13	1/1/2000	12/31/2018
DP14	1/1/2008	12/31/2018
DP15	1/1/2006	12/31/2018
DP16	1/1/2012	6/30/2018

¹The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.

Appendix B. List of Generic and Brand Names of Medical Products Used to Define Exposures and Baseline Characteristics in this Request

Generic Name	Brand Name
Admelog and Admelog SoloStar	
Insulin lispro	Admelog SoloStar U-100 Insulin
Insulin lispro	Admelog U-100 Insulin lispro
Afrezza	
Insulin regular, human	Afrezza
Apidra and Apidra SoloStar	
Insulin glulisine	Apidra SoloStar U-100 Insulin
Insulin glulisine	Apidra U-100 Insulin
Basaglar	
Insulin glargine, human recombinant analog	Basaglar KwikPen U-100 Insulin
Fiasp	
Insulin aspart (niacinamide)	Fiasp FlexTouch U-100 Insulin
Insulin aspart (niacinamide)	Fiasp Penfill U-100 Insulin
Insulin aspart (niacinamide)	Fiasp U-100 Insulin
Humalog	
Insulin lispro	Humalog Junior KwikPen U-100
Insulin lispro	Humalog KwikPen Insulin
Insulin lispro	Humalog U-100 Insulin
Humalog Mix 50-50	
Insulin lispro protamine and Insulin lispro	Humalog Mix 50-50 Insuln U-100
Insulin lispro protamine and Insulin lispro	Humalog Mix 50-50 KwikPen
Humalog Mix 75-25	
Insulin lispro protamine and Insulin lispro	Humalog Mix 75-25 KwikPen
Insulin lispro protamine and Insulin lispro	Humalog Mix 75-25(U-100)Insuln
Humulin 70/30	
Insulin NPH human isophane/Insulin regular, human	Humulin 70/30 Insulin Pen
Insulin NPH human isophane/Insulin regular, human	Humulin 70/30 U-100 Insulin
Insulin NPH human isophane/Insulin regular, human	Humulin 70/30 U-100 KwikPen
Insulin human	Humulin
Humulin N	
Insulin NPH human isophane	Humulin N NPH Insulin KwikPen
Insulin NPH human isophane	Humulin N NPH U-100 Insulin
Insulin NPH human isophane	Humulin N Pen
Humulin R	
Insulin regular, human	Humulin R Regular U-100 Insuln
Insulin regular, human	Humulin R U-500 (Conc) Insulin
Insulin regular, human	Humulin R U-500 (Conc) Kwikpen
Insulin lispro	
Insulin lispro	Insulin lispro
Lantus and Lantus Solostar	
Insulin glargine, human recombinant analog	Lantus Solostar U-100 Insulin
Insulin glargine, human recombinant analog	Lantus U-100 Insulin

Appendix B. List of Generic and Brand Names of Medical Products Used to Define Exposures and Baseline Characteristics in this Request

Generic Name	Brand Name
Levemir	
Insulin detemir	Levemir Flexpen
Insulin detemir	Levemir FlexTouch U-100 Insuln
Insulin detemir	Levemir U-100 Insulin
Insulin detemir	Levemir
Myxredlin	
Insulin regular, human in 0.9 % sodium chloride	Myxredlin
Novolin 70/30	
Insulin NPH human isophane/Insulin regular, human	Novolin 70/30 U-100 Insulin
Insulin NPH human isophane/Insulin regular, human	Novolin 70-30 FlexPen U-100
Novolin N	
Insulin NPH human isophane	Novolin N NPH U-100 Insulin
Novolin R	
Insulin regular, human	Novolin R Regular U-100 Insuln
Novolog	
Insulin aspart	Novolog Flexpen U-100 Insulin
Insulin aspart	Novolog PenFill U-100 Insulin
Insulin aspart	Novolog U-100 Insulin aspart
Novolog Mix 70-30	
Insulin aspart protamine human/Insulin aspart	Novolog Mix 70-30 U-100 Insuln
Insulin aspart protamine human/Insulin aspart	Novolog Mix 70-30FlexPen U-100
Soliqua	
Insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
Toujeo	
Insulin glargine, human recombinant analog	Toujeo Max U-300 SoloStar
Insulin glargine, human recombinant analog	Toujeo SoloStar U-300 Insulin
Tresiba	
Insulin degludec	Tresiba FlexTouch U-100
Insulin degludec	Tresiba FlexTouch U-200
Insulin degludec	Tresiba U-100 Insulin
Xultophy	
Insulin degludec/liraglutide	Xultophy 100/3.6

