

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_mpl1p_wp104

Request ID: cder_mpl1p_wp104

Request Description: In this report, we estimated the prevalence of Cutaneous Lupus Erythematosus (CLE) subtypes defined by different diagnosis codes and algorithms within the Sentinel Distributed Database (SDD). As part of sensitivity analyses, we also estimated prevalence within cohorts where the index event diagnosis code was recorded by: (1) any known provider ID, (2) a known provider with a known specialty (excluding unknown specialty), or (3) a dermatologist or rheumatologist. This is the second of three reports, including data from a combination of commercial and integrated delivery services (IDS) Sentinel Data Partners. The first report includes data from public Sentinel Data Partners, while the third report includes data from a combination of the public, commercial, and IDS Sentinel Data Partners.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 14.1.1

Data Source: We distributed this request to 12 Data Partners in the Sentinel Distributed Database on March 7, 2025; this report includes data from ten of these Data Partners. The study period included data from January 1, 2017, to July 31, 2024. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: To estimate the prevalence of CLE subtypes, identified individuals with at least 90 days of continuous medical coverage (allowing a gap of up to 45 days) in the SDD. Cohort re-entry was allowed, and individuals could contribute all qualified index dates within each cohort. We analyzed the number of qualifying patients overall and by age group (0-5, 6-11, 12-17, 18-44, 45-64, and ≥ 65 years), sex, year, race, Hispanic origin, and age-year combinations. Patients were counted in each stratification group in which they had evidence of the disease according to our event definitions.

To calculate prevalence (Number of Patients per 100,000 Eligible Members, and Number of Patients per 100,000 Eligible Member-Years), we identified Eligible Members as individuals meeting cohort entry criteria (at least 90 days of continuous enrollment with a maximum 45-day gap) on any day during the query period. Eligible Member-Days and Eligible Member-Years were calculated based on total enrollment duration. These counts remained consistent across cohorts as the denominator for prevalence estimates.

We also reported Total Observable Days, representing the duration patients remained enrolled after diagnosis, from the index date until the last day of enrollment.

This is a Type 1 analysis in the Query Request Package (QRP) documentation.

Overview for Request: cder_mpl1p_wp104

Event of Interest: Events were identified using International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes in outpatient care setting (restricted to ambulatory visits and other ambulatory visits).

CLE subtypes were defined as:

1. **DLE:** ICD-10 code L93.0.
2. **SCLE:** ICD-10 code L93.1.
3. **Other lupus erythematosus:** ICD-10 code L93.2.
4. **SLE without systemic symptoms:** M32.9 on the index day, with no history of M32.1/M32.1x (systemic SLE) or M32.0 (drug-induced SLE) within 365 days, but evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within 365 days.
5. **Co-occurrence of SLE and DLE:** L93.0 (DLE) preceding M32.9 (SLE) by more than 1 year.
6. **Mixed CLE:** Indexing on L93.0, L93.1, or L93.2, with at least one of the other codes appearing on the index date or later.
7. **Chilblains with evidence of SLE:** T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) with M32.9 (SLE) before or after the index date.

Please see Appendix B for a list of ICD-10-CM codes used to define index events in this request.

Each CLE subtype index event was further analyzed in three sensitivity analyses as separate cohorts:

- Indexing event recorded by any known provider.
- Indexing event recorded by a known provider with a known specialty (excluding unknown specialty).
- Indexing event recorded by a dermatologist or rheumatologist.

In total, we analyzed **28 cohorts**.

Please see Appendix C, D and E for a list of specialty visit codes that were used to restrict indexing events in the three sensitivity analyses in this request.

Baseline Characteristics: We assessed the following characteristics on index date: age, sex, race, Hispanic origin, and year.

Charlson/Elixhauser combined comorbidity score¹ (continuous and categorized: ≤ 0 , 1-2, 3-4, ≥ 5) was assessed from 90 days before the index date through the index date. Tobacco use (diagnosis, smoking cessation procedures, or smoking-related medication) was assessed using all available data up to and including the index date. Healthcare utilization intensity was assessed from 90 days before the index date through the index date.

Please see Appendix F for a list of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes and Appendix G for a list of generic and brand names of medical products used to define baseline characteristics in this request.

Cohort Eligibility Criteria: To be included, members needed at least 90 days of medical coverage before each index date, allowing gaps up to 45 days. All qualifying prevalent index dates were included.

Additional inclusion criteria were applied for the following cohorts:

- **SLE without systemic symptoms:** No evidence of M32.1/M32.1x (systemic SLE) or M32.0 (drug-induced SLE) within 365 days, with SCLE (L93.1), other LE (L93.2), or DLE (L93.0) present within 365 days.
- **Co-occurrence of SLE and DLE:** Evidence of M32.9 (SLE) occurring more than 1 year after DLE.
- **Mixed CLE:** Presence of more than one of L93.0, L93.1, or L93.2 on or any time after the index date.
- **Chilblains with evidence of SLE:** Evidence of SLE any time before or after the index date.

Please see Appendix B for a list of ICD-10-CM codes used to define inclusion criteria in this request.

Overview for Request: cder_mpl1p_wp104

Please see **Appendix H** for the specifications of parameters used in this request, **Appendix I** for a list of the baseline characteristics used in this request, and **Appendix J** for a design diagram of cohort entry requirements and index events.

Limitations: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner. Also, algorithms used to define exposures and inclusion criteria are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.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.sentinelssystem.org/projects/SETINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

¹ Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

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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.

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

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. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	98,143	N/A
Index dates ⁴	419,216	100.0%
Demographics Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	55.6	13.9
Age		
0-5 years	556	0.1%
6-11 years	736	0.2%
12-17 years	2,644	0.6%
18-44 years	98,384	23.5%
45-64 years	197,504	47.1%
≥ 65 years	119,392	28.5%
Sex		
Female	83,229	84.8%
Male	14,914	15.2%
Race ⁵		
American Indian or Alaska Native	251	0.3%
Asian	1,306	1.3%
Black or African American	11,838	12.1%
Multi-racial	186	0.2%
Native Hawaiian or Other Pacific Islander	240	0.2%
Unknown	53,293	54.3%
White	31,029	31.6%
Hispanic origin		
Yes	2,177	2.2%
No	44,286	45.1%
Unknown	51,680	52.7%
Year		
2017	49,597	11.8%
2018	63,234	15.1%
2019	59,396	14.2%
2020	53,393	12.7%
2021	56,020	13.4%
2022	54,496	13.0%
2023	55,895	13.3%
2024	27,185	6.5%

Table 1a. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.5	2.3
Combined comorbidity score categories		
<=0	200,699	47.9%
1-2	127,985	30.5%
3-4	45,362	10.8%
5+	45,170	10.8%
Tobacco Use assessed from all available data up to and including the index date	147,865	35.3%
Tobacco Use: diagnosed or identified by smoking cessation procedures	147,137	35.1%
Tobacco Use: identified by the dispensing of smoking-related medications	14,039	3.3%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.0	8.4
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.2	6.8
Mean number of filled prescriptions	9.2	10.1
Mean number of generics dispensed	5.7	5.3
Mean number of unique drug classes dispensed	5.5	4.9

¹Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1b. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	79,201	N/A
Index dates ⁴	295,839	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.7	13.9
Age		
0-5 years	375	0.1%
6-11 years	452	0.2%
12-17 years	1,883	0.6%
18-44 years	74,325	25.1%
45-64 years	141,995	48.0%
≥ 65 years	76,809	26.0%
Sex		
Female	67,475	85.2%
Male	11,726	14.8%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	1,094	1.4%
Black or African American	10,055	12.7%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	42,806	54.0%
White	24,641	31.1%
Hispanic origin		
Yes	1,823	2.3%
No	35,821	45.2%
Unknown	41,557	52.5%
Year		
2017	35,903	12.1%
2018	45,689	15.4%
2019	42,540	14.4%
2020	36,882	12.5%
2021	38,735	13.1%
2022	*****	*****
2023	*****	*****
2024	18,712	6.3%

Table 1b. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.0	1.9
Combined comorbidity score categories		
<=0	157,309	53.2%
1-2	92,770	31.4%
3-4	27,348	9.2%
5+	18,412	6.2%
Tobacco Use assessed from all available data up to and including the index date	97,666	33.0%
Tobacco Use: diagnosed or identified by smoking cessation	97,249	32.9%
Tobacco Use: identified by the dispensing of smoking-related medications	9,485	3.2%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.1	6.5
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	1.8	3.6
Mean number of filled prescriptions	8.4	9.6
Mean number of generics dispensed	5.3	5.0
Mean number of unique drug classes dispensed	5.0	4.7

¹Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1c. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	76,019	N/A
Index dates ⁴	278,054	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.8	13.9
Age		
0-5 years	351	0.1%
6-11 years	424	0.2%
12-17 years	1,723	0.6%
18-44 years	68,837	24.8%
45-64 years	133,642	48.1%
≥ 65 years	73,077	26.3%
Sex		
Female	64,829	85.3%
Male	11,190	14.7%
Race ⁵		
American Indian or Alaska Native	200	0.3%
Asian	1,042	1.4%
Black or African American	9,732	12.8%
Multi-racial	149	0.2%
Native Hawaiian or Other Pacific Islander	206	0.3%
Unknown	40,896	53.8%
White	23,794	31.3%
Hispanic origin		
Yes	1,727	2.3%
No	34,582	45.5%
Unknown	39,710	52.2%
Year		
2017	33,615	12.1%
2018	42,812	15.4%
2019	40,028	14.4%
2020	34,729	12.5%
2021	36,449	13.1%
2022	36,200	13.0%
2023	36,412	13.1%
2024	17,809	6.4%

Table 1c. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.1	1.9
Combined comorbidity score categories		
<=0	147,214	52.9%
1-2	87,485	31.5%
3-4	26,040	9.4%
5+	17,315	6.2%
Tobacco Use assessed from all available data up to and including the index date	92,172	33.1%
Tobacco Use: diagnosed or identified by smoking cessation procedures	91,770	33.0%
Tobacco Use: identified by the dispensing of smoking-related medications	8,745	3.1%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.1	6.4
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.7	3.5
Mean number of filled prescriptions	8.5	9.6
Mean number of generics dispensed	5.3	5.1
Mean number of unique drug classes dispensed	5.1	4.7

¹Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period."

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1d. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	25,956	N/A
Index dates ⁴	89,322	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.0	14.2
Age		
0-5 years	113	0.1%
6-11 years	255	0.3%
12-17 years	785	0.9%
18-44 years	23,800	26.6%
45-64 years	41,638	46.6%
≥ 65 years	22,731	25.4%
Sex		
Female	20,856	80.4%
Male	5,100	19.6%
Race ⁵		
American Indian or Alaska Native	58	0.2%
Asian	485	1.9%
Black or African American	4,078	15.7%
Multi-racial	76	0.3%
Native Hawaiian or Other Pacific Islander	71	0.3%
Unknown	14,229	54.8%
White	6,959	26.8%
Hispanic origin		
Yes	494	1.9%
No	11,401	43.9%
Unknown	14,061	54.2%
Year		
2017	12,322	13.8%
2018	12,993	14.5%
2019	12,833	14.4%
2020	11,422	12.8%
2021	11,695	13.1%
2022	11,402	12.8%
2023	11,115	12.4%
2024	5,540	6.2%

Table 1d. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.7	1.5
Combined comorbidity score categories		
<=0	56,608	63.4%
1-2	23,962	26.8%
3-4	5,721	6.4%
5+	3,031	3.4%
Tobacco Use assessed from all available data up to and including the index date	28,081	31.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	27,944	31.3%
Tobacco Use: identified by the dispensing of smoking-related medications	2,978	3.3%
Health Service Utilization Intensity Metric	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	6.4	5.7
Mean number of emergency room encounters	0.1	0.6
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.4	2.8
Mean number of filled prescriptions	7.0	8.2
Mean number of generics dispensed	4.6	4.5
Mean number of unique drug classes dispensed	4.3	4.3

¹Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1e. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	17,483	N/A
Index dates ⁴	66,240	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.7	14.3
Age		
0-5 years	21	0.0%
6-11 years	105	0.2%
12-17 years	361	0.5%
18-44 years	11,452	17.3%
45-64 years	28,263	42.7%
≥ 65 years	26,038	39.3%
Sex		
Female	14,262	81.6%
Male	3,221	18.4%
Race ⁵		
American Indian or Alaska Native	35	0.2%
Asian	195	1.1%
Black or African American	1,128	6.5%
Multi-racial	28	0.2%
Native Hawaiian or Other Pacific Islander	33	0.2%
Unknown	9,051	51.8%
White	7,013	40.1%
Hispanic origin		
Yes	286	1.6%
No	8,362	47.8%
Unknown	8,835	50.5%
Year		
2017	7,468	11.3%
2018	7,828	11.8%
2019	8,227	12.4%
2020	8,430	12.7%
2021	9,315	14.1%
2022	9,463	14.3%
2023	10,248	15.5%
2024	5,261	7.9%

Table 1e. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.0	1.9
Combined comorbidity score categories		
<=0	37,134	56.1%
1-2	18,857	28.5%
3-4	5,744	8.7%
5+	4,505	6.8%
Tobacco Use assessed from all available data up to and including the index date	23,810	35.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	23,726	35.8%
Tobacco Use: identified by the dispensing of smoking-related medications	2,276	3.4%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.1	6.2
Mean number of emergency room encounters	0.2	0.9
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	2.3	4.6
Mean number of filled prescriptions	8.1	8.9
Mean number of generics dispensed	5.3	4.9
Mean number of unique drug classes dispensed	5.0	4.6

¹Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1f. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	14,801	N/A
Index dates ⁴	51,454	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.8	14.3
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	262	0.5%
18-44 years	8,801	17.1%
45-64 years	21,786	42.3%
≥ 65 years	*****	*****
Sex		
Female	12,117	81.9%
Male	2,684	18.1%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	958	6.5%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	7,554	51.0%
White	6,047	40.9%
Hispanic origin		
Yes	242	1.6%
No	7,180	48.5%
Unknown	7,379	49.9%
Year		
2017	5,832	11.3%
2018	6,146	11.9%
2019	6,420	12.5%
2020	6,452	12.5%
2021	7,200	14.0%
2022	7,365	14.3%
2023	7,946	15.4%
2024	4,093	8.0%

Table 1f. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.8
Combined comorbidity score categories		
<=0	29,973	58.3%
1-2	14,915	29.0%
3-4	4,027	7.8%
5+	2,539	4.9%
Tobacco Use assessed from all available data up to and including the index date	18,235	35.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	18,166	35.3%
Tobacco Use: identified by the dispensing of smoking-related medications	1,768	3.4%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	6.9	5.9
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.7	3.2
Mean number of filled prescriptions	7.8	8.6
Mean number of generics dispensed	5.0	4.8
Mean number of unique drug classes dispensed	4.8	4.5

¹Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1g. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	14,040	N/A
Index dates ⁴	48,451	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.0	14.2
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	238	0.5%
18-44 years	8,132	16.8%
45-64 years	20,337	42.0%
≥ 65 years	19,653	40.6%
Sex		
Female	11,501	81.9%
Male	2,539	18.1%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	145	1.0%
Black or African American	888	6.3%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	7,086	50.5%
White	5,846	41.6%
Hispanic origin		
Yes	228	1.6%
No	6,893	49.1%
Unknown	6,919	49.3%
Year		
2017	5,493	11.3%
2018	5,792	12.0%
2019	6,053	12.5%
2020	6,093	12.6%
2021	6,739	13.9%
2022	6,923	14.3%
2023	7,478	15.4%

Table 1g. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

2024	3,880	8.0%
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Table 1g. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.8
Combined comorbidity score categories		
<=0	28,200	58.2%
1-2	14,032	29.0%
3-4	3,814	7.9%
5+	2,405	5.0%
Tobacco Use assessed from all available data up to and including the index date	17,202	35.5%
Tobacco Use: diagnosed or identified by smoking cessation procedures	17,137	35.4%
Tobacco Use: identified by the dispensing of smoking-related medications	1,664	3.4%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	6.9	5.8
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	1.6	3.1
Mean number of filled prescriptions	7.8	8.6
Mean number of generics dispensed	5.1	4.8
Mean number of unique drug classes dispensed	4.8	4.5

¹Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D. *Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.*

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1h. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	9,032	N/A
Index dates ⁴	29,418	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.5	14.2
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	122	0.4%
18-44 years	4,663	15.9%
45-64 years	12,216	41.5%
≥ 65 years	12,366	42.0%
Sex		
Female	7,408	82.0%
Male	1,624	18.0%
Race ⁵		
American Indian or Alaska Native	22	0.2%
Asian	104	1.2%
Black or African American	514	5.7%
Multi-racial	16	0.2%
Native Hawaiian or Other Pacific Islander	14	0.2%
Unknown	4,418	48.9%
White	3,944	43.7%
Hispanic origin		
Yes	142	1.6%
No	4,573	50.6%
Unknown	4,317	47.8%
Year		
2017	3,522	12.0%
2018	3,591	12.2%
2019	3,811	13.0%
2020	3,822	13.0%
2021	4,081	13.9%
2022	4,074	13.8%
2023	4,316	14.7%

Table 1h. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.7
Combined comorbidity score categories		
<=0	17,833	60.6%
1-2	8,194	27.9%
3-4	2,128	7.2%
5+	1,263	4.3%
Tobacco Use assessed from all available data up to and including the index date	10,342	35.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	10,302	35.0%
Tobacco Use: identified by the dispensing of smoking-related medications	984	3.3%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	6.9	5.7
Mean number of emergency room encounters	0.1	0.6
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.5	2.9
Mean number of filled prescriptions	7.7	8.5
Mean number of generics dispensed	5.0	4.8
Mean number of unique drug classes dispensed	4.8	4.5

¹Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1i. Aggregated Characteristics of Patients with Other Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	32,138	N/A
Index dates ⁴	110,801	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	55.3	15.1
Age		
0-5 years	225	0.2%
6-11 years	424	0.4%
12-17 years	1,233	1.1%
18-44 years	26,936	24.3%
45-64 years	49,279	44.5%
≥ 65 years	32,704	29.5%
Sex		
Female	26,600	82.8%
Male	5,538	17.2%
Race ⁵		
American Indian or Alaska Native	90	0.3%
Asian	455	1.4%
Black or African American	2,937	9.1%
Multi-racial	68	0.2%
Native Hawaiian or Other Pacific Islander	82	0.3%
Unknown	17,199	53.5%
White	11,307	35.2%
Hispanic origin		
Yes	692	2.2%
No	14,729	45.8%
Unknown	16,717	52.0%
Year		
2017	13,929	12.6%
2018	13,964	12.6%
2019	14,155	12.8%
2020	14,606	13.2%
2021	15,086	13.6%
2022	15,060	13.6%
2023	15,961	14.4%
2024	8,040	7.3%

Table 1i. Aggregated Characteristics of Patients with Other Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.3	2.1
Combined comorbidity score categories		
<=0	56,650	51.1%
1-2	33,217	30.0%
3-4	11,207	10.1%
5+	9,727	8.8%
Tobacco Use assessed from all available data up to and including the index date	38,481	34.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	38,302	34.6%
Tobacco Use: identified by the dispensing of smoking-related medications	3,615	3.3%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	8.2	9.3
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.1	7.6
Mean number of filled prescriptions	8.8	9.8
Mean number of generics dispensed	5.4	5.1
Mean number of unique drug classes dispensed	5.2	4.7

¹Other lupus erythematosus, defined by ICD-10 code L93.2.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1j. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	26,018	N/A
Index dates ⁴	81,670	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	55.3	14.9
Age		
0-5 years	150	0.2%
6-11 years	355	0.4%
12-17 years	926	1.1%
18-44 years	19,762	24.2%
45-64 years	36,440	44.6%
≥ 65 years	24,037	29.4%
Sex		
Female	21,548	82.8%
Male	4,470	17.2%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	390	1.5%
Black or African American	2,424	9.3%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	13,604	52.3%
White	9,389	36.1%
Hispanic origin		
Yes	555	2.1%
No	12,204	46.9%
Unknown	13,259	51.0%
Year		
2017	9,832	12.0%
2018	10,088	12.4%
2019	10,363	12.7%
2020	10,689	13.1%
2021	11,067	13.6%
2022	*****	*****
2023	*****	*****
2024	5,975	7.3%

Table 1j. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.0	1.9
Combined comorbidity score categories		
<=0	44,877	54.9%
1-2	24,633	30.2%
3-4	7,094	8.7%
5+	5,066	6.2%
Tobacco Use assessed from all available data up to and including the index date	27,952	34.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	27,820	34.1%
Tobacco Use: identified by the dispensing of smoking-related medications	2,812	3.4%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.2	6.5
Mean number of emergency room encounters	0.2	0.8
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	2.0	3.8
Mean number of filled prescriptions	8.4	9.4
Mean number of generics dispensed	5.2	5.0
Mean number of unique drug classes dispensed	5.0	4.7

¹Other lupus erythematosus, defined by ICD-10 code L93.2. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1k. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	24,765	N/A
Index dates ⁴	76,491	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	55.6	14.8
Age		
0-5 years	137	0.2%
6-11 years	304	0.4%
12-17 years	779	1.0%
18-44 years	18,096	23.7%
45-64 years	34,288	44.8%
≥ 65 years	22,887	29.9%
Sex		
Female	20,527	82.9%
Male	4,238	17.1%
Race ⁵		
American Indian or Alaska Native	58	0.2%
Asian	373	1.5%
Black or African American	2,331	9.4%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	12,790	51.6%
White	9,081	36.7%
Hispanic origin		
Yes	532	2.1%
No	11,778	47.6%
Unknown	12,455	50.3%
Year		
2017	9,220	12.1%
2018	9,459	12.4%
2019	9,596	12.5%
2020	9,972	13.0%
2021	10,357	13.5%
2022	10,779	14.1%
2023	11,393	14.9%
2024	5,715	7.5%

Table 1k. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.0	1.9
Combined comorbidity score categories		
<=0	41,879	54.8%
1-2	23,248	30.4%
3-4	6,722	8.8%
5+	4,642	6.1%
Tobacco Use assessed from all available data up to and including the index date	26,339	34.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	26,212	34.3%
Tobacco Use: identified by the dispensing of smoking-related medications	2,564	3.4%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.2	6.4
Mean number of emergency room encounters	0.2	0.8
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	1.9	3.7
Mean number of filled prescriptions	8.4	9.4
Mean number of generics dispensed	5.3	5.0
Mean number of unique drug classes dispensed	5.0	4.7

¹Other lupus erythematosus, defined by ICD-10 code L93.2. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 11. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	11,500	N/A
Index dates ⁴	33,390	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.7	15.2
Age		
0-5 years	81	0.2%
6-11 years	175	0.5%
12-17 years	431	1.3%
18-44 years	8,466	25.4%
45-64 years	14,571	43.6%
≥ 65 years	9,666	28.9%
Sex		
Female	9,366	81.4%
Male	2,134	18.6%
Race ⁵		
American Indian or Alaska Native	18	0.2%
Asian	232	2.0%
Black or African American	1,066	9.3%
Multi-racial	36	0.3%
Native Hawaiian or Other Pacific Islander	38	0.3%
Unknown	5,798	50.4%
White	4,312	37.5%
Hispanic origin		
Yes	235	2.0%
No	5,565	48.4%
Unknown	5,700	49.6%
Year		
2017	3,937	11.8%
2018	4,117	12.3%
2019	4,263	12.8%
2020	4,422	13.2%
2021	4,602	13.8%
2022	4,742	14.2%
2023	4,809	14.4%
2024	2,498	7.5%

Table 11. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.6
Combined comorbidity score categories		
<=0	20,452	61.3%
1-2	9,398	28.1%
3-4	2,223	6.7%
5+	1,317	3.9%
Tobacco Use assessed from all available data up to and including the index date	11,251	33.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	11,188	33.5%
Tobacco Use: identified by the dispensing of smoking-related medications	1,288	3.9%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	6.7	5.7
Mean number of emergency room encounters	0.2	0.6
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.7	3.2
Mean number of filled prescriptions	7.7	8.6
Mean number of generics dispensed	4.9	4.7
Mean number of unique drug classes dispensed	4.7	4.4

¹Other lupus erythematosus, defined by ICD-10 code L93.2. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1m. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	42,662	N/A
Index dates ⁴	333,332	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	56.3	13.8
Age		
0-5 years	64	0.0%
6-11 years	127	0.0%
12-17 years	1,387	0.4%
18-44 years	77,074	23.1%
45-64 years	153,014	45.9%
≥ 65 years	101,666	30.5%
Sex		
Female	37,884	88.8%
Male	4,778	11.2%
Race ⁵		
American Indian or Alaska Native	114	0.3%
Asian	462	1.1%
Black or African American	5,273	12.4%
Multi-racial	80	0.2%
Native Hawaiian or Other Pacific Islander	97	0.2%
Unknown	21,016	49.3%
White	15,620	36.6%
Hispanic origin		
Yes	992	2.3%
No	21,347	50.0%
Unknown	20,323	47.6%
Year		
2017	36,204	10.9%
2018	38,257	11.5%
2019	44,162	13.2%
2020	45,955	13.8%
2021	47,583	14.3%
2022	47,548	14.3%
2023	48,835	14.7%
2024	24,788	7.4%

Table 1m. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.8	2.5
Combined comorbidity score categories		
<=0	133,753	40.1%
1-2	109,916	33.0%
3-4	42,858	12.9%
5+	46,805	14.0%
Tobacco Use assessed from all available data up to and including the index date	124,016	37.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	123,626	37.1%
Tobacco Use: identified by the dispensing of smoking-related medications	10,756	3.2%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.6	7.4
Mean number of emergency room encounters	0.6	1.5
Mean number of inpatient hospital encounters	0.2	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.3	7.8
Mean number of filled prescriptions	10.9	11.0
Mean number of generics dispensed	6.7	5.7
Mean number of unique drug classes dispensed	6.4	5.3

¹Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1n. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	35,705	N/A
Index dates ⁴	207,421	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.8	13.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	963	0.5%
18-44 years	53,772	25.9%
45-64 years	96,689	46.6%
≥ 65 years	55,856	26.9%
Sex		
Female	31,949	89.5%
Male	3,756	10.5%
Race ³		
American Indian or Alaska Native	96	0.3%
Asian	399	1.1%
Black or African American	4,601	12.9%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	17,325	48.5%
White	13,118	36.7%
Hispanic origin		
Yes	850	2.4%
No	18,080	50.6%
Unknown	16,775	47.0%
Year		
2017	23,268	11.2%
2018	24,194	11.7%
2019	27,023	13.0%
2020	28,081	13.5%
2021	29,279	14.1%
2022	*****	*****
2023	*****	*****
2024	15,307	7.4%

Table 1n. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.3	2.1
Combined comorbidity score categories		
<=0	95,693	46.1%
1-2	71,904	34.7%
3-4	22,975	11.1%
5+	16,849	8.1%
Tobacco Use assessed from all available data up to and including the index date	70,007	33.8%
Tobacco Use: diagnosed or identified by smoking cessation procedures	69,747	33.6%
Tobacco Use: identified by the dispensing of smoking-related medications	6,483	3.1%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.7	6.2
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	2.3	4.3
Mean number of filled prescriptions	9.8	10.3
Mean number of generics dispensed	6.0	5.3
Mean number of unique drug classes dispensed	5.8	5.0

¹Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLF (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1o. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	33,820	N/A
Index dates ⁴	190,954	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.7	13.9
Age		
0-5 years	37	0.0%
6-11 years	85	0.0%
12-17 years	809	0.4%
18-44 years	49,305	25.8%
45-64 years	89,985	47.1%
≥ 65 years	50,733	26.6%
Sex		
Female	30,348	89.7%
Male	3,472	10.3%
Race ⁵		
American Indian or Alaska Native	91	0.3%
Asian	380	1.1%
Black or African American	4,161	12.3%
Multi-racial	66	0.2%
Native Hawaiian or Other Pacific Islander	79	0.2%
Unknown	16,696	49.4%
White	12,347	36.5%
Hispanic origin		
Yes	809	2.4%
No	16,837	49.8%
Unknown	16,174	47.8%
Year		
2017	21,569	11.3%
2018	22,190	11.6%
2019	24,863	13.0%
2020	25,987	13.6%
2021	26,980	14.1%
2022	27,293	14.3%
2023	27,766	14.5%
2024	14,306	7.5%

Table 1o. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.3	2.0
Combined comorbidity score categories		
<=0	88,649	46.4%
1-2	66,308	34.7%
3-4	20,946	11.0%
5+	15,051	7.9%
Tobacco Use assessed from all available data up to and including the index date	64,070	33.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	63,818	33.4%
Tobacco Use: identified by the dispensing of smoking-related medications	5,884	3.1%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.7	6.2
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	2.2	4.0
Mean number of filled prescriptions	9.7	10.3
Mean number of generics dispensed	6.0	5.4
Mean number of unique drug classes dispensed	5.7	5.0

¹Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1p. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	13,083	N/A
Index dates ⁴	61,627	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	52.7	13.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	338	0.5%
18-44 years	18,568	30.1%
45-64 years	29,118	47.2%
≥ 65 years	13,571	22.0%
Sex		
Female	11,865	90.7%
Male	1,218	9.3%
Race ⁵		
American Indian or Alaska Native	29	0.2%
Asian	219	1.7%
Black or African American	1,676	12.8%
Multi-racial	26	0.2%
Native Hawaiian or Other Pacific Islander	37	0.3%
Unknown	6,790	51.9%
White	4,306	32.9%
Hispanic origin		
Yes	375	2.9%
No	6,128	46.8%
Unknown	6,580	50.3%
Year		
2017	7,983	13.0%
2018	8,160	13.2%
2019	8,431	13.7%
2020	8,622	14.0%
2021	8,325	13.5%
2022	7,953	12.9%
2023	8,077	13.1%
2024	4,076	6.6%

Table 1p. Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.6
Combined comorbidity score categories		
<=0	34,027	55.2%
1-2	20,448	33.2%
3-4	4,814	7.8%
5+	2,338	3.8%
Tobacco Use assessed from all available data up to and including the index	16,672	27.1%
Tobacco Use: diagnosed or identified by smoking cessation procedures	16,617	27.0%
Tobacco Use: identified by the dispensing of smoking-related medications	1,503	2.4%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.0	5.6
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.8	3.2
Mean number of filled prescriptions	8.3	9.3
Mean number of generics dispensed	5.1	4.9
Mean number of unique drug classes dispensed	4.9	4.6

¹Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date

****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.

N/A: Not Applicable

Table 1q. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	36,423	N/A
Index dates ⁴	160,980	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.9	13.5
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	949	0.6%
18-44 years	39,037	24.2%
45-64 years	77,815	48.3%
≥ 65 years	43,005	26.7%
Sex		
Female	32,975	90.5%
Male	3,448	9.5%
Race ⁵		
American Indian or Alaska Native	119	0.3%
Asian	548	1.5%
Black or African American	5,598	15.4%
Multi-racial	68	0.2%
Native Hawaiian or Other Pacific Islander	98	0.3%
Unknown	16,625	45.6%
White	13,367	36.7%
Hispanic origin		
Yes	1,043	2.9%
No	19,642	53.9%
Unknown	15,738	43.2%
Year		
2017	24,052	14.9%
2018	32,612	20.3%
2019	29,650	18.4%
2020	24,617	15.3%
2021	24,241	15.1%
2022	20,080	12.5%
2023	5,728	3.6%
2024	0	0.0%

Table 1q. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.5	2.1
Combined comorbidity score categories		
<=0	70,679	43.9%
1-2	53,882	33.5%
3-4	20,303	12.6%
5+	16,116	10.0%
Tobacco Use assessed from all available data up to and including the index date	55,195	34.3%
Tobacco Use: diagnosed or identified by smoking cessation procedures	54,878	34.1%
Tobacco Use: identified by the dispensing of smoking-related medications	5,138	3.2%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.7	8.3
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.1	6.3
Mean number of filled prescriptions	10.3	10.7
Mean number of generics dispensed	6.3	5.5
Mean number of unique drug classes dispensed	6.0	5.2

¹Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1r. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	30,665	N/A
Index dates ⁴	114,474	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.4	13.4
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	652	0.6%
18-44 years	29,281	25.6%
45-64 years	55,369	48.4%
≥ 65 years	29,060	25.4%
Sex		
Female	27,747	90.5%
Male	2,918	9.5%
Race ⁵		
American Indian or Alaska Native	96	0.3%
Asian	473	1.5%
Black or African American	4,880	15.9%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	14,035	45.8%
White	11,025	36.0%
Hispanic origin		
Yes	902	2.9%
No	16,474	53.7%
Unknown	13,289	43.3%
Year		
2017	17,609	15.4%
2018	23,904	20.9%
2019	21,141	18.5%
2020	17,152	15.0%
2021	*****	*****
2022	*****	*****
2023	3,879	3.4%
2024	0	0.0%

Table 1r. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.2	1.9
Combined comorbidity score categories		
<=0	55,226	48.2%
1-2	39,336	34.4%
3-4	12,488	10.9%
5+	7,424	6.5%
Tobacco Use assessed from all available data up to and including the index date	37,005	32.3%
Tobacco Use: diagnosed or identified by smoking cessation procedures	36,841	32.2%
Tobacco Use: identified by the dispensing of smoking-related medications	3,368	2.9%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.8	6.6
Mean number of emergency room encounters	0.3	1.1
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.8	3.8
Mean number of filled prescriptions	9.7	10.2
Mean number of generics dispensed	6.0	5.3
Mean number of unique drug classes dispensed	5.7	5.0

¹Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

³Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1s. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	29,618	N/A
Index dates ⁴	108,939	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	54.5	13.4
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	620	0.6%
18-44 years	27,491	25.2%
45-64 years	52,751	48.4%
≥ 65 years	27,967	25.7%
Sex		
Female	26,812	90.5%
Male	2,806	9.5%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	456	1.5%
Black or African American	4,755	16.1%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	87	0.3%
Unknown	13,432	45.4%
White	10,741	36.3%
Hispanic origin		
Yes	870	2.9%
No	16,042	54.2%
Unknown	12,706	42.9%
Year		
2017	16,660	15.3%
2018	22,720	20.9%
2019	20,133	18.5%
2020	16,319	15.0%
2021	15,851	14.6%
2022	13,504	12.4%
2023	3,752	3.4%
2024	0	0.0%

Table 1s. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.2	1.9
Combined comorbidity score categories		
<=0	52,441	48.1%
1-2	37,414	34.3%
3-4	11,945	11.0%
5+	7,139	6.6%
Tobacco Use assessed from all available data up to and including the index date	35,466	32.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	35,308	32.4%
Tobacco Use: identified by the dispensing of smoking-related medications	3,209	2.9%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.8	6.6
Mean number of emergency room encounters	0.3	1.1
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.8	3.8
Mean number of filled prescriptions	9.8	10.2
Mean number of generics dispensed	6.0	5.3
Mean number of unique drug classes dispensed	5.7	5.0

¹Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1t. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	8,986	N/A
Index dates ⁴	32,060	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	53.9	13.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	257	0.8%
18-44 years	8,733	27.2%
45-64 years	14,671	45.8%
≥ 65 years	8,337	26.0%
Sex		
Female	7,889	87.8%
Male	1,097	12.2%
Race ⁵		
American Indian or Alaska Native	20	0.2%
Asian	163	1.8%
Black or African American	1,799	20.0%
Multi-racial	23	0.3%
Native Hawaiian or Other Pacific Islander	20	0.2%
Unknown	4,151	46.2%
White	2,810	31.3%
Hispanic origin		
Yes	229	2.5%
No	4,757	52.9%
Unknown	4,000	44.5%
Year		
2017	5,555	17.3%
2018	6,237	19.5%
2019	5,871	18.3%
2020	4,981	15.5%
2021	4,657	14.5%
2022	3,709	11.6%
2023	1,050	3.3%
2024	0	0.0%

Table 1t. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.6
Combined comorbidity score categories		
<=0	18,101	56.5%
1-2	9,963	31.1%
3-4	2,678	8.4%
5+	1,318	4.1%
Tobacco Use assessed from all available data up to and including the index date	10,396	32.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	10,345	32.3%
Tobacco Use: identified by the dispensing of smoking-related medications	1,018	3.2%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.2	6.1
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.5	3.1
Mean number of filled prescriptions	8.3	8.9
Mean number of generics dispensed	5.3	4.9
Mean number of unique drug classes dispensed	5.0	4.6

¹Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1u. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	18,369	N/A
Index dates ⁴	116,056	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	56.9	14.5
Age		
0-5 years	182	0.2%
6-11 years	269	0.2%
12-17 years	950	0.8%
18-44 years	24,928	21.5%
45-64 years	52,077	44.9%
≥ 65 years	37,650	32.4%
Sex		
Female	15,261	83.1%
Male	3,108	16.9%
Race ⁵		
American Indian or Alaska Native	47	0.3%
Asian	227	1.2%
Black or African American	1,870	10.2%
Multi-racial	39	0.2%
Native Hawaiian or Other Pacific Islander	39	0.2%
Unknown	9,323	50.8%
White	6,824	37.1%
Hispanic origin		
Yes	353	1.9%
No	8,949	48.7%
Unknown	9,067	49.4%
Year		
2017	18,926	16.3%
2018	19,165	16.5%
2019	17,558	15.1%
2020	16,306	14.1%
2021	15,412	13.3%
2022	14,107	12.2%
2023	11,581	10.0%
2024	3,001	2.6%