Appendix C. List of Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Exposures in this Request

Code	Description	Code Type	Code Category
K0548	Injection, insulin lispro, up to 50 units	HCPCS	Procedure
J1815	Injection, insulin, per 5 units	HCPCS	Procedure
J1820	Injection, insulin, up to 100 units	HCPCS	Procedure
J1817	Insulin for administration through DME (i.e., insulin pump) per 50 units	HCPCS	Procedure
S5552	Insulin, intermediate acting (NPH or LENTE); 5 units	HCPCS	Procedure
S5553	Insulin, long acting; 5 units	HCPCS	Procedure
S5551	Insulin, most rapid onset (Lispro or Aspart); 5 units	HCPCS	Procedure
S5550	Insulin, rapid onset, 5 units	HCPCS	Procedure
S5565	Insulin cartridge for use in insulin delivery device other than pump; 150 units	HCPCS	Procedure
S5566	Insulin cartridge for use in insulin delivery device other than pump; 300 units	HCPCS	Procedure
S5570	Insulin delivery device, disposable pen (including insulin); 1.5 ml size	HCPCS	Procedure
S5571	Insulin delivery device, disposable pen (including insulin); 3 ml size	HCPCS	Procedure
S5560	Insulin delivery device, reusable pen; 1.5 ml size	HCPCS	Procedure
S5561	Insulin delivery device, reusable pen; 3 ml size	HCPCS	Procedure

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Type 1 Diabetes			
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye		Diagnosis
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.37	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM	Diagnosis
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM	Diagnosis
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E10.354	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM	Diagnosis
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM	Diagnosis
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.353	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM	Diagnosis
E10.352	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM	Diagnosis
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM	Diagnosis
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM	Diagnosis
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.355	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM	Diagnosis
E10.35	Type 1 diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E10	Type 1 diabetes mellitus	ICD-10-CM	Diagnosis
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM	Diagnosis
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM	Diagnosis
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM	Diagnosis
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM	Diagnosis
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM	Diagnosis
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM	Diagnosis
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM	Diagnosis
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM	Diagnosis
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM	Diagnosis
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM	Diagnosis
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM	Diagnosis
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM	Diagnosis
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM	Diagnosis
E10.5	Type 1 diabetes mellitus with circulatory complications	ICD-10-CM	Diagnosis
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM	Diagnosis
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM	Diagnosis
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM	Diagnosis
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	ICD-10-CM	Diagnosis
E10.61	Type 1 diabetes mellitus with diabetic arthropathy	ICD-10-CM	Diagnosis
E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM	Diagnosis
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM	Diagnosis
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM	Diagnosis
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM	Diagnosis
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	ICD-10-CM	Diagnosis
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM	Diagnosis
E10.2	Type 1 diabetes mellitus with kidney complications	ICD-10-CM	Diagnosis
E10.4	Type 1 diabetes mellitus with neurological complications	ICD-10-CM	Diagnosis
E10.3	Type 1 diabetes mellitus with ophthalmic complications	ICD-10-CM	Diagnosis
E10.59	Type 1 diabetes mellitus with other circulatory complications	ICD-10-CM	Diagnosis
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM	Diagnosis
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM	Diagnosis
E10.628	Type 1 diabetes mellitus with other skin complications	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM	Diagnosis
E10.6	Type 1 diabetes mellitus with other specified complications	ICD-10-CM	Diagnosis
E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM	Diagnosis
E10.31	Type 1 diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM	Diagnosis
E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM	Diagnosis
E10.621	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM	Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM	Diagnosis
E10.64	Type 1 diabetes mellitus with hypoglycemia	ICD-10-CM	Diagnosis
E10.1	Type 1 diabetes mellitus with ketoacidosis	ICD-10-CM	Diagnosis
E10.63	Type 1 diabetes mellitus with oral complications	ICD-10-CM	Diagnosis
E10.622	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM	Diagnosis
E10.62	Type 1 diabetes mellitus with skin complications	ICD-10-CM	Diagnosis
E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM	Diagnosis
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM	Diagnosis
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM	Diagnosis
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM	Diagnosis
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM	Diagnosis
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E10.32	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E10.33	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	ICD-10-CM	Diagnosis
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E10.34	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Type 2 Diabetes			
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM	Diagnosis
E11.37	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM	Diagnosis
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.354	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM	Diagnosis
E11.353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM	Diagnosis
E11.352	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM	Diagnosis
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM	Diagnosis
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM	Diagnosis
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM	Diagnosis
E11.355	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM	Diagnosis
E11	Type 2 diabetes mellitus	ICD-10-CM	Diagnosis
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM	Diagnosis
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM	Diagnosis
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM	Diagnosis
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM	Diagnosis
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM	Diagnosis
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM	Diagnosis
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM	Diagnosis
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM	Diagnosis
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM	Diagnosis
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM	Diagnosis
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM	Diagnosis
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM	Diagnosis
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM	Diagnosis
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM	Diagnosis
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.5	Type 2 diabetes mellitus with circulatory complications	ICD-10-CM	Diagnosis
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM	Diagnosis
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM	Diagnosis
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	ICD-10-CM	Diagnosis
E11.61	Type 2 diabetes mellitus with diabetic arthropathy	ICD-10-CM	Diagnosis
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM	Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM	Diagnosis
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM	Diagnosis
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	ICD-10-CM	Diagnosis
E11.2	Type 2 diabetes mellitus with kidney complications	ICD-10-CM	Diagnosis
E11.4	Type 2 diabetes mellitus with neurological complications	ICD-10-CM	Diagnosis
E11.3	Type 2 diabetes mellitus with ophthalmic complications	ICD-10-CM	Diagnosis
E11.59	Type 2 diabetes mellitus with other circulatory complications	ICD-10-CM	Diagnosis
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM	Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM	Diagnosis
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM	Diagnosis
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM	Diagnosis
E11.6	Type 2 diabetes mellitus with other specified complications	ICD-10-CM	Diagnosis
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM	Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM	Diagnosis
E11.31	Type 2 diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM	Diagnosis
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM	Diagnosis
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM	Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM	Diagnosis
E11.0	Type 2 diabetes mellitus with hyperosmolarity	ICD-10-CM	Diagnosis
E11.64	Type 2 diabetes mellitus with hypoglycemia	ICD-10-CM	Diagnosis
E11.1	Type 2 diabetes mellitus with ketoacidosis	ICD-10-CM	Diagnosis
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	ICD-10-CM	Diagnosis
E11.63	Type 2 diabetes mellitus with oral complications	ICD-10-CM	Diagnosis
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM	Diagnosis
E11.62	Type 2 diabetes mellitus with skin complications	ICD-10-CM	Diagnosis
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM	Diagnosis
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM	Diagnosis
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM	Diagnosis
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM	Diagnosis
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM	Diagnosis
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM	Diagnosis
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.32	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.33	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.35	Type 2 diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.34	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM	Diagnosis
K0548			
K0548	Injection, insulin lispro, up to 50 units	HCPCS	Procedure
J1815			
J1815	Injection, insulin, per 5 units	HCPCS	Procedure
J1820			
J1820	Injection, insulin, up to 100 units	HCPCS	Procedure
J1817			
J1817	Insulin for administration through DME (i.e., insulin pump) per 50 units	HCPCS	Procedure
S5552			
S5552	Insulin, intermediate acting (NPH or LENTE); 5 units	HCPCS	Procedure
S5553			
S5553	Insulin, long acting; 5 units	HCPCS	Procedure
S5551			
S5551	Insulin, most rapid onset (Lispro or Aspart); 5 units	HCPCS	Procedure
S5550			
S5550	Insulin, rapid onset, 5 units	HCPCS	Procedure
S5565			
S5565	Insulin cartridge for use in insulin delivery device other than pump; 150 units	HCPCS	Procedure
S5566			
S5566	Insulin cartridge for use in insulin delivery device other than pump; 300 units	HCPCS	Procedure
S5570			
S5570	Insulin delivery device, disposable pen (including insulin); 1.5 ml size	HCPCS	Procedure
S5571			
S5571	Insulin delivery device, disposable pen (including insulin); 3 ml size	HCPCS	Procedure
S5560			
S5560	Insulin delivery device, reusable pen; 1.5 ml size	HCPCS	Procedure
S5561			
S5561	Insulin delivery device, reusable pen; 3 ml size	HCPCS	Procedure

Appendix E. Specifications Defining Parameters in this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) module, version 9.3.1, to estimate counts of insulin dispensings and procedure codes in the Sentinel Distributed Database (SDD).