Table 1u. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	1.1	2.0
Combined comorbidity score categories		
<=0	61,881	53.3%
1-2	34,804	30.0%
3-4	10,743	9.3%
5+	8,628	7.4%
Tobacco Use assessed from all available data up to and including the index date	41,567	35.8%
Tobacco Use: diagnosed or identified by smoking cessation procedures	41,391	35.7%
Tobacco Use: identified by the dispensing of smoking-related medications	4,096	3.5%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.8	6.6
Mean number of emergency room encounters	0.3	1.1
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	2.6	6.5
Mean number of filled prescriptions	8.8	9.6
Mean number of generics dispensed	5.5	5.2
Mean number of unique drug classes dispensed	5.3	4.8

¹Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1v. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	16,504	N/A
Index dates ⁴	88,832	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	56.8	14.5
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	753	0.8%
18-44 years	18,979	21.4%
45-64 years	40,012	45.0%
≥ 65 years	28,758	32.4%
Sex		
Female	13,728	83.2%
Male	2,776	16.8%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	1,705	10.3%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	8,307	50.3%
White	6,165	37.4%
Hispanic origin		
Yes	327	2.0%
No	8,103	49.1%
Unknown	8,074	48.9%
Year		
2017	14,403	16.2%
2018	14,702	16.6%
2019	13,488	15.2%
2020	12,170	13.7%
2021	11,784	13.3%
2022	*****	*****
2023	*****	*****
2024	2,306	2.6%

Table 1v. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.8
Combined comorbidity score categories		
<=0	49,490	55.7%
1-2	26,969	30.4%
3-4	7,670	8.6%
5+	4,703	5.3%
Tobacco Use assessed from all available data up to and including the index date	31,832	35.8%
Tobacco Use: diagnosed or identified by smoking cessation procedures	31,693	35.7%
Tobacco Use: identified by the dispensing of smoking-related medications	3,188	3.6%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.4	6.2
Mean number of emergency room encounters	0.2	0.9
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	1.8	3.4
Mean number of filled prescriptions	8.4	9.3
Mean number of generics dispensed	5.3	5.0
Mean number of unique drug classes dispensed	5.1	4.7

¹Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1w. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	16,035	N/A
Index dates ⁴	83,928	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	57.0	14.4
Age		
0-5 years	104	0.1%
6-11 years	210	0.3%
12-17 years	693	0.8%
18-44 years	17,545	20.9%
45-64 years	37,739	45.0%
≥ 65 years	27,637	32.9%
Sex		
Female	13,350	83.3%
Male	2,685	16.7%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	204	1.3%
Black or African American	1,673	10.4%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	8,007	49.9%
White	6,040	37.7%
Hispanic origin		
Yes	*****	*****
No	7,937	49.5%
Unknown	*****	*****
Year		
2017	13,571	16.2%
2018	13,875	16.5%
2019	12,724	15.2%
2020	11,514	13.7%
2021	11,121	13.3%
2022	10,293	12.3%
2023	8,612	10.3%
2024	2,218	2.6%

Table 1w. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.9	1.8
Combined comorbidity score categories		
<=0	46,588	55.5%
1-2	25,533	30.4%
3-4	7,329	8.7%
5+	4,478	5.3%
Tobacco Use assessed from all available data up to and including the index date	30,205	36.0%
Tobacco Use: diagnosed or identified by smoking cessation procedures	30,071	35.8%
Tobacco Use: identified by the dispensing of smoking-related medications	3,023	3.6%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.4	6.2
Mean number of emergency room encounters	0.2	0.9
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	1.7	3.4
Mean number of filled prescriptions	8.4	9.3
Mean number of generics dispensed	5.4	5.0
Mean number of unique drug classes dispensed	5.1	4.7

¹Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1x. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	10,247	N/A
Index dates ⁴	41,564	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	56.9	14.7
Age		
0-5 years	65	0.2%
6-11 years	145	0.3%
12-17 years	407	1.0%
18-44 years	8,739	21.0%
45-64 years	18,247	43.9%
≥ 65 years	13,961	33.6%
Sex		
Female	8,376	81.7%
Male	1,871	18.3%
Race ⁵		
American Indian or Alaska Native	24	0.2%
Asian	149	1.5%
Black or African American	1,066	10.4%
Multi-racial	27	0.3%
Native Hawaiian or Other Pacific Islander	20	0.2%
Unknown	4,978	48.6%
White	3,983	38.9%
Hispanic origin		
Yes	182	1.8%
No	5,201	50.8%
Unknown	4,864	47.5%
Year		
2017	6,822	16.4%
2018	6,677	16.1%
2019	6,425	15.5%
2020	5,824	14.0%
2021	5,473	13.2%
2022	5,089	12.2%
2023	4,137	10.0%
2024	1,117	2.7%

Table 1x. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.6
Combined comorbidity score categories		
<=0	25,181	60.6%
1-2	11,908	28.6%
3-4	2,934	7.1%
5+	1,541	3.7%
Tobacco Use assessed from all available data up to and including the index date	14,323	34.5%
Tobacco Use: diagnosed or identified by smoking cessation procedures	14,263	34.3%
Tobacco Use: identified by the dispensing of smoking-related medications	1,514	3.6%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.1	5.9
Mean number of emergency room encounters	0.2	0.6
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	1.5	3.1
Mean number of filled prescriptions	7.9	8.7
Mean number of generics dispensed	5.1	4.8
Mean number of unique drug classes dispensed	4.8	4.5

¹Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

N/A: Not Applicable

Table 1y. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,330	N/A
Index dates ⁴	4,197	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	45.3	16.6
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	2,016	48.0%
45-64 years	1,418	33.8%
≥ 65 years	573	13.7%
Sex		
Female	1,197	90.0%
Male	133	10.0%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	53	4.0%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	713	53.6%
White	507	38.1%
Hispanic origin		
Yes	25	1.9%
No	609	45.8%
Unknown	696	52.3%
Year		
2017	316	7.5%
2018	337	8.0%
2019	435	10.4%
2020	576	13.7%
2021	783	18.7%
2022	698	16.6%
2023	690	16.4%
2024	362	8.6%

Table 1y. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.4
Combined comorbidity score categories		
<=0	2,450	58.4%
1-2	1,337	31.9%
3-4	288	6.9%
5+	122	2.9%
Tobacco Use assessed from all available data up to and including the index date	793	18.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	791	18.8%
Tobacco Use: identified by the dispensing of smoking-related medications	71	1.7%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.4	6.1
Mean number of emergency room encounters	0.2	0.5
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.0
Mean number of other ambulatory encounters	2.2	3.4
Mean number of filled prescriptions	6.9	8.5
Mean number of generics dispensed	4.4	4.7
Mean number of unique drug classes dispensed	4.2	4.5

¹Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1 (Chilblains with evidence of SLE) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.”

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1z. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider1 in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,238	N/A
Index dates ⁴	3,624	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	45.5	16.8
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	153	4.2%
18-44 years	1,728	47.7%
45-64 years	*****	*****
≥ 65 years	*****	*****
Sex		
Female	*****	*****
Male	*****	*****
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	*****	*****
White	*****	*****
Hispanic origin		
Yes	*****	*****
No	*****	*****
Unknown	641	51.8%
Year		
2017	255	7.0%
2018	294	8.1%
2019	387	10.7%
2020	499	13.8%
2021	660	18.2%
2022	*****	*****
2023	*****	*****
2024	320	8.8%

Table 1z. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.3
Combined comorbidity score categories		
<=0	2,093	57.8%
1-2	1,176	32.5%
3-4	257	7.1%
5+	98	2.7%
Tobacco Use assessed from all available data up to and including the index date	697	19.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	695	19.2%
Tobacco Use: identified by the dispensing of smoking-related medications	67	1.8%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.5	6.1
Mean number of emergency room encounters	0.2	0.6
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.0
Mean number of other ambulatory encounters	2.3	3.6
Mean number of filled prescriptions	6.8	8.5
Mean number of generics dispensed	4.3	4.7
Mean number of unique drug classes dispensed	4.2	4.4

¹Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1 (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day. The indexing event ICD-10 code was recorded by any known provider ID. Please see the list of provider ID in Appendix C.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All metrics are based on total number of index dates per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 1aa. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,159	N/A
Index dates ⁴	3,310	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	46.1	16.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	1,515	45.8%
45-64 years	1,150	34.7%
≥ 65 years	492	14.9%
Sex		
Female	*****	*****
Male	*****	*****
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	*****	*****
White	461	39.8%
Hispanic origin		
Yes	*****	*****
No	546	47.1%
Unknown	*****	*****
Year		
2017	232	7.0%
2018	273	8.2%
2019	342	10.3%
2020	460	13.9%
2021	610	18.4%
2022	544	16.4%
2023	552	16.7%
2024	297	9.0%

Table 1aa. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.3
Combined comorbidity score categories		
<=0	1,908	57.6%
1-2	1,080	32.6%
3-4	235	7.1%
5+	87	2.6%
Tobacco Use assessed from all available data up to and including the index date	629	19.0%
Tobacco Use: diagnosed or identified by smoking cessation procedures	627	18.9%
Tobacco Use: identified by the dispensing of smoking-related medications	56	1.7%
Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	7.5	6.2
Mean number of emergency room encounters	0.1	0.5
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	0.0
Mean number of other ambulatory encounters	2.0	3.1
Mean number of filled prescriptions	6.8	8.4
Mean number of generics dispensed	4.3	4.7
Mean number of unique drug classes dispensed	4.1	4.4

¹Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1 (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day. The indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded. Please see the list of provider ID in Appendix D.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All 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.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

****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.

N/A: Not Applicable

Table 1ab. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	844	N/A
Index dates ⁴	2,283	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	45.5	16.6
Age		
0-5 years	0	0.0%
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	1,090	47.7%
45-64 years	776	34.0%
≥ 65 years	316	13.8%
Sex		
Female	762	90.3%
Male	82	9.7%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	435	51.5%
White	335	39.7%
Hispanic origin		
Yes	*****	*****
No	403	47.7%
Unknown	*****	*****
Year		
2017	165	7.2%
2018	179	7.8%
2019	243	10.6%
2020	293	12.8%
2021	421	18.4%
2022	384	16.8%
2023	395	17.3%
2024	203	8.9%

Table 1ab. Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	0.8	1.3
Combined comorbidity score categories		
<=0	1,362	59.7%
1-2	714	31.3%
3-4	150	6.6%
5+	57	2.5%
Tobacco Use assessed from all available data up to and including the index date	387	17.0%
Tobacco Use: diagnosed or identified by smoking cessation procedures	386	16.9%
Tobacco Use: identified by the dispensing of smoking-related medications	37	1.6%

Health Service Utilization Intensity Metrics	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	7.4	6.1
Mean number of emergency room encounters	0.1	0.5
Mean number of inpatient hospital encounters	0.0	0.2
Mean number of non-acute institutional encounters	0.0	NaN
Mean number of other ambulatory encounters	2.0	2.8
Mean number of filled prescriptions	6.9	8.3
Mean number of generics dispensed	4.4	4.7
Mean number of unique drug classes dispensed	4.2	4.5

¹Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1 (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day. The indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²All 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.

³Value represents standard deviation where no % follows the value.

⁴Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁵Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁶Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

⁷Charlson/Elixhauser combined comorbidity score is calculated based on comorbidities observed during a requester-defined window around the index date.

*****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.

N/A: Not Applicable

Table 2. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Number of Patients	Number of Index Dates ²	Number of Eligible Members ³	Total Eligible Member-Days ³	Total Eligible Member-Years ³	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>Patients with Discoid Lupus Erythematosus</i>	98,143	419,216	119,949,511	119474456083	327,103,233.6	81.82	30.00 (29.82, 30.19)	360,628,127	3,675	4
<i>Patients with Discoid Lupus Erythematosus Coded by Any Known Provider</i>	79,201	295,839	119,949,511	119474456083	327,103,233.6	66.03	24.21 (24.04, 24.38)	261,183,727	3,298	4
<i>Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	76,019	278,054	119,949,511	119474456083	327,103,233.6	63.38	23.24 (23.08, 23.41)	245,937,182	3,235	4
<i>Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	25,956	89,322	119,949,511	119474456083	327,103,233.6	21.64	7.94 (7.84, 8.03)	81,179,105	3,128	3
<i>Patients with Subacute Cutaneous Lupus Erythematosus</i>	17,483	66,240	119,949,511	119474456083	327,103,233.6	14.58	5.34 (5.27, 5.42)	56,537,887	3,234	4
<i>Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider</i>	14,801	51,454	119,949,511	119474456083	327,103,233.6	12.34	4.52 (4.45, 4.60)	44,240,985	2,989	3
<i>Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	14,040	48,451	119,949,511	119474456083	327,103,233.6	11.70	4.29 (4.22, 4.36)	41,853,896	2,981	3
<i>Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	9,032	29,418	119,949,511	119474456083	327,103,233.6	7.53	2.76 (2.70, 2.82)	26,200,139	2,901	3

Table 2. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Number of Patients	Number of Index Dates ²	Number of Eligible Members ³	Total Eligible Member-Days ³	Total Eligible Member-Years ³	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>Patients with Other Lupus Erythematosus</i>	32,138	110,801	119,949,511	119474456083	327,103,233.6	26.79	9.83 (9.72, 9.93)	96,077,505	2,990	3
<i>Patients with Other Lupus Erythematosus Coded by Any Known Provider</i>	26,018	81,670	119,949,511	119474456083	327,103,233.6	21.69	7.95 (7.86, 8.05)	70,799,571	2,721	3
<i>Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	24,765	76,491	119,949,511	119474456083	327,103,233.6	20.65	7.57 (7.48, 7.67)	66,368,965	2,680	3
<i>Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist</i>	11,500	33,390	119,949,511	119474456083	327,103,233.6	9.59	3.52 (3.45, 3.58)	29,452,148	2,561	3
<i>Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus</i>	42,662	333,332	119,949,511	119474456083	327,103,233.6	35.57	13.04 (12.92, 13.17)	271,101,876	6,355	8
<i>Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider</i>	35,705	207,421	119,949,511	119474456083	327,103,233.6	29.77	10.92 (10.80, 11.03)	174,323,042	4,882	6

Table 2. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Number of Patients	Number of Index Dates ²	Number of Eligible Members ³	Total Eligible Member-Days ³	Total Eligible Member-Years ³	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown)</i>	33,820	190,954	119,949,511	119474456083	327,103,233.6	28.20	10.34 (10.23, 10.45)	160,648,716	4,750	6
<i>Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	13,083	61,627	119,949,511	119474456083	327,103,233.6	10.91	4.00 (3.93, 4.07)	54,722,223	4,183	5
<i>Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus</i>	36,423	160,980	119,949,511	119474456083	327,103,233.6	30.37	11.14 (11.02, 11.25)	206,766,648	5,677	4
<i>Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider</i>	30,665	114,474	119,949,511	119474456083	327,103,233.6	25.56	9.37 (9.27, 9.48)	149,085,098	4,862	4
<i>Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	29,618	108,939	119,949,511	119474456083	327,103,233.6	24.69	9.05 (8.95, 9.16)	141,858,284	4,790	4

Table 2. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Number of Patients	Number of Index Dates ²	Number of Eligible Members ³	Total Eligible Member-Days ³	Total Eligible Member-Years ³	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	8,986	32,060	119,949,511	119474456083	327,103,233.6	7.49	2.75 (2.69, 2.80)	42,420,582	4,721	4
<i>Patients with Mixed Cutaneous Lupus Erythematosus</i>	18,369	116,056	119,949,511	119474456083	327,103,233.6	15.31	5.62 (5.54, 5.70)	129,992,925	7,077	6
<i>Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider</i>	16,504	88,832	119,949,511	119474456083	327,103,233.6	13.76	5.05 (4.97, 5.12)	99,611,617	6,036	5
<i>Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	16,035	83,928	119,949,511	119474456083	327,103,233.6	13.37	4.90 (4.83, 4.98)	94,267,168	5,879	5
<i>Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	10,247	41,564	119,949,511	119474456083	327,103,233.6	8.54	3.13 (3.07, 3.19)	47,122,485	4,599	4
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus</i>	1,330	4,197	119,949,511	119474456083	327,103,233.6	1.11	0.41 (0.39, 0.43)	3,504,030	2,635	3
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider</i>	1,238	3,624	119,949,511	119474456083	327,103,233.6	1.03	0.38 (0.36, 0.40)	3,035,946	2,452	3

Table 2. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Number of Patients	Number of Index Dates ²	Number of Eligible Members ³	Total Eligible Member-Days ³	Total Eligible Member-Years ³	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	1,159	3,310	119,949,511	119474456083	327,103,233.6	0.97	0.35 (0.33, 0.38)	2,797,753	2,414	3
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist</i>	844	2,283	119,949,511	119474456083	327,103,233.6	0.70	0.26 (0.24, 0.28)	1,915,986	2,270	3

¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

- Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.

- Other lupus erythematosus, defined by ICD-10 code L93.2.

- Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

- Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

- Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

- Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

- We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Cohort includes all valid index dates per patient that meet all user criteria during the query period.

³Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study.

⁴Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment.

N/A: Not Applicable

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

	Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
Female	83,229	358,452	60,214,911	60,547,766,492	165,770,750.1	138.22	50.21 (49.87, 50.55)	308,483,413	3,706	4
Male	14,914	60,764	59,734,600	58,926,689,591	161,332,483.5	24.97	9.24 (9.10, 9.39)	52,144,714	3,496	4
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
Female	67,475	252,033	60,214,911	60,547,766,492	165,770,750.1	112.06	40.70 (40.40, 41.01)	222,268,839	3,294	4
Male	11,726	43,806	59,734,600	58,926,689,591	161,332,483.5	19.63	7.27 (7.14, 7.40)	38,914,888	3,319	4
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	64,829	237,197	60,214,911	60,547,766,492	165,770,750.1	107.66	39.11 (38.81, 39.41)	209,655,540	3,234	4
Male	11,190	40,857	59,734,600	58,926,689,591	161,332,483.5	18.73	6.94 (6.81, 7.07)	36,281,642	3,242	4
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	20,856	72,838	60,214,911	60,547,766,492	165,770,750.1	34.64	12.58 (12.41, 12.75)	66,022,754	3,166	3
Male	5,100	16,484	59,734,600	58,926,689,591	161,332,483.5	8.54	3.16 (3.08, 3.25)	15,156,351	2,972	3
Patients with Subacute Cutaneous Lupus Erythematosus										
Female	14,262	54,578	60,214,911	60,547,766,492	165,770,750.1	23.69	8.60 (8.46, 8.75)	46,716,599	3,276	4
Male	3,221	11,662	59,734,600	58,926,689,591	161,332,483.5	5.39	2.00 (1.93, 2.07)	9,821,288	3,049	4
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
Female	12,117	42,496	60,214,911	60,547,766,492	165,770,750.1	20.12	7.31 (7.18, 7.44)	36,602,689	3,021	4
Male	2,684	8,958	59,734,600	58,926,689,591	161,332,483.5	4.49	1.66 (1.60, 1.73)	7,638,296	2,846	3

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

	Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	11,501	39,993	60,214,911	60,547,766,492	165,770,750.1	19.10	6.94 (6.81, 7.07)	34,633,991	3,011	3
Male	2,539	8,458	59,734,600	58,926,689,591	161,332,483.5	4.25	1.57 (1.51, 1.64)	7,219,905	2,844	3
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	7,408	24,236	60,214,911	60,547,766,492	165,770,750.1	12.30	4.47 (4.37, 4.57)	21,740,323	2,935	3
Male	1,624	5,182	59,734,600	58,926,689,591	161,332,483.5	2.72	1.01 (0.96, 1.06)	4,459,816	2,746	3
Patients with Other Lupus Erythematosus										
Female	26,600	93,158	60,214,911	60,547,766,492	165,770,750.1	44.18	16.05 (15.85, 16.24)	81,253,121	3,055	4
Male	5,538	17,643	59,734,600	58,926,689,591	161,332,483.5	9.27	3.43 (3.34, 3.52)	14,824,384	2,677	3
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
Female	21,548	68,324	60,214,911	60,547,766,492	165,770,750.1	35.79	13.00 (12.83, 13.17)	59,442,152	2,759	3
Male	4,470	13,346	59,734,600	58,926,689,591	161,332,483.5	7.48	2.77 (2.69, 2.85)	11,357,419	2,541	3
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	20,527	64,144	60,214,911	60,547,766,492	165,770,750.1	34.09	12.38 (12.21, 12.55)	55,883,252	2,722	3
Male	4,238	12,347	59,734,600	58,926,689,591	161,332,483.5	7.09	2.63 (2.55, 2.71)	10,485,713	2,474	3
Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist										
Female	9,366	27,573	60,214,911	60,547,766,492	165,770,750.1	15.55	5.65 (5.54, 5.77)	24,279,208	2,592	3
Male	2,134	5,817	59,734,600	58,926,689,591	161,332,483.5	3.57	1.32 (1.27, 1.38)	5,172,940	2,424	3

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

	Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus										
Female	37,884	304,122	60,214,911	60,547,766,492	165,770,750.1	62.91	22.85 (22.62, 23.08)	247,704,614	6,539	8
Male	4,778	29,210	59,734,600	58,926,689,591	161,332,483.5	8.00	2.96 (2.88, 3.05)	23,397,262	4,897	6
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider										
Female	31,949	189,869	60,214,911	60,547,766,492	165,770,750.1	53.06	19.27 (19.06, 19.49)	159,462,594	4,991	6
Male	3,756	17,552	59,734,600	58,926,689,591	161,332,483.5	6.29	2.33 (2.25, 2.40)	14,860,448	3,956	5
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	30,348	175,013	60,214,911	60,547,766,492	165,770,750.1	50.40	18.31 (18.10, 18.51)	147,152,779	4,849	6
Male	3,472	15,941	59,734,600	58,926,689,591	161,332,483.5	5.81	2.15 (2.08, 2.22)	13,495,937	3,887	5
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	11,865	56,502	60,214,911	60,547,766,492	165,770,750.1	19.70	7.16 (7.03, 7.29)	49,957,892	4,211	5
Male	1,218	5,125	59,734,600	58,926,689,591	161,332,483.5	2.04	0.75 (0.71, 0.80)	4,764,331	3,912	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
Female	32,975	145,258	60,214,911	60,547,766,492	165,770,750.1	54.76	19.89 (19.68, 20.11)	186,265,103	5,649	4
Male	3,448	15,722	59,734,600	58,926,689,591	161,332,483.5	5.77	2.14 (2.07, 2.21)	20,501,545	5,946	5
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
Female	27,747	102,905	60,214,911	60,547,766,492	165,770,750.1	46.08	16.74 (16.54, 16.94)	133,717,002	4,819	4
Male	2,918	11,569	59,734,600	58,926,689,591	161,332,483.5	4.88	1.81 (1.74, 1.88)	15,368,096	5,267	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	26,812	97,984	60,214,911	60,547,766,492	165,770,750.1	44.53	16.17 (15.98, 16.37)	127,278,066	4,747	4
Male	2,806	10,955	59,734,600	58,926,689,591	161,332,483.5	4.70	1.74 (1.68, 1.80)	14,580,218	5,196	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	7,889	28,063	60,214,911	60,547,766,492	165,770,750.1	13.10	4.76 (4.66, 4.87)	37,029,464	4,694	4
Male	1,097	3,997	59,734,600	58,926,689,591	161,332,483.5	1.84	0.68 (0.64, 0.72)	5,391,118	4,914	4
Patients with Mixed Cutaneous Lupus Erythematosus										

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

	Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Female	15,261	97,291	60,214,911	60,547,766,492	165,770,750.1	25.34	9.21 (9.06, 9.35)	109,298,300	7,162	6
Male	3,108	18,765	59,734,600	58,926,689,591	161,332,483.5	5.20	1.93 (1.86, 2.00)	20,694,625	6,659	6
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
Female	13,728	74,006	60,214,911	60,547,766,492	165,770,750.1	22.80	8.28 (8.14, 8.42)	83,133,148	6,056	5
Male	2,776	14,826	59,734,600	58,926,689,591	161,332,483.5	4.65	1.72 (1.66, 1.79)	16,478,469	5,936	5
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	13,350	69,918	60,214,911	60,547,766,492	165,770,750.1	22.17	8.05 (7.92, 8.19)	78,657,768	5,892	5
Male	2,685	14,010	59,734,600	58,926,689,591	161,332,483.5	4.49	1.66 (1.60, 1.73)	15,609,400	5,814	5
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	8,376	34,312	60,214,911	60,547,766,492	165,770,750.1	13.91	5.05 (4.95, 5.16)	38,863,162	4,640	4
Male	1,871	7,252	59,734,600	58,926,689,591	161,332,483.5	3.13	1.16 (1.11, 1.21)	8,259,323	4,414	4

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

	Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
Female	1,197	3,819	60,214,911	60,547,766,492	165,770,750.1	1.99	0.72 (0.68, 0.76)	3,190,933	2,666	3
Male	133	378	59,734,600	58,926,689,591	161,332,483.5	0.22	0.08 (0.07, 0.10)	313,097	2,354	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
Female	*****	*****	60,214,911	60,547,766,492	165,770,750.1	*****	*****	2,757,701	*****	*****
Male	*****	*****	59,734,600	58,926,689,591	161,332,483.5	*****	*****	278,245	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	*****	*****	60,214,911	60,547,766,492	165,770,750.1	*****	*****	2,537,544	*****	*****
Male	*****	*****	59,734,600	58,926,689,591	161,332,483.5	*****	*****	260,209	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Female	762	2,082	60,214,911	60,547,766,492	165,770,750.1	1.27	0.46 (0.43, 0.49)	1,761,942	2,312	3
Male	82	201	59,734,600	58,926,689,591	161,332,483.5	0.14	0.05 (0.04, 0.06)	154,044	1,879	2

Table 3. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Sex

Number of Patients per Sex Category	Number of Index Dates ² per Sex Category	Number of Eligible Members ³ per Sex Category	Total Eligible Member-Days ³ per Sex Category	Total Eligible Member-Years ³ per Sex Category	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
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¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.
 - Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.
 - Other lupus erythematosus, defined by ICD-10 code L93.2.
 - Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.
 - Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.
 - Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.
 - Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.
 - We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.
Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Cohort includes all valid index dates per patient that meet all user criteria during the query period.
³Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study.
⁴Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment.
 *****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.

N/A: Not Applicable

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of Patients per Age Group	Number of Index Dates ² per Age Group	Number of Eligible Members ³ per Age Group	Total Eligible Member-Days ³ per Age Group	Total Eligible Member-Years ³ per Age Group	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
0-5 years	175	556	9,670,630	6,209,854,379	17,001,654.7	1.81	1.03 (0.89, 1.19)	447,589	2,558	3
6-11 years	206	736	10,813,816	7,471,759,115	20,456,561.6	1.90	1.01 (0.88, 1.15)	687,998	3,340	4
12-17 years	881	2,644	11,755,106	8,438,341,959	23,102,921.2	7.49	3.81 (3.57, 4.07)	2,475,656	2,810	3
18-44 years	29,081	98,384	55,097,709	43,787,630,827	119,883,999.5	52.78	24.26 (23.98, 24.54)	81,467,647	2,801	3
45-64 years	47,977	197,504	35,253,811	34,470,860,449	94,376,072.4	136.09	50.84 (50.38, 51.29)	173,529,688	3,617	4
≥ 65 years	23,733	119,392	17,287,158	19,096,009,354	52,282,024.2	137.29	45.39 (44.82, 45.98)	102,019,549	4,299	5
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
0-5 years	151	375	9,670,630	6,209,854,379	17,001,654.7	1.56	0.89 (0.76, 1.04)	355,665	2,355	2
6-11 years	152	452	10,813,816	7,471,759,115	20,456,561.6	1.41	0.74 (0.63, 0.87)	452,256	2,975	3
12-17 years	666	1,883	11,755,106	8,438,341,959	23,102,921.2	5.67	2.88 (2.67, 3.11)	1,737,479	2,609	3
18-44 years	23,321	74,325	55,097,709	43,787,630,827	119,883,999.5	42.33	19.45 (19.20, 19.70)	61,478,731	2,636	3
45-64 years	38,987	141,995	35,253,811	34,470,860,449	94,376,072.4	110.59	41.31 (40.90, 41.72)	126,454,550	3,244	4
≥ 65 years	19,170	76,809	17,287,158	19,096,009,354	52,282,024.2	110.89	36.67 (36.15, 37.19)	70,705,046	3,688	4
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	144	351	9,670,630	6,209,854,379	17,001,654.7	1.49	0.85 (0.72, 1.00)	339,324	2,356	2
6-11 years	142	424	10,813,816	7,471,759,115	20,456,561.6	1.31	0.69 (0.59, 0.82)	421,693	2,970	3
12-17 years	628	1,723	11,755,106	8,438,341,959	23,102,921.2	5.34	2.72 (2.51, 2.94)	1,618,887	2,578	3
18-44 years	22,235	68,837	55,097,709	43,787,630,827	119,883,999.5	40.36	18.55 (18.30, 18.79)	57,203,783	2,573	3
45-64 years	37,506	133,642	35,253,811	34,470,860,449	94,376,072.4	106.39	39.74 (39.34, 40.15)	119,049,879	3,174	4
≥ 65 years	18,443	73,077	17,287,158	19,096,009,354	52,282,024.2	106.69	35.28 (34.77, 35.79)	67,303,616	3,649	4

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of Patients per Age Group	Number of Index Dates ² per Age Group	Number of Eligible Members ³ per Age Group	Total Eligible Member-Days ³ per Age Group	Total Eligible Member-Years ³ per Age Group	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	63	113	9,670,630	6,209,854,379	17,001,654.7	0.65	0.37 (0.29, 0.47)	100,343	1,593	2
6-11 years	75	255	10,813,816	7,471,759,115	20,456,561.6	0.69	0.37 (0.29, 0.46)	267,764	3,570	3
12-17 years	286	785	11,755,106	8,438,341,959	23,102,921.2	2.43	1.24 (1.10, 1.39)	691,226	2,417	3
18-44 years	7,704	23,800	55,097,709	43,787,630,827	119,883,999.5	13.98	6.43 (6.28, 6.57)	20,264,025	2,630	3
45-64 years	12,515	41,638	35,253,811	34,470,860,449	94,376,072.4	35.50	13.26 (13.03, 13.50)	37,910,493	3,029	3
≥ 65 years	6,316	22,731	17,287,158	19,096,009,354	52,282,024.2	36.54	12.08 (11.79, 12.38)	21,945,254	3,475	4
Patients with Subacute Cutaneous Lupus Erythematosus										
0-5 years	14	21	9,670,630	6,209,854,379	17,001,654.7	0.14	0.08 (0.05, 0.14)	14,687	1,049	2
6-11 years	48	105	10,813,816	7,471,759,115	20,456,561.6	0.44	0.23 (0.18, 0.31)	67,533	1,407	2
12-17 years	166	361	11,755,106	8,438,341,959	23,102,921.2	1.41	0.72 (0.62, 0.84)	328,124	1,977	2
18-44 years	4,209	11,452	55,097,709	43,787,630,827	119,883,999.5	7.64	3.51 (3.41, 3.62)	9,365,296	2,225	3
45-64 years	7,966	28,263	35,253,811	34,470,860,449	94,376,072.4	22.60	8.44 (8.26, 8.63)	23,876,273	2,997	4
≥ 65 years	5,637	26,038	17,287,158	19,096,009,354	52,282,024.2	32.61	10.78 (10.50, 11.07)	22,885,974	4,060	5
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	11,027	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	57,415	*****	*****
12-17 years	121	262	11,755,106	8,438,341,959	23,102,921.2	1.03	0.52 (0.44, 0.63)	231,579	1,914	2
18-44 years	3,408	8,801	55,097,709	43,787,630,827	119,883,999.5	6.19	2.84 (2.75, 2.94)	7,137,628	2,094	3
45-64 years	6,740	21,786	35,253,811	34,470,860,449	94,376,072.4	19.12	7.14 (6.97, 7.31)	18,217,864	2,703	3
≥ 65 years	*****	*****	17,287,158	19,096,009,354	52,282,024.2	*****	*****	18,585,472	*****	*****

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of		Number of			Number of	Number of Patients	Total	Mean	Mean
	Number of	Index	Number of	Total Eligible	Total Eligible	Patients per	per 100,000	Observable	Number of	Number of
	Patients per	Dates ² per	Eligible Members ³	Member-Days ³	Member-Years ³	100,000	Member-Years (95%	Days Among	Observable	Index
	Age Group	Age Group	per Age Group	per Age Group	per Age Group	Eligible	Confidence Interval) ³	Patients ⁴	Days per	Dates
						Members ³			Patient	per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	11,027	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	46,857	*****	*****
12-17 years	113	238	11,755,106	8,438,341,959	23,102,921.2	0.96	0.49 (0.41, 0.59)	205,190	1,816	2
18-44 years	3,187	8,132	55,097,709	43,787,630,827	119,883,999.5	5.78	2.66 (2.57, 2.75)	6,692,210	2,100	3
45-64 years	6,383	20,337	35,253,811	34,470,860,449	94,376,072.4	18.11	6.76 (6.60, 6.93)	17,036,872	2,669	3
≥ 65 years	4,756	19,653	17,287,158	19,096,009,354	52,282,024.2	27.51	9.10 (8.84, 9.36)	17,861,740	3,756	4
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	5,441	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	30,473	*****	*****
12-17 years	66	122	11,755,106	8,438,341,959	23,102,921.2	0.56	0.29 (0.22, 0.36)	96,673	1,465	2
18-44 years	1,903	4,663	55,097,709	43,787,630,827	119,883,999.5	3.45	1.59 (1.52, 1.66)	3,990,198	2,097	2
45-64 years	4,024	12,216	35,253,811	34,470,860,449	94,376,072.4	11.41	4.26 (4.13, 4.40)	10,514,493	2,613	3
≥ 65 years	3,292	12,366	17,287,158	19,096,009,354	52,282,024.2	19.04	6.30 (6.09, 6.52)	11,562,861	3,512	4
Patients with Other Lupus Erythematosus										
0-5 years	41	225	9,670,630	6,209,854,379	17,001,654.7	0.42	0.24 (0.18, 0.33)	219,296	5,349	5
6-11 years	122	424	10,813,816	7,471,759,115	20,456,561.6	1.13	0.60 (0.50, 0.71)	355,013	2,910	3
12-17 years	432	1,233	11,755,106	8,438,341,959	23,102,921.2	3.67	1.87 (1.70, 2.05)	1,181,130	2,734	3
18-44 years	9,248	26,936	55,097,709	43,787,630,827	119,883,999.5	16.78	7.71 (7.56, 7.87)	22,748,043	2,460	3
45-64 years	15,038	49,279	35,253,811	34,470,860,449	94,376,072.4	42.66	15.93 (15.68, 16.19)	43,037,114	2,862	3
≥ 65 years	8,263	32,704	17,287,158	19,096,009,354	52,282,024.2	47.80	15.80 (15.47, 16.15)	28,536,909	3,454	4
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
0-5 years	36	150	9,670,630	6,209,854,379	17,001,654.7	0.37	0.21 (0.15, 0.29)	111,988	3,111	4
6-11 years	100	355	10,813,816	7,471,759,115	20,456,561.6	0.92	0.49 (0.40, 0.59)	303,995	3,040	4
12-17 years	334	926	11,755,106	8,438,341,959	23,102,921.2	2.84	1.45 (1.30, 1.61)	867,180	2,596	3
18-44 years	7,308	19,762	55,097,709	43,787,630,827	119,883,999.5	13.26	6.10 (5.96, 6.24)	16,254,823	2,224	3
45-64 years	12,206	36,440	35,253,811	34,470,860,449	94,376,072.4	34.62	12.93 (12.71, 13.16)	31,650,000	2,593	3
≥ 65 years	6,878	24,037	17,287,158	19,096,009,354	52,282,024.2	39.79	13.16 (12.85, 13.47)	21,611,585	3,142	3
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	35	137	9,670,630	6,209,854,379	17,001,654.7	0.36	0.21 (0.15, 0.29)	103,375	2,954	4
6-11 years	94	304	10,813,816	7,471,759,115	20,456,561.6	0.87	0.46 (0.38, 0.56)	255,988	2,723	3

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of Patients per Age Group	Number of Index Dates ² per Age Group	Number of Eligible Members ³ per Age Group	Total Eligible Member-Days ³ per Age Group	Total Eligible Member-Years ³ per Age Group	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
12-17 years	310	779	11,755,106	8,438,341,959	23,102,921.2	2.64	1.34 (1.20, 1.50)	742,489	2,395	3
18-44 years	6,869	18,096	55,097,709	43,787,630,827	119,883,999.5	12.47	5.73 (5.60, 5.87)	14,862,595	2,164	3
45-64 years	11,614	34,288	35,253,811	34,470,860,449	94,376,072.4	32.94	12.31 (12.08, 12.53)	29,822,240	2,568	3
≥ 65 years	6,647	22,887	17,287,158	19,096,009,354	52,282,024.2	38.45	12.71 (12.41, 13.02)	20,582,278	3,096	3

Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist

0-5 years	16	81	9,670,630	6,209,854,379	17,001,654.7	0.17	0.09 (0.06, 0.15)	51,463	3,216	5
6-11 years	68	175	10,813,816	7,471,759,115	20,456,561.6	0.63	0.33 (0.26, 0.42)	142,680	2,098	3
12-17 years	180	431	11,755,106	8,438,341,959	23,102,921.2	1.53	0.78 (0.67, 0.90)	428,527	2,381	2
18-44 years	3,316	8,466	55,097,709	43,787,630,827	119,883,999.5	6.02	2.77 (2.67, 2.86)	6,964,299	2,100	3
45-64 years	5,230	14,571	35,253,811	34,470,860,449	94,376,072.4	14.84	5.54 (5.39, 5.69)	12,790,480	2,446	3
≥ 65 years	3,068	9,666	17,287,158	19,096,009,354	52,282,024.2	17.75	5.87 (5.66, 6.08)	9,074,699	2,958	3

Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus

0-5 years	32	64	9,670,630	6,209,854,379	17,001,654.7	0.33	0.19 (0.13, 0.27)	54,730	1,710	2
6-11 years	42	127	10,813,816	7,471,759,115	20,456,561.6	0.39	0.21 (0.15, 0.28)	118,992	2,833	3
12-17 years	232	1,387	11,755,106	8,438,341,959	23,102,921.2	1.97	1.00 (0.88, 1.14)	1,201,764	5,180	6
18-44 years	11,583	77,074	55,097,709	43,787,630,827	119,883,999.5	21.02	9.66 (9.49, 9.84)	62,016,606	5,354	7
45-64 years	21,211	153,014	35,253,811	34,470,860,449	94,376,072.4	60.17	22.47 (22.17, 22.78)	126,651,973	5,971	7
≥ 65 years	11,867	101,666	17,287,158	19,096,009,354	52,282,024.2	68.65	22.70 (22.29, 23.11)	81,057,811	6,831	9

Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider

0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	43,071	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	77,387	*****	*****
12-17 years	187	963	11,755,106	8,438,341,959	23,102,921.2	1.59	0.81 (0.70, 0.93)	804,589	4,303	5
18-44 years	9,666	53,772	55,097,709	43,787,630,827	119,883,999.5	17.54	8.06 (7.90, 8.23)	43,330,224	4,483	6
45-64 years	17,710	96,689	35,253,811	34,470,860,449	94,376,072.4	50.24	18.77 (18.49, 19.04)	81,588,349	4,607	5
≥ 65 years	9,929	55,856	17,287,158	19,096,009,354	52,282,024.2	57.44	18.99 (18.62, 19.37)	48,479,422	4,883	6

Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)

0-5 years	23	37	9,670,630	6,209,854,379	17,001,654.7	0.24	0.14 (0.09, 0.20)	36,434	1,584	2
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Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of Patients per Age Group	Number of Index Dates ² per Age Group	Number of Eligible Members ³ per Age Group	Total Eligible Member-Days ³ per Age Group	Total Eligible Member-Years ³ per Age Group	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
6-11 years	31	85	10,813,816	7,471,759,115	20,456,561.6	0.29	0.15 (0.11, 0.22)	74,214	2,394	3
12-17 years	176	809	11,755,106	8,438,341,959	23,102,921.2	1.50	0.76 (0.66, 0.88)	627,434	3,565	5
18-44 years	9,317	49,305	55,097,709	43,787,630,827	119,883,999.5	16.91	7.77 (7.62, 7.93)	39,520,643	4,242	5
45-64 years	16,961	89,985	35,253,811	34,470,860,449	94,376,072.4	48.11	17.97 (17.70, 18.24)	76,152,787	4,490	5
≥ 65 years	9,043	50,733	17,287,158	19,096,009,354	52,282,024.2	52.31	17.30 (16.94, 17.66)	44,237,204	4,892	6
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	1,786	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	19,957	*****	*****
12-17 years	88	338	11,755,106	8,438,341,959	23,102,921.2	0.75	0.38 (0.31, 0.47)	261,982	2,977	4
18-44 years	4,278	18,568	55,097,709	43,787,630,827	119,883,999.5	7.76	3.57 (3.46, 3.68)	15,533,727	3,631	4
45-64 years	6,405	29,118	35,253,811	34,470,860,449	94,376,072.4	18.17	6.79 (6.62, 6.95)	25,865,041	4,038	5
≥ 65 years	2,949	13,571	17,287,158	19,096,009,354	52,282,024.2	17.06	5.64 (5.44, 5.85)	13,039,730	4,422	5
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	59,419	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	200,359	*****	*****
12-17 years	276	949	11,755,106	8,438,341,959	23,102,921.2	2.35	1.19 (1.06, 1.34)	1,339,937	4,855	3
18-44 years	10,542	39,037	55,097,709	43,787,630,827	119,883,999.5	19.13	8.79 (8.63, 8.96)	48,249,767	4,577	4
45-64 years	18,103	77,815	35,253,811	34,470,860,449	94,376,072.4	51.35	19.18 (18.90, 19.46)	101,010,468	5,580	4
≥ 65 years	8,832	43,005	17,287,158	19,096,009,354	52,282,024.2	51.09	16.89 (16.54, 17.25)	55,906,698	6,330	5
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	39,558	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	135,402	*****	*****
12-17 years	235	652	11,755,106	8,438,341,959	23,102,921.2	2.00	1.02 (0.90, 1.16)	893,162	3,801	3
18-44 years	8,865	29,281	55,097,709	43,787,630,827	119,883,999.5	16.09	7.39 (7.24, 7.55)	36,080,204	4,070	3
45-64 years	15,244	55,369	35,253,811	34,470,860,449	94,376,072.4	43.24	16.15 (15.90, 16.41)	72,918,795	4,783	4
≥ 65 years	7,409	29,060	17,287,158	19,096,009,354	52,282,024.2	42.86	14.17 (13.85, 14.50)	39,017,977	5,266	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	39,558	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	131,887	*****	*****
12-17 years	224	620	11,755,106	8,438,341,959	23,102,921.2	1.91	0.97 (0.85, 1.11)	854,804	3,816	3
18-44 years	8,504	27,491	55,097,709	43,787,630,827	119,883,999.5	15.43	7.09 (6.94, 7.25)	33,936,830	3,991	3

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of		Number of			Number of	Number of Patients	Total	Mean	Mean
	Number of	Index	Number of	Total Eligible	Total Eligible	Patients per	per 100,000	Observable	Number of	Number of
	Patients per	Dates ² per	Eligible Members ³	Member-Days ³	Member-Years ³	100,000	Member-Years (95%	Days Among	Observable	Index
	Age Group	Age Group	per Age Group	per Age Group	per Age Group	Eligible	Confidence Interval) ³	Patients ⁴	Days per	Dates
						Members ³			Patient	per Patient
45-64 years	14,750	52,751	35,253,811	34,470,860,449	94,376,072.4	41.84	15.63 (15.38, 15.88)	69,433,103	4,707	4
≥ 65 years	7,183	27,967	17,287,158	19,096,009,354	52,282,024.2	41.55	13.74 (13.42, 14.06)	37,462,102	5,215	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	22,477	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	89,205	*****	*****
12-17 years	97	257	11,755,106	8,438,341,959	23,102,921.2	0.83	0.42 (0.34, 0.51)	346,076	3,568	3
18-44 years	2,611	8,733	55,097,709	43,787,630,827	119,883,999.5	4.74	2.18 (2.10, 2.26)	10,872,208	4,164	3
45-64 years	4,337	14,671	35,253,811	34,470,860,449	94,376,072.4	12.30	4.60 (4.46, 4.73)	19,638,060	4,528	3
≥ 65 years	2,238	8,337	17,287,158	19,096,009,354	52,282,024.2	12.95	4.28 (4.11, 4.46)	11,452,556	5,117	4
Patients with Mixed Cutaneous Lupus Erythematosus										
0-5 years	28	182	9,670,630	6,209,854,379	17,001,654.7	0.29	0.16 (0.11, 0.24)	207,205	7,400	7
6-11 years	48	269	10,813,816	7,471,759,115	20,456,561.6	0.44	0.23 (0.18, 0.31)	251,810	5,246	6
12-17 years	204	950	11,755,106	8,438,341,959	23,102,921.2	1.74	0.88 (0.77, 1.01)	1,073,554	5,263	5
18-44 years	4,998	24,928	55,097,709	43,787,630,827	119,883,999.5	9.07	4.17 (4.06, 4.29)	27,392,883	5,481	5
45-64 years	8,852	52,077	35,253,811	34,470,860,449	94,376,072.4	25.11	9.38 (9.19, 9.58)	58,767,054	6,639	6
≥ 65 years	5,093	37,650	17,287,158	19,096,009,354	52,282,024.2	29.46	9.74 (9.48, 10.01)	42,300,419	8,306	7
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	98,328	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	205,957	*****	*****
12-17 years	181	753	11,755,106	8,438,341,959	23,102,921.2	1.54	0.78 (0.68, 0.91)	856,371	4,731	4
18-44 years	4,383	18,979	55,097,709	43,787,630,827	119,883,999.5	7.95	3.66 (3.55, 3.77)	20,319,241	4,636	4
45-64 years	7,987	40,012	35,253,811	34,470,860,449	94,376,072.4	22.66	8.46 (8.28, 8.65)	45,030,468	5,638	5
≥ 65 years	4,637	28,758	17,287,158	19,096,009,354	52,282,024.2	26.82	8.87 (8.62, 9.13)	33,101,252	7,139	6
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	25	104	9,670,630	6,209,854,379	17,001,654.7	0.26	0.15 (0.10, 0.22)	94,673	3,787	4
6-11 years	46	210	10,813,816	7,471,759,115	20,456,561.6	0.43	0.22 (0.17, 0.30)	196,228	4,266	5
12-17 years	176	693	11,755,106	8,438,341,959	23,102,921.2	1.50	0.76 (0.66, 0.88)	784,643	4,458	4
18-44 years	4,216	17,545	55,097,709	43,787,630,827	119,883,999.5	7.65	3.52 (3.41, 3.62)	18,899,651	4,483	4
45-64 years	7,777	37,739	35,253,811	34,470,860,449	94,376,072.4	22.06	8.24 (8.06, 8.43)	42,529,546	5,469	5
≥ 65 years	4,520	27,637	17,287,158	19,096,009,354	52,282,024.2	26.15	8.65 (8.40, 8.90)	31,762,427	7,027	6
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	16	65	9,670,630	6,209,854,379	17,001,654.7	0.17	0.09 (0.06, 0.15)	55,809	3,488	4

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of		Number of			Number of	Number of Patients	Total	Mean	Mean
	Number of	Index	Number of	Total Eligible	Total Eligible	Patients per	per 100,000	Observable	Number of	Mean
	Patients per	Dates ² per	Eligible Members ³	Member-Days ³	Member-Years ³	100,000	Member-Years (95%	Days Among	Observable	Number of
	Age Group	Age Group	per Age Group	per Age Group	per Age Group	Eligible	Confidence Interval) ³	Patients ⁴	Days per	Index Dates
						Members ³			Patient	per Patient
6-11 years	40	145	10,813,816	7,471,759,115	20,456,561.6	0.37	0.20 (0.14, 0.27)	146,993	3,675	4
12-17 years	132	407	11,755,106	8,438,341,959	23,102,921.2	1.12	0.57 (0.48, 0.68)	457,516	3,466	3
18-44 years	2,579	8,739	55,097,709	43,787,630,827	119,883,999.5	4.68	2.15 (2.07, 2.24)	9,540,959	3,699	3
45-64 years	4,795	18,247	35,253,811	34,470,860,449	94,376,072.4	13.60	5.08 (4.94, 5.23)	20,633,602	4,303	4
≥ 65 years	3,096	13,961	17,287,158	19,096,009,354	52,282,024.2	17.91	5.92 (5.72, 6.13)	16,287,606	5,261	5
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	1,643	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	9,072	*****	*****
12-17 years	*****	*****	11,755,106	8,438,341,959	23,102,921.2	*****	*****	196,250	*****	*****
18-44 years	666	2,016	55,097,709	43,787,630,827	119,883,999.5	1.21	0.56 (0.51, 0.60)	1,546,609	2,322	3
45-64 years	448	1,418	35,253,811	34,470,860,449	94,376,072.4	1.27	0.47 (0.43, 0.52)	1,156,560	2,582	3
≥ 65 years	206	573	17,287,158	19,096,009,354	52,282,024.2	1.19	0.39 (0.34, 0.45)	593,896	2,883	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	1,643	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	9,072	*****	*****
12-17 years	43	153	11,755,106	8,438,341,959	23,102,921.2	0.37	0.19 (0.14, 0.25)	168,573	3,920	4
18-44 years	610	1,728	55,097,709	43,787,630,827	119,883,999.5	1.11	0.51 (0.47, 0.55)	1,320,960	2,166	3
45-64 years	*****	*****	35,253,811	34,470,860,449	94,376,072.4	*****	*****	1,000,562	*****	*****
≥ 65 years	*****	*****	17,287,158	19,096,009,354	52,282,024.2	*****	*****	535,136	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	*****	*****	9,670,630	6,209,854,379	17,001,654.7	*****	*****	1,643	*****	*****
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	9,006	*****	*****
12-17 years	*****	*****	11,755,106	8,438,341,959	23,102,921.2	*****	*****	156,866	*****	*****
18-44 years	558	1,515	55,097,709	43,787,630,827	119,883,999.5	1.01	0.47 (0.43, 0.51)	1,171,564	2,100	3
45-64 years	408	1,150	35,253,811	34,470,860,449	94,376,072.4	1.16	0.43 (0.39, 0.48)	947,927	2,323	3
≥ 65 years	184	492	17,287,158	19,096,009,354	52,282,024.2	1.06	0.35 (0.30, 0.41)	510,747	2,776	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
0-5 years	0	0	9,670,630	6,209,854,379	17,001,654.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
6-11 years	*****	*****	10,813,816	7,471,759,115	20,456,561.6	*****	*****	4,281	*****	*****
12-17 years	*****	*****	11,755,106	8,438,341,959	23,102,921.2	*****	*****	109,144	*****	*****
18-44 years	433	1,090	55,097,709	43,787,630,827	119,883,999.5	0.79	0.36 (0.33, 0.40)	845,827	1,953	3
45-64 years	283	776	35,253,811	34,470,860,449	94,376,072.4	0.80	0.30 (0.27, 0.34)	626,482	2,214	3

Table 4. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group

	Number of		Total Eligible		Number of	Number of Patients	Total	Mean	Mean	
	Number of	Index	Number of	Member-Days ³	Member-Years ³	Patients per	per 100,000	Observable	Number of	
	Patients per	Dates ² per	Eligible Members ³	per Age Group	per Age Group	100,000	Member-Years (95%	Days Among	Observable	
	Age Group	Age Group	per Age Group	per Age Group	per Age Group	Eligible	Confidence Interval) ³	Patients ⁴	Days per	
						Members ³			Patient	
									Index Dates	
									per Patient	
≥ 65 years	125	316	17,287,158	19,096,009,354	52,282,024.2	0.72	0.24 (0.20, 0.28)	330,252	2,642	3

¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

- Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.

- Other lupus erythematosus, defined by ICD-10 code L93.2.

- Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

- Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

- Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

- Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

- We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.
Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Cohort includes all valid index dates per patient that meet all user criteria during the query period.

³Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study. In stratified analyses, members may appear in more than one stratum due to changes in characteristics over time, such as transitioning into a new age group or a new calendar year. This could result in multiple counting of the same individual across different strata. However, while the number of eligible members in each stratum may add up to more than the overall total, each day or year of eligibility is counted only once for each individual, regardless of how many strata they appear in. As a result, the sum of stratified Member-Days/Years will match the overall total. The totals for Eligible Member-Days and Eligible Member-Years are based on each patient's time unit (whether in days or years), counted only once, regardless of their presence in multiple strata, since each individual can only contribute their time to one stratum at a time.

⁴Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment. The calculation is not affected by age group or calendar year stratifications. Specifically, even if a patient's last day of enrollment falls outside the age group or calendar year in which they were indexed, the observable days continue to be counted until the last day of enrollment, even if this extends beyond the original stratification.

****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 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
2017	22,467	49,597	54,428,264	16,266,586,593	44,535,486.9	41.28	50.45 (49.79, 51.11)	67,524,516	3,005	2
2018	27,843	63,234	53,882,014	16,101,701,498	44,084,056.1	51.67	63.16 (62.42, 63.91)	78,905,088	2,834	2
2019	25,251	59,396	53,920,257	16,142,741,394	44,196,417.2	46.83	57.13 (56.43, 57.84)	67,294,798	2,665	2
2020	21,288	53,393	53,007,995	16,121,027,672	44,136,968.3	40.16	48.23 (47.59, 48.88)	50,899,861	2,391	3
2021	22,188	56,020	52,961,733	15,918,383,653	43,582,159.2	41.89	50.91 (50.25, 51.59)	44,080,797	1,987	3
2022	21,949	54,496	53,928,607	15,936,529,012	43,631,838.5	40.70	50.31 (49.64, 50.97)	31,548,727	1,437	2
2023	22,057	55,895	52,487,189	15,680,031,147	42,929,585.6	42.02	51.38 (50.71, 52.06)	17,922,859	813	3
2024	13,945	27,185	47,635,122	7,307,455,114	20,006,721.7	29.27	69.70 (68.55, 70.87)	2,451,481	176	2
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
2017	18,238	35,903	54,428,264	16,266,586,593	44,535,486.9	33.51	40.95 (40.36, 41.55)	50,042,715	2,744	2
2018	22,943	45,689	53,882,014	16,101,701,498	44,084,056.1	42.58	52.04 (51.37, 52.72)	58,417,826	2,546	2
2019	20,622	42,540	53,920,257	16,142,741,394	44,196,417.2	38.25	46.66 (46.03, 47.30)	48,887,785	2,371	2
2020	17,439	36,882	53,007,995	16,121,027,672	44,136,968.3	32.90	39.51 (38.93, 40.10)	36,102,131	2,070	2
2021	18,154	38,735	52,961,733	15,918,383,653	43,582,159.2	34.28	41.65 (41.05, 42.27)	30,892,373	1,702	2
2022	*****	*****	53,928,607	15,936,529,012	43,631,838.5	*****	*****	22,643,536	*****	*****
2023	*****	*****	52,487,189	15,680,031,147	42,929,585.6	*****	*****	12,513,715	*****	*****
2024	11,502	18,712	47,635,122	7,307,455,114	20,006,721.7	24.15	57.49 (56.45, 58.55)	1,683,646	146	2
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	17,352	33,615	54,428,264	16,266,586,593	44,535,486.9	31.88	38.96 (38.39, 39.55)	46,859,620	2,701	2
2018	21,855	42,812	53,882,014	16,101,701,498	44,084,056.1	40.56	49.58 (48.92, 50.24)	54,925,814	2,513	2
2019	19,744	40,028	53,920,257	16,142,741,394	44,196,417.2	36.62	44.67 (44.05, 45.30)	46,087,044	2,334	2
2020	16,677	34,729	53,007,995	16,121,027,672	44,136,968.3	31.46	37.78 (37.22, 38.36)	34,084,818	2,044	2
2021	17,328	36,449	52,961,733	15,918,383,653	43,582,159.2	32.72	39.76 (39.17, 40.36)	29,180,972	1,684	2
2022	17,492	36,200	53,928,607	15,936,529,012	43,631,838.5	32.44	40.09 (39.50, 40.69)	21,339,996	1,220	2
2023	17,506	36,412	52,487,189	15,680,031,147	42,929,585.6	33.35	40.78 (40.18, 41.39)	11,843,184	677	2
2024	11,036	17,809	47,635,122	7,307,455,114	20,006,721.7	23.17	55.16 (54.14, 56.20)	1,615,734	146	2
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	6,447	12,322	54,428,264	16,266,586,593	44,535,486.9	11.84	14.48 (14.13, 14.83)	17,273,564	2,679	2
2018	6,886	12,993	53,882,014	16,101,701,498	44,084,056.1	12.78	15.62 (15.26, 15.99)	16,935,117	2,459	2
2019	6,800	12,833	53,920,257	16,142,741,394	44,196,417.2	12.61	15.39 (15.02, 15.76)	14,960,525	2,200	2
2020	5,974	11,422	53,007,995	16,121,027,672	44,136,968.3	11.27	13.54 (13.20, 13.88)	11,503,859	1,926	2

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2021	6,046	11,695	52,961,733	15,918,383,653	43,582,159.2	11.42	13.87 (13.53, 14.23)	9,506,700	1,572	2
2022	6,067	11,402	53,928,607	15,936,529,012	43,631,838.5	11.25	13.90 (13.56, 14.26)	6,810,902	1,123	2
2023	5,932	11,115	52,487,189	15,680,031,147	42,929,585.6	11.30	13.82 (13.47, 14.17)	3,675,561	620	2
2024	3,808	5,540	47,635,122	7,307,455,114	20,006,721.7	7.99	19.03 (18.44, 19.65)	512,877	135	1
Patients with Subacute Cutaneous Lupus Erythematosus										
2017	3,618	7,468	54,428,264	16,266,586,593	44,535,486.9	6.65	8.12 (7.86, 8.39)	10,686,695	2,954	2
2018	3,785	7,828	53,882,014	16,101,701,498	44,084,056.1	7.02	8.59 (8.32, 8.86)	10,279,091	2,716	2
2019	3,928	8,227	53,920,257	16,142,741,394	44,196,417.2	7.28	8.89 (8.61, 9.17)	9,833,110	2,503	2
2020	3,767	8,430	53,007,995	16,121,027,672	44,136,968.3	7.11	8.53 (8.27, 8.81)	8,512,056	2,260	2
2021	4,181	9,315	52,961,733	15,918,383,653	43,582,159.2	7.89	9.59 (9.31, 9.89)	7,728,536	1,848	2
2022	4,236	9,463	53,928,607	15,936,529,012	43,631,838.5	7.85	9.71 (9.42, 10.01)	5,707,003	1,347	2
2023	4,625	10,248	52,487,189	15,680,031,147	42,929,585.6	8.81	10.77 (10.47, 11.09)	3,317,418	717	2
2024	3,080	5,261	47,635,122	7,307,455,114	20,006,721.7	6.47	15.39 (14.86, 15.95)	473,978	154	2
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
2017	3,045	5,832	54,428,264	16,266,586,593	44,535,486.9	5.59	6.84 (6.60, 7.08)	8,431,642	2,769	2
2018	3,212	6,146	53,882,014	16,101,701,498	44,084,056.1	5.96	7.29 (7.04, 7.54)	8,168,259	2,543	2
2019	3,364	6,420	53,920,257	16,142,741,394	44,196,417.2	6.24	7.61 (7.36, 7.87)	7,714,383	2,293	2
2020	3,228	6,452	53,007,995	16,121,027,672	44,136,968.3	6.09	7.31 (7.07, 7.57)	6,535,580	2,025	2
2021	3,609	7,200	52,961,733	15,918,383,653	43,582,159.2	6.81	8.28 (8.02, 8.56)	5,954,530	1,650	2
2022	3,745	7,365	53,928,607	15,936,529,012	43,631,838.5	6.94	8.58 (8.31, 8.86)	4,479,120	1,196	2
2023	4,050	7,946	52,487,189	15,680,031,147	42,929,585.6	7.72	9.43 (9.15, 9.73)	2,587,624	639	2
2024	2,695	4,093	47,635,122	7,307,455,114	20,006,721.7	5.66	13.47 (12.97, 13.99)	369,847	137	2
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	2,878	5,493	54,428,264	16,266,586,593	44,535,486.9	5.29	6.46 (6.23, 6.70)	7,977,312	2,772	2
2018	3,039	5,792	53,882,014	16,101,701,498	44,084,056.1	5.64	6.89 (6.65, 7.14)	7,751,914	2,551	2
2019	3,189	6,053	53,920,257	16,142,741,394	44,196,417.2	5.91	7.22 (6.97, 7.47)	7,307,193	2,291	2
2020	3,061	6,093	53,007,995	16,121,027,672	44,136,968.3	5.77	6.94 (6.69, 7.19)	6,159,586	2,012	2
2021	3,421	6,739	52,961,733	15,918,383,653	43,582,159.2	6.46	7.85 (7.59, 8.12)	5,599,314	1,637	2
2022	3,555	6,923	53,928,607	15,936,529,012	43,631,838.5	6.59	8.15 (7.88, 8.42)	4,243,317	1,194	2
2023	3,833	7,478	52,487,189	15,680,031,147	42,929,585.6	7.30	8.93 (8.65, 9.22)	2,462,497	642	2
2024	2,563	3,880	47,635,122	7,307,455,114	20,006,721.7	5.38	12.81 (12.32, 13.32)	352,763	138	2

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	1,938	3,522	54,428,264	16,266,586,593	44,535,486.9	3.56	4.35 (4.16, 4.55)	5,182,186	2,674	2
2018	1,970	3,591	53,882,014	16,101,701,498	44,084,056.1	3.66	4.47 (4.28, 4.67)	4,824,247	2,449	2
2019	2,094	3,811	53,920,257	16,142,741,394	44,196,417.2	3.88	4.74 (4.54, 4.95)	4,678,009	2,234	2
2020	2,031	3,822	53,007,995	16,121,027,672	44,136,968.3	3.83	4.60 (4.41, 4.81)	3,906,778	1,924	2
2021	2,226	4,081	52,961,733	15,918,383,653	43,582,159.2	4.20	5.11 (4.90, 5.32)	3,429,788	1,541	2
2022	2,232	4,074	53,928,607	15,936,529,012	43,631,838.5	4.14	5.12 (4.91, 5.33)	2,535,852	1,136	2
2023	2,363	4,316	52,487,189	15,680,031,147	42,929,585.6	4.50	5.50 (5.29, 5.73)	1,439,579	609	2
2024	1,548	2,201	47,635,122	7,307,455,114	20,006,721.7	3.25	7.74 (7.36, 8.13)	203,700	132	1
Patients with Other Lupus Erythematosus										
2017	6,648	13,929	54,428,264	16,266,586,593	44,535,486.9	12.21	14.93 (14.57, 15.29)	19,788,459	2,977	2
2018	6,839	13,964	53,882,014	16,101,701,498	44,084,056.1	12.69	15.51 (15.15, 15.89)	18,310,511	2,677	2
2019	6,929	14,155	53,920,257	16,142,741,394	44,196,417.2	12.85	15.68 (15.31, 16.05)	16,668,649	2,406	2
2020	6,615	14,606	53,007,995	16,121,027,672	44,136,968.3	12.48	14.99 (14.63, 15.35)	14,597,815	2,207	2
2021	7,018	15,086	52,961,733	15,918,383,653	43,582,159.2	13.25	16.10 (15.73, 16.48)	12,007,118	1,711	2
2022	7,137	15,060	53,928,607	15,936,529,012	43,631,838.5	13.23	16.36 (15.98, 16.74)	8,830,730	1,237	2
2023	7,328	15,961	52,487,189	15,680,031,147	42,929,585.6	13.96	17.07 (16.68, 17.47)	5,150,666	703	2
2024	4,631	8,040	47,635,122	7,307,455,114	20,006,721.7	9.72	23.15 (22.49, 23.82)	723,557	156	2
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
2017	5,328	9,832	54,428,264	16,266,586,593	44,535,486.9	9.79	11.96 (11.65, 12.29)	14,093,783	2,645	2
2018	5,520	10,088	53,882,014	16,101,701,498	44,084,056.1	10.24	12.52 (12.20, 12.86)	13,413,160	2,430	2
2019	5,607	10,363	53,920,257	16,142,741,394	44,196,417.2	10.40	12.69 (12.36, 13.02)	12,284,145	2,191	2
2020	5,442	10,689	53,007,995	16,121,027,672	44,136,968.3	10.27	12.33 (12.01, 12.66)	10,807,654	1,986	2
2021	5,868	11,067	52,961,733	15,918,383,653	43,582,159.2	11.08	13.46 (13.12, 13.81)	8,948,550	1,525	2
2022	****	****	53,928,607	15,936,529,012	43,631,838.5	****	****	6,803,100	****	****
2023	****	****	52,487,189	15,680,031,147	42,929,585.6	****	****	3,909,384	****	****
2024	3,945	5,975	47,635,122	7,307,455,114	20,006,721.7	8.28	19.72 (19.11, 20.34)	539,795	137	2
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	5,059	9,220	54,428,264	16,266,586,593	44,535,486.9	9.29	11.36 (11.05, 11.68)	13,221,141	2,613	2
2018	5,256	9,459	53,882,014	16,101,701,498	44,084,056.1	9.75	11.92 (11.60, 12.25)	12,615,414	2,400	2
2019	5,307	9,596	53,920,257	16,142,741,394	44,196,417.2	9.84	12.01 (11.69, 12.34)	11,417,831	2,151	2
2020	5,194	9,972	53,007,995	16,121,027,672	44,136,968.3	9.80	11.77 (11.45, 12.09)	10,102,619	1,945	2

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2021	5,545	10,357	52,961,733	15,918,383,653	43,582,159.2	10.47	12.72 (12.39, 13.06)	8,408,587	1,516	2
2022	5,787	10,779	53,928,607	15,936,529,012	43,631,838.5	10.73	13.26 (12.93, 13.61)	6,371,009	1,101	2
2023	5,972	11,393	52,487,189	15,680,031,147	42,929,585.6	11.38	13.91 (13.56, 14.27)	3,711,966	622	2
2024	3,771	5,715	47,635,122	7,307,455,114	20,006,721.7	7.92	18.85 (18.26, 19.46)	520,398	138	2
Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist										
2017	2,274	3,937	54,428,264	16,266,586,593	44,535,486.9	4.18	5.11 (4.90, 5.32)	5,728,060	2,519	2
2018	2,382	4,117	53,882,014	16,101,701,498	44,084,056.1	4.42	5.40 (5.19, 5.62)	5,563,761	2,336	2
2019	2,473	4,263	53,920,257	16,142,741,394	44,196,417.2	4.59	5.60 (5.38, 5.82)	5,167,261	2,089	2
2020	2,503	4,422	53,007,995	16,121,027,672	44,136,968.3	4.72	5.67 (5.45, 5.90)	4,525,362	1,808	2
2021	2,648	4,602	52,961,733	15,918,383,653	43,582,159.2	5.00	6.08 (5.85, 6.31)	3,802,252	1,436	2
2022	2,726	4,742	53,928,607	15,936,529,012	43,631,838.5	5.05	6.25 (6.02, 6.49)	2,843,754	1,043	2
2023	2,825	4,809	52,487,189	15,680,031,147	42,929,585.6	5.38	6.58 (6.34, 6.83)	1,593,028	564	2
2024	1,833	2,498	47,635,122	7,307,455,114	20,006,721.7	3.85	9.16 (8.75, 9.59)	228,670	125	1
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus										
2017	10,348	36,204	54,428,264	16,266,586,593	44,535,486.9	19.01	23.24 (22.79, 23.69)	48,798,866	4,716	3
2018	11,066	38,257	53,882,014	16,101,701,498	44,084,056.1	20.54	25.10 (24.64, 25.57)	47,677,056	4,308	3
2019	12,052	44,162	53,920,257	16,142,741,394	44,196,417.2	22.35	27.27 (26.79, 27.76)	48,982,640	4,064	4
2020	12,285	45,955	53,007,995	16,121,027,672	44,136,968.3	23.18	27.83 (27.35, 28.33)	43,461,570	3,538	4
2021	12,820	47,583	52,961,733	15,918,383,653	43,582,159.2	24.21	29.42 (28.91, 29.93)	36,861,261	2,875	4
2022	12,984	47,548	53,928,607	15,936,529,012	43,631,838.5	24.08	29.76 (29.25, 30.27)	27,379,927	2,109	4
2023	13,064	48,835	52,487,189	15,680,031,147	42,929,585.6	24.89	30.43 (29.91, 30.96)	15,672,750	1,200	4
2024	8,956	24,788	47,635,122	7,307,455,114	20,006,721.7	18.80	44.76 (43.85, 45.70)	2,267,806	253	3
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider										
2017	8,479	23,268	54,428,264	16,266,586,593	44,535,486.9	15.58	19.04 (18.64, 19.45)	32,597,360	3,844	3
2018	8,806	24,194	53,882,014	16,101,701,498	44,084,056.1	16.34	19.98 (19.56, 20.40)	30,955,058	3,515	3
2019	9,777	27,023	53,920,257	16,142,741,394	44,196,417.2	18.13	22.12 (21.69, 22.56)	31,102,773	3,181	3
2020	10,006	28,081	53,007,995	16,121,027,672	44,136,968.3	18.88	22.67 (22.23, 23.12)	27,657,730	2,764	3
2021	10,536	29,279	52,961,733	15,918,383,653	43,582,159.2	19.89	24.18 (23.72, 24.64)	23,384,159	2,219	3
2022	10,843	29,804	53,928,607	15,936,529,012	43,631,838.5	20.11	24.85 (24.39, 25.32)	17,292,702	1,595	3
2023	11,098	30,465	52,487,189	15,680,031,147	42,929,585.6	21.14	25.85 (25.38, 26.34)	9,915,978	893	3

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2024	7,574	15,307	47,635,122	7,307,455,114	20,006,721.7	15.90	37.86 (37.01, 38.72)	1,417,282	187	2
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	8,031	21,569	54,428,264	16,266,586,593	44,535,486.9	14.76	18.03 (17.64, 18.43)	30,046,533	3,741	3
2018	8,262	22,190	53,882,014	16,101,701,498	44,084,056.1	15.33	18.74 (18.34, 19.15)	28,493,341	3,449	3
2019	9,245	24,863	53,920,257	16,142,741,394	44,196,417.2	17.15	20.92 (20.50, 21.35)	28,564,668	3,090	3
2020	9,428	25,987	53,007,995	16,121,027,672	44,136,968.3	17.79	21.36 (20.93, 21.80)	25,556,533	2,711	3
2021	9,862	26,980	52,961,733	15,918,383,653	43,582,159.2	18.62	22.63 (22.19, 23.08)	21,592,815	2,189	3
2022	*****	*****	53,928,607	15,936,529,012	43,631,838.5	*****	*****	15,942,037	*****	*****
2023	*****	*****	52,487,189	15,680,031,147	42,929,585.6	*****	*****	9,117,158	*****	*****
2024	7,130	14,306	47,635,122	7,307,455,114	20,006,721.7	14.97	35.64 (34.82, 36.47)	1,335,631	187	2
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	3,491	7,983	54,428,264	16,266,586,593	44,535,486.9	6.41	7.84 (7.58, 8.10)	11,259,126	3,225	2
2018	3,522	8,160	53,882,014	16,101,701,498	44,084,056.1	6.54	7.99 (7.73, 8.26)	10,527,627	2,989	2
2019	3,609	8,431	53,920,257	16,142,741,394	44,196,417.2	6.69	8.17 (7.90, 8.44)	9,893,833	2,741	2
2020	3,607	8,622	53,007,995	16,121,027,672	44,136,968.3	6.80	8.17 (7.91, 8.44)	8,604,067	2,385	2
2021	3,637	8,325	52,961,733	15,918,383,653	43,582,159.2	6.87	8.35 (8.08, 8.62)	6,702,648	1,843	2
2022	3,528	7,953	53,928,607	15,936,529,012	43,631,838.5	6.54	8.09 (7.82, 8.36)	4,696,742	1,331	2
2023	3,488	8,077	52,487,189	15,680,031,147	42,929,585.6	6.65	8.12 (7.86, 8.40)	2,659,566	762	2
2024	2,432	4,076	47,635,122	7,307,455,114	20,006,721.7	5.11	12.16 (11.68, 12.65)	378,614	156	2
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
2017	10,489	24,052	54,428,264	16,266,586,593	44,535,486.9	19.27	23.55 (23.11, 24.01)	42,442,256	4,046	2
2018	13,904	32,612	53,882,014	16,101,701,498	44,084,056.1	25.80	31.54 (31.02, 32.07)	51,881,250	3,731	2
2019	11,981	29,650	53,920,257	16,142,741,394	44,196,417.2	22.22	27.11 (26.63, 27.60)	42,252,439	3,527	2
2020	9,503	24,617	53,007,995	16,121,027,672	44,136,968.3	17.93	21.53 (21.10, 21.97)	29,709,456	3,126	3
2021	9,230	24,241	52,961,733	15,918,383,653	43,582,159.2	17.43	21.18 (20.75, 21.61)	23,698,262	2,568	3
2022	7,876	20,080	53,928,607	15,936,529,012	43,631,838.5	14.60	18.05 (17.66, 18.45)	14,073,117	1,787	3
2023	3,050	5,728	52,487,189	15,680,031,147	42,929,585.6	5.81	7.10 (6.86, 7.36)	2,709,868	888	2
2024	0	0	47,635,122	7,307,455,114	20,006,721.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
2017	8,703	17,609	54,428,264	16,266,586,593	44,535,486.9	15.99	19.54 (19.14, 19.96)	31,434,669	3,612	2
2018	11,709	23,904	53,882,014	16,101,701,498	44,084,056.1	21.73	26.56 (26.08, 27.05)	38,384,050	3,278	2
2019	9,990	21,141	53,920,257	16,142,741,394	44,196,417.2	18.53	22.60 (22.16, 23.05)	30,263,723	3,029	2
2020	7,938	17,152	53,007,995	16,121,027,672	44,136,968.3	14.98	17.98 (17.59, 18.38)	20,880,901	2,630	2
2021	****	****	52,961,733	15,918,383,653	43,582,159.2	****	****	16,287,191	****	****
2022	****	****	53,928,607	15,936,529,012	43,631,838.5	****	****	9,997,561	****	****
2023	2,541	3,879	52,487,189	15,680,031,147	42,929,585.6	4.84	5.92 (5.69, 6.15)	1,837,003	723	2
2024	0	0	47,635,122	7,307,455,114	20,006,721.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	8,337	16,660	54,428,264	16,266,586,593	44,535,486.9	15.32	18.72 (18.32, 19.13)	29,738,032	3,567	2
2018	11,254	22,720	53,882,014	16,101,701,498	44,084,056.1	20.89	25.53 (25.06, 26.00)	36,489,777	3,242	2
2019	9,646	20,133	53,920,257	16,142,741,394	44,196,417.2	17.89	21.83 (21.39, 22.27)	28,831,661	2,989	2
2020	7,642	16,319	53,007,995	16,121,027,672	44,136,968.3	14.42	17.31 (16.93, 17.71)	19,931,933	2,608	2
2021	7,386	15,851	52,961,733	15,918,383,653	43,582,159.2	13.95	16.95 (16.57, 17.34)	15,560,454	2,107	2
2022	6,462	13,504	53,928,607	15,936,529,012	43,631,838.5	11.98	14.81 (14.45, 15.18)	9,526,789	1,474	2
2023	2,457	3,752	52,487,189	15,680,031,147	42,929,585.6	4.68	5.72 (5.50, 5.95)	1,779,638	724	2
2024	0	0	47,635,122	7,307,455,114	20,006,721.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	2,827	5,555	54,428,264	16,266,586,593	44,535,486.9	5.19	6.35 (6.12, 6.59)	10,023,030	3,545	2
2018	3,200	6,237	53,882,014	16,101,701,498	44,084,056.1	5.94	7.26 (7.01, 7.51)	10,050,586	3,141	2
2019	2,987	5,871	53,920,257	16,142,741,394	44,196,417.2	5.54	6.76 (6.52, 7.01)	8,464,592	2,834	2
2020	2,469	4,981	53,007,995	16,121,027,672	44,136,968.3	4.66	5.59 (5.38, 5.82)	6,135,805	2,485	2
2021	2,343	4,657	52,961,733	15,918,383,653	43,582,159.2	4.42	5.38 (5.16, 5.60)	4,602,227	1,964	2
2022	1,917	3,709	53,928,607	15,936,529,012	43,631,838.5	3.55	4.39 (4.20, 4.59)	2,644,698	1,380	2
2023	743	1,050	52,487,189	15,680,031,147	42,929,585.6	1.42	1.73 (1.61, 1.86)	499,644	672	1
2024	0	0	47,635,122	7,307,455,114	20,006,721.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Mixed Cutaneous Lupus Erythematosus										
2017	6,412	18,926	54,428,264	16,266,586,593	44,535,486.9	11.78	14.40 (14.05, 14.75)	31,659,522	4,938	3
2018	6,497	19,165	53,882,014	16,101,701,498	44,084,056.1	12.06	14.74 (14.38, 15.10)	28,908,645	4,450	3
2019	5,950	17,558	53,920,257	16,142,741,394	44,196,417.2	11.03	13.46 (13.12, 13.81)	23,632,218	3,972	3
2020	5,164	16,306	53,007,995	16,121,027,672	44,136,968.3	9.74	11.70 (11.39, 12.02)	18,246,029	3,533	3