Query Period: January 1, 2013 to December 31, 2018
Coverage Requirement: Medical & Drug Coverage
Pre-index Enrollment Requirement: 3 days
Post-index Enrollment Requirement: 0 days
Enrollment Gap: 45 days
Age Groups: 18-44, 45-64, 65+ years
Stratifications: Year-month
Censor Output Categorization: None
Restrictions: Male and Female
Distribution of Index-defining Codes: Yes
Envelope Macro: Reclassify encounters during inpatient stay as inpatient
Freeze Data: No

Exposure/Event

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting	Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
1	All insulins of interest (National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) codes)	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event			Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Sensor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting				
2	All insulins of interest (NDCs)	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
3	All insulins of interest (HCPCS)	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
4	Admelog and Admelog SoloStar	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
5	Afrezza	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
6	Apidra and Apidra SoloStar	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event		Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting			
7	Basaglar	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
8	Fiasp	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
9	Humalog	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
10	Humalog Mix 75/25	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
11	Humalog Mix 50/50	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event		Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting			
12	Humulin N	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
13	Humulin 70/30	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
14	Humulin R	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
15	Insulin lispro	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
16	Lantus and Lantus Solostar	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event			Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting				
17	Levemir	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
18	Myxredlin	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
19	Novolin N	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
20	Novolin 70/30	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
21	Novolin R	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event		Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting			
22	Novolog	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
23	Novolog Mix 70/30	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
24	Soliqua	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
25	Toujeo	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date
26	Tresiba	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date

Appendix E. Specifications Defining Parameters in this Request

Scenario	Index Exposure/ Event	Cohort Definition	Washout Period	Incident with Respect to:	Exposure/Event			Principal Diagnosis Position	Forced Supply to attach to Dispensings (days)	Censor Enrollment at Evidence of
					Exclude Evidence of Days Supply if Exposure Washout includes Dispensings	Care Setting				
27	Xultophy	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
28	J1815	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
29	J1817	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
30	J1820	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	
31	K0548	All valid index dates during query period	0 days	N/A	N/A	Any care setting	Any	1	Death; Data Partner End Date; Query End Date	

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes are provided by Optum360.
National Drug Codes (NDCs) codes are checked against First Data Bank's "FDB MedKnowledge®" database.

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
Admelog and Admelog SoloStar	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Afrezza	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Apidra and Apidra SoloStar	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Basaglar	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Fiasp	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Humalog	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
Humalog Mix 75/25	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Humalog Mix 50/50	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Humulin N	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Humulin 70/30	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Humulin R	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Insulin lispro	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
Lantus and Lantus Solostar	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Levemir	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Myxredlin	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Novolin N	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Novolin 70/30	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Novolin R	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
Novolog	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Novolog Mix 70/30	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Soliqua	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Toujeo	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Tresiba	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Xultophy	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
J1815	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
J1817	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5552	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5553	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5561	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5551	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