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	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2021	4,985	15,412	52,961,733	15,918,383,653	43,582,159.2	9.41	11.44 (11.13, 11.76)	14,036,873	2,816	3
2022	4,417	14,107	53,928,607	15,936,529,012	43,631,838.5	8.19	10.12 (9.83, 10.43)	9,121,607	2,065	3
2023	3,583	11,581	52,487,189	15,680,031,147	42,929,585.6	6.83	8.35 (8.08, 8.62)	4,047,812	1,130	3
2024	1,386	3,001	47,635,122	7,307,455,114	20,006,721.7	2.91	6.93 (6.57, 7.30)	340,219	245	2
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
2017	5,633	14,403	54,428,264	16,266,586,593	44,535,486.9	10.35	12.65 (12.32, 12.98)	24,149,868	4,287	3
2018	5,735	14,702	53,882,014	16,101,701,498	44,084,056.1	10.64	13.01 (12.68, 13.35)	22,340,672	3,895	3
2019	5,272	13,488	53,920,257	16,142,741,394	44,196,417.2	9.78	11.93 (11.61, 12.25)	18,174,444	3,447	3
2020	4,622	12,170	53,007,995	16,121,027,672	44,136,968.3	8.72	10.47 (10.17, 10.78)	13,753,977	2,976	3
2021	4,474	11,784	52,961,733	15,918,383,653	43,582,159.2	8.45	10.27 (9.97, 10.57)	10,702,498	2,392	3
2022	****	****	53,928,607	15,936,529,012	43,631,838.5	****	****	7,053,353	****	****
2023	****	****	52,487,189	15,680,031,147	42,929,585.6	****	****	3,174,415	****	****
2024	1,250	2,306	47,635,122	7,307,455,114	20,006,721.7	2.62	6.25 (5.91, 6.60)	262,390	210	2
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	5,437	13,571	54,428,264	16,266,586,593	44,535,486.9	9.99	12.21 (11.89, 12.54)	22,814,752	4,196	2
2018	5,550	13,875	53,882,014	16,101,701,498	44,084,056.1	10.30	12.59 (12.26, 12.93)	21,144,731	3,810	3
2019	5,086	12,724	53,920,257	16,142,741,394	44,196,417.2	9.43	11.51 (11.20, 11.83)	17,171,722	3,376	3
2020	4,468	11,514	53,007,995	16,121,027,672	44,136,968.3	8.43	10.12 (9.83, 10.42)	13,031,758	2,917	3
2021	4,306	11,121	52,961,733	15,918,383,653	43,582,159.2	8.13	9.88 (9.59, 10.18)	10,126,751	2,352	3
2022	3,873	10,293	53,928,607	15,936,529,012	43,631,838.5	7.18	8.88 (8.60, 9.16)	6,686,700	1,726	3
2023	3,211	8,612	52,487,189	15,680,031,147	42,929,585.6	6.12	7.48 (7.23, 7.74)	3,037,014	946	3
2024	1,209	2,218	47,635,122	7,307,455,114	20,006,721.7	2.54	6.04 (5.71, 6.39)	253,740	210	2
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	3,163	6,822	54,428,264	16,266,586,593	44,535,486.9	5.81	7.10 (6.86, 7.35)	11,516,471	3,641	2
2018	3,203	6,677	53,882,014	16,101,701,498	44,084,056.1	5.94	7.27 (7.02, 7.52)	10,237,836	3,196	2
2019	3,061	6,425	53,920,257	16,142,741,394	44,196,417.2	5.68	6.93 (6.68, 7.18)	8,686,698	2,838	2
2020	2,754	5,824	53,007,995	16,121,027,672	44,136,968.3	5.20	6.24 (6.01, 6.48)	6,675,687	2,424	2
2021	2,684	5,473	52,961,733	15,918,383,653	43,582,159.2	5.07	6.16 (5.93, 6.40)	5,050,874	1,882	2
2022	2,379	5,089	53,928,607	15,936,529,012	43,631,838.5	4.41	5.45 (5.24, 5.68)	3,356,573	1,411	2
2023	2,031	4,137	52,487,189	15,680,031,147	42,929,585.6	3.87	4.73 (4.53, 4.94)	1,471,163	724	2
2024	722	1,117	47,635,122	7,307,455,114	20,006,721.7	1.52	3.61 (3.35, 3.88)	127,183	176	2

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	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
2017	152	316	54,428,264	16,266,586,593	44,535,486.9	0.28	0.34 (0.29, 0.40)	479,708	3,156	2
2018	177	337	53,882,014	16,101,701,498	44,084,056.1	0.33	0.40 (0.35, 0.47)	489,996	2,768	2
2019	225	435	53,920,257	16,142,741,394	44,196,417.2	0.42	0.51 (0.45, 0.58)	565,724	2,514	2
2020	287	576	53,007,995	16,121,027,672	44,136,968.3	0.54	0.65 (0.58, 0.73)	595,391	2,075	2
2021	383	783	52,961,733	15,918,383,653	43,582,159.2	0.72	0.88 (0.80, 0.97)	675,034	1,762	2
2022	375	698	53,928,607	15,936,529,012	43,631,838.5	0.70	0.86 (0.78, 0.95)	422,246	1,126	2
2023	359	690	52,487,189	15,680,031,147	42,929,585.6	0.68	0.84 (0.75, 0.93)	239,234	666	2
2024	252	362	47,635,122	7,307,455,114	20,006,721.7	0.53	1.26 (1.11, 1.43)	36,697	146	1
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
2017	133	255	54,428,264	16,266,586,593	44,535,486.9	0.24	0.30 (0.25, 0.35)	399,796	3,006	2
2018	158	294	53,882,014	16,101,701,498	44,084,056.1	0.29	0.36 (0.31, 0.42)	432,971	2,740	2
2019	205	387	53,920,257	16,142,741,394	44,196,417.2	0.38	0.46 (0.40, 0.53)	504,629	2,462	2
2020	263	499	53,007,995	16,121,027,672	44,136,968.3	0.50	0.60 (0.53, 0.67)	519,183	1,974	2
2021	356	660	52,961,733	15,918,383,653	43,582,159.2	0.67	0.82 (0.74, 0.91)	564,834	1,587	2
2022	*****	*****	53,928,607	15,936,529,012	43,631,838.5	*****	*****	374,795	*****	*****
2023	*****	*****	52,487,189	15,680,031,147	42,929,585.6	*****	*****	207,641	*****	*****
2024	227	320	47,635,122	7,307,455,114	20,006,721.7	0.48	1.13 (1.00, 1.29)	32,097	141	1
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	124	232	54,428,264	16,266,586,593	44,535,486.9	0.23	0.28 (0.23, 0.33)	360,807	2,910	2
2018	146	273	53,882,014	16,101,701,498	44,084,056.1	0.27	0.33 (0.28, 0.39)	407,977	2,794	2
2019	188	342	53,920,257	16,142,741,394	44,196,417.2	0.35	0.43 (0.37, 0.49)	460,576	2,450	2
2020	244	460	53,007,995	16,121,027,672	44,136,968.3	0.46	0.55 (0.49, 0.63)	486,911	1,996	2
2021	334	610	52,961,733	15,918,383,653	43,582,159.2	0.63	0.77 (0.69, 0.85)	521,425	1,561	2
2022	315	544	53,928,607	15,936,529,012	43,631,838.5	0.58	0.72 (0.65, 0.81)	333,482	1,059	2
2023	310	552	52,487,189	15,680,031,147	42,929,585.6	0.59	0.72 (0.65, 0.81)	196,359	633	2
2024	212	297	47,635,122	7,307,455,114	20,006,721.7	0.45	1.06 (0.93, 1.21)	30,216	143	1
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	96	165	54,428,264	16,266,586,593	44,535,486.9	0.18	0.22 (0.18, 0.26)	245,854	2,561	2
2018	103	179	53,882,014	16,101,701,498	44,084,056.1	0.19	0.23 (0.19, 0.28)	257,569	2,501	2
2019	144	243	53,920,257	16,142,741,394	44,196,417.2	0.27	0.33 (0.28, 0.38)	321,733	2,234	2
2020	168	293	53,007,995	16,121,027,672	44,136,968.3	0.32	0.38 (0.33, 0.44)	321,729	1,915	2

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

	Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2021	237	421	52,961,733	15,918,383,653	43,582,159.2	0.45	0.54 (0.48, 0.62)	367,264	1,550	2
2022	220	384	53,928,607	15,936,529,012	43,631,838.5	0.41	0.50 (0.44, 0.58)	241,339	1,097	2
2023	232	395	52,487,189	15,680,031,147	42,929,585.6	0.44	0.54 (0.48, 0.61)	140,173	604	2
2024	159	203	47,635,122	7,307,455,114	20,006,721.7	0.33	0.79 (0.68, 0.93)	20,325	128	1

Table 5. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Year

Number of Patients per Calendar Year	Number of Index Dates ² per Calendar Year	Number of Eligible Members ³ per Calendar Year	Total Eligible Member-Days ³ per Calendar Year	Total Eligible Member-Years ³ per Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95%Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
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¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

- Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.

- Other lupus erythematosus, defined by ICD-10 code L93.2.

- Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

- Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

- Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

- Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

- We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Cohort includes all valid index dates per patient that meet all user criteria during the query period.

³Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study. In stratified analyses, members may appear in more than one stratum due to changes in characteristics over time, such as transitioning into a new age group or a new calendar year. This could result in multiple counting of the same individual across different strata. However, while the number of eligible members in each stratum may add up to more than the overall total, each day or year of eligibility is counted only once for each individual, regardless of how many strata they appear in. As a result, the sum of stratified Member-Days/Years will match the overall total. The totals for Eligible Member-Days and Eligible Member-Years are based on each patient's time unit (whether in days or years), counted only once, regardless of their presence in multiple strata, since each individual can only contribute their time to one stratum at a time.

⁴Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment. The calculation is not affected by age group or calendar year stratifications. Specifically, even if a patient's last day of enrollment falls outside the age group or calendar year in which they were indexed, the observable days continue to be counted until the last day of enrollment, even if this extends beyond the original stratification.

NaN: Not a number

*****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 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
American Indian or Alaska Native	251	1,006	151,791	179,213,458	490,659.7	165.36	51.16 (45.20, 57.89)	873,796	3,481	4
Asian	1,306	5,808	1,868,402	2,423,984,339	6,636,507.4	69.90	19.68 (18.64, 20.78)	5,743,095	4,397	4
Black or African American	11,838	69,077	4,164,139	4,756,816,460	13,023,453.7	284.28	90.90 (89.27, 92.55)	58,926,892	4,978	6
Multi-racial	186	1,060	318,723	462,126,588	1,265,233.6	58.36	14.70 (12.73, 16.97)	932,156	5,012	6
Native Hawaiian or Other Pacific Islander	240	1,099	221,305	277,295,531	759,193.8	108.45	31.61 (27.86, 35.88)	959,770	3,999	5
Unknown	53,293	194,791	90,667,082	79,490,624,235	217,633,468.1	58.78	24.49 (24.28, 24.70)	154,857,364	2,906	4
White	31,029	146,375	22,558,069	31,884,395,472	87,294,717.2	137.55	35.55 (35.15, 35.94)	138,335,054	4,458	5
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	668,614	*****	*****
Asian	1,094	4,681	1,868,402	2,423,984,339	6,636,507.4	58.55	16.48 (15.54, 17.49)	4,656,704	4,257	4
Black or African American	10,055	47,468	4,164,139	4,756,816,460	13,023,453.7	241.47	77.21 (75.71, 78.73)	42,669,823	4,244	5
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	912,199	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	816,360	*****	*****
Unknown	42,806	144,876	90,667,082	79,490,624,235	217,633,468.1	47.21	19.67 (19.48, 19.86)	116,165,519	2,714	3
White	24,641	96,101	22,558,069	31,884,395,472	87,294,717.2	109.23	28.23 (27.88, 28.58)	95,294,508	3,867	4
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	200	710	151,791	179,213,458	490,659.7	131.76	40.76 (35.49, 46.82)	615,783	3,079	4
Asian	1,042	4,228	1,868,402	2,423,984,339	6,636,507.4	55.77	15.70 (14.78, 16.68)	4,171,326	4,003	4

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Black or African American	9,732	45,455	4,164,139	4,756,816,460	13,023,453.7	233.71	74.73 (73.26, 76.23)	40,754,440	4,188	5
Multi-racial	149	752	318,723	462,126,588	1,265,233.6	46.75	11.78 (10.03, 13.83)	690,056	4,631	5
Native Hawaiian or Other Pacific Islander	206	846	221,305	277,295,531	759,193.8	93.08	27.13 (23.67, 31.10)	720,258	3,496	4
Unknown	40,896	134,508	90,667,082	79,490,624,235	217,633,468.1	45.11	18.79 (18.61, 18.97)	108,221,475	2,646	3
White	23,794	91,555	22,558,069	31,884,395,472	87,294,717.2	105.48	27.26 (26.91, 27.61)	90,763,844	3,815	4
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	58	165	151,791	179,213,458	490,659.7	38.21	11.82 (9.14, 15.29)	130,331	2,247	3
Asian	485	1,822	1,868,402	2,423,984,339	6,636,507.4	25.96	7.31 (6.69, 7.99)	1,714,147	3,534	4
Black or African American	4,078	16,765	4,164,139	4,756,816,460	13,023,453.7	97.93	31.31 (30.37, 32.29)	15,304,433	3,753	4
Multi-racial	76	372	318,723	462,126,588	1,265,233.6	23.85	6.01 (4.80, 7.52)	345,978	4,552	5
Native Hawaiian or Other Pacific Islander	71	286	221,305	277,295,531	759,193.8	32.08	9.35 (7.41, 11.80)	249,914	3,520	4
Unknown	14,229	45,175	90,667,082	79,490,624,235	217,633,468.1	15.69	6.54 (6.43, 6.65)	37,420,652	2,630	3
White	6,959	24,737	22,558,069	31,884,395,472	87,294,717.2	30.85	7.97 (7.79, 8.16)	26,013,650	3,738	4
Patients with Subacute Cutaneous Lupus Erythematosus										
American Indian or Alaska Native	35	139	151,791	179,213,458	490,659.7	23.06	7.13 (5.12, 9.94)	86,466	2,470	4
Asian	195	498	1,868,402	2,423,984,339	6,636,507.4	10.44	2.94 (2.55, 3.38)	482,408	2,474	3
Black or African American	1,128	4,211	4,164,139	4,756,816,460	13,023,453.7	27.09	8.66 (8.17, 9.18)	3,563,150	3,159	4
Multi-racial	28	145	318,723	462,126,588	1,265,233.6	8.79	2.21 (1.53, 3.21)	150,827	5,387	5

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Native Hawaiian or Other Pacific Islander	33	140	221,305	277,295,531	759,193.8	14.91	4.35 (3.09, 6.11)	114,868	3,481	4
Unknown	9,051	29,195	90,667,082	79,490,624,235	217,633,468.1	9.98	4.16 (4.07, 4.25)	22,983,400	2,539	3
White	7,013	31,912	22,558,069	31,884,395,472	87,294,717.2	31.09	8.03 (7.85, 8.22)	29,156,768	4,158	5
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	74,399	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	416,633	*****	*****
Black or African American	958	3,164	4,164,139	4,756,816,460	13,023,453.7	23.01	7.36 (6.90, 7.84)	2,733,339	2,853	3
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	146,639	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	93,611	*****	*****
Unknown	7,554	22,864	90,667,082	79,490,624,235	217,633,468.1	8.33	3.47 (3.39, 3.55)	18,054,991	2,390	3
White	6,047	24,656	22,558,069	31,884,395,472	87,294,717.2	26.81	6.93 (6.75, 7.10)	22,721,373	3,757	4
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	60,304	*****	*****
Asian	145	393	1,868,402	2,423,984,339	6,636,507.4	7.76	2.18 (1.86, 2.57)	397,673	2,743	3
Black or African American	888	3,030	4,164,139	4,756,816,460	13,023,453.7	21.32	6.82 (6.38, 7.28)	2,613,931	2,944	3
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	87,988	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	93,381	*****	*****
Unknown	7,086	21,071	90,667,082	79,490,624,235	217,633,468.1	7.82	3.26 (3.18, 3.33)	16,767,906	2,366	3

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
White	5,846	23,674	22,558,069	31,884,395,472	87,294,717.2	25.92	6.70 (6.53, 6.87)	21,832,713	3,735	4
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	22	86	151,791	179,213,458	490,659.7	14.49	4.48 (2.95, 6.81)	55,845	2,538	4
Asian	104	226	1,868,402	2,423,984,339	6,636,507.4	5.57	1.57 (1.29, 1.90)	216,394	2,081	2
Black or African American	514	1,604	4,164,139	4,756,816,460	13,023,453.7	12.34	3.95 (3.62, 4.30)	1,434,941	2,792	3
Multi-racial	16	61	318,723	462,126,588	1,265,233.6	5.02	1.26 (0.77, 2.06)	61,194	3,825	4
Native Hawaiian or Other Pacific Islander	14	53	221,305	277,295,531	759,193.8	6.33	1.84 (1.09, 3.11)	50,599	3,614	4
Unknown	4,418	12,555	90,667,082	79,490,624,235	217,633,468.1	4.87	2.03 (1.97, 2.09)	10,284,534	2,328	3
White	3,944	14,833	22,558,069	31,884,395,472	87,294,717.2	17.48	4.52 (4.38, 4.66)	14,096,632	3,574	4
Patients with Other Lupus Erythematosus										
American Indian or Alaska Native	90	1,169	151,791	179,213,458	490,659.7	59.29	18.34 (14.92, 22.55)	759,077	8,434	13
Asian	455	1,936	1,868,402	2,423,984,339	6,636,507.4	24.35	6.86 (6.25, 7.52)	1,912,566	4,203	4
Black or African American	2,937	11,675	4,164,139	4,756,816,460	13,023,453.7	70.53	22.55 (21.75, 23.38)	10,297,180	3,506	4
Multi-racial	68	335	318,723	462,126,588	1,265,233.6	21.34	5.37 (4.24, 6.82)	320,988	4,720	5
Native Hawaiian or Other Pacific Islander	82	303	221,305	277,295,531	759,193.8	37.05	10.80 (8.70, 13.41)	267,637	3,264	4
Unknown	17,199	51,089	90,667,082	79,490,624,235	217,633,468.1	18.97	7.90 (7.79, 8.02)	40,848,439	2,375	3
White	11,307	44,294	22,558,069	31,884,395,472	87,294,717.2	50.12	12.95 (12.72, 13.19)	41,671,618	3,685	4
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	157,827	*****	*****
Asian	390	1,598	1,868,402	2,423,984,339	6,636,507.4	20.87	5.88 (5.32, 6.49)	1,539,302	3,947	4

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Black or African American	2,424	8,505	4,164,139	4,756,816,460	13,023,453.7	58.21	18.61 (17.89, 19.37)	7,667,660	3,163	4
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	304,575	*****	*****
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	251,006	*****	*****
Unknown	13,604	37,799	90,667,082	79,490,624,235	217,633,468.1	15.00	6.25 (6.15, 6.36)	29,813,827	2,192	3
White	9,389	32,957	22,558,069	31,884,395,472	87,294,717.2	41.62	10.76 (10.54, 10.98)	31,065,374	3,309	4
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	58	213	151,791	179,213,458	490,659.7	38.21	11.82 (9.14, 15.29)	152,538	2,630	4
Asian	373	1,441	1,868,402	2,423,984,339	6,636,507.4	19.96	5.62 (5.08, 6.22)	1,368,909	3,670	4
Black or African American	2,331	8,095	4,164,139	4,756,816,460	13,023,453.7	55.98	17.90 (17.19, 18.64)	7,229,657	3,102	3
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	248,275	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	228,784	*****	*****
Unknown	12,790	34,899	90,667,082	79,490,624,235	217,633,468.1	14.11	5.88 (5.78, 5.98)	27,504,415	2,150	3
White	9,081	31,351	22,558,069	31,884,395,472	87,294,717.2	40.26	10.40 (10.19, 10.62)	29,636,387	3,264	3
Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist										
American Indian or Alaska Native	18	53	151,791	179,213,458	490,659.7	11.86	3.67 (2.31, 5.82)	34,118	1,895	3
Asian	232	757	1,868,402	2,423,984,339	6,636,507.4	12.42	3.50 (3.07, 3.98)	686,815	2,960	3
Black or African American	1,066	3,492	4,164,139	4,756,816,460	13,023,453.7	25.60	8.19 (7.71, 8.69)	3,172,703	2,976	3
Multi-racial	36	103	318,723	462,126,588	1,265,233.6	11.30	2.85 (2.05, 3.94)	107,470	2,985	3

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Native Hawaiian or Other Pacific Islander	38	126	221,305	277,295,531	759,193.8	17.17	5.01 (3.64, 6.88)	122,061	3,212	3
Unknown	5,798	15,469	90,667,082	79,490,624,235	217,633,468.1	6.39	2.66 (2.60, 2.73)	12,530,117	2,161	3
White	4,312	13,390	22,558,069	31,884,395,472	87,294,717.2	19.12	4.94 (4.79, 5.09)	12,798,864	2,968	3
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus										
American Indian or Alaska Native	114	917	151,791	179,213,458	490,659.7	75.10	23.23 (19.34, 27.92)	637,768	5,594	8
Asian	462	4,869	1,868,402	2,423,984,339	6,636,507.4	24.73	6.96 (6.35, 7.63)	4,637,209	10,037	11
Black or African American	5,273	52,601	4,164,139	4,756,816,460	13,023,453.7	126.63	40.49 (39.41, 41.60)	41,266,946	7,826	10
Multi-racial	80	868	318,723	462,126,588	1,265,233.6	25.10	6.32 (5.08, 7.87)	901,550	11,269	11
Native Hawaiian or Other Pacific Islander	97	771	221,305	277,295,531	759,193.8	43.83	12.78 (10.47, 15.59)	606,554	6,253	8
Unknown	21,016	133,558	90,667,082	79,490,624,235	217,633,468.1	23.18	9.66 (9.53, 9.79)	100,418,705	4,778	6
White	15,620	139,748	22,558,069	31,884,395,472	87,294,717.2	69.24	17.89 (17.61, 18.18)	122,633,144	7,851	9
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	96	569	151,791	179,213,458	490,659.7	63.24	19.57 (16.02, 23.90)	419,678	4,372	6
Asian	399	3,748	1,868,402	2,423,984,339	6,636,507.4	21.36	6.01 (5.45, 6.63)	3,495,748	8,761	9
Black or African American	4,601	31,715	4,164,139	4,756,816,460	13,023,453.7	110.49	35.33 (34.32, 36.36)	27,020,118	5,873	7
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	878,983	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	483,783	*****	*****

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Unknown	17,325	89,790	90,667,082	79,490,624,235	217,633,468.1	19.11	7.96 (7.84, 8.08)	68,598,160	3,959	5
White	13,118	80,230	22,558,069	31,884,395,472	87,294,717.2	58.15	15.03 (14.77, 15.29)	73,426,572	5,597	6
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	91	485	151,791	179,213,458	490,659.7	59.95	18.55 (15.10, 22.78)	372,900	4,098	5
Asian	380	3,170	1,868,402	2,423,984,339	6,636,507.4	20.34	5.73 (5.18, 6.33)	2,974,811	7,828	8
Black or African American	4,161	28,469	4,164,139	4,756,816,460	13,023,453.7	99.92	31.95 (30.99, 32.94)	24,261,867	5,831	7
Multi-racial	66	481	318,723	462,126,588	1,265,233.6	20.71	5.22 (4.10, 6.64)	437,925	6,635	7
Native Hawaiian or Other Pacific Islander	79	415	221,305	277,295,531	759,193.8	35.70	10.41 (8.35, 12.97)	355,604	4,501	5
Unknown	16,696	83,722	90,667,082	79,490,624,235	217,633,468.1	18.41	7.67 (7.56, 7.79)	64,270,214	3,849	5
White	12,347	74,212	22,558,069	31,884,395,472	87,294,717.2	54.73	14.14 (13.90, 14.40)	67,975,395	5,505	6
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	29	125	151,791	179,213,458	490,659.7	19.11	5.91 (4.11, 8.51)	107,251	3,698	4
Asian	219	1,410	1,868,402	2,423,984,339	6,636,507.4	11.72	3.30 (2.89, 3.77)	1,314,031	6,000	6
Black or African American	1,676	8,628	4,164,139	4,756,816,460	13,023,453.7	40.25	12.87 (12.27, 13.50)	7,871,477	4,697	5
Multi-racial	26	110	318,723	462,126,588	1,265,233.6	8.16	2.05 (1.40, 3.02)	122,087	4,696	4
Native Hawaiian or Other Pacific Islander	37	146	221,305	277,295,531	759,193.8	16.72	4.87 (3.53, 6.73)	108,431	2,931	4
Unknown	6,790	30,224	90,667,082	79,490,624,235	217,633,468.1	7.49	3.12 (3.05, 3.20)	24,629,398	3,627	4

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
White	4,306	20,984	22,558,069	31,884,395,472	87,294,717.2	19.09	4.93 (4.79, 5.08)	20,569,548	4,777	5
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
American Indian or Alaska Native	119	492	151,791	179,213,458	490,659.7	78.40	24.25 (20.26, 29.03)	623,445	5,239	4
Asian	548	2,267	1,868,402	2,423,984,339	6,636,507.4	29.33	8.26 (7.59, 8.98)	3,069,332	5,601	4
Black or African American	5,598	31,642	4,164,139	4,756,816,460	13,023,453.7	134.43	42.98 (41.87, 44.12)	38,597,713	6,895	6
Multi-racial	68	332	318,723	462,126,588	1,265,233.6	21.34	5.37 (4.24, 6.82)	415,701	6,113	5
Native Hawaiian or Other Pacific Islander	98	360	221,305	277,295,531	759,193.8	44.28	12.91 (10.59, 15.73)	432,037	4,409	4
Unknown	16,625	65,245	90,667,082	79,490,624,235	217,633,468.1	18.34	7.64 (7.52, 7.76)	81,722,700	4,916	4
White	13,367	60,642	22,558,069	31,884,395,472	87,294,717.2	59.26	15.31 (15.06, 15.57)	81,905,720	6,127	5
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	96	365	151,791	179,213,458	490,659.7	63.24	19.57 (16.02, 23.90)	459,784	4,789	4
Asian	473	1,725	1,868,402	2,423,984,339	6,636,507.4	25.32	7.13 (6.51, 7.80)	2,370,419	5,011	4
Black or African American	4,880	22,129	4,164,139	4,756,816,460	13,023,453.7	117.19	37.47 (36.43, 38.54)	27,798,662	5,696	5
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	405,501	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	367,512	*****	*****
Unknown	14,035	48,708	90,667,082	79,490,624,235	217,633,468.1	15.48	6.45 (6.34, 6.56)	61,272,943	4,366	3
White	11,025	40,919	22,558,069	31,884,395,472	87,294,717.2	48.87	12.63 (12.40, 12.87)	56,410,277	5,117	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	425,346	*****	*****
Asian	456	1,584	1,868,402	2,423,984,339	6,636,507.4	24.41	6.87 (6.27, 7.53)	2,162,010	4,741	3

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Black or African American	4,755	21,358	4,164,139	4,756,816,460	13,023,453.7	114.19	36.51 (35.49, 37.56)	26,811,450	5,639	4
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	305,032	*****	*****
Native Hawaiian or Other Pacific Islander	87	295	221,305	277,295,531	759,193.8	39.31	11.46 (9.29, 14.14)	357,742	4,112	3
Unknown	13,432	45,645	90,667,082	79,490,624,235	217,633,468.1	14.81	6.17 (6.07, 6.28)	57,537,828	4,284	3
White	10,741	39,455	22,558,069	31,884,395,472	87,294,717.2	47.61	12.30 (12.07, 12.54)	54,258,876	5,052	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	20	49	151,791	179,213,458	490,659.7	13.18	4.08 (2.63, 6.32)	66,738	3,337	2
Asian	163	570	1,868,402	2,423,984,339	6,636,507.4	8.72	2.46 (2.11, 2.86)	748,267	4,591	3
Black or African American	1,799	7,460	4,164,139	4,756,816,460	13,023,453.7	43.20	13.81 (13.19, 14.47)	9,323,095	5,182	4
Multi-racial	23	128	318,723	462,126,588	1,265,233.6	7.22	1.82 (1.21, 2.74)	142,059	6,176	6
Native Hawaiian or Other Pacific Islander	20	71	221,305	277,295,531	759,193.8	9.04	2.63 (1.70, 4.08)	88,706	4,435	4
Unknown	4,151	14,054	90,667,082	79,490,624,235	217,633,468.1	4.58	1.91 (1.85, 1.97)	18,007,494	4,338	3
White	2,810	9,728	22,558,069	31,884,395,472	87,294,717.2	12.46	3.22 (3.10, 3.34)	14,044,223	4,998	3
Patients with Mixed Cutaneous Lupus Erythematosus										
American Indian or Alaska Native	47	275	151,791	179,213,458	490,659.7	30.96	9.58 (7.20, 12.75)	268,329	5,709	6
Asian	227	1,432	1,868,402	2,423,984,339	6,636,507.4	12.15	3.42 (3.00, 3.90)	1,744,444	7,685	6
Black or African American	1,870	13,855	4,164,139	4,756,816,460	13,023,453.7	44.91	14.36 (13.72, 15.02)	15,423,929	8,248	7
Multi-racial	39	322	318,723	462,126,588	1,265,233.6	12.24	3.08 (2.25, 4.22)	347,121	8,901	8

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Native Hawaiian or Other Pacific Islander	39	274	221,305	277,295,531	759,193.8	17.62	5.14 (3.75, 7.03)	246,366	6,317	7
Unknown	9,323	51,031	90,667,082	79,490,624,235	217,633,468.1	10.28	4.28 (4.20, 4.37)	54,418,636	5,837	5
White	6,824	48,867	22,558,069	31,884,395,472	87,294,717.2	30.25	7.82 (7.63, 8.00)	57,544,100	8,433	7
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	154,693	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	1,506,567	*****	*****
Black or African American	1,705	10,654	4,164,139	4,756,816,460	13,023,453.7	40.94	13.09 (12.48, 13.73)	12,011,079	7,045	6
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	329,627	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	217,093	*****	*****
Unknown	8,307	39,447	90,667,082	79,490,624,235	217,633,468.1	9.16	3.82 (3.74, 3.90)	41,664,258	5,016	5
White	6,165	36,800	22,558,069	31,884,395,472	87,294,717.2	27.33	7.06 (6.89, 7.24)	43,728,300	7,093	6
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	142,287	*****	*****
Asian	204	1,140	1,868,402	2,423,984,339	6,636,507.4	10.92	3.07 (2.68, 3.53)	1,397,085	6,848	6
Black or African American	1,673	10,275	4,164,139	4,756,816,460	13,023,453.7	40.18	12.85 (12.25, 13.48)	11,553,351	6,906	6
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	257,093	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	214,288	*****	*****
Unknown	8,007	36,406	90,667,082	79,490,624,235	217,633,468.1	8.83	3.68 (3.60, 3.76)	38,515,601	4,810	5

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
White	6,040	35,463	22,558,069	31,884,395,472	87,294,717.2	26.78	6.92 (6.75, 7.10)	42,187,463	6,985	6
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	24	82	151,791	179,213,458	490,659.7	15.81	4.89 (3.28, 7.30)	57,545	2,398	3
Asian	149	638	1,868,402	2,423,984,339	6,636,507.4	7.97	2.25 (1.91, 2.64)	743,223	4,988	4
Black or African American	1,066	4,969	4,164,139	4,756,816,460	13,023,453.7	25.60	8.19 (7.71, 8.69)	5,685,519	5,334	5
Multi-racial	27	175	318,723	462,126,588	1,265,233.6	8.47	2.13 (1.46, 3.11)	172,192	6,377	6
Native Hawaiian or Other Pacific Islander	20	90	221,305	277,295,531	759,193.8	9.04	2.63 (1.70, 4.08)	85,456	4,273	5
Unknown	4,978	17,968	90,667,082	79,490,624,235	217,633,468.1	5.49	2.29 (2.22, 2.35)	19,244,717	3,866	4
White	3,983	17,642	22,558,069	31,884,395,472	87,294,717.2	17.66	4.56 (4.42, 4.71)	21,133,833	5,306	4
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	7,228	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	123,131	*****	*****
Black or African American	53	177	4,164,139	4,756,816,460	13,023,453.7	1.27	0.41 (0.31, 0.53)	143,314	2,704	3
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	15,396	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	22,952	*****	*****
Unknown	713	2,246	90,667,082	79,490,624,235	217,633,468.1	0.79	0.33 (0.30, 0.35)	1,697,608	2,381	3
White	507	1,608	22,558,069	31,884,395,472	87,294,717.2	2.25	0.58 (0.53, 0.63)	1,494,401	2,948	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	2,618	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	104,346	*****	*****

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Black or African American	*****	*****	4,164,139	4,756,816,460	13,023,453.7	*****	*****	117,553	*****	*****
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	15,396	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	22,952	*****	*****
Unknown	*****	*****	90,667,082	79,490,624,235	217,633,468.1	*****	*****	1,460,691	*****	*****
White	*****	*****	22,558,069	31,884,395,472	87,294,717.2	*****	*****	1,312,390	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	2,618	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	89,366	*****	*****
Black or African American	*****	*****	4,164,139	4,756,816,460	13,023,453.7	*****	*****	114,190	*****	*****
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	12,252	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	22,257	*****	*****
Unknown	*****	*****	90,667,082	79,490,624,235	217,633,468.1	*****	*****	1,326,758	*****	*****
White	461	1,320	22,558,069	31,884,395,472	87,294,717.2	2.04	0.53 (0.48, 0.58)	1,230,312	2,669	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	*****	*****	151,791	179,213,458	490,659.7	*****	*****	2,141	*****	*****
Asian	*****	*****	1,868,402	2,423,984,339	6,636,507.4	*****	*****	64,101	*****	*****
Black or African American	*****	*****	4,164,139	4,756,816,460	13,023,453.7	*****	*****	87,299	*****	*****
Multi-racial	*****	*****	318,723	462,126,588	1,265,233.6	*****	*****	11,036	*****	*****

Table 6. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Race²

	Number of Patients per Race Category	Number of Index Dates ³ per Race Category	Number of Eligible Members ⁴ per Race Category	Total Eligible Member-Days ⁴ per Race Category	Total Eligible Member-Years ⁴ per Race Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Native Hawaiian or Other Pacific Islander	*****	*****	221,305	277,295,531	759,193.8	*****	*****	19,888	*****	*****
Unknown	435	1,178	90,667,082	79,490,624,235	217,633,468.1	0.48	0.20 (0.18, 0.22)	892,347	2,051	3
White	335	903	22,558,069	31,884,395,472	87,294,717.2	1.49	0.38 (0.34, 0.43)	839,174	2,505	3

¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.
 - Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.
 - Other lupus erythematosus, defined by ICD-10 code L93.2.
 - Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.
 - Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.
 - Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.
 - Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.
 - We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁴Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study.

⁵Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment.

*****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.

N/A: Not Applicable

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
Yes	2,177	9,520	1,936,896	2,464,124,351	6,746,404.8	112.40	32.27 (30.94, 33.65)	9,622,295	4,420	4
No	44,286	221,396	28,320,696	38,761,015,118	106,121,875.8	156.37	41.73 (41.34, 42.12)	203,316,236	4,591	5
Unknown	51,680	188,300	89,691,919	78,249,316,614	214,234,953.1	57.62	24.12 (23.92, 24.33)	147,689,596	2,858	4
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
Yes	1,823	7,366	1,936,896	2,464,124,351	6,746,404.8	94.12	27.02 (25.81, 28.29)	7,507,784	4,118	4
No	35,821	148,005	28,320,696	38,761,015,118	106,121,875.8	126.48	33.75 (33.41, 34.11)	142,621,059	3,981	4
Unknown	41,557	140,468	89,691,919	78,249,316,614	214,234,953.1	46.33	19.40 (19.21, 19.59)	111,054,884	2,672	3
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	1,727	6,786	1,936,896	2,464,124,351	6,746,404.8	89.16	25.60 (24.42, 26.84)	6,884,153	3,986	4
No	34,582	140,825	28,320,696	38,761,015,118	106,121,875.8	122.11	32.59 (32.25, 32.93)	135,543,768	3,919	4
Unknown	39,710	130,443	89,691,919	78,249,316,614	214,234,953.1	44.27	18.54 (18.35, 18.72)	103,509,261	2,607	3
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	494	1,937	1,936,896	2,464,124,351	6,746,404.8	25.50	7.32 (6.70, 8.00)	1,980,017	4,008	4
No	11,401	42,913	28,320,696	38,761,015,118	106,121,875.8	40.26	10.74 (10.55, 10.94)	42,707,661	3,746	4
Unknown	14,061	44,472	89,691,919	78,249,316,614	214,234,953.1	15.68	6.56 (6.46, 6.67)	36,491,427	2,595	3
Patients with Subacute Cutaneous Lupus Erythematosus										
Yes	286	1,054	1,936,896	2,464,124,351	6,746,404.8	14.77	4.24 (3.78, 4.76)	994,630	3,478	4
No	8,362	36,790	28,320,696	38,761,015,118	106,121,875.8	29.53	7.88 (7.71, 8.05)	33,371,856	3,991	4
Unknown	8,835	28,396	89,691,919	78,249,316,614	214,234,953.1	9.85	4.12 (4.04, 4.21)	22,171,401	2,509	3

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
Yes	242	839	1,936,896	2,464,124,351	6,746,404.8	12.49	3.59 (3.16, 4.07)	792,874	3,276	3
No	7,180	28,350	28,320,696	38,761,015,118	106,121,875.8	25.35	6.77 (6.61, 6.92)	26,021,473	3,624	4
Unknown	7,379	22,265	89,691,919	78,249,316,614	214,234,953.1	8.23	3.44 (3.37, 3.52)	17,426,638	2,362	3
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	228	760	1,936,896	2,464,124,351	6,746,404.8	11.77	3.38 (2.97, 3.85)	706,414	3,098	3
No	6,893	27,175	28,320,696	38,761,015,118	106,121,875.8	24.34	6.50 (6.34, 6.65)	24,955,259	3,620	4
Unknown	6,919	20,516	89,691,919	78,249,316,614	214,234,953.1	7.71	3.23 (3.15, 3.31)	16,192,223	2,340	3
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	142	462	1,936,896	2,464,124,351	6,746,404.8	7.33	2.10 (1.79, 2.48)	430,663	3,033	3
No	4,573	16,734	28,320,696	38,761,015,118	106,121,875.8	16.15	4.31 (4.19, 4.44)	15,837,576	3,463	4
Unknown	4,317	12,222	89,691,919	78,249,316,614	214,234,953.1	4.81	2.02 (1.96, 2.08)	9,931,900	2,301	3
Patients with Other Lupus Erythematosus										
Yes	692	2,198	1,936,896	2,464,124,351	6,746,404.8	35.73	10.26 (9.52, 11.05)	2,120,370	3,064	3
No	14,729	58,850	28,320,696	38,761,015,118	106,121,875.8	52.01	13.88 (13.66, 14.11)	54,479,871	3,699	4
Unknown	16,717	49,753	89,691,919	78,249,316,614	214,234,953.1	18.64	7.80 (7.69, 7.92)	39,477,264	2,362	3
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
Yes	555	1,711	1,936,896	2,464,124,351	6,746,404.8	28.65	8.23 (7.57, 8.94)	1,684,216	3,035	3
No	12,204	43,022	28,320,696	38,761,015,118	106,121,875.8	43.09	11.50 (11.30, 11.71)	40,252,020	3,298	4
Unknown	13,259	36,937	89,691,919	78,249,316,614	214,234,953.1	14.78	6.19 (6.08, 6.30)	28,863,335	2,177	3

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	532	1,641	1,936,896	2,464,124,351	6,746,404.8	27.47	7.89 (7.24, 8.59)	1,616,838	3,039	3
No	11,778	40,845	28,320,696	38,761,015,118	106,121,875.8	41.59	11.10 (10.90, 11.30)	38,228,900	3,246	3
Unknown	12,455	34,005	89,691,919	78,249,316,614	214,234,953.1	13.89	5.81 (5.71, 5.92)	26,523,227	2,130	3
Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist										
Yes	235	722	1,936,896	2,464,124,351	6,746,404.8	12.13	3.48 (3.07, 3.96)	714,615	3,041	3
No	5,565	17,476	28,320,696	38,761,015,118	106,121,875.8	19.65	5.24 (5.11, 5.38)	16,520,075	2,969	3
Unknown	5,700	15,192	89,691,919	78,249,316,614	214,234,953.1	6.36	2.66 (2.59, 2.73)	12,217,458	2,143	3
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus										
Yes	992	9,310	1,936,896	2,464,124,351	6,746,404.8	51.22	14.70 (13.82, 15.65)	8,561,257	8,630	9
No	21,347	196,122	28,320,696	38,761,015,118	106,121,875.8	75.38	20.12 (19.85, 20.39)	167,633,843	7,853	9
Unknown	20,323	127,900	89,691,919	78,249,316,614	214,234,953.1	22.66	9.49 (9.36, 9.62)	94,906,776	4,670	6
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider										
Yes	850	6,855	1,936,896	2,464,124,351	6,746,404.8	43.88	12.60 (11.78, 13.48)	6,433,339	7,569	8
No	18,080	114,050	28,320,696	38,761,015,118	106,121,875.8	63.84	17.04 (16.79, 17.29)	102,755,573	5,683	6
Unknown	16,775	86,516	89,691,919	78,249,316,614	214,234,953.1	18.70	7.83 (7.71, 7.95)	65,134,130	3,883	5
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	809	6,276	1,936,896	2,464,124,351	6,746,404.8	41.77	11.99 (11.19, 12.85)	5,852,905	7,235	8
No	16,837	104,174	28,320,696	38,761,015,118	106,121,875.8	59.45	15.87 (15.63, 16.11)	93,942,763	5,580	6
Unknown	16,174	80,504	89,691,919	78,249,316,614	214,234,953.1	18.03	7.55 (7.43, 7.67)	60,853,048	3,762	5
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	375	2,205	1,936,896	2,464,124,351	6,746,404.8	19.36	5.56 (5.02, 6.15)	2,094,438	5,585	6
No	6,128	29,863	28,320,696	38,761,015,118	106,121,875.8	21.64	5.77 (5.63, 5.92)	28,821,630	4,703	5
Unknown	6,580	29,559	89,691,919	78,249,316,614	214,234,953.1	7.34	3.07 (3.00, 3.15)	23,806,155	3,618	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
Yes	1,043	4,544	1,936,896	2,464,124,351	6,746,404.8	53.85	15.46 (14.55, 16.43)	6,298,586	6,039	4

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
No	19,642	95,049	28,320,696	38,761,015,118	106,121,875.8	69.36	18.51 (18.25, 18.77)	124,273,531	6,327	5
Unknown	15,738	61,387	89,691,919	78,249,316,614	214,234,953.1	17.55	7.35 (7.23, 7.46)	76,194,531	4,841	4
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
Yes	902	3,449	1,936,896	2,464,124,351	6,746,404.8	46.57	13.37 (12.53, 14.27)	4,825,106	5,349	4
No	16,474	65,106	28,320,696	38,761,015,118	106,121,875.8	58.17	15.52 (15.29, 15.76)	87,067,545	5,285	4
Unknown	13,289	45,919	89,691,919	78,249,316,614	214,234,953.1	14.82	6.20 (6.10, 6.31)	57,192,447	4,304	3
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	870	3,287	1,936,896	2,464,124,351	6,746,404.8	44.92	12.90 (12.07, 13.78)	4,557,343	5,238	4
No	16,042	62,686	28,320,696	38,761,015,118	106,121,875.8	56.64	15.12 (14.88, 15.35)	83,659,453	5,215	4
Unknown	12,706	42,966	89,691,919	78,249,316,614	214,234,953.1	14.17	5.93 (5.83, 6.03)	53,641,488	4,222	3
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	229	879	1,936,896	2,464,124,351	6,746,404.8	11.82	3.39 (2.98, 3.86)	1,243,473	5,430	4
No	4,757	17,705	28,320,696	38,761,015,118	106,121,875.8	16.80	4.48 (4.36, 4.61)	24,066,353	5,059	4
Unknown	4,000	13,476	89,691,919	78,249,316,614	214,234,953.1	4.46	1.87 (1.81, 1.93)	17,110,756	4,278	3
Patients with Mixed Cutaneous Lupus Erythematosus										
Yes	353	2,197	1,936,896	2,464,124,351	6,746,404.8	18.23	5.23 (4.71, 5.81)	2,755,616	7,806	6
No	8,949	64,460	28,320,696	38,761,015,118	106,121,875.8	31.60	8.43 (8.26, 8.61)	75,058,164	8,387	7
Unknown	9,067	49,399	89,691,919	78,249,316,614	214,234,953.1	10.11	4.23 (4.15, 4.32)	52,179,145	5,755	5
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
Yes	327	1,686	1,936,896	2,464,124,351	6,746,404.8	16.88	4.85 (4.35, 5.40)	2,124,082	6,496	5
No	8,103	48,843	28,320,696	38,761,015,118	106,121,875.8	28.61	7.64 (7.47, 7.80)	57,450,849	7,090	6
Unknown	8,074	38,303	89,691,919	78,249,316,614	214,234,953.1	9.00	3.77 (3.69, 3.85)	40,036,686	4,959	5
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	****	****	1,936,896	2,464,124,351	6,746,404.8	****	****	1,994,465	****	****
No	7,937	47,041	28,320,696	38,761,015,118	106,121,875.8	28.03	7.48 (7.32, 7.65)	55,332,703	6,971	6
Unknown	****	****	89,691,919	78,249,316,614	214,234,953.1	****	****	36,940,000	****	****
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	182	782	1,936,896	2,464,124,351	6,746,404.8	9.40	2.70 (2.33, 3.12)	944,663	5,190	4
No	5,201	23,320	28,320,696	38,761,015,118	106,121,875.8	18.36	4.90 (4.77, 5.04)	27,626,699	5,312	4
Unknown	4,864	17,462	89,691,919	78,249,316,614	214,234,953.1	5.42	2.27 (2.21, 2.34)	18,551,123	3,814	4

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
Yes	25	118	1,936,896	2,464,124,351	6,746,404.8	1.29	0.37 (0.25, 0.55)	105,787	4,231	5
No	609	1,933	28,320,696	38,761,015,118	106,121,875.8	2.15	0.57 (0.53, 0.62)	1,794,333	2,946	3
Unknown	696	2,146	89,691,919	78,249,316,614	214,234,953.1	0.78	0.32 (0.30, 0.35)	1,603,910	2,304	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
Yes	*****	*****	1,936,896	2,464,124,351	6,746,404.8	*****	*****	95,891	*****	*****
No	*****	*****	28,320,696	38,761,015,118	106,121,875.8	*****	*****	1,563,166	*****	*****
Unknown	641	1,837	89,691,919	78,249,316,614	214,234,953.1	0.71	0.30 (0.28, 0.32)	1,376,889	2,148	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	*****	*****	1,936,896	2,464,124,351	6,746,404.8	*****	*****	93,159	*****	*****
No	546	1,572	28,320,696	38,761,015,118	106,121,875.8	1.93	0.51 (0.47, 0.56)	1,460,846	2,676	3
Unknown	*****	*****	89,691,919	78,249,316,614	214,234,953.1	*****	*****	1,243,748	*****	*****

Table 7. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Hispanic Origin

	Number of Patients per Ethnicity Category	Number of Index Dates ³ per Ethnicity Category	Number of Eligible Members ⁴ per Ethnicity Category	Total Eligible Member-Days ⁴ per Ethnicity Category	Total Eligible Member-Years ⁴ per Ethnicity Category	Number of Patients per 100,000 Eligible Members ⁴	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ⁴	Total Observable Days Among Patients ⁵	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
Yes	*****	*****	1,936,896	2,464,124,351	6,746,404.8	*****	*****	58,026	*****	*****
No	403	1,093	28,320,696	38,761,015,118	106,121,875.8	1.42	0.38 (0.34, 0.42)	1,014,876	2,518	3
Unknown	*****	*****	89,691,919	78,249,316,614	214,234,953.1	*****	*****	843,084	*****	*****

¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

- Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.

- Other lupus erythematosus, defined by ICD-10 code L93.2.

- Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

- Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

- Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

- Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

- We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Ethnicity origin data may not be completely populated at all Data Partners; therefore, data about ethnicity origin may be incomplete.

³Cohort includes all valid index dates per patient that meet all user criteria during the query period.

⁴Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period. Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study.

⁵Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment.

*****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 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus										
<i>0-5 years</i>										
2017	26	75	3,487,087	897,193,746	2,456,382.6	0.75	1.06 (0.72, 1.55)	108,987	4,192	3
2018	33	124	3,418,168	881,364,429	2,413,044.3	0.97	1.37 (0.97, 1.92)	104,010	3,152	4
2019	32	53	3,345,827	867,349,083	2,374,672.4	0.96	1.35 (0.95, 1.91)	66,094	2,065	2
2020	32	75	3,201,502	848,325,734	2,322,589.3	1.00	1.38 (0.97, 1.95)	67,246	2,101	2
2021	25	61	3,107,029	810,945,222	2,220,247.0	0.80	1.13 (0.76, 1.67)	38,838	1,554	2
2022	40	83	3,105,954	792,002,883	2,168,385.7	1.29	1.84 (1.35, 2.51)	42,999	1,075	2
2023	30	54	2,951,933	766,094,604	2,097,452.7	1.02	1.43 (1.00, 2.05)	16,752	558	2
2024	15	31	2,497,108	346,578,678	948,880.7	0.60	1.58 (0.95, 2.62)	2,663	178	2
<i>6-11 years</i>										
2017	41	93	4,086,589	1,084,670,148	2,969,665.0	1.00	1.38 (1.02, 1.88)	129,620	3,161	2
2018	61	116	3,991,951	1,060,113,098	2,902,431.5	1.53	2.10 (1.64, 2.70)	150,107	2,461	2
2019	45	101	3,892,176	1,037,155,567	2,839,577.2	1.16	1.58 (1.18, 2.12)	125,355	2,786	2
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	102,316	*****	*****
2021	30	78	3,622,029	976,291,219	2,672,939.7	0.83	1.12 (0.78, 1.61)	76,061	2,535	3
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	66,815	*****	*****
2023	27	94	3,457,667	925,276,292	2,533,268.4	0.78	1.07 (0.73, 1.55)	31,921	1,182	3
2024	23	67	2,948,554	417,235,851	1,142,329.5	0.78	2.01 (1.34, 3.03)	5,803	252	3
<i>12-17 years</i>										
2017	204	396	4,476,684	1,206,434,464	3,303,037.5	4.56	6.18 (5.38, 7.08)	533,165	2,614	2
2018	246	494	4,389,457	1,182,182,630	3,236,639.6	5.60	7.60 (6.71, 8.61)	626,934	2,549	2
2019	192	380	4,312,393	1,167,100,069	3,195,345.8	4.45	6.01 (5.22, 6.92)	460,565	2,399	2
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	324,742	*****	*****
2021	136	308	4,084,415	1,117,255,019	3,058,877.5	3.33	4.45 (3.76, 5.26)	255,855	1,881	2
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	168,033	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	92,921	*****	*****
2024	77	148	3,304,739	471,958,328	1,292,151.5	2.33	5.96 (4.77, 7.45)	13,441	175	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	6,389	13,130	22,144,329	6,094,616,461	16,686,150.5	28.85	38.29 (37.36, 39.24)	15,649,598	2,449	2
2018	8,205	17,530	21,909,669	6,026,658,035	16,500,090.4	37.45	49.73 (48.66, 50.81)	19,685,784	2,399	2
2019	6,955	15,181	21,754,009	6,007,077,430	16,446,481.7	31.97	42.29 (41.31, 43.29)	15,672,403	2,253	2
2020	5,371	12,364	20,975,128	5,922,943,852	16,216,136.5	25.61	33.12 (32.25, 34.02)	11,090,133	2,065	2
2021	5,403	12,284	20,836,192	5,775,098,694	15,811,358.5	25.93	34.17 (33.27, 35.10)	9,097,805	1,684	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	6,430,563	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	3,383,739	*****	*****
2024	2,956	5,167	17,522,152	2,548,291,731	6,976,842.5	16.87	42.37 (40.87, 43.92)	457,622	155	2
<i>45-64 years</i>										
2017	11,377	24,792	16,244,067	4,868,205,919	13,328,421.4	70.04	85.36 (83.80, 86.94) 105.37 (103.62,	33,628,631	2,956	2
2018	13,706	30,248	15,806,686	4,750,989,974	13,007,501.6	86.71	107.15)	37,952,810	2,769	2
2019	12,412	27,972	15,686,961	4,708,959,868	12,892,429.5	79.12	96.27 (94.59, 97.98)	32,295,438	2,602	2
2020	10,482	25,276	15,358,829	4,644,417,280	12,715,721.5	68.25	82.43 (80.87, 84.03)	24,669,385	2,353	2
2021	10,775	26,158	15,210,106	4,574,595,196	12,524,559.1	70.84	86.03 (84.42, 87.67)	20,806,698	1,931	2
2022	10,336	25,386	15,336,286	4,538,798,572	12,426,553.2	67.40	83.18 (81.59, 84.80)	14,849,940	1,437	2
2023	10,268	25,862	14,741,696	4,379,083,292	11,989,276.6	69.65	85.64 (84.00, 87.32)	8,258,839	804	3
2024	6,273	11,810	13,157,408	2,005,810,348	5,491,609.4	47.68	114.23 (111.44,	1,067,947	170	2
<i>≥ 65 years</i>										
2017	4,577	11,111	6,555,786	2,115,465,855	5,791,829.9	69.82	79.03 (76.77, 81.35)	17,474,515	3,818	2
2018	5,799	14,722	6,892,627	2,200,393,332	6,024,348.6	84.13	96.26 (93.81, 98.77)	20,385,443	3,515	3
2019	5,772	15,709	7,445,400	2,355,099,377	6,447,910.7	77.52	89.52 (87.24, 91.86)	18,674,943	3,235	3
2020	5,396	15,259	8,032,963	2,542,558,043	6,961,144.5	67.17	77.52 (75.48, 79.61)	14,646,039	2,714	3
2021	5,989	17,131	8,541,799	2,664,198,303	7,294,177.4	70.11	82.11 (80.05, 84.21)	13,805,540	2,305	3
2022	6,244	16,933	8,876,927	2,763,033,608	7,564,773.7	70.34	82.54 (80.52, 84.61)	9,990,377	1,600	3
2023	6,748	18,565	9,450,355	2,937,680,658	8,042,931.3	71.40	83.90 (81.92, 85.93)	6,138,687	910	3
2024	4,636	9,962	9,257,778	1,517,580,178	4,154,908.1	50.08	111.58 (108.41,	904,005	195	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	20	52	3,487,087	897,193,746	2,456,382.6	0.57	0.81 (0.53, 1.26)	95,968	4,798	3
2018	27	64	3,418,168	881,364,429	2,413,044.3	0.79	1.12 (0.77, 1.63)	88,836	3,290	2
2019	29	42	3,345,827	867,349,083	2,374,672.4	0.87	1.22 (0.85, 1.76)	52,956	1,826	1
2020	27	52	3,201,502	848,325,734	2,322,589.3	0.84	1.16 (0.80, 1.70)	50,529	1,871	2
2021	19	34	3,107,029	810,945,222	2,220,247.0	0.61	0.86 (0.55, 1.34)	18,971	998	2
2022	36	63	3,105,954	792,002,883	2,168,385.7	1.16	1.66 (1.20, 2.30)	31,396	872	2
2023	28	49	2,951,933	766,094,604	2,097,452.7	0.95	1.33 (0.92, 1.93)	14,957	534	2
2024	11	19	2,497,108	346,578,678	948,880.7	0.44	1.16 (0.64, 2.09)	2,052	187	2
<i>6-11 years</i>										
2017	33	66	4,086,589	1,084,670,148	2,969,665.0	0.81	1.11 (0.79, 1.56)	101,524	3,076	2
2018	50	93	3,991,951	1,060,113,098	2,902,431.5	1.25	1.72 (1.31, 2.27)	119,845	2,397	2
2019	33	76	3,892,176	1,037,155,567	2,839,577.2	0.85	1.16 (0.83, 1.63)	90,837	2,753	2
2020	26	55	3,729,351	1,011,669,639	2,769,800.5	0.70	0.94 (0.64, 1.38)	57,659	2,218	2
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	30,819	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	33,909	*****	*****
2023	19	44	3,457,667	925,276,292	2,533,268.4	0.55	0.75 (0.48, 1.18)	14,683	773	2
2024	19	31	2,948,554	417,235,851	1,142,329.5	0.64	1.66 (1.06, 2.61)	2,980	157	2
<i>12-17 years</i>										
2017	158	290	4,476,684	1,206,434,464	3,303,037.5	3.53	4.78 (4.09, 5.59)	381,903	2,417	2
2018	199	370	4,389,457	1,182,182,630	3,236,639.6	4.53	6.15 (5.35, 7.06)	458,430	2,304	2
2019	157	276	4,312,393	1,167,100,069	3,195,345.8	3.64	4.91 (4.20, 5.75)	320,533	2,042	2
2020	109	227	4,179,199	1,151,113,124	3,151,576.0	2.61	3.46 (2.87, 4.17)	214,114	1,964	2
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	170,263	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	125,340	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	58,591	*****	*****
2024	54	88	3,304,739	471,958,328	1,292,151.5	1.63	4.18 (3.20, 5.46)	8,305	154	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	5,112	9,982	22,144,329	6,094,616,461	16,686,150.5	23.08	30.64 (29.81, 31.49)	12,002,553	2,348	2
2018	6,685	13,039	21,909,669	6,026,658,035	16,500,090.4	30.51	40.51 (39.56, 41.50)	14,644,063	2,191	2
2019	5,654	11,319	21,754,009	6,007,077,430	16,446,481.7	25.99	34.38 (33.49, 35.29)	11,719,406	2,073	2
2020	4,348	9,234	20,975,128	5,922,943,852	16,216,136.5	20.73	26.81 (26.03, 27.62)	8,305,221	1,910	2
2021	4,420	9,347	20,836,192	5,775,098,694	15,811,358.5	21.21	27.95 (27.14, 28.79)	6,905,804	1,562	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	4,969,107	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	2,592,361	*****	*****
2024	2,368	3,871	17,522,152	2,548,291,731	6,976,842.5	13.51	33.94 (32.60, 35.34)	340,216	144	2
<i>45-64 years</i>										
2017	9,271	18,055	16,244,067	4,868,205,919	13,328,421.4	57.07	69.56 (68.16, 70.99)	24,965,014	2,693	2
2018	11,319	22,194	15,806,686	4,750,989,974	13,007,501.6	71.61	87.02 (85.43, 88.64)	28,314,456	2,501	2
2019	10,107	20,502	15,686,961	4,708,959,868	12,892,429.5	64.43	78.39 (76.88, 79.94)	23,542,976	2,329	2
2020	8,610	17,778	15,358,829	4,644,417,280	12,715,721.5	56.06	67.71 (66.30, 69.16)	17,534,194	2,036	2
2021	8,843	18,498	15,210,106	4,574,595,196	12,524,559.1	58.14	70.61 (69.15, 72.09)	14,734,567	1,666	2
2022	8,712	18,316	15,336,286	4,538,798,572	12,426,553.2	56.81	70.11 (68.65, 71.60)	10,759,286	1,235	2
2023	8,625	18,221	14,741,696	4,379,083,292	11,989,276.6	58.51	71.94 (70.44, 73.47)	5,852,033	678	2
2024	5,180	8,431	13,157,408	2,005,810,348	5,491,609.4	39.37	94.33 (91.79, 96.93)	752,024	145	2
<i>≥ 65 years</i>										
2017	3,756	7,458	6,555,786	2,115,465,855	5,791,829.9	57.29	64.85 (62.81, 66.96)	12,495,753	3,327	2
2018	4,840	9,929	6,892,627	2,200,393,332	6,024,348.6	70.22	80.34 (78.11, 82.64)	14,792,196	3,056	2
2019	4,762	10,325	7,445,400	2,355,099,377	6,447,910.7	63.96	73.85 (71.79, 75.98)	13,161,077	2,764	2
2020	4,446	9,536	8,032,963	2,542,558,043	6,961,144.5	55.35	63.87 (62.02, 65.77)	9,940,414	2,236	2
2021	4,895	10,603	8,541,799	2,664,198,303	7,294,177.4	57.31	67.11 (65.25, 69.01)	9,031,949	1,845	2
2022	5,196	10,876	8,876,927	2,763,033,608	7,564,773.7	58.53	68.69 (66.84, 70.58)	6,724,498	1,294	2
2023	5,638	11,810	9,450,355	2,937,680,658	8,042,931.3	59.66	70.10 (68.29, 71.95)	3,981,090	706	2
2024	3,895	6,272	9,257,778	1,517,580,178	4,154,908.1	42.07	93.74 (90.85, 96.74)	578,069	148	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	20	51	3,487,087	897,193,746	2,456,382.6	0.57	0.81 (0.53, 1.26)	95,451	4,773	3
2018	25	61	3,418,168	881,364,429	2,413,044.3	0.73	1.04 (0.70, 1.53)	85,681	3,427	2
2019	28	40	3,345,827	867,349,083	2,374,672.4	0.84	1.18 (0.81, 1.71)	50,066	1,788	1
2020	26	47	3,201,502	848,325,734	2,322,589.3	0.81	1.12 (0.76, 1.64)	43,885	1,688	2
2021	18	29	3,107,029	810,945,222	2,220,247.0	0.58	0.81 (0.51, 1.29)	17,635	980	2
2022	36	60	3,105,954	792,002,883	2,168,385.7	1.16	1.66 (1.20, 2.30)	30,641	851	2
2023	26	44	2,951,933	766,094,604	2,097,452.7	0.88	1.24 (0.84, 1.82)	13,913	535	2
2024	11	19	2,497,108	346,578,678	948,880.7	0.44	1.16 (0.64, 2.09)	2,052	187	2
<i>6-11 years</i>										
2017	32	59	4,086,589	1,084,670,148	2,969,665.0	0.78	1.08 (0.76, 1.52)	93,708	2,928	2
2018	46	85	3,991,951	1,060,113,098	2,902,431.5	1.15	1.58 (1.19, 2.12)	110,935	2,412	2
2019	30	69	3,892,176	1,037,155,567	2,839,577.2	0.77	1.06 (0.74, 1.51)	81,542	2,718	2
2020	26	53	3,729,351	1,011,669,639	2,769,800.5	0.70	0.94 (0.64, 1.38)	55,962	2,152	2
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	29,792	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	32,367	*****	*****
2023	19	43	3,457,667	925,276,292	2,533,268.4	0.55	0.75 (0.48, 1.18)	14,407	758	2
2024	19	31	2,948,554	417,235,851	1,142,329.5	0.64	1.66 (1.06, 2.61)	2,980	157	2
<i>12-17 years</i>										
2017	151	279	4,476,684	1,206,434,464	3,303,037.5	3.37	4.57 (3.90, 5.36)	373,038	2,470	2
2018	186	330	4,389,457	1,182,182,630	3,236,639.6	4.24	5.75 (4.98, 6.63)	420,306	2,260	2
2019	146	249	4,312,393	1,167,100,069	3,195,345.8	3.39	4.57 (3.88, 5.37)	295,763	2,026	2
2020	103	203	4,179,199	1,151,113,124	3,151,576.0	2.46	3.27 (2.69, 3.96)	193,832	1,882	2
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	153,581	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	117,415	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	57,046	*****	*****
2024	48	81	3,304,739	471,958,328	1,292,151.5	1.45	3.71 (2.80, 4.93)	7,906	165	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

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<i>18-44 years</i>										
2017	4,864	9,334	22,144,329	6,094,616,461	16,686,150.5	21.96	29.15 (28.34, 29.98)	11,202,410	2,303	2
2018	6,326	12,109	21,909,669	6,026,658,035	16,500,090.4	28.87	38.34 (37.41, 39.30)	13,616,022	2,152	2
2019	5,371	10,588	21,754,009	6,007,077,430	16,446,481.7	24.69	32.66 (31.80, 33.54)	10,978,362	2,044	2
2020	4,122	8,548	20,975,128	5,922,943,852	16,216,136.5	19.65	25.42 (24.65, 26.21)	7,723,197	1,874	2
2021	4,176	8,602	20,836,192	5,775,098,694	15,811,358.5	20.04	26.41 (25.62, 27.22)	6,374,676	1,527	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	4,588,182	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	2,400,956	*****	*****
2024	2,225	3,572	17,522,152	2,548,291,731	6,976,842.5	12.70	31.89 (30.59, 33.24)	319,978	144	2
<i>45-64 years</i>										
2017	8,806	16,870	16,244,067	4,868,205,919	13,328,421.4	54.21	66.07 (64.70, 67.46)	23,310,704	2,647	2
2018	10,808	20,880	15,806,686	4,750,989,974	13,007,501.6	68.38	83.09 (81.54, 84.67)	26,658,101	2,467	2
2019	9,686	19,314	15,686,961	4,708,959,868	12,892,429.5	61.75	75.13 (73.65, 76.64)	22,204,593	2,292	2
2020	8,249	16,800	15,358,829	4,644,417,280	12,715,721.5	53.71	64.87 (63.49, 66.29)	16,591,831	2,011	2
2021	8,447	17,431	15,210,106	4,574,595,196	12,524,559.1	55.54	67.44 (66.02, 68.90)	13,912,183	1,647	2
2022	8,318	17,129	15,336,286	4,538,798,572	12,426,553.2	54.24	66.94 (65.51, 68.39)	10,095,910	1,214	2
2023	8,251	17,169	14,741,696	4,379,083,292	11,989,276.6	55.97	68.82 (67.35, 70.32)	5,554,691	673	2
2024	4,988	8,049	13,157,408	2,005,810,348	5,491,609.4	37.91	90.83 (88.34, 93.39)	721,866	145	2
<i>≥ 65 years</i>										
2017	3,585	7,022	6,555,786	2,115,465,855	5,791,829.9	54.68	61.90 (59.90, 63.96)	11,784,309	3,287	2
2018	4,628	9,347	6,892,627	2,200,393,332	6,024,348.6	67.14	76.82 (74.64, 79.07)	14,034,769	3,033	2
2019	4,594	9,768	7,445,400	2,355,099,377	6,447,910.7	61.70	71.25 (69.22, 73.34)	12,476,718	2,716	2
2020	4,268	9,078	8,032,963	2,542,558,043	6,961,144.5	53.13	61.31 (59.50, 63.18)	9,476,111	2,220	2
2021	4,709	10,160	8,541,799	2,664,198,303	7,294,177.4	55.13	64.56 (62.74, 66.43)	8,693,105	1,846	2
2022	5,000	10,432	8,876,927	2,763,033,608	7,564,773.7	56.33	66.10 (64.29, 67.95)	6,475,481	1,295	2
2023	5,371	11,213	9,450,355	2,937,680,658	8,042,931.3	56.83	66.78 (65.02, 68.59)	3,802,171	708	2
2024	3,770	6,057	9,257,778	1,517,580,178	4,154,908.1	40.72	90.74 (87.89, 93.68)	560,952	149	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	23,528	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	29,300	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	11,571	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	9,661	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	8,049	*****	*****
2022	16	27	3,105,954	792,002,883	2,168,385.7	0.52	0.74 (0.45, 1.20)	12,158	760	2
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	5,673	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	403	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	59,009	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	74,522	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	42,880	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	38,423	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	24,074	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	17,150	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	9,384	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	2,322	*****	*****
<i>12-17 years</i>										
2017	65	120	4,476,684	1,206,434,464	3,303,037.5	1.45	1.97 (1.54, 2.51)	146,639	2,256	2
2018	73	127	4,389,457	1,182,182,630	3,236,639.6	1.66	2.26 (1.79, 2.84)	153,189	2,098	2
2019	66	108	4,312,393	1,167,100,069	3,195,345.8	1.53	2.07 (1.62, 2.63)	132,633	2,010	2
2020	56	106	4,179,199	1,151,113,124	3,151,576.0	1.34	1.78 (1.37, 2.31)	99,061	1,769	2
2021	45	84	4,084,415	1,117,255,019	3,058,877.5	1.10	1.47 (1.10, 1.97)	65,822	1,463	2
2022	48	108	4,068,261	1,094,225,834	2,995,827.1	1.18	1.60 (1.21, 2.13)	61,079	1,272	2
2023	40	89	3,870,709	1,048,072,491	2,869,466.1	1.03	1.39 (1.02, 1.90)	28,517	713	2
2024	27	43	3,304,739	471,958,328	1,292,151.5	0.82	2.09 (1.43, 3.05)	4,286	159	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	1,843	3,557	22,144,329	6,094,616,461	16,686,150.5	8.32	11.05 (10.55, 11.56)	4,333,973	2,352	2
2018	2,030	3,878	21,909,669	6,026,658,035	16,500,090.4	9.27	12.30 (11.78, 12.85)	4,461,096	2,198	2
2019	1,905	3,588	21,754,009	6,007,077,430	16,446,481.7	8.76	11.58 (11.07, 12.12)	3,757,926	1,973	2
2020	****	****	20,975,128	5,922,943,852	16,216,136.5	****	****	2,927,196	****	****
2021	1,538	3,035	20,836,192	5,775,098,694	15,811,358.5	7.38	9.73 (9.25, 10.23)	2,295,271	1,492	2
2022	****	****	21,356,588	5,789,120,814	15,849,749.0	****	****	1,559,498	****	****
2023	1,393	2,613	20,357,355	5,623,823,810	15,397,190.4	6.84	9.05 (8.58, 9.53)	818,833	588	2
2024	819	1,196	17,522,152	2,548,291,731	6,976,842.5	4.67	11.74 (10.96, 12.57)	110,232	135	1
<i>45-64 years</i>										
2017	3,248	6,116	16,244,067	4,868,205,919	13,328,421.4	19.99	24.37 (23.55, 25.22)	8,472,143	2,608	2
2018	3,357	6,144	15,806,686	4,750,989,974	13,007,501.6	21.24	25.81 (24.95, 26.70)	7,855,805	2,340	2
2019	3,246	6,013	15,686,961	4,708,959,868	12,892,429.5	20.69	25.18 (24.33, 26.06)	6,961,471	2,145	2
2020	2,826	5,259	15,358,829	4,644,417,280	12,715,721.5	18.40	22.22 (21.42, 23.06)	5,304,892	1,877	2
2021	2,865	5,362	15,210,106	4,574,595,196	12,524,559.1	18.84	22.88 (22.05, 23.73)	4,330,342	1,511	2
2022	2,848	5,258	15,336,286	4,538,798,572	12,426,553.2	18.57	22.92 (22.09, 23.78)	3,112,591	1,093	2
2023	2,698	5,009	14,741,696	4,379,083,292	11,989,276.6	18.30	22.50 (21.67, 23.37)	1,647,448	611	2
2024	1,671	2,477	13,157,408	2,005,810,348	5,491,609.4	12.70	30.43 (29.00, 31.92)	225,801	135	1
<i>≥ 65 years</i>										
2017	1,299	2,481	6,555,786	2,115,465,855	5,791,829.9	19.81	22.43 (21.24, 23.68)	4,238,272	3,263	2
2018	1,446	2,775	6,892,627	2,200,393,332	6,024,348.6	20.98	24.00 (22.80, 25.27)	4,361,205	3,016	2
2019	1,596	3,078	7,445,400	2,355,099,377	6,447,910.7	21.44	24.75 (23.57, 26.00)	4,054,044	2,540	2
2020	1,517	2,874	8,032,963	2,542,558,043	6,961,144.5	18.88	21.79 (20.72, 22.92)	3,124,626	2,060	2
2021	1,625	3,179	8,541,799	2,664,198,303	7,294,177.4	19.02	22.28 (21.22, 23.39)	2,783,142	1,713	2
2022	1,729	3,186	8,876,927	2,763,033,608	7,564,773.7	19.48	22.86 (21.80, 23.96)	2,048,426	1,185	2
2023	1,813	3,360	9,450,355	2,937,680,658	8,042,931.3	19.18	22.54 (21.53, 23.60)	1,165,706	643	2
2024	1,280	1,798	9,257,778	1,517,580,178	4,154,908.1	13.83	30.81 (29.16, 32.54)	169,833	133	1