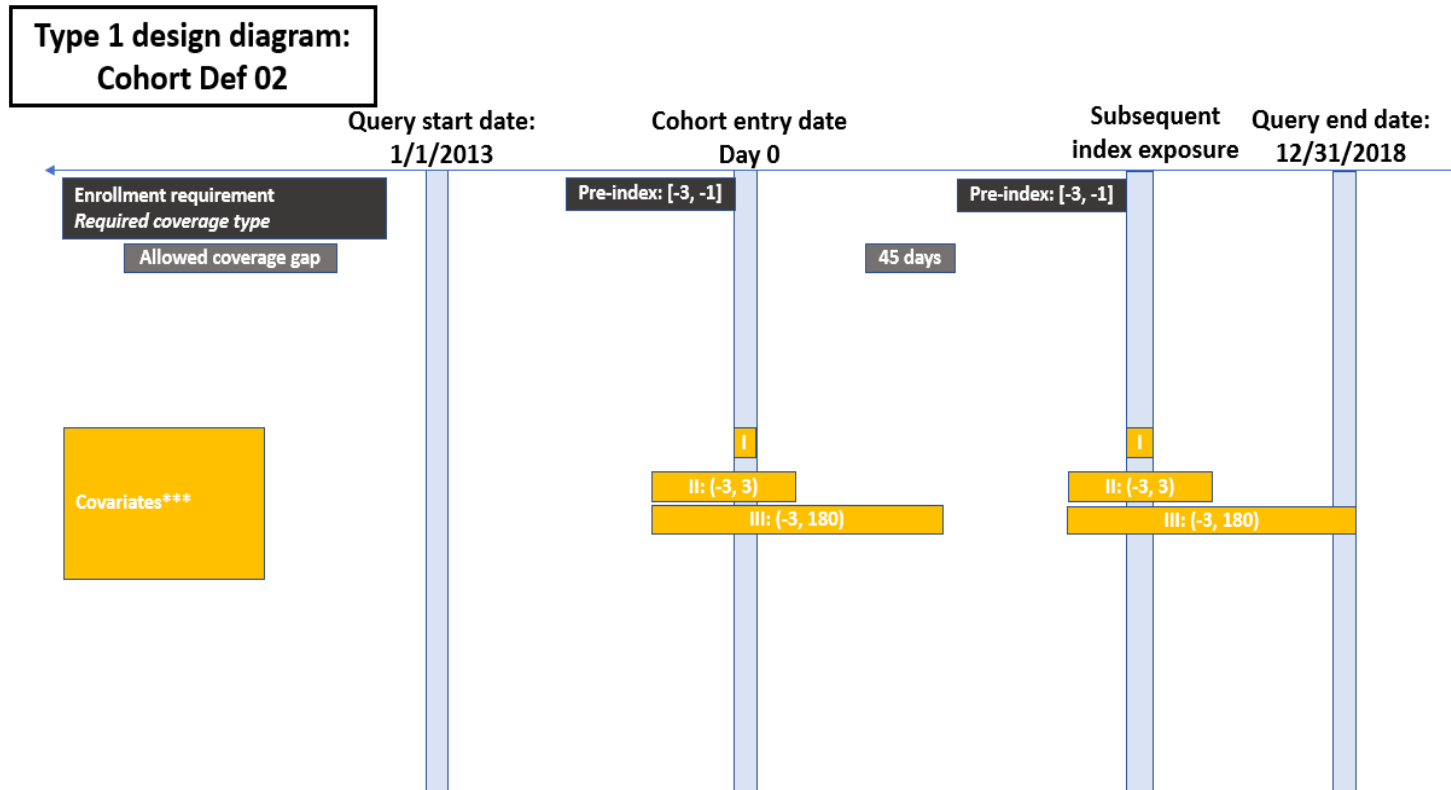
Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
S5550	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5571	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5560	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
J1820	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5565	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
S5570	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	

Appendix F. Specifications Defining Baseline Characteristic Parameters in this Request

Baseline Characteristics

Characteristic	Care Setting	Principal Diagnosis Position	Evaluation Period Start (days)	Evaluation Period End (days)	Exclude Evidence of Days Supply if Characteristic includes Dispensings	Number of Instances the Characteristic should be found in Evaluation Period	Forced Supply to attach to Dispensings (days)	Notes
S5566	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
K0548	Any care setting	Any	-3	3	Evaluation period should search for only evidence of a dispensing date	≥1	1	
Type 1 Diabetes	Any	Any	-3	180	N/A	≥1	N/A	T1DM codes and no T2DM codes
Type 2 Diabetes	Any	Any	-3	180	N/A	≥1	N/A	T2DM codes and no T1DM codes
Type 1 or Type 2 Diabetes	Any	Any	-3	180	N/A	≥1	N/A	T1DM or T2DM codes
No Type 1 or Type 2 Diabetes	Any	Any	-3	180	N/A	≥1	N/A	No T1DM or T2DM codes

Appendix G. Design Diagram of Cohort Entry Requirements and Index Exposure



Covariates*:**

Window I: Age, year, race, sex

Window II: Brand name insulin drug products and procedure codes

Window III: Type 1 Diabetes only, Type 2 Diabetes only, Type 1 or Type 2 Diabetes, no Type 1 or Type 2 Diabetes