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,394	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	2,355	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	2,062	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	4,180	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	1,707	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	602	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	1,330	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	57	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	8,749	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	13,344	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	9,730	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	15,678	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	10,264	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	4,134	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	4,720	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	914	*****	*****
<i>12-17 years</i>										
2017	24	43	4,476,684	1,206,434,464	3,303,037.5	0.54	0.73 (0.49, 1.08)	51,471	2,145	2
2018	34	61	4,389,457	1,182,182,630	3,236,639.6	0.77	1.05 (0.75, 1.47)	87,695	2,579	2
2019	34	53	4,312,393	1,167,100,069	3,195,345.8	0.79	1.06 (0.76, 1.49)	65,753	1,934	2
2020	19	36	4,179,199	1,151,113,124	3,151,576.0	0.45	0.60 (0.38, 0.95)	40,070	2,109	2
2021	27	42	4,084,415	1,117,255,019	3,058,877.5	0.66	0.88 (0.61, 1.29)	39,331	1,457	2
2022	24	43	4,068,261	1,094,225,834	2,995,827.1	0.59	0.80 (0.54, 1.20)	24,021	1,001	2
2023	36	54	3,870,709	1,048,072,491	2,869,466.1	0.93	1.25 (0.90, 1.74)	17,331	481	2
2024	18	29	3,304,739	471,958,328	1,292,151.5	0.54	1.39 (0.88, 2.21)	2,452	136	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	816	1,510	22,144,329	6,094,616,461	16,686,150.5	3.68	4.89 (4.57, 5.24)	1,954,287	2,395	2
2018	865	1,564	21,909,669	6,026,658,035	16,500,090.4	3.95	5.24 (4.90, 5.60)	1,837,063	2,124	2
2019	813	1,519	21,754,009	6,007,077,430	16,446,481.7	3.74	4.94 (4.61, 5.30)	1,630,964	2,006	2
2020	697	1,367	20,975,128	5,922,943,852	16,216,136.5	3.32	4.30 (3.99, 4.63)	1,336,508	1,918	2
2021	776	1,465	20,836,192	5,775,098,694	15,811,358.5	3.72	4.91 (4.57, 5.27)	1,146,718	1,478	2
2022	778	1,508	21,356,588	5,789,120,814	15,849,749.0	3.64	4.91 (4.58, 5.27)	871,120	1,120	2
2023	877	1,617	20,357,355	5,623,823,810	15,397,190.4	4.31	5.70 (5.33, 6.09)	507,780	579	2
2024	518	902	17,522,152	2,548,291,731	6,976,842.5	2.96	7.42 (6.81, 8.09)	80,856	156	2
<i>45-64 years</i>										
2017	1,735	3,512	16,244,067	4,868,205,919	13,328,421.4	10.68	13.02 (12.42, 13.64)	4,699,908	2,709	2
2018	1,751	3,561	15,806,686	4,750,989,974	13,007,501.6	11.08	13.46 (12.85, 14.11)	4,435,432	2,533	2
2019	1,786	3,549	15,686,961	4,708,959,868	12,892,429.5	11.39	13.85 (13.23, 14.51)	4,105,371	2,299	2
2020	1,719	3,671	15,358,829	4,644,417,280	12,715,721.5	11.19	13.52 (12.89, 14.17)	3,633,609	2,114	2
2021	1,868	3,963	15,210,106	4,574,595,196	12,524,559.1	12.28	14.91 (14.25, 15.61)	3,185,641	1,705	2
2022	1,834	3,963	15,336,286	4,538,798,572	12,426,553.2	11.96	14.76 (14.10, 15.45)	2,339,035	1,275	2
2023	1,912	4,111	14,741,696	4,379,083,292	11,989,276.6	12.97	15.95 (15.25, 16.68)	1,305,743	683	2
2024	1,200	1,933	13,157,408	2,005,810,348	5,491,609.4	9.12	21.85 (20.65, 23.12)	171,534	143	2
<i>≥ 65 years</i>										
2017	1,048	2,393	6,555,786	2,115,465,855	5,791,829.9	15.99	18.09 (17.03, 19.22)	3,969,886	3,788	2
2018	1,140	2,623	6,892,627	2,200,393,332	6,024,348.6	16.54	18.92 (17.86, 20.05)	3,903,202	3,424	2
2019	1,317	3,094	7,445,400	2,355,099,377	6,447,910.7	17.69	20.43 (19.35, 21.56)	4,019,230	3,052	2
2020	1,339	3,329	8,032,963	2,542,558,043	6,961,144.5	16.67	19.24 (18.23, 20.29)	3,482,011	2,600	2
2021	1,531	3,828	8,541,799	2,664,198,303	7,294,177.4	17.92	20.99 (19.96, 22.07)	3,344,875	2,185	3
2022	1,629	3,939	8,876,927	2,763,033,608	7,564,773.7	18.35	21.53 (20.51, 22.61)	2,468,091	1,515	2
2023	1,822	4,448	9,450,355	2,937,680,658	8,042,931.3	19.28	22.65 (21.64, 23.72)	1,480,514	813	2
2024	1,342	2,384	9,257,778	1,517,580,178	4,154,908.1	14.50	32.30 (30.62, 34.07)	218,165	163	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,394	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	2,256	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	213	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	4,016	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	761	*****	*****
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	1,330	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	57	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	5,989	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	13,248	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	9,386	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	12,142	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	8,875	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	3,344	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	3,541	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	890	*****	*****
<i>12-17 years</i>										
2017	18	29	4,476,684	1,206,434,464	3,303,037.5	0.40	0.54 (0.34, 0.86)	32,583	1,810	2
2018	23	43	4,389,457	1,182,182,630	3,236,639.6	0.52	0.71 (0.47, 1.07)	61,853	2,689	2
2019	23	37	4,312,393	1,167,100,069	3,195,345.8	0.53	0.72 (0.48, 1.08)	44,907	1,952	2
2020	15	26	4,179,199	1,151,113,124	3,151,576.0	0.36	0.48 (0.29, 0.79)	29,511	1,967	2
2021	21	31	4,084,415	1,117,255,019	3,058,877.5	0.51	0.69 (0.45, 1.05)	30,114	1,434	1
2022	17	32	4,068,261	1,094,225,834	2,995,827.1	0.42	0.57 (0.35, 0.91)	17,760	1,045	2
2023	30	42	3,870,709	1,048,072,491	2,869,466.1	0.78	1.05 (0.73, 1.50)	13,149	438	1
2024	13	22	3,304,739	471,958,328	1,292,151.5	0.39	1.01 (0.58, 1.73)	1,702	131	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	658	1,173	22,144,329	6,094,616,461	16,686,150.5	2.97	3.94 (3.65, 4.26)	1,511,502	2,297	2
2018	712	1,226	21,909,669	6,026,658,035	16,500,090.4	3.25	4.32 (4.01, 4.64)	1,414,260	1,986	2
2019	679	1,133	21,754,009	6,007,077,430	16,446,481.7	3.12	4.13 (3.83, 4.45)	1,207,130	1,778	2
2020	559	1,023	20,975,128	5,922,943,852	16,216,136.5	2.67	3.45 (3.17, 3.75)	994,170	1,778	2
2021	651	1,133	20,836,192	5,775,098,694	15,811,358.5	3.12	4.12 (3.81, 4.45)	868,491	1,334	2
2022	661	1,184	21,356,588	5,789,120,814	15,849,749.0	3.10	4.17 (3.86, 4.50)	686,054	1,038	2
2023	730	1,263	20,357,355	5,623,823,810	15,397,190.4	3.59	4.74 (4.41, 5.10)	395,818	542	2
2024	439	666	17,522,152	2,548,291,731	6,976,842.5	2.51	6.29 (5.73, 6.91)	60,203	137	2
<i>45-64 years</i>										
2017	1,440	2,716	16,244,067	4,868,205,919	13,328,421.4	8.86	10.80 (10.26, 11.38)	3,613,696	2,510	2
2018	1,456	2,665	15,806,686	4,750,989,974	13,007,501.6	9.21	11.19 (10.63, 11.78)	3,351,465	2,302	2
2019	1,498	2,707	15,686,961	4,708,959,868	12,892,429.5	9.55	11.62 (11.05, 12.22)	3,098,072	2,068	2
2020	1,459	2,812	15,358,829	4,644,417,280	12,715,721.5	9.50	11.47 (10.90, 12.08)	2,767,225	1,897	2
2021	1,595	3,044	15,210,106	4,574,595,196	12,524,559.1	10.49	12.73 (12.13, 13.38)	2,401,847	1,506	2
2022	1,609	3,083	15,336,286	4,538,798,572	12,426,553.2	10.49	12.95 (12.33, 13.60)	1,823,212	1,133	2
2023	1,686	3,240	14,741,696	4,379,083,292	11,989,276.6	11.44	14.06 (13.41, 14.75)	1,027,546	609	2
2024	1,035	1,519	13,157,408	2,005,810,348	5,491,609.4	7.87	18.85 (17.73, 20.03)	134,801	130	1
<i>≥ 65 years</i>										
2017	930	1,905	6,555,786	2,115,465,855	5,791,829.9	14.19	16.06 (15.06, 17.12)	3,265,478	3,511	2
2018	1,026	2,196	6,892,627	2,200,393,332	6,024,348.6	14.89	17.03 (16.02, 18.11)	3,325,177	3,241	2
2019	1,183	2,534	7,445,400	2,355,099,377	6,447,910.7	15.89	18.35 (17.33, 19.42)	3,354,675	2,836	2
2020	1,203	2,573	8,032,963	2,542,558,043	6,961,144.5	14.98	17.28 (16.33, 18.29)	2,728,516	2,268	2
2021	1,362	2,978	8,541,799	2,664,198,303	7,294,177.4	15.95	18.67 (17.71, 19.69)	2,644,442	1,942	2
2022	1,483	3,059	8,876,927	2,763,033,608	7,564,773.7	16.71	19.60 (18.63, 20.63)	1,948,750	1,314	2
2023	1,623	3,386	9,450,355	2,937,680,658	8,042,931.3	17.17	20.18 (19.22, 21.19)	1,146,240	706	2
2024	1,204	1,874	9,257,778	1,517,580,178	4,154,908.1	13.01	28.98 (27.39, 30.66)	172,194	143	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,394	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	2,256	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	213	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	4,016	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	761	*****	*****
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	1,330	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	57	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	5,989	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	11,844	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	9,386	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	4,958	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	6,905	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	3,344	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	3,541	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	890	*****	*****
<i>12-17 years</i>										
2017	17	28	4,476,684	1,206,434,464	3,303,037.5	0.38	0.51 (0.32, 0.83)	30,095	1,770	2
2018	21	40	4,389,457	1,182,182,630	3,236,639.6	0.48	0.65 (0.42, 1.00)	56,357	2,684	2
2019	20	31	4,312,393	1,167,100,069	3,195,345.8	0.46	0.63 (0.40, 0.97)	35,576	1,779	2
2020	14	23	4,179,199	1,151,113,124	3,151,576.0	0.33	0.44 (0.26, 0.75)	25,841	1,846	2
2021	19	29	4,084,415	1,117,255,019	3,058,877.5	0.47	0.62 (0.40, 0.97)	28,171	1,483	2
2022	15	28	4,068,261	1,094,225,834	2,995,827.1	0.37	0.50 (0.30, 0.83)	15,556	1,037	2
2023	28	38	3,870,709	1,048,072,491	2,869,466.1	0.72	0.98 (0.67, 1.41)	11,989	428	1
2024	12	21	3,304,739	471,958,328	1,292,151.5	0.36	0.93 (0.53, 1.64)	1,605	134	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	620	1,096	22,144,329	6,094,616,461	16,686,150.5	2.80	3.72 (3.43, 4.02)	1,414,204	2,281	2
2018	665	1,123	21,909,669	6,026,658,035	16,500,090.4	3.04	4.03 (3.74, 4.35)	1,300,239	1,955	2
2019	642	1,074	21,754,009	6,007,077,430	16,446,481.7	2.95	3.90 (3.61, 4.22)	1,163,641	1,813	2
2020	525	961	20,975,128	5,922,943,852	16,216,136.5	2.50	3.24 (2.97, 3.53)	942,599	1,795	2
2021	605	1,024	20,836,192	5,775,098,694	15,811,358.5	2.90	3.83 (3.53, 4.14)	805,821	1,332	2
2022	617	1,087	21,356,588	5,789,120,814	15,849,749.0	2.89	3.89 (3.60, 4.21)	640,182	1,038	2
2023	673	1,150	20,357,355	5,623,823,810	15,397,190.4	3.31	4.37 (4.05, 4.71)	368,931	548	2
2024	409	617	17,522,152	2,548,291,731	6,976,842.5	2.33	5.86 (5.32, 6.46)	56,593	138	2
<i>45-64 years</i>										
2017	1,360	2,553	16,244,067	4,868,205,919	13,328,421.4	8.37	10.20 (9.68, 10.76)	3,422,145	2,516	2
2018	1,369	2,488	15,806,686	4,750,989,974	13,007,501.6	8.66	10.52 (9.98, 11.10)	3,152,838	2,303	2
2019	1,413	2,513	15,686,961	4,708,959,868	12,892,429.5	9.01	10.96 (10.40, 11.55)	2,887,527	2,044	2
2020	1,372	2,605	15,358,829	4,644,417,280	12,715,721.5	8.93	10.79 (10.23, 11.38)	2,548,342	1,857	2
2021	1,508	2,816	15,210,106	4,574,595,196	12,524,559.1	9.91	12.04 (11.45, 12.66)	2,216,492	1,470	2
2022	1,515	2,860	15,336,286	4,538,798,572	12,426,553.2	9.88	12.19 (11.59, 12.82)	1,702,718	1,124	2
2023	1,602	3,047	14,741,696	4,379,083,292	11,989,276.6	10.87	13.36 (12.72, 14.03)	976,142	609	2
2024	983	1,455	13,157,408	2,005,810,348	5,491,609.4	7.47	17.90 (16.82, 19.05)	130,668	133	1
<i>≥ 65 years</i>										
2017	882	1,807	6,555,786	2,115,465,855	5,791,829.9	13.45	15.23 (14.26, 16.27)	3,102,485	3,518	2
2018	988	2,126	6,892,627	2,200,393,332	6,024,348.6	14.33	16.40 (15.41, 17.46)	3,228,380	3,268	2
2019	1,131	2,426	7,445,400	2,355,099,377	6,447,910.7	15.19	17.54 (16.55, 18.59)	3,210,850	2,839	2
2020	1,160	2,492	8,032,963	2,542,558,043	6,961,144.5	14.44	16.66 (15.73, 17.65)	2,633,830	2,271	2
2021	1,309	2,858	8,541,799	2,664,198,303	7,294,177.4	15.32	17.95 (17.00, 18.94)	2,541,164	1,941	2
2022	1,431	2,941	8,876,927	2,763,033,608	7,564,773.7	16.12	18.92 (17.96, 19.92)	1,881,517	1,315	2
2023	1,548	3,228	9,450,355	2,937,680,658	8,042,931.3	16.38	19.25 (18.31, 20.23)	1,100,564	711	2
2024	1,155	1,775	9,257,778	1,517,580,178	4,154,908.1	12.48	27.80 (26.24, 29.45)	162,950	141	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,394	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	2,256	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	213	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	17	*****	*****
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	561	*****	*****
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	3,424	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	9,102	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	4,027	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	4,616	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	4,041	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	2,451	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	2,271	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	541	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	14,679	*****	*****
2018	12	16	4,389,457	1,182,182,630	3,236,639.6	0.27	0.37 (0.21, 0.65)	22,564	1,880	1
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	12,848	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	13,622	*****	*****
2021	12	18	4,084,415	1,117,255,019	3,058,877.5	0.29	0.39 (0.22, 0.69)	17,067	1,422	2
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	8,337	*****	*****
2023	13	20	3,870,709	1,048,072,491	2,869,466.1	0.34	0.45 (0.26, 0.78)	6,360	489	2
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	1,196	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	406	676	22,144,329	6,094,616,461	16,686,150.5	1.83	2.43 (2.21, 2.68)	887,289	2,185	2
2018	408	671	21,909,669	6,026,658,035	16,500,090.4	1.86	2.47 (2.24, 2.72)	757,649	1,857	2
2019	410	661	21,754,009	6,007,077,430	16,446,481.7	1.88	2.49 (2.26, 2.75)	736,715	1,797	2
2020	309	560	20,975,128	5,922,943,852	16,216,136.5	1.47	1.91 (1.70, 2.13)	568,737	1,841	2
2021	358	575	20,836,192	5,775,098,694	15,811,358.5	1.72	2.26 (2.04, 2.51)	460,271	1,286	2
2022	357	598	21,356,588	5,789,120,814	15,849,749.0	1.67	2.25 (2.03, 2.50)	355,724	996	2
2023	373	604	20,357,355	5,623,823,810	15,397,190.4	1.83	2.42 (2.19, 2.68)	194,293	521	2
2024	223	318	17,522,152	2,548,291,731	6,976,842.5	1.27	3.20 (2.80, 3.64)	29,520	132	1
<i>45-64 years</i>										
2017	906	1,644	16,244,067	4,868,205,919	13,328,421.4	5.58	6.80 (6.37, 7.25)	2,189,485	2,417	2
2018	846	1,501	15,806,686	4,750,989,974	13,007,501.6	5.35	6.50 (6.08, 6.96)	1,901,896	2,248	2
2019	888	1,541	15,686,961	4,708,959,868	12,892,429.5	5.66	6.89 (6.45, 7.36)	1,833,483	2,065	2
2020	903	1,635	15,358,829	4,644,417,280	12,715,721.5	5.88	7.10 (6.65, 7.58)	1,618,913	1,793	2
2021	953	1,679	15,210,106	4,574,595,196	12,524,559.1	6.27	7.61 (7.14, 8.11)	1,319,200	1,384	2
2022	924	1,685	15,336,286	4,538,798,572	12,426,553.2	6.02	7.44 (6.97, 7.93)	1,016,588	1,100	2
2023	966	1,725	14,741,696	4,379,083,292	11,989,276.6	6.55	8.06 (7.56, 8.58)	561,443	581	2
2024	579	806	13,157,408	2,005,810,348	5,491,609.4	4.40	10.54 (9.72, 11.44)	73,485	127	1
<i>≥ 65 years</i>										
2017	617	1,184	6,555,786	2,115,465,855	5,791,829.9	9.41	10.65 (9.84, 11.53)	2,084,915	3,379	2
2018	706	1,391	6,892,627	2,200,393,332	6,024,348.6	10.24	11.72 (10.89, 12.62)	2,130,780	3,018	2
2019	796	1,593	7,445,400	2,355,099,377	6,447,910.7	10.69	12.35 (11.52, 13.23)	2,090,723	2,627	2
2020	817	1,608	8,032,963	2,542,558,043	6,961,144.5	10.17	11.74 (10.96, 12.57)	1,700,873	2,082	2
2021	922	1,804	8,541,799	2,664,198,303	7,294,177.4	10.79	12.64 (11.85, 13.48)	1,629,209	1,767	2
2022	955	1,772	8,876,927	2,763,033,608	7,564,773.7	10.76	12.62 (11.85, 13.45)	1,152,752	1,207	2
2023	1,020	1,960	9,450,355	2,937,680,658	8,042,931.3	10.79	12.68 (11.93, 13.48)	674,651	661	2
2024	738	1,054	9,257,778	1,517,580,178	4,154,908.1	7.97	17.76 (16.53, 19.09)	98,958	134	1

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	29,000	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	16,728	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	54,524	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	50,355	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	38,876	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	17,118	*****	*****
2023	12	33	2,951,933	766,094,604	2,097,452.7	0.41	0.57 (0.32, 1.01)	12,203	1,017	3
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	492	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	95,706	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	62,507	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	58,475	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	31,207	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	33,607	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	45,059	*****	*****
2023	28	82	3,457,667	925,276,292	2,533,268.4	0.81	1.11 (0.76, 1.60)	26,028	930	3
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	2,424	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	213,264	*****	*****
2018	84	175	4,389,457	1,182,182,630	3,236,639.6	1.91	2.60 (2.10, 3.21)	275,067	3,275	2
2019	80	142	4,312,393	1,167,100,069	3,195,345.8	1.86	2.50 (2.01, 3.12)	174,330	2,179	2
2020	79	205	4,179,199	1,151,113,124	3,151,576.0	1.89	2.51 (2.01, 3.13)	235,326	2,979	3
2021	70	144	4,084,415	1,117,255,019	3,058,877.5	1.71	2.29 (1.81, 2.89)	129,892	1,856	2
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	87,009	*****	*****
2023	78	178	3,870,709	1,048,072,491	2,869,466.1	2.02	2.72 (2.18, 3.39)	59,171	759	2
2024	48	86	3,304,739	471,958,328	1,292,151.5	1.45	3.71 (2.80, 4.93)	7,071	147	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	4,763,157	*****	*****
2018	1,905	3,867	21,909,669	6,026,658,035	16,500,090.4	8.69	11.55 (11.04, 12.08)	4,828,641	2,535	2
2019	1,841	3,507	21,754,009	6,007,077,430	16,446,481.7	8.46	11.19 (10.69, 11.72)	3,828,621	2,080	2
2020	1,674	3,548	20,975,128	5,922,943,852	16,216,136.5	7.98	10.32 (9.84, 10.83)	3,347,293	2,000	2
2021	1,788	3,633	20,836,192	5,775,098,694	15,811,358.5	8.58	11.31 (10.80, 11.84)	2,727,764	1,526	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	2,030,087	*****	*****
2023	1,715	3,461	20,357,355	5,623,823,810	15,397,190.4	8.42	11.14 (10.62, 11.68)	1,070,455	624	2
2024	974	1,679	17,522,152	2,548,291,731	6,976,842.5	5.56	13.96 (13.11, 14.87)	152,025	156	2
<i>45-64 years</i>										
2017	3,242	6,637	16,244,067	4,868,205,919	13,328,421.4	19.96	24.32 (23.50, 25.18)	9,138,556	2,819	2
2018	3,270	6,180	15,806,686	4,750,989,974	13,007,501.6	20.69	25.14 (24.29, 26.02)	8,010,219	2,450	2
2019	3,263	6,380	15,686,961	4,708,959,868	12,892,429.5	20.80	25.31 (24.46, 26.19)	7,523,635	2,306	2
2020	3,085	6,466	15,358,829	4,644,417,280	12,715,721.5	20.09	24.26 (23.42, 25.13)	6,574,338	2,131	2
2021	3,200	6,659	15,210,106	4,574,595,196	12,524,559.1	21.04	25.55 (24.68, 26.45)	5,393,158	1,685	2
2022	3,173	6,570	15,336,286	4,538,798,572	12,426,553.2	20.69	25.53 (24.66, 26.44)	3,852,680	1,214	2
2023	3,246	6,977	14,741,696	4,379,083,292	11,989,276.6	22.02	27.07 (26.16, 28.02)	2,237,776	689	2
2024	1,981	3,410	13,157,408	2,005,810,348	5,491,609.4	15.06	36.07 (34.52, 37.70)	306,752	155	2
<i>≥ 65 years</i>										
2017	1,490	3,451	6,555,786	2,115,465,855	5,791,829.9	22.73	25.73 (24.45, 27.07)	5,548,776	3,724	2
2018	1,586	3,677	6,892,627	2,200,393,332	6,024,348.6	23.01	26.33 (25.06, 27.65)	5,117,349	3,227	2
2019	1,757	4,038	7,445,400	2,355,099,377	6,447,910.7	23.60	27.25 (26.00, 28.55)	5,029,064	2,862	2
2020	1,796	4,304	8,032,963	2,542,558,043	6,961,144.5	22.36	25.80 (24.63, 27.02)	4,359,296	2,427	2
2021	1,989	4,565	8,541,799	2,664,198,303	7,294,177.4	23.29	27.27 (26.10, 28.49)	3,683,821	1,852	2
2022	2,128	4,602	8,876,927	2,763,033,608	7,564,773.7	23.97	28.13 (26.96, 29.35)	2,798,777	1,315	2
2023	2,299	5,230	9,450,355	2,937,680,658	8,042,931.3	24.33	28.58 (27.44, 29.78)	1,745,033	759	2
2024	1,629	2,837	9,257,778	1,517,580,178	4,154,908.1	17.60	39.21 (37.35, 41.16)	254,793	156	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	23,626	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,361	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	12,044	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	19,128	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	16,238	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	14,877	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	11,222	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	492	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	83,780	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	57,785	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	52,113	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	28,574	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	28,680	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	31,236	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	20,048	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	1,779	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	143,385	*****	*****
2018	67	131	4,389,457	1,182,182,630	3,236,639.6	1.53	2.07 (1.63, 2.63)	204,622	3,054	2
2019	63	111	4,312,393	1,167,100,069	3,195,345.8	1.46	1.97 (1.54, 2.52)	133,610	2,121	2
2020	65	164	4,179,199	1,151,113,124	3,151,576.0	1.56	2.06 (1.62, 2.63)	183,345	2,821	3
2021	54	113	4,084,415	1,117,255,019	3,058,877.5	1.32	1.77 (1.35, 2.30)	99,865	1,849	2
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	54,843	*****	*****
2023	59	127	3,870,709	1,048,072,491	2,869,466.1	1.52	2.06 (1.59, 2.65)	41,981	712	2
2024	39	71	3,304,739	471,958,328	1,292,151.5	1.18	3.02 (2.21, 4.13)	5,529	142	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	3,125,389	*****	*****
2018	1,487	2,667	21,909,669	6,026,658,035	16,500,090.4	6.79	9.01 (8.57, 9.48)	3,278,096	2,205	2
2019	1,459	2,641	21,754,009	6,007,077,430	16,446,481.7	6.71	8.87 (8.43, 9.34)	2,887,593	1,979	2
2020	1,344	2,675	20,975,128	5,922,943,852	16,216,136.5	6.41	8.29 (7.86, 8.74)	2,532,040	1,884	2
2021	1,467	2,712	20,836,192	5,775,098,694	15,811,358.5	7.04	9.28 (8.82, 9.77)	2,011,786	1,371	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	1,499,869	*****	*****
2023	1,438	2,644	20,357,355	5,623,823,810	15,397,190.4	7.06	9.34 (8.87, 9.83)	817,787	569	2
2024	804	1,155	17,522,152	2,548,291,731	6,976,842.5	4.59	11.52 (10.75, 12.35)	102,263	127	1
<i>45-64 years</i>										
2017	2,585	4,727	16,244,067	4,868,205,919	13,328,421.4	15.91	19.39 (18.66, 20.16)	6,674,382	2,582	2
2018	2,632	4,611	15,806,686	4,750,989,974	13,007,501.6	16.65	20.23 (19.48, 21.02)	5,968,060	2,268	2
2019	2,612	4,646	15,686,961	4,708,959,868	12,892,429.5	16.65	20.26 (19.50, 21.05)	5,428,435	2,078	2
2020	2,508	4,690	15,358,829	4,644,417,280	12,715,721.5	16.33	19.72 (18.97, 20.51)	4,708,725	1,877	2
2021	2,634	4,876	15,210,106	4,574,595,196	12,524,559.1	17.32	21.03 (20.24, 21.85)	3,968,530	1,507	2
2022	2,716	5,060	15,336,286	4,538,798,572	12,426,553.2	17.71	21.86 (21.05, 22.69)	2,975,559	1,096	2
2023	2,783	5,241	14,741,696	4,379,083,292	11,989,276.6	18.88	23.21 (22.37, 24.09)	1,692,660	608	2
2024	1,699	2,589	13,157,408	2,005,810,348	5,491,609.4	12.91	30.94 (29.50, 32.44)	233,649	138	2
<i>≥ 65 years</i>										
2017	1,233	2,406	6,555,786	2,115,465,855	5,791,829.9	18.81	21.29 (20.13, 22.51)	4,043,221	3,279	2
2018	1,333	2,620	6,892,627	2,200,393,332	6,024,348.6	19.34	22.13 (20.97, 23.35)	3,890,236	2,918	2
2019	1,479	2,908	7,445,400	2,355,099,377	6,447,910.7	19.86	22.94 (21.80, 24.14)	3,770,350	2,549	2
2020	1,540	3,103	8,032,963	2,542,558,043	6,961,144.5	19.17	22.12 (21.05, 23.26)	3,335,842	2,166	2
2021	1,732	3,305	8,541,799	2,664,198,303	7,294,177.4	20.28	23.74 (22.65, 24.89)	2,823,451	1,630	2
2022	1,849	3,571	8,876,927	2,763,033,608	7,564,773.7	20.83	24.44 (23.35, 25.58)	2,226,716	1,204	2
2023	2,015	3,986	9,450,355	2,937,680,658	8,042,931.3	21.32	25.05 (23.98, 26.17)	1,325,686	658	2
2024	1,403	2,138	9,257,778	1,517,580,178	4,154,908.1	15.15	33.77 (32.05, 35.58)	196,083	140	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	23,156	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,361	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	12,044	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	17,586	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	10,852	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	14,194	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	10,690	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	492	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	61,973	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	56,148	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	50,513	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	24,252	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	16,861	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	26,577	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	18,011	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	1,653	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	128,604	*****	*****
2018	61	114	4,389,457	1,182,182,630	3,236,639.6	1.39	1.88 (1.47, 2.42)	178,962	2,934	2
2019	58	101	4,312,393	1,167,100,069	3,195,345.8	1.34	1.82 (1.40, 2.35)	120,625	2,080	2
2020	60	126	4,179,199	1,151,113,124	3,151,576.0	1.44	1.90 (1.48, 2.45)	140,541	2,342	2
2021	50	101	4,084,415	1,117,255,019	3,058,877.5	1.22	1.63 (1.24, 2.16)	90,364	1,807	2
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	45,573	*****	*****
2023	51	93	3,870,709	1,048,072,491	2,869,466.1	1.32	1.78 (1.35, 2.34)	32,774	643	2
2024	34	63	3,304,739	471,958,328	1,292,151.5	1.03	2.63 (1.88, 3.68)	5,046	148	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	2,877,494	*****	*****
2018	1,387	2,470	21,909,669	6,026,658,035	16,500,090.4	6.33	8.41 (7.98, 8.86)	3,034,698	2,188	2
2019	1,347	2,330	21,754,009	6,007,077,430	16,446,481.7	6.19	8.19 (7.76, 8.64)	2,557,892	1,899	2
2020	1,262	2,451	20,975,128	5,922,943,852	16,216,136.5	6.02	7.78 (7.36, 8.22)	2,329,277	1,846	2
2021	1,363	2,500	20,836,192	5,775,098,694	15,811,358.5	6.54	8.62 (8.17, 9.09)	1,851,260	1,358	2
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	1,360,741	*****	*****
2023	1,330	2,419	20,357,355	5,623,823,810	15,397,190.4	6.53	8.64 (8.19, 9.11)	754,456	567	2
2024	752	1,079	17,522,152	2,548,291,731	6,976,842.5	4.29	10.78 (10.04, 11.58)	96,777	129	1
<i>45-64 years</i>										
2017	2,449	4,437	16,244,067	4,868,205,919	13,328,421.4	15.08	18.37 (17.66, 19.12)	6,274,664	2,562	2
2018	2,519	4,354	15,806,686	4,750,989,974	13,007,501.6	15.94	19.37 (18.62, 20.14)	5,622,854	2,232	2
2019	2,485	4,389	15,686,961	4,708,959,868	12,892,429.5	15.84	19.27 (18.53, 20.05)	5,129,600	2,064	2
2020	2,397	4,413	15,358,829	4,644,417,280	12,715,721.5	15.61	18.85 (18.11, 19.62)	4,431,369	1,849	2
2021	2,489	4,564	15,210,106	4,574,595,196	12,524,559.1	16.36	19.87 (19.11, 20.67)	3,739,565	1,502	2
2022	2,559	4,713	15,336,286	4,538,798,572	12,426,553.2	16.69	20.59 (19.81, 21.41)	2,784,353	1,088	2
2023	2,648	4,945	14,741,696	4,379,083,292	11,989,276.6	17.96	22.09 (21.26, 22.94)	1,614,676	610	2
2024	1,621	2,473	13,157,408	2,005,810,348	5,491,609.4	12.32	29.52 (28.12, 30.99)	225,159	139	2
<i>≥ 65 years</i>										
2017	1,183	2,287	6,555,786	2,115,465,855	5,791,829.9	18.05	20.43 (19.29, 21.62)	3,855,250	3,259	2
2018	1,287	2,463	6,892,627	2,200,393,332	6,024,348.6	18.67	21.36 (20.23, 22.56)	3,708,391	2,881	2
2019	1,421	2,720	7,445,400	2,355,099,377	6,447,910.7	19.09	22.04 (20.92, 23.21)	3,547,157	2,496	2
2020	1,492	2,933	8,032,963	2,542,558,043	6,961,144.5	18.57	21.43 (20.37, 22.55)	3,159,594	2,118	2
2021	1,663	3,152	8,541,799	2,664,198,303	7,294,177.4	19.47	22.80 (21.73, 23.92)	2,699,685	1,623	2
2022	1,788	3,405	8,876,927	2,763,033,608	7,564,773.7	20.14	23.64 (22.57, 24.76)	2,139,571	1,197	2
2023	1,953	3,847	9,450,355	2,937,680,658	8,042,931.3	20.67	24.28 (23.23, 25.38)	1,281,359	656	2
2024	1,365	2,080	9,257,778	1,517,580,178	4,154,908.1	14.74	32.85 (31.16, 34.64)	191,271	140	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	16,521	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	5,387	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	6,195	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	3,495	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	3,559	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	11,280	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	4,828	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	198	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	28,810	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	29,501	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	36,980	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	20,169	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	9,068	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	8,273	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	8,672	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	1,207	*****	*****
<i>12-17 years</i>										
2017	36	75	4,476,684	1,206,434,464	3,303,037.5	0.80	1.09 (0.79, 1.51)	93,279	2,591	2
2018	32	56	4,389,457	1,182,182,630	3,236,639.6	0.73	0.99 (0.70, 1.40)	95,915	2,997	2
2019	31	47	4,312,393	1,167,100,069	3,195,345.8	0.72	0.97 (0.68, 1.38)	58,351	1,882	2
2020	41	69	4,179,199	1,151,113,124	3,151,576.0	0.98	1.30 (0.96, 1.77)	78,160	1,906	2
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	52,144	*****	*****
2022	29	49	4,068,261	1,094,225,834	2,995,827.1	0.71	0.97 (0.67, 1.39)	29,605	1,021	2
2023	32	53	3,870,709	1,048,072,491	2,869,466.1	0.83	1.12 (0.79, 1.58)	18,893	590	2
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	2,180	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	614	1,031	22,144,329	6,094,616,461	16,686,150.5	2.77	3.68 (3.40, 3.98)	1,274,156	2,075	2
2018	653	1,143	21,909,669	6,026,658,035	16,500,090.4	2.98	3.96 (3.67, 4.27)	1,410,738	2,160	2
2019	673	1,099	21,754,009	6,007,077,430	16,446,481.7	3.09	4.09 (3.79, 4.41)	1,182,451	1,757	2
2020	637	1,184	20,975,128	5,922,943,852	16,216,136.5	3.04	3.93 (3.63, 4.25)	1,125,850	1,767	2
2021	701	1,218	20,836,192	5,775,098,694	15,811,358.5	3.36	4.43 (4.12, 4.77)	922,037	1,315	2
2022	696	1,193	21,356,588	5,789,120,814	15,849,749.0	3.26	4.39 (4.08, 4.73)	660,933	950	2
2023	652	1,075	20,357,355	5,623,823,810	15,397,190.4	3.20	4.23 (3.92, 4.57)	339,888	521	2
2024	394	523	17,522,152	2,548,291,731	6,976,842.5	2.25	5.65 (5.12, 6.23)	48,246	122	1
<i>45-64 years</i>										
2017	1,093	1,858	16,244,067	4,868,205,919	13,328,421.4	6.73	8.20 (7.73, 8.70)	2,648,641	2,423	2
2018	1,120	1,825	15,806,686	4,750,989,974	13,007,501.6	7.09	8.61 (8.12, 9.13)	2,341,128	2,090	2
2019	1,107	1,888	15,686,961	4,708,959,868	12,892,429.5	7.06	8.59 (8.10, 9.11)	2,260,731	2,042	2
2020	1,130	1,923	15,358,829	4,644,417,280	12,715,721.5	7.36	8.89 (8.38, 9.42)	1,948,710	1,725	2
2021	1,119	1,933	15,210,106	4,574,595,196	12,524,559.1	7.36	8.93 (8.43, 9.47)	1,603,669	1,433	2
2022	1,145	2,002	15,336,286	4,538,798,572	12,426,553.2	7.47	9.21 (8.70, 9.76)	1,194,898	1,044	2
2023	1,242	2,103	14,741,696	4,379,083,292	11,989,276.6	8.43	10.36 (9.80, 10.95)	698,523	562	2
2024	754	1,039	13,157,408	2,005,810,348	5,491,609.4	5.73	13.73 (12.78, 14.75)	94,180	125	1
<i>≥ 65 years</i>										
2017	530	939	6,555,786	2,115,465,855	5,791,829.9	8.08	9.15 (8.40, 9.96)	1,666,653	3,145	2
2018	575	1,057	6,892,627	2,200,393,332	6,024,348.6	8.34	9.54 (8.80, 10.36)	1,681,092	2,924	2
2019	658	1,191	7,445,400	2,355,099,377	6,447,910.7	8.84	10.20 (9.45, 11.02)	1,622,553	2,466	2
2020	697	1,214	8,032,963	2,542,558,043	6,961,144.5	8.68	10.01 (9.30, 10.78)	1,348,978	1,935	2
2021	804	1,369	8,541,799	2,664,198,303	7,294,177.4	9.41	11.02 (10.29, 11.81)	1,211,775	1,507	2
2022	859	1,459	8,876,927	2,763,033,608	7,564,773.7	9.68	11.36 (10.62, 12.14)	938,765	1,093	2
2023	903	1,535	9,450,355	2,937,680,658	8,042,931.3	9.56	11.23 (10.52, 11.98)	522,224	578	2
2024	670	902	9,257,778	1,517,580,178	4,154,908.1	7.24	16.13 (14.95, 17.39)	82,659	123	1

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	11,116	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	5,118	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	3,147	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	20,641	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	5,394	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	4,968	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	4,083	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	263	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	19,369	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	24,149	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	39,718	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	17,780	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	4,180	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	10,639	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	2,889	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	268	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	276,474	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	237,793	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	222,930	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	149,016	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	119,959	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	125,777	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	59,880	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	0.51	1.32 (0.82, 2.12)	9,935	584	6

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	2,856	10,135	22,144,329	6,094,616,461	16,686,150.5	12.90	17.12 (16.50, 17.76)	12,414,945	4,347	4
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	*****	*****	12,115,449	*****	*****
2019	3,075	10,921	21,754,009	6,007,077,430	16,446,481.7	14.14	18.70 (18.05, 19.37)	11,517,895	3,746	4
2020	2,941	10,281	20,975,128	5,922,943,852	16,216,136.5	14.02	18.14 (17.49, 18.80)	9,325,818	3,171	3
2021	2,994	10,224	20,836,192	5,775,098,694	15,811,358.5	14.37	18.94 (18.27, 19.63)	7,618,323	2,545	3
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	5,512,142	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	3,086,594	*****	*****
2024	1,737	4,736	17,522,152	2,548,291,731	6,976,842.5	9.91	24.90 (23.75, 26.10)	425,440	245	3
<i>45-64 years</i>										
2017	5,282	17,497	16,244,067	4,868,205,919	13,328,421.4	32.52	39.63 (38.58, 40.71)	23,591,127	4,466	3
2018	5,459	17,590	15,806,686	4,750,989,974	13,007,501.6	34.54	41.97 (40.87, 43.10)	22,015,179	4,033	3
2019	5,908	20,026	15,686,961	4,708,959,868	12,892,429.5	37.66	45.83 (44.67, 47.01)	22,319,876	3,778	3
2020	5,969	21,264	15,358,829	4,644,417,280	12,715,721.5	38.86	46.94 (45.77, 48.15)	20,596,256	3,451	4
2021	6,223	22,510	15,210,106	4,574,595,196	12,524,559.1	40.91	49.69 (48.47, 50.94)	17,565,184	2,823	4
2022	6,150	21,309	15,336,286	4,538,798,572	12,426,553.2	40.10	49.49 (48.27, 50.74)	12,502,198	2,033	3
2023	6,086	22,035	14,741,696	4,379,083,292	11,989,276.6	41.28	50.76 (49.50, 52.05)	7,068,729	1,161	4
2024	4,142	10,783	13,157,408	2,005,810,348	5,491,609.4	31.48	75.42 (73.16, 77.76)	993,424	240	3
<i>≥ 65 years</i>										
2017	2,250	8,318	6,555,786	2,115,465,855	5,791,829.9	34.32	38.85 (37.28, 40.49)	12,485,835	5,549	4
2018	2,625	9,866	6,892,627	2,200,393,332	6,024,348.6	38.08	43.57 (41.94, 45.27)	13,279,368	5,059	4
2019	3,134	12,999	7,445,400	2,355,099,377	6,447,910.7	42.09	48.60 (46.93, 50.34)	14,879,074	4,748	4
2020	3,440	14,234	8,032,963	2,542,558,043	6,961,144.5	42.82	49.42 (47.79, 51.10)	13,352,059	3,881	4
2021	3,689	14,687	8,541,799	2,664,198,303	7,294,177.4	43.19	50.57 (48.97, 52.23)	11,548,221	3,130	4
2022	4,013	15,752	8,876,927	2,763,033,608	7,564,773.7	45.21	53.05 (51.43, 54.72)	9,224,203	2,299	4
2023	4,362	16,650	9,450,355	2,937,680,658	8,042,931.3	46.16	54.23 (52.65, 55.87)	5,450,575	1,250	4
2024	3,091	9,160	9,257,778	1,517,580,178	4,154,908.1	33.39	74.39 (71.82, 77.06)	838,476	271	3

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	11,116	*****	*****
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	3,147	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	17,607	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	4,125	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	3,806	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	3,168	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	102	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	12,895	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	12,776	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	23,645	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	11,394	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	4,180	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	10,157	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	2,072	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	268	*****	*****
<i>12-17 years</i>										
2017	51	174	4,476,684	1,206,434,464	3,303,037.5	1.14	1.54 (1.17, 2.03)	196,377	3,851	3
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	169,797	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	128,407	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	93,589	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	84,162	*****	*****
2022	36	137	4,068,261	1,094,225,834	2,995,827.1	0.88	1.20 (0.87, 1.67)	79,861	2,218	4

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	43,728	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	8,668	*****	*****
<i>18-44 years</i>										
2017	2,342	7,034	22,144,329	6,094,616,461	16,686,150.5	*****	*****	8,685,528	*****	*****
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	11.12	14.76 (14.19, 15.36)	8,432,222	3,462	3
2019	2,537	7,544	21,754,009	6,007,077,430	16,446,481.7	11.66	15.43 (14.84, 16.04)	7,893,601	3,111	3
2020	2,418	7,315	20,975,128	5,922,943,852	16,216,136.5	11.53	14.91 (14.33, 15.52)	6,667,451	2,757	3
2021	2,480	7,138	20,836,192	5,775,098,694	15,811,358.5	11.90	15.68 (15.08, 16.31)	5,300,049	2,137	3
2022	2,448	7,201	21,356,588	5,789,120,814	15,849,749.0	11.46	15.45 (14.85, 16.07)	3,922,895	1,602	3
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	2,128,051	*****	*****
2024	1,489	3,341	17,522,152	2,548,291,731	6,976,842.5	8.50	21.34 (20.29, 22.45)	300,427	202	2
<i>45-64 years</i>										
2017	4,295	11,249	16,244,067	4,868,205,919	13,328,421.4	26.44	32.22 (31.27, 33.20)	15,680,254	3,651	3
2018	4,311	11,210	15,806,686	4,750,989,974	13,007,501.6	27.27	33.14 (32.17, 34.15)	14,363,137	3,332	3
2019	4,740	12,448	15,686,961	4,708,959,868	12,892,429.5	30.22	36.77 (35.73, 37.83)	14,259,940	3,008	3
2020	4,843	13,091	15,358,829	4,644,417,280	12,715,721.5	31.53	38.09 (37.03, 39.17)	12,953,007	2,675	3
2021	5,113	13,857	15,210,106	4,574,595,196	12,524,559.1	33.62	40.82 (39.72, 41.96)	11,085,703	2,168	3
2022	5,137	13,743	15,336,286	4,538,798,572	12,426,553.2	33.50	41.34 (40.22, 42.48)	8,013,226	1,560	3
2023	5,184	14,171	14,741,696	4,379,083,292	11,989,276.6	35.17	43.24 (42.08, 44.43)	4,591,572	886	3
2024	3,484	6,920	13,157,408	2,005,810,348	5,491,609.4	26.48	63.44 (61.37, 65.58)	641,510	184	2
<i>≥ 65 years</i>										
2017	1,870	4,793	6,555,786	2,115,465,855	5,791,829.9	28.52	32.29 (30.86, 33.78)	8,011,190	4,284	3
2018	2,103	5,454	6,892,627	2,200,393,332	6,024,348.6	30.51	34.91 (33.45, 36.43)	7,977,126	3,793	3
2019	2,550	6,901	7,445,400	2,355,099,377	6,447,910.7	34.25	39.55 (38.04, 41.11)	8,794,033	3,449	3
2020	2,797	7,560	8,032,963	2,542,558,043	6,961,144.5	34.82	40.18 (38.72, 41.70)	7,914,682	2,830	3
2021	3,006	8,174	8,541,799	2,664,198,303	7,294,177.4	35.19	41.21 (39.76, 42.71)	6,905,940	2,297	3
2022	3,323	8,699	8,876,927	2,763,033,608	7,564,773.7	37.43	43.93 (42.46, 45.45)	5,262,757	1,584	3
2023	3,693	9,325	9,450,355	2,937,680,658	8,042,931.3	39.08	45.92 (44.46, 47.42)	3,147,387	852	3

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2024	2,609	4,950	9,257,778	1,517,580,178	4,154,908.1	28.18	62.79 (60.43, 65.25)	466,307	179	2
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	11,116	*****	*****
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	3,147	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	12,555	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	4,125	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	3,806	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	1,583	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	102	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	12,895	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	12,776	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	23,645	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	11,394	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	3,250	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	8,394	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	1,592	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	268	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	137,825	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	93,808	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	95,039	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	90,896	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	81,264	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2022	35	133	4,068,261	1,094,225,834	2,995,827.1	0.86	1.17 (0.84, 1.63)	78,753	2,250	4
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	41,399	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	8,450	*****	*****
<i>18-44 years</i>										
2017	2,243	6,503	22,144,329	6,094,616,461	16,686,150.5	10.13	13.44 (12.90, 14.01)	7,938,570	3,539	3
2018	2,308	6,686	21,909,669	6,026,658,035	16,500,090.4	10.53	13.99 (13.43, 14.57)	7,607,802	3,296	3
2019	2,423	6,850	21,754,009	6,007,077,430	16,446,481.7	11.14	14.73 (14.16, 15.33)	7,112,954	2,936	3
2020	*****	*****	20,975,128	5,922,943,852	16,216,136.5	*****	*****	6,099,093	*****	*****
2021	2,356	6,559	20,836,192	5,775,098,694	15,811,358.5	11.31	14.90 (14.31, 15.51)	4,858,741	2,062	3
2022	2,332	6,612	21,356,588	5,789,120,814	15,849,749.0	10.92	14.71 (14.13, 15.32)	3,638,902	1,560	3
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	1,977,013	*****	*****
2024	1,421	3,148	17,522,152	2,548,291,731	6,976,842.5	8.11	20.37 (19.34, 21.45)	287,568	202	2
<i>45-64 years</i>										
2017	4,093	10,511	16,244,067	4,868,205,919	13,328,421.4	25.20	30.71 (29.78, 31.66)	14,611,798	3,570	3
2018	4,090	10,490	15,806,686	4,750,989,974	13,007,501.6	25.88	31.44 (30.49, 32.42)	13,485,068	3,297	3
2019	4,521	11,622	15,686,961	4,708,959,868	12,892,429.5	28.82	35.07 (34.06, 36.10)	13,311,897	2,944	3
2020	4,594	12,226	15,358,829	4,644,417,280	12,715,721.5	29.91	36.13 (35.10, 37.19)	12,098,076	2,633	3
2021	4,817	12,817	15,210,106	4,574,595,196	12,524,559.1	31.67	38.46 (37.39, 39.56)	10,298,396	2,138	3
2022	4,866	12,769	15,336,286	4,538,798,572	12,426,553.2	31.73	39.16 (38.07, 40.27)	7,478,385	1,537	3
2023	4,894	13,049	14,741,696	4,379,083,292	11,989,276.6	33.20	40.82 (39.69, 41.98)	4,262,921	871	3
2024	3,317	6,501	13,157,408	2,005,810,348	5,491,609.4	25.21	60.40 (58.38, 62.49)	606,246	183	2
<i>≥ 65 years</i>										
2017	1,723	4,411	6,555,786	2,115,465,855	5,791,829.9	26.28	29.75 (28.38, 31.19)	7,334,329	4,257	3
2018	1,903	4,914	6,892,627	2,200,393,332	6,024,348.6	27.61	31.59 (30.20, 33.04)	7,293,887	3,833	3
2019	2,352	6,290	7,445,400	2,355,099,377	6,447,910.7	31.59	36.48 (35.03, 37.98)	8,017,986	3,409	3
2020	2,565	6,945	8,032,963	2,542,558,043	6,961,144.5	31.93	36.85 (35.45, 38.30)	7,244,519	2,824	3
2021	2,749	7,500	8,541,799	2,664,198,303	7,294,177.4	32.18	37.69 (36.30, 39.12)	6,347,039	2,309	3
2022	2,957	7,759	8,876,927	2,763,033,608	7,564,773.7	33.31	39.09 (37.71, 40.52)	4,733,797	1,601	3

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2023	3,229	8,351	9,450,355	2,937,680,658	8,042,931.3	34.17	40.15 (38.79, 41.56)	2,832,650	877	3
2024	2,400	4,563	9,257,778	1,517,580,178	4,154,908.1	25.92	57.76 (55.50, 60.12)	432,997	180	2
Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	305	*****	*****
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,345,827	867,349,083	2,374,672.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	3,201,502	848,325,734	2,322,589.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	1,080	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	386	*****	*****
2024	*****	*****	2,497,108	346,578,678	948,880.7	*****	*****	15	*****	*****
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	7,097	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	5,819	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	2,050	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	2,985	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	924	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	632	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	423	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	27	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	52,238	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	38,949	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	46,173	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	36,023	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	41,612	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	29,218	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	13,756	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	4,013	*****	*****
<i>18-44 years</i>										
2017	1,165	2,739	22,144,329	6,094,616,461	16,686,150.5	5.26	6.98 (6.59, 7.39)	3,435,271	2,949	2
2018	1,147	2,752	21,909,669	6,026,658,035	16,500,090.4	5.24	6.95 (6.56, 7.37)	3,193,692	2,784	2
2019	1,063	2,562	21,754,009	6,007,077,430	16,446,481.7	4.89	6.46 (6.09, 6.86)	2,753,492	2,590	2
2020	1,050	2,632	20,975,128	5,922,943,852	16,216,136.5	5.01	6.48 (6.09, 6.88)	2,418,440	2,303	3
2021	1,020	2,375	20,836,192	5,775,098,694	15,811,358.5	4.90	6.45 (6.07, 6.86)	1,734,764	1,701	2
2022	997	2,254	21,356,588	5,789,120,814	15,849,749.0	4.67	6.29 (5.91, 6.69)	1,211,735	1,215	2
2023	925	2,158	20,357,355	5,623,823,810	15,397,190.4	4.54	6.01 (5.63, 6.41)	685,059	741	2
2024	612	1,096	17,522,152	2,548,291,731	6,976,842.5	3.49	8.77 (8.10, 9.50)	101,274	165	2
<i>45-64 years</i>										
2017	1,708	3,770	16,244,067	4,868,205,919	13,328,421.4	10.51	12.81 (12.22, 13.44)	5,292,841	3,099	2
2018	1,740	3,886	15,806,686	4,750,989,974	13,007,501.6	11.01	13.38 (12.76, 14.02)	5,041,260	2,897	2
2019	1,765	3,976	15,686,961	4,708,959,868	12,892,429.5	11.25	13.69 (13.07, 14.34)	4,595,842	2,604	2
2020	1,736	4,027	15,358,829	4,644,417,280	12,715,721.5	11.30	13.65 (13.03, 14.31)	4,062,316	2,340	2
2021	1,739	3,966	15,210,106	4,574,595,196	12,524,559.1	11.43	13.88 (13.25, 14.55)	3,204,176	1,843	2
2022	1,666	3,717	15,336,286	4,538,798,572	12,426,553.2	10.86	13.41 (12.78, 14.07)	2,216,245	1,330	2
2023	1,662	3,901	14,741,696	4,379,083,292	11,989,276.6	11.27	13.86 (13.21, 14.55)	1,278,794	769	2
2024	1,132	1,875	13,157,408	2,005,810,348	5,491,609.4	8.60	20.61 (19.45, 21.85)	173,567	153	2
<i>≥ 65 years</i>										
2017	632	1,413	6,555,786	2,115,465,855	5,791,829.9	9.64	10.91 (10.09, 11.80)	2,471,374	3,910	2
2018	655	1,475	6,892,627	2,200,393,332	6,024,348.6	9.50	10.87 (10.07, 11.74)	2,247,907	3,432	2
2019	806	1,850	7,445,400	2,355,099,377	6,447,910.7	10.83	12.50 (11.67, 13.39)	2,496,276	3,097	2
2020	831	1,929	8,032,963	2,542,558,043	6,961,144.5	10.34	11.94 (11.15, 12.78)	2,084,303	2,508	2
2021	890	1,936	8,541,799	2,664,198,303	7,294,177.4	10.42	12.20 (11.43, 13.03)	1,721,172	1,934	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2022	881	1,931	8,876,927	2,763,033,608	7,564,773.7	9.92	11.65 (10.90, 12.44)	1,237,832	1,405	2
2023	921	1,975	9,450,355	2,937,680,658	8,042,931.3	9.75	11.45 (10.73, 12.22)	681,148	740	2
2024	685	1,062	9,257,778	1,517,580,178	4,154,908.1	7.40	16.49 (15.30, 17.77)	99,718	146	2
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,431	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	16,471	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	13,430	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	9,601	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	14,277	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	3,209	*****	*****
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	48,190	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	63,631	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	50,361	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	23,621	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	3,771	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	9,910	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	875	*****	*****
2024	0	0	2,948,554	417,235,851	1,142,329.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	86	176	4,476,684	1,206,434,464	3,303,037.5	1.92	2.60 (2.11, 3.22)	327,893	3,813	2
2018	96	212	4,389,457	1,182,182,630	3,236,639.6	2.19	2.97 (2.43, 3.62)	377,463	3,932	2
2019	80	176	4,312,393	1,167,100,069	3,195,345.8	1.86	2.50 (2.01, 3.12)	262,500	3,281	2
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	173,997	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	113,083	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2022	****	****	4,068,261	1,094,225,834	2,995,827.1	****	****	68,809	****	****
2023	14	33	3,870,709	1,048,072,491	2,869,466.1	0.36	0.49 (0.29, 0.82)	16,192	1,157	2
2024	0	0	3,304,739	471,958,328	1,292,151.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	2,855	6,314	22,144,329	6,094,616,461	16,686,150.5	12.89	17.11 (16.49, 17.75)	9,943,223	3,483	2
2018	4,031	9,158	21,909,669	6,026,658,035	16,500,090.4	18.40	24.43 (23.69, 25.20)	13,273,267	3,293	2
2019	3,168	7,387	21,754,009	6,007,077,430	16,446,481.7	14.56	19.26 (18.60, 19.95)	10,057,761	3,175	2
2020	2,315	5,693	20,975,128	5,922,943,852	16,216,136.5	11.04	14.28 (13.71, 14.87)	6,644,499	2,870	2
2021	****	****	20,836,192	5,775,098,694	15,811,358.5	****	****	4,882,970	****	****
2022	****	****	21,356,588	5,789,120,814	15,849,749.0	****	****	2,883,479	****	****
2023	****	****	20,357,355	5,623,823,810	15,397,190.4	****	****	564,568	****	****
2024	0	0	17,522,152	2,548,291,731	6,976,842.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	5,261	11,830	16,244,067	4,868,205,919	13,328,421.4	32.39	39.47 (38.42, 40.55)	21,177,143	4,025	2
2018	6,737	15,338	15,806,686	4,750,989,974	13,007,501.6	42.62	51.79 (50.57, 53.04)	24,957,139	3,704	2
2019	5,879	14,188	15,686,961	4,708,959,868	12,892,429.5	37.48	45.60 (44.45, 46.78)	20,489,441	3,485	2
2020	4,734	12,108	15,358,829	4,644,417,280	12,715,721.5	30.82	37.23 (36.18, 38.31)	14,701,651	3,106	3
2021	4,527	11,773	15,210,106	4,574,595,196	12,524,559.1	29.76	36.14 (35.11, 37.21)	11,484,650	2,537	3
2022	3,749	9,896	15,336,286	4,538,798,572	12,426,553.2	24.45	30.17 (29.22, 31.15)	6,926,518	1,848	3
2023	1,439	2,682	14,741,696	4,379,083,292	11,989,276.6	9.76	12.00 (11.40, 12.64)	1,273,926	885	2
2024	0	0	13,157,408	2,005,810,348	5,491,609.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	2,352	5,704	6,555,786	2,115,465,855	5,791,829.9	35.88	40.61 (39.00, 42.28)	10,943,376	4,653	2
2018	3,137	7,858	6,892,627	2,200,393,332	6,024,348.6	45.51	52.07 (50.28, 53.93)	13,193,279	4,206	3
2019	2,918	7,861	7,445,400	2,355,099,377	6,447,910.7	39.19	45.25 (43.64, 46.93)	11,378,946	3,900	3
2020	2,465	6,656	8,032,963	2,542,558,043	6,961,144.5	30.69	35.41 (34.04, 36.84)	8,156,087	3,309	3
2021	2,627	7,236	8,541,799	2,664,198,303	7,294,177.4	30.75	36.02 (34.66, 37.42)	7,199,511	2,741	3
2022	2,287	5,879	8,876,927	2,763,033,608	7,564,773.7	25.76	30.23 (29.02, 31.50)	4,181,192	1,828	3

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2023	904	1,811	9,450,355	2,937,680,658	8,042,931.3	9.57	11.24 (10.53, 12.00)	854,307	945	2
2024	0	0	9,257,778	1,517,580,178	4,154,908.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,431	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,091	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	8,156	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	8,070	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	4,427	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	2,383	*****	*****
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	39,784	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	54,935	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	26,791	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	6,642	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	2,493	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	4,295	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	462	*****	*****
2024	0	0	2,948,554	417,235,851	1,142,329.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	223,210	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	256,220	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	177,279	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	103,622	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	69,005	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	51,163	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	12,663	*****	*****
2024	0	0	3,304,739	471,958,328	1,292,151.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	2,324	4,775	22,144,329	6,094,616,461	16,686,150.5	10.49	13.93 (13.37, 14.51)	7,561,064	3,253	2
2018	3,355	6,803	21,909,669	6,026,658,035	16,500,090.4	15.31	20.33 (19.66, 21.03)	9,825,287	2,929	2
2019	2,667	5,523	21,754,009	6,007,077,430	16,446,481.7	12.26	16.22 (15.61, 16.84)	7,500,360	2,812	2
2020	1,941	4,269	20,975,128	5,922,943,852	16,216,136.5	9.25	11.97 (11.45, 12.51)	4,938,618	2,544	2
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	3,616,623	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	2,220,093	*****	*****
2023	577	892	20,357,355	5,623,823,810	15,397,190.4	2.83	3.75 (3.45, 4.07)	418,159	725	2
2024	0	0	17,522,152	2,548,291,731	6,976,842.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	4,363	8,741	16,244,067	4,868,205,919	13,328,421.4	26.86	32.73 (31.78, 33.72)	15,829,419	3,628	2
2018	5,670	11,349	15,806,686	4,750,989,974	13,007,501.6	35.87	43.59 (42.47, 44.74)	18,578,294	3,277	2
2019	4,845	10,156	15,686,961	4,708,959,868	12,892,429.5	30.89	37.58 (36.54, 38.65)	14,647,915	3,023	2
2020	3,926	8,357	15,358,829	4,644,417,280	12,715,721.5	25.56	30.88 (29.92, 31.86)	10,257,713	2,613	2
2021	3,759	8,049	15,210,106	4,574,595,196	12,524,559.1	24.71	30.01 (29.07, 30.99)	7,886,932	2,098	2
2022	3,244	6,888	15,336,286	4,538,798,572	12,426,553.2	21.15	26.11 (25.22, 27.02)	4,850,903	1,495	2
2023	1,196	1,829	14,741,696	4,379,083,292	11,989,276.6	8.11	9.98 (9.43, 10.56)	867,619	725	2
2024	0	0	13,157,408	2,005,810,348	5,491,609.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	1,991	3,942	6,555,786	2,115,465,855	5,791,829.9	30.37	34.38 (32.90, 35.92)	7,778,761	3,907	2
2018	2,690	5,567	6,892,627	2,200,393,332	6,024,348.6	39.03	44.65 (43.00, 46.37)	9,655,223	3,589	2
2019	2,456	5,319	7,445,400	2,355,099,377	6,447,910.7	32.99	38.09 (36.61, 39.63)	7,903,222	3,218	2
2020	2,083	4,434	8,032,963	2,542,558,043	6,961,144.5	25.93	29.92 (28.67, 31.24)	5,566,236	2,672	2
2021	2,197	4,683	8,541,799	2,664,198,303	7,294,177.4	25.72	30.12 (28.89, 31.41)	4,707,711	2,143	2
2022	1,904	3,984	8,876,927	2,763,033,608	7,564,773.7	21.45	25.17 (24.06, 26.33)	2,868,724	1,507	2
2023	758	1,131	9,450,355	2,937,680,658	8,042,931.3	8.02	9.42 (8.78, 10.12)	538,100	710	1

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2024	0	0	9,257,778	1,517,580,178	4,154,908.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	2,431	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,091	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	8,156	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	8,070	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	4,427	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	2,383	*****	*****
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	38,305	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	54,935	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	24,755	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	6,642	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	2,493	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	4,295	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	462	*****	*****
2024	0	0	2,948,554	417,235,851	1,142,329.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	218,461	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	237,062	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	171,349	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	98,222	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	67,057	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	49,990	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	12,663	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
2024	0	0	3,304,739	471,958,328	1,292,151.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	2,213	4,494	22,144,329	6,094,616,461	16,686,150.5	9.99	13.26 (12.72, 13.83)	7,122,792	3,219	2
2018	3,199	6,385	21,909,669	6,026,658,035	16,500,090.4	14.60	19.39 (18.73, 20.07)	9,218,048	2,882	2
2019	2,555	5,220	21,754,009	6,007,077,430	16,446,481.7	11.74	15.54 (14.94, 16.15)	7,098,716	2,778	2
2020	1,858	3,993	20,975,128	5,922,943,852	16,216,136.5	8.86	11.46 (10.95, 11.99)	4,649,385	2,502	2
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	3,382,712	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	2,068,386	*****	*****
2023	551	844	20,357,355	5,623,823,810	15,397,190.4	2.71	3.58 (3.29, 3.89)	396,791	720	2
2024	0	0	17,522,152	2,548,291,731	6,976,842.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	4,182	8,256	16,244,067	4,868,205,919	13,328,421.4	25.74	31.38 (30.44, 32.34)	14,944,361	3,573	2
2018	5,461	10,839	15,806,686	4,750,989,974	13,007,501.6	34.55	41.98 (40.88, 43.11)	17,722,016	3,245	2
2019	4,676	9,679	15,686,961	4,708,959,868	12,892,429.5	29.81	36.27 (35.24, 37.32)	13,959,443	2,985	2
2020	3,774	7,976	15,358,829	4,644,417,280	12,715,721.5	24.57	29.68 (28.75, 30.64)	9,820,841	2,602	2
2021	3,608	7,679	15,210,106	4,574,595,196	12,524,559.1	23.72	28.81 (27.88, 29.76)	7,527,781	2,086	2
2022	3,128	6,549	15,336,286	4,538,798,572	12,426,553.2	20.40	25.17 (24.31, 26.07)	4,616,258	1,476	2
2023	1,154	1,773	14,741,696	4,379,083,292	11,989,276.6	7.83	9.63 (9.09, 10.20)	842,403	730	2
2024	0	0	13,157,408	2,005,810,348	5,491,609.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	1,919	3,765	6,555,786	2,115,465,855	5,791,829.9	29.27	33.13 (31.68, 34.65)	7,411,682	3,862	2
2018	2,600	5,324	6,892,627	2,200,393,332	6,024,348.6	37.72	43.16 (41.53, 44.85)	9,243,625	3,555	2
2019	2,393	5,098	7,445,400	2,355,099,377	6,447,910.7	32.14	37.11 (35.66, 38.63)	7,569,242	3,163	2
2020	2,019	4,262	8,032,963	2,542,558,043	6,961,144.5	25.13	29.00 (27.77, 30.30)	5,348,773	2,649	2
2021	2,139	4,546	8,541,799	2,664,198,303	7,294,177.4	25.04	29.32 (28.11, 30.59)	4,575,984	2,139	2
2022	1,846	3,864	8,876,927	2,763,033,608	7,564,773.7	20.80	24.40 (23.31, 25.54)	2,785,477	1,509	2
2023	742	1,108	9,450,355	2,937,680,658	8,042,931.3	7.85	9.23 (8.59, 9.91)	527,319	711	1
2024	0	0	9,257,778	1,517,580,178	4,154,908.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	0	0	3,487,087	897,193,746	2,456,382.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,091	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	1,625	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	2,746	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	2,394	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	1,621	*****	*****
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	26,539	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	42,230	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	11,028	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	4,544	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	1,151	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	3,251	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	462	*****	*****
2024	0	0	2,948,554	417,235,851	1,142,329.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	85,348	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	84,980	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	79,433	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	45,625	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	22,250	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	21,531	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	6,909	*****	*****
2024	0	0	3,304,739	471,958,328	1,292,151.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	752	1,531	22,144,329	6,094,616,461	16,686,150.5	3.40	4.51 (4.20, 4.84)	2,449,514	3,257	2
2018	954	1,893	21,909,669	6,026,658,035	16,500,090.4	4.35	5.78 (5.43, 6.16)	2,711,474	2,842	2
2019	802	1,616	21,754,009	6,007,077,430	16,446,481.7	3.69	4.88 (4.55, 5.23)	2,205,537	2,750	2
2020	653	1,395	20,975,128	5,922,943,852	16,216,136.5	3.11	4.03 (3.73, 4.35)	1,644,295	2,518	2
2021	547	1,144	20,836,192	5,775,098,694	15,811,358.5	2.63	3.46 (3.18, 3.76)	1,111,536	2,032	2
2022	449	888	21,356,588	5,789,120,814	15,849,749.0	2.10	2.83 (2.58, 3.11)	624,848	1,392	2
2023	180	266	20,357,355	5,623,823,810	15,397,190.4	0.88	1.17 (1.01, 1.35)	125,004	694	1
2024	0	0	17,522,152	2,548,291,731	6,976,842.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	1,386	2,678	16,244,067	4,868,205,919	13,328,421.4	8.53	10.40 (9.87, 10.96)	4,919,373	3,549	2
2018	1,483	2,809	15,806,686	4,750,989,974	13,007,501.6	9.38	11.40 (10.84, 12.00)	4,577,403	3,087	2
2019	1,395	2,648	15,686,961	4,708,959,868	12,892,429.5	8.89	10.82 (10.27, 11.40)	3,833,772	2,748	2
2020	1,170	2,283	15,358,829	4,644,417,280	12,715,721.5	7.62	9.20 (8.69, 9.74)	2,810,309	2,402	2
2021	1,122	2,127	15,210,106	4,574,595,196	12,524,559.1	7.38	8.96 (8.45, 9.50)	2,094,922	1,867	2
2022	888	1,675	15,336,286	4,538,798,572	12,426,553.2	5.79	7.15 (6.69, 7.63)	1,187,549	1,337	2
2023	325	451	14,741,696	4,379,083,292	11,989,276.6	2.20	2.71 (2.43, 3.02)	214,732	661	1
2024	0	0	13,157,408	2,005,810,348	5,491,609.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	668	1,287	6,555,786	2,115,465,855	5,791,829.9	10.19	11.53 (10.69, 12.44)	2,542,256	3,806	2
2018	755	1,456	6,892,627	2,200,393,332	6,024,348.6	10.95	12.53 (11.67, 13.46)	2,620,408	3,471	2
2019	772	1,548	7,445,400	2,355,099,377	6,447,910.7	10.37	11.97 (11.16, 12.85)	2,333,197	3,022	2
2020	644	1,262	8,032,963	2,542,558,043	6,961,144.5	8.02	9.25 (8.56, 9.99)	1,628,286	2,528	2
2021	676	1,358	8,541,799	2,664,198,303	7,294,177.4	7.91	9.27 (8.59, 9.99)	1,369,974	2,027	2
2022	570	1,108	8,876,927	2,763,033,608	7,564,773.7	6.42	7.53 (6.94, 8.18)	805,898	1,414	2
2023	233	318	9,450,355	2,937,680,658	8,042,931.3	2.47	2.90 (2.55, 3.29)	152,537	655	1
2024	0	0	9,257,778	1,517,580,178	4,154,908.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Mixed Cutaneous Lupus Erythematosus										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	33,951	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	14,852	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	55,927	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	48,373	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	31,677	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	16,100	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	6,325	*****	*****
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	32,142	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	53,324	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	68,300	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	32,057	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	20,979	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	35,302	*****	*****
2023	11	29	3,457,667	925,276,292	2,533,268.4	0.32	0.43 (0.24, 0.78)	8,921	811	3
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	785	*****	*****
<i>12-17 years</i>										
2017	69	170	4,476,684	1,206,434,464	3,303,037.5	1.54	2.09 (1.65, 2.64)	272,027	3,942	2
2018	63	182	4,389,457	1,182,182,630	3,236,639.6	1.44	1.95 (1.52, 2.49)	307,664	4,884	3
2019	51	135	4,312,393	1,167,100,069	3,195,345.8	1.18	1.60 (1.21, 2.10)	181,865	3,566	3
2020	35	91	4,179,199	1,151,113,124	3,151,576.0	0.84	1.11 (0.80, 1.55)	100,349	2,867	3
2021	35	83	4,084,415	1,117,255,019	3,058,877.5	0.86	1.14 (0.82, 1.59)	79,932	2,284	2
2022	39	130	4,068,261	1,094,225,834	2,995,827.1	0.96	1.30 (0.95, 1.78)	82,031	2,103	3
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	45,936	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	3,750	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	1,609	4,490	22,144,329	6,094,616,461	16,686,150.5	7.27	9.64 (9.18, 10.13)	7,088,514	4,406	3
2018	1,657	4,671	21,909,669	6,026,658,035	16,500,090.4	7.56	10.04 (9.57, 10.54)	6,615,157	3,992	3
2019	1,438	3,799	21,754,009	6,007,077,430	16,446,481.7	6.61	8.74 (8.30, 9.21)	4,794,553	3,334	3
2020	1,169	3,464	20,975,128	5,922,943,852	16,216,136.5	5.57	7.21 (6.81, 7.63)	3,784,972	3,238	3
2021	1,059	3,036	20,836,192	5,775,098,694	15,811,358.5	5.08	6.70 (6.31, 7.11)	2,618,673	2,473	3
2022	939	2,761	21,356,588	5,789,120,814	15,849,749.0	4.40	5.92 (5.56, 6.32)	1,694,550	1,805	3
2023	740	2,172	20,357,355	5,623,823,810	15,397,190.4	3.64	4.81 (4.47, 5.17)	738,404	998	3
2024	262	535	17,522,152	2,548,291,731	6,976,842.5	1.50	3.76 (3.33, 4.24)	58,060	222	2
<i>45-64 years</i>										
2017	3,143	9,100	16,244,067	4,868,205,919	13,328,421.4	19.35	23.58 (22.77, 24.42)	14,836,623	4,721	3
2018	3,126	8,682	15,806,686	4,750,989,974	13,007,501.6	19.78	24.03 (23.20, 24.89)	13,130,695	4,200	3
2019	2,796	7,978	15,686,961	4,708,959,868	12,892,429.5	17.82	21.69 (20.90, 22.51)	10,710,388	3,831	3
2020	2,442	7,296	15,358,829	4,644,417,280	12,715,721.5	15.90	19.20 (18.46, 19.98)	8,194,618	3,356	3
2021	2,303	6,807	15,210,106	4,574,595,196	12,524,559.1	15.14	18.39 (17.65, 19.15)	6,129,555	2,662	3
2022	1,959	6,069	15,336,286	4,538,798,572	12,426,553.2	12.77	15.76 (15.08, 16.48)	3,910,661	1,996	3
2023	1,577	4,919	14,741,696	4,379,083,292	11,989,276.6	10.70	13.15 (12.52, 13.82)	1,714,839	1,087	3
2024	579	1,226	13,157,408	2,005,810,348	5,491,609.4	4.40	10.54 (9.72, 11.44)	139,675	241	2
<i>≥ 65 years</i>										
2017	1,639	5,122	6,555,786	2,115,465,855	5,791,829.9	25.00	28.30 (26.96, 29.70)	9,396,265	5,733	3
2018	1,688	5,563	6,892,627	2,200,393,332	6,024,348.6	24.49	28.02 (26.71, 29.39)	8,786,953	5,206	3
2019	1,713	5,559	7,445,400	2,355,099,377	6,447,910.7	23.01	26.57 (25.34, 27.86)	7,821,185	4,566	3
2020	1,553	5,386	8,032,963	2,542,558,043	6,961,144.5	19.33	22.31 (21.23, 23.45)	6,085,660	3,919	3
2021	1,626	5,433	8,541,799	2,664,198,303	7,294,177.4	19.04	22.29 (21.23, 23.40)	5,156,057	3,171	3
2022	1,503	5,070	8,876,927	2,763,033,608	7,564,773.7	16.93	19.87 (18.89, 20.90)	3,382,963	2,251	3
2023	1,249	4,316	9,450,355	2,937,680,658	8,042,931.3	13.22	15.53 (14.69, 16.41)	1,533,387	1,228	3
2024	533	1,201	9,257,778	1,517,580,178	4,154,908.1	5.76	12.83 (11.78, 13.96)	137,949	259	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	28,577	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	11,917	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	11,716	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	17,720	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	6,847	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	15,226	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	6,325	*****	*****
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	27,529	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	44,786	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	59,482	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	23,819	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	17,283	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	23,764	*****	*****
2023	11	27	3,457,667	925,276,292	2,533,268.4	0.32	0.43 (0.24, 0.78)	8,509	774	2
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	785	*****	*****
<i>12-17 years</i>										
2017	58	146	4,476,684	1,206,434,464	3,303,037.5	1.30	1.76 (1.36, 2.27)	232,075	4,001	3
2018	49	141	4,389,457	1,182,182,630	3,236,639.6	1.12	1.51 (1.14, 2.00)	239,472	4,887	3
2019	44	107	4,312,393	1,167,100,069	3,195,345.8	1.02	1.38 (1.02, 1.85)	141,631	3,219	2
2020	33	74	4,179,199	1,151,113,124	3,151,576.0	0.79	1.05 (0.74, 1.47)	81,396	2,467	2
2021	32	66	4,084,415	1,117,255,019	3,058,877.5	0.78	1.05 (0.74, 1.48)	62,712	1,960	2
2022	35	95	4,068,261	1,094,225,834	2,995,827.1	0.86	1.17 (0.84, 1.63)	60,937	1,741	3
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	35,433	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	2,715	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	1,361	3,234	22,144,329	6,094,616,461	16,686,150.5	6.15	8.16 (7.73, 8.60)	4,954,701	3,640	2
2018	1,437	3,474	21,909,669	6,026,658,035	16,500,090.4	6.56	8.71 (8.27, 9.17)	4,791,628	3,334	2
2019	1,242	2,921	21,754,009	6,007,077,430	16,446,481.7	5.71	7.55 (7.14, 7.98)	3,678,884	2,962	2
2020	1,014	2,656	20,975,128	5,922,943,852	16,216,136.5	4.83	6.25 (5.88, 6.65)	2,903,692	2,864	3
2021	948	2,379	20,836,192	5,775,098,694	15,811,358.5	4.55	6.00 (5.63, 6.39)	2,037,829	2,150	3
2022	847	2,156	21,356,588	5,789,120,814	15,849,749.0	3.97	5.34 (5.00, 5.72)	1,316,579	1,554	3
2023	679	1,748	20,357,355	5,623,823,810	15,397,190.4	3.34	4.41 (4.09, 4.75)	591,165	871	3
2024	226	411	17,522,152	2,548,291,731	6,976,842.5	1.29	3.24 (2.84, 3.69)	44,763	198	2
<i>45-64 years</i>										
2017	2,768	7,057	16,244,067	4,868,205,919	13,328,421.4	17.04	20.77 (20.01, 21.56)	11,508,958	4,158	3
2018	2,757	6,767	15,806,686	4,750,989,974	13,007,501.6	17.44	21.20 (20.42, 22.00)	10,191,310	3,697	2
2019	2,464	6,058	15,686,961	4,708,959,868	12,892,429.5	15.71	19.11 (18.37, 19.88)	8,116,322	3,294	2
2020	2,160	5,380	15,358,829	4,644,417,280	12,715,721.5	14.06	16.99 (16.29, 17.72)	6,063,076	2,807	2
2021	2,046	5,147	15,210,106	4,574,595,196	12,524,559.1	13.45	16.34 (15.64, 17.06)	4,614,768	2,256	3
2022	1,783	4,753	15,336,286	4,538,798,572	12,426,553.2	11.63	14.35 (13.70, 15.03)	3,060,008	1,716	3
2023	1,448	3,909	14,741,696	4,379,083,292	11,989,276.6	9.82	12.08 (11.47, 12.72)	1,369,175	946	3
2024	528	941	13,157,408	2,005,810,348	5,491,609.4	4.01	9.61 (8.83, 10.47)	106,851	202	2
<i>≥ 65 years</i>										
2017	1,482	3,928	6,555,786	2,115,465,855	5,791,829.9	22.61	25.59 (24.32, 26.92)	7,398,028	4,992	3
2018	1,524	4,263	6,892,627	2,200,393,332	6,024,348.6	22.11	25.30 (24.06, 26.60)	7,061,559	4,634	3
2019	1,559	4,346	7,445,400	2,355,099,377	6,447,910.7	20.94	24.18 (23.01, 25.41)	6,166,409	3,955	3
2020	1,440	4,021	8,032,963	2,542,558,043	6,961,144.5	17.93	20.69 (19.64, 21.78)	4,664,274	3,239	3
2021	1,482	4,164	8,541,799	2,664,198,303	7,294,177.4	17.35	20.32 (19.31, 21.38)	3,963,059	2,674	3
2022	1,380	3,850	8,876,927	2,763,033,608	7,564,773.7	15.55	18.24 (17.30, 19.23)	2,576,839	1,867	3
2023	1,154	3,263	9,450,355	2,937,680,658	8,042,931.3	12.21	14.35 (13.54, 15.20)	1,163,808	1,008	3
2024	485	923	9,257,778	1,517,580,178	4,154,908.1	5.24	11.67 (10.68, 12.76)	107,276	221	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	27,590	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	11,917	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	11,716	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	15,052	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	6,847	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	15,226	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	6,325	*****	*****
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	25,358	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	43,382	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	57,782	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	22,406	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	17,283	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	21,786	*****	*****
2023	11	24	3,457,667	925,276,292	2,533,268.4	0.32	0.43 (0.24, 0.78)	7,552	687	2
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	679	*****	*****
<i>12-17 years</i>										
2017	56	138	4,476,684	1,206,434,464	3,303,037.5	1.25	1.70 (1.30, 2.20)	220,360	3,935	2
2018	47	124	4,389,457	1,182,182,630	3,236,639.6	1.07	1.45 (1.09, 1.93)	210,362	4,476	3
2019	42	97	4,312,393	1,167,100,069	3,195,345.8	0.97	1.31 (0.97, 1.78)	128,454	3,058	2
2020	33	67	4,179,199	1,151,113,124	3,151,576.0	0.79	1.05 (0.74, 1.47)	73,801	2,236	2
2021	29	58	4,084,415	1,117,255,019	3,058,877.5	0.71	0.95 (0.66, 1.36)	56,271	1,940	2
2022	33	92	4,068,261	1,094,225,834	2,995,827.1	0.81	1.10 (0.78, 1.55)	59,102	1,791	3
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	33,578	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	2,715	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	1,312	3,023	22,144,329	6,094,616,461	16,686,150.5	5.92	7.86 (7.45, 8.30)	4,621,649	3,523	2
2018	1,376	3,206	21,909,669	6,026,658,035	16,500,090.4	6.28	8.34 (7.91, 8.79)	4,420,862	3,213	2
2019	1,180	2,682	21,754,009	6,007,077,430	16,446,481.7	5.42	7.17 (6.78, 7.60)	3,423,887	2,902	2
2020	970	2,462	20,975,128	5,922,943,852	16,216,136.5	4.62	5.98 (5.62, 6.37)	2,722,714	2,807	3
2021	899	2,226	20,836,192	5,775,098,694	15,811,358.5	4.31	5.69 (5.33, 6.07)	1,917,479	2,133	2
2022	795	1,961	21,356,588	5,789,120,814	15,849,749.0	3.72	5.02 (4.68, 5.38)	1,201,626	1,511	2
2023	651	1,594	20,357,355	5,623,823,810	15,397,190.4	3.20	4.23 (3.92, 4.57)	548,156	842	2
2024	217	391	17,522,152	2,548,291,731	6,976,842.5	1.24	3.11 (2.72, 3.55)	43,278	199	2
<i>45-64 years</i>										
2017	2,675	6,643	16,244,067	4,868,205,919	13,328,421.4	16.47	20.07 (19.32, 20.85)	10,886,434	4,070	2
2018	2,670	6,394	15,806,686	4,750,989,974	13,007,501.6	16.89	20.53 (19.76, 21.32)	9,660,838	3,618	2
2019	2,374	5,720	15,686,961	4,708,959,868	12,892,429.5	15.13	18.41 (17.69, 19.17)	7,653,778	3,224	2
2020	2,084	5,066	15,358,829	4,644,417,280	12,715,721.5	13.57	16.39 (15.70, 17.11)	5,706,495	2,738	2
2021	1,967	4,811	15,210,106	4,574,595,196	12,524,559.1	12.93	15.71 (15.03, 16.41)	4,319,909	2,196	2
2022	1,713	4,470	15,336,286	4,538,798,572	12,426,553.2	11.17	13.78 (13.15, 14.45)	2,885,883	1,685	3
2023	1,411	3,724	14,741,696	4,379,083,292	11,989,276.6	9.57	11.77 (11.17, 12.40)	1,311,959	930	3
2024	512	911	13,157,408	2,005,810,348	5,491,609.4	3.89	9.32 (8.55, 10.17)	104,250	204	2
<i>≥ 65 years</i>										
2017	1,429	3,733	6,555,786	2,115,465,855	5,791,829.9	21.80	24.67 (23.43, 25.99)	7,033,361	4,922	3
2018	1,486	4,095	6,892,627	2,200,393,332	6,024,348.6	21.56	24.67 (23.44, 25.95)	6,797,370	4,574	3
2019	1,520	4,170	7,445,400	2,355,099,377	6,447,910.7	20.42	23.57 (22.42, 24.79)	5,896,105	3,879	3
2020	1,403	3,883	8,032,963	2,542,558,043	6,961,144.5	17.47	20.15 (19.13, 21.24)	4,491,290	3,201	3
2021	1,443	3,998	8,541,799	2,664,198,303	7,294,177.4	16.89	19.78 (18.79, 20.83)	3,808,962	2,640	3
2022	1,349	3,713	8,876,927	2,763,033,608	7,564,773.7	15.20	17.83 (16.91, 18.81)	2,503,077	1,856	3
2023	1,131	3,159	9,450,355	2,937,680,658	8,042,931.3	11.97	14.06 (13.27, 14.91)	1,129,444	999	3
2024	469	886	9,257,778	1,517,580,178	4,154,908.1	5.07	11.29 (10.31, 12.36)	102,818	219	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	3,487,087	897,193,746	2,456,382.6	*****	*****	19,695	*****	*****
2018	*****	*****	3,418,168	881,364,429	2,413,044.3	*****	*****	6,718	*****	*****
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	7,580	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	*****	*****	2,996	*****	*****
2021	*****	*****	3,107,029	810,945,222	2,220,247.0	*****	*****	2,975	*****	*****
2022	*****	*****	3,105,954	792,002,883	2,168,385.7	*****	*****	12,611	*****	*****
2023	*****	*****	2,951,933	766,094,604	2,097,452.7	*****	*****	3,234	*****	*****
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	20,541	*****	*****
2018	*****	*****	3,991,951	1,060,113,098	2,902,431.5	*****	*****	38,553	*****	*****
2019	*****	*****	3,892,176	1,037,155,567	2,839,577.2	*****	*****	44,338	*****	*****
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	18,303	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	9,610	*****	*****
2022	*****	*****	3,624,486	959,347,301	2,626,549.8	*****	*****	9,695	*****	*****
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	5,424	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	529	*****	*****
<i>12-17 years</i>										
2017	35	80	4,476,684	1,206,434,464	3,303,037.5	0.78	1.06 (0.76, 1.48)	129,817	3,709	2
2018	33	64	4,389,457	1,182,182,630	3,236,639.6	0.75	1.02 (0.72, 1.43)	113,094	3,427	2
2019	30	59	4,312,393	1,167,100,069	3,195,345.8	0.70	0.94 (0.66, 1.34)	77,067	2,569	2
2020	25	43	4,179,199	1,151,113,124	3,151,576.0	0.60	0.79 (0.54, 1.17)	47,592	1,904	2
2021	21	35	4,084,415	1,117,255,019	3,058,877.5	0.51	0.69 (0.45, 1.05)	34,238	1,630	2
2022	22	52	4,068,261	1,094,225,834	2,995,827.1	0.54	0.73 (0.48, 1.12)	32,830	1,492	2
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	21,149	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	1,729	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	735	1,505	22,144,329	6,094,616,461	16,686,150.5	3.32	4.40 (4.10, 4.74)	2,349,823	3,197	2
2018	769	1,544	21,909,669	6,026,658,035	16,500,090.4	3.51	4.66 (4.34, 5.00)	2,168,892	2,820	2
2019	683	1,340	21,754,009	6,007,077,430	16,446,481.7	3.14	4.15 (3.85, 4.48)	1,699,217	2,488	2
2020	596	1,283	20,975,128	5,922,943,852	16,216,136.5	2.84	3.68 (3.39, 3.98)	1,424,512	2,390	2
2021	549	1,132	20,836,192	5,775,098,694	15,811,358.5	2.63	3.47 (3.19, 3.78)	994,631	1,812	2
2022	491	990	21,356,588	5,789,120,814	15,849,749.0	2.30	3.10 (2.84, 3.38)	618,340	1,259	2
2023	401	771	20,357,355	5,623,823,810	15,397,190.4	1.97	2.60 (2.36, 2.87)	266,063	663	2
2024	125	174	17,522,152	2,548,291,731	6,976,842.5	0.71	1.79 (1.50, 2.13)	19,481	156	1
<i>45-64 years</i>										
2017	1,536	3,297	16,244,067	4,868,205,919	13,328,421.4	9.46	11.52 (10.96, 12.12)	5,343,904	3,479	2
2018	1,468	2,951	15,806,686	4,750,989,974	13,007,501.6	9.29	11.29 (10.72, 11.88)	4,463,666	3,041	2
2019	1,381	2,824	15,686,961	4,708,959,868	12,892,429.5	8.80	10.71 (10.16, 11.29)	3,771,426	2,731	2
2020	1,241	2,527	15,358,829	4,644,417,280	12,715,721.5	8.08	9.76 (9.23, 10.32)	2,891,092	2,330	2
2021	1,173	2,310	15,210,106	4,574,595,196	12,524,559.1	7.71	9.37 (8.84, 9.92)	2,096,758	1,788	2
2022	993	2,159	15,336,286	4,538,798,572	12,426,553.2	6.47	7.99 (7.51, 8.50)	1,406,515	1,416	2
2023	847	1,710	14,741,696	4,379,083,292	11,989,276.6	5.75	7.06 (6.60, 7.56)	607,409	717	2
2024	296	469	13,157,408	2,005,810,348	5,491,609.4	2.25	5.39 (4.81, 6.04)	52,832	178	2
<i>≥ 65 years</i>										
2017	869	1,916	6,555,786	2,115,465,855	5,791,829.9	13.26	15.00 (14.04, 16.04)	3,652,691	4,203	2
2018	943	2,071	6,892,627	2,200,393,332	6,024,348.6	13.68	15.65 (14.69, 16.68)	3,446,913	3,655	2
2019	980	2,162	7,445,400	2,355,099,377	6,447,910.7	13.16	15.20 (14.28, 16.18)	3,087,070	3,150	2
2020	901	1,952	8,032,963	2,542,558,043	6,961,144.5	11.22	12.94 (12.13, 13.82)	2,291,192	2,543	2
2021	963	1,982	8,541,799	2,664,198,303	7,294,177.4	11.27	13.20 (12.39, 14.06)	1,912,662	1,986	2
2022	873	1,853	8,876,927	2,763,033,608	7,564,773.7	9.83	11.54 (10.80, 12.33)	1,276,582	1,462	2
2023	762	1,571	9,450,355	2,937,680,658	8,042,931.3	8.06	9.47 (8.82, 10.17)	567,884	745	2
2024	294	454	9,257,778	1,517,580,178	4,154,908.1	3.18	7.08 (6.31, 7.93)	52,612	179	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
<i>0-5 years</i>										
2017	0	0	3,487,087	897,193,746	2,456,382.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	****	****	3,345,827	867,349,083	2,374,672.4	****	****	1,643	****	****
2020	0	0	3,201,502	848,325,734	2,322,589.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	****	****	4,086,589	1,084,670,148	2,969,665.0	****	****	5,235	****	****
2018	0	0	3,991,951	1,060,113,098	2,902,431.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,892,176	1,037,155,567	2,839,577.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	****	****	3,729,351	1,011,669,639	2,769,800.5	****	****	1,633	****	****
2021	****	****	3,622,029	976,291,219	2,672,939.7	****	****	1,288	****	****
2022	0	0	3,624,486	959,347,301	2,626,549.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	****	****	3,457,667	925,276,292	2,533,268.4	****	****	477	****	****
2024	****	****	2,948,554	417,235,851	1,142,329.5	****	****	439	****	****
<i>12-17 years</i>										
2017	****	****	4,476,684	1,206,434,464	3,303,037.5	****	****	26,906	****	****
2018	****	****	4,389,457	1,182,182,630	3,236,639.6	****	****	14,418	****	****
2019	****	****	4,312,393	1,167,100,069	3,195,345.8	****	****	23,247	****	****
2020	****	****	4,179,199	1,151,113,124	3,151,576.0	****	****	38,634	****	****
2021	****	****	4,084,415	1,117,255,019	3,058,877.5	****	****	66,916	****	****
2022	****	****	4,068,261	1,094,225,834	2,995,827.1	****	****	19,940	****	****
2023	****	****	3,870,709	1,048,072,491	2,869,466.1	****	****	5,782	****	****
2024	****	****	3,304,739	471,958,328	1,292,151.5	****	****	407	****	****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	181,510	*****	*****
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	*****	*****	196,185	*****	*****
2019	*****	*****	21,754,009	6,007,077,430	16,446,481.7	*****	*****	274,547	*****	*****
2020	*****	*****	20,975,128	5,922,943,852	16,216,136.5	*****	*****	286,064	*****	*****
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	291,679	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	183,632	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	114,577	*****	*****
2024	*****	*****	17,522,152	2,548,291,731	6,976,842.5	*****	*****	18,415	*****	*****
<i>45-64 years</i>										
2017	45	92	16,244,067	4,868,205,919	13,328,421.4	0.28	0.34 (0.25, 0.45)	156,154	3,470	2
2018	60	119	15,806,686	4,750,989,974	13,007,501.6	0.38	0.46 (0.36, 0.59)	172,206	2,870	2
2019	78	143	15,686,961	4,708,959,868	12,892,429.5	0.50	0.61 (0.48, 0.76)	179,691	2,304	2
2020	92	187	15,358,829	4,644,417,280	12,715,721.5	0.60	0.72 (0.59, 0.89)	198,961	2,163	2
2021	125	271	15,210,106	4,574,595,196	12,524,559.1	0.82	1.00 (0.84, 1.19)	214,841	1,719	2
2022	132	246	15,336,286	4,538,798,572	12,426,553.2	0.86	1.06 (0.90, 1.26)	141,247	1,070	2
2023	129	240	14,741,696	4,379,083,292	11,989,276.6	0.88	1.08 (0.91, 1.28)	81,528	632	2
2024	90	120	13,157,408	2,005,810,348	5,491,609.4	0.68	1.64 (1.33, 2.01)	11,932	133	1
<i>≥ 65 years</i>										
2017	27	52	6,555,786	2,115,465,855	5,791,829.9	0.41	0.47 (0.32, 0.68)	109,903	4,070	2
2018	27	50	6,892,627	2,200,393,332	6,024,348.6	0.39	0.45 (0.31, 0.65)	107,187	3,970	2
2019	30	52	7,445,400	2,355,099,377	6,447,910.7	0.40	0.47 (0.33, 0.67)	86,596	2,887	2
2020	41	66	8,032,963	2,542,558,043	6,961,144.5	0.51	0.59 (0.43, 0.80)	70,099	1,710	2
2021	53	95	8,541,799	2,664,198,303	7,294,177.4	0.62	0.73 (0.56, 0.95)	100,310	1,893	2
2022	57	110	8,876,927	2,763,033,608	7,564,773.7	0.64	0.75 (0.58, 0.98)	77,427	1,358	2
2023	55	96	9,450,355	2,937,680,658	8,042,931.3	0.58	0.68 (0.53, 0.89)	36,870	670	2
2024	31	52	9,257,778	1,517,580,178	4,154,908.1	0.33	0.75 (0.52, 1.06)	5,504	178	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	0	0	3,487,087	897,193,746	2,456,382.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	****	****	3,345,827	867,349,083	2,374,672.4	****	****	1,643	****	****
2020	0	0	3,201,502	848,325,734	2,322,589.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	****	****	4,086,589	1,084,670,148	2,969,665.0	****	****	5,235	****	****
2018	0	0	3,991,951	1,060,113,098	2,902,431.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,892,176	1,037,155,567	2,839,577.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	****	****	3,729,351	1,011,669,639	2,769,800.5	****	****	1,633	****	****
2021	****	****	3,622,029	976,291,219	2,672,939.7	****	****	1,288	****	****
2022	0	0	3,624,486	959,347,301	2,626,549.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	****	****	3,457,667	925,276,292	2,533,268.4	****	****	477	****	****
2024	****	****	2,948,554	417,235,851	1,142,329.5	****	****	439	****	****
<i>12-17 years</i>										
2017	****	****	4,476,684	1,206,434,464	3,303,037.5	****	****	24,142	****	****
2018	****	****	4,389,457	1,182,182,630	3,236,639.6	****	****	9,194	****	****
2019	****	****	4,312,393	1,167,100,069	3,195,345.8	****	****	23,247	****	****
2020	****	****	4,179,199	1,151,113,124	3,151,576.0	****	****	34,289	****	****
2021	****	****	4,084,415	1,117,255,019	3,058,877.5	****	****	54,019	****	****
2022	****	****	4,068,261	1,094,225,834	2,995,827.1	****	****	18,190	****	****
2023	****	****	3,870,709	1,048,072,491	2,869,466.1	****	****	5,085	****	****
2024	****	****	3,304,739	471,958,328	1,292,151.5	****	****	407	****	****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	154,383	*****	*****
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	*****	*****	160,348	*****	*****
2019	*****	*****	21,754,009	6,007,077,430	16,446,481.7	*****	*****	252,831	*****	*****
2020	*****	*****	20,975,128	5,922,943,852	16,216,136.5	*****	*****	241,173	*****	*****
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	236,315	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	161,087	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	98,825	*****	*****
2024	*****	*****	17,522,152	2,548,291,731	6,976,842.5	*****	*****	15,998	*****	*****
<i>45-64 years</i>										
2017	36	68	16,244,067	4,868,205,919	13,328,421.4	0.22	0.27 (0.19, 0.37)	121,903	3,386	2
2018	55	108	15,806,686	4,750,989,974	13,007,501.6	0.35	0.42 (0.32, 0.55)	160,569	2,919	2
2019	71	122	15,686,961	4,708,959,868	12,892,429.5	0.45	0.55 (0.44, 0.69)	154,646	2,178	2
2020	87	165	15,358,829	4,644,417,280	12,715,721.5	0.57	0.68 (0.55, 0.84)	175,165	2,013	2
2021	121	230	15,210,106	4,574,595,196	12,524,559.1	0.80	0.97 (0.81, 1.15)	183,950	1,520	2
2022	121	209	15,336,286	4,538,798,572	12,426,553.2	0.79	0.97 (0.81, 1.16)	121,953	1,008	2
2023	123	208	14,741,696	4,379,083,292	11,989,276.6	0.83	1.03 (0.86, 1.22)	72,273	588	2
2024	79	102	13,157,408	2,005,810,348	5,491,609.4	0.60	1.44 (1.15, 1.79)	10,103	128	1
<i>≥ 65 years</i>										
2017	24	45	6,555,786	2,115,465,855	5,791,829.9	0.37	0.41 (0.28, 0.62)	94,133	3,922	2
2018	26	48	6,892,627	2,200,393,332	6,024,348.6	0.38	0.43 (0.29, 0.63)	102,860	3,956	2
2019	25	44	7,445,400	2,355,099,377	6,447,910.7	0.34	0.39 (0.26, 0.57)	72,262	2,890	2
2020	39	63	8,032,963	2,542,558,043	6,961,144.5	0.49	0.56 (0.41, 0.77)	66,923	1,716	2
2021	49	85	8,541,799	2,664,198,303	7,294,177.4	0.57	0.67 (0.51, 0.89)	89,262	1,822	2
2022	54	104	8,876,927	2,763,033,608	7,564,773.7	0.61	0.71 (0.55, 0.93)	73,565	1,362	2
2023	51	82	9,450,355	2,937,680,658	8,042,931.3	0.54	0.63 (0.48, 0.83)	30,981	607	2
2024	30	49	9,257,778	1,517,580,178	4,154,908.1	0.32	0.72 (0.50, 1.03)	5,150	172	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
<i>0-5 years</i>										
2017	0	0	3,487,087	897,193,746	2,456,382.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	3,345,827	867,349,083	2,374,672.4	*****	*****	1,643	*****	*****
2020	*****	*****	3,201,502	848,325,734	2,322,589.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	4,086,589	1,084,670,148	2,969,665.0	*****	*****	5,235	*****	*****
2018	0	0	3,991,951	1,060,113,098	2,902,431.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,892,176	1,037,155,567	2,839,577.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	*****	*****	3,729,351	1,011,669,639	2,769,800.5	*****	*****	1,567	*****	*****
2021	*****	*****	3,622,029	976,291,219	2,672,939.7	*****	*****	1,288	*****	*****
2022	0	0	3,624,486	959,347,301	2,626,549.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	3,457,667	925,276,292	2,533,268.4	*****	*****	477	*****	*****
2024	*****	*****	2,948,554	417,235,851	1,142,329.5	*****	*****	439	*****	*****
<i>12-17 years</i>										
2017	*****	*****	4,476,684	1,206,434,464	3,303,037.5	*****	*****	24,142	*****	*****
2018	*****	*****	4,389,457	1,182,182,630	3,236,639.6	*****	*****	6,814	*****	*****
2019	*****	*****	4,312,393	1,167,100,069	3,195,345.8	*****	*****	19,809	*****	*****
2020	*****	*****	4,179,199	1,151,113,124	3,151,576.0	*****	*****	33,031	*****	*****
2021	*****	*****	4,084,415	1,117,255,019	3,058,877.5	*****	*****	51,842	*****	*****
2022	*****	*****	4,068,261	1,094,225,834	2,995,827.1	*****	*****	15,736	*****	*****
2023	*****	*****	3,870,709	1,048,072,491	2,869,466.1	*****	*****	5,085	*****	*****
2024	*****	*****	3,304,739	471,958,328	1,292,151.5	*****	*****	407	*****	*****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	124,184	*****	*****
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	*****	*****	145,626	*****	*****
2019	*****	*****	21,754,009	6,007,077,430	16,446,481.7	*****	*****	228,130	*****	*****
2020	*****	*****	20,975,128	5,922,943,852	16,216,136.5	*****	*****	217,878	*****	*****
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	213,165	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	137,592	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	90,174	*****	*****
2024	*****	*****	17,522,152	2,548,291,731	6,976,842.5	*****	*****	14,815	*****	*****
<i>45-64 years</i>										
2017	34	65	16,244,067	4,868,205,919	13,328,421.4	0.21	0.26 (0.18, 0.36)	115,479	3,396	2
2018	53	105	15,806,686	4,750,989,974	13,007,501.6	0.34	0.41 (0.31, 0.53)	154,549	2,916	2
2019	68	114	15,686,961	4,708,959,868	12,892,429.5	0.43	0.53 (0.42, 0.67)	145,658	2,142	2
2020	85	160	15,358,829	4,644,417,280	12,715,721.5	0.55	0.67 (0.54, 0.83)	168,883	1,987	2
2021	117	216	15,210,106	4,574,595,196	12,524,559.1	0.77	0.93 (0.78, 1.12)	168,926	1,444	2
2022	114	196	15,336,286	4,538,798,572	12,426,553.2	0.74	0.92 (0.76, 1.10)	115,013	1,009	2
2023	116	199	14,741,696	4,379,083,292	11,989,276.6	0.79	0.97 (0.81, 1.16)	69,916	603	2
2024	74	95	13,157,408	2,005,810,348	5,491,609.4	0.56	1.35 (1.07, 1.69)	9,503	128	1
<i>≥ 65 years</i>										
2017	23	42	6,555,786	2,115,465,855	5,791,829.9	0.35	0.40 (0.26, 0.60)	91,767	3,990	2
2018	25	47	6,892,627	2,200,393,332	6,024,348.6	0.36	0.41 (0.28, 0.61)	100,988	4,040	2
2019	24	40	7,445,400	2,355,099,377	6,447,910.7	0.32	0.37 (0.25, 0.56)	65,336	2,722	2
2020	38	62	8,032,963	2,542,558,043	6,961,144.5	0.47	0.55 (0.40, 0.75)	65,552	1,725	2
2021	45	81	8,541,799	2,664,198,303	7,294,177.4	0.53	0.62 (0.46, 0.83)	86,204	1,916	2
2022	51	92	8,876,927	2,763,033,608	7,564,773.7	0.57	0.67 (0.51, 0.89)	65,141	1,277	2
2023	49	80	9,450,355	2,937,680,658	8,042,931.3	0.52	0.61 (0.46, 0.81)	30,707	627	2
2024	29	48	9,257,778	1,517,580,178	4,154,908.1	0.31	0.70 (0.49, 1.00)	5,052	174	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	0	0	3,487,087	897,193,746	2,456,382.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	0	0	3,418,168	881,364,429	2,413,044.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,345,827	867,349,083	2,374,672.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	3,201,502	848,325,734	2,322,589.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	0	0	3,107,029	810,945,222	2,220,247.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	3,105,954	792,002,883	2,168,385.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	2,951,933	766,094,604	2,097,452.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	0	0	2,497,108	346,578,678	948,880.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	****	****	4,086,589	1,084,670,148	2,969,665.0	****	****	2,554	****	****
2018	0	0	3,991,951	1,060,113,098	2,902,431.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	0	0	3,892,176	1,037,155,567	2,839,577.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	3,729,351	1,011,669,639	2,769,800.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	****	****	3,622,029	976,291,219	2,672,939.7	****	****	1,288	****	****
2022	0	0	3,624,486	959,347,301	2,626,549.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	3,457,667	925,276,292	2,533,268.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2024	****	****	2,948,554	417,235,851	1,142,329.5	****	****	439	****	****
<i>12-17 years</i>										
2017	****	****	4,476,684	1,206,434,464	3,303,037.5	****	****	23,104	****	****
2018	****	****	4,389,457	1,182,182,630	3,236,639.6	****	****	6,814	****	****
2019	****	****	4,312,393	1,167,100,069	3,195,345.8	****	****	16,179	****	****
2020	****	****	4,179,199	1,151,113,124	3,151,576.0	****	****	19,537	****	****
2021	****	****	4,084,415	1,117,255,019	3,058,877.5	****	****	30,242	****	****
2022	****	****	4,068,261	1,094,225,834	2,995,827.1	****	****	10,221	****	****
2023	****	****	3,870,709	1,048,072,491	2,869,466.1	****	****	2,691	****	****
2024	****	****	3,304,739	471,958,328	1,292,151.5	****	****	356	****	****

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
<i>18-44 years</i>										
2017	*****	*****	22,144,329	6,094,616,461	16,686,150.5	*****	*****	87,913	*****	*****
2018	*****	*****	21,909,669	6,026,658,035	16,500,090.4	*****	*****	98,361	*****	*****
2019	*****	*****	21,754,009	6,007,077,430	16,446,481.7	*****	*****	173,137	*****	*****
2020	*****	*****	20,975,128	5,922,943,852	16,216,136.5	*****	*****	146,776	*****	*****
2021	*****	*****	20,836,192	5,775,098,694	15,811,358.5	*****	*****	150,138	*****	*****
2022	*****	*****	21,356,588	5,789,120,814	15,849,749.0	*****	*****	112,122	*****	*****
2023	*****	*****	20,357,355	5,623,823,810	15,397,190.4	*****	*****	66,906	*****	*****
2024	*****	*****	17,522,152	2,548,291,731	6,976,842.5	*****	*****	10,474	*****	*****
<i>45-64 years</i>										
2017	26	45	16,244,067	4,868,205,919	13,328,421.4	0.16	0.20 (0.13, 0.29)	76,393	2,938	2
2018	35	57	15,806,686	4,750,989,974	13,007,501.6	0.22	0.27 (0.19, 0.37)	86,678	2,477	2
2019	47	72	15,686,961	4,708,959,868	12,892,429.5	0.30	0.36 (0.27, 0.49)	90,216	1,919	2
2020	61	106	15,358,829	4,644,417,280	12,715,721.5	0.40	0.48 (0.37, 0.62)	114,847	1,883	2
2021	85	155	15,210,106	4,574,595,196	12,524,559.1	0.56	0.68 (0.55, 0.84)	122,663	1,443	2
2022	81	137	15,336,286	4,538,798,572	12,426,553.2	0.53	0.65 (0.52, 0.81)	80,379	992	2
2023	86	139	14,741,696	4,379,083,292	11,989,276.6	0.58	0.72 (0.58, 0.89)	49,053	570	2
2024	56	65	13,157,408	2,005,810,348	5,491,609.4	0.43	1.02 (0.78, 1.33)	6,253	112	1
<i>≥ 65 years</i>										
2017	15	25	6,555,786	2,115,465,855	5,791,829.9	0.23	0.26 (0.16, 0.43)	55,890	3,726	2
2018	18	31	6,892,627	2,200,393,332	6,024,348.6	0.26	0.30 (0.19, 0.47)	65,716	3,651	2
2019	18	27	7,445,400	2,355,099,377	6,447,910.7	0.24	0.28 (0.18, 0.44)	42,201	2,345	2
2020	25	37	8,032,963	2,542,558,043	6,961,144.5	0.31	0.36 (0.24, 0.53)	40,569	1,623	1
2021	32	58	8,541,799	2,664,198,303	7,294,177.4	0.37	0.44 (0.31, 0.62)	62,933	1,967	2
2022	31	55	8,876,927	2,763,033,608	7,564,773.7	0.35	0.41 (0.29, 0.58)	38,617	1,246	2
2023	37	56	9,450,355	2,937,680,658	8,042,931.3	0.39	0.46 (0.33, 0.63)	21,523	582	2
2024	16	27	9,257,778	1,517,580,178	4,154,908.1	0.17	0.39 (0.24, 0.63)	2,803	175	2

Table 8. Summary of Exposures of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024, by Age Group and Year

Number of Patients per Age Group and Calendar Year	Number of Index Dates ² per Age Group and Calendar Year	Number of Eligible Members ³ per Age Group and Calendar Year	Total Eligible Member-Days ³ per Age Group and Calendar Year	Total Eligible Member-Years ³ per Age Group and Calendar Year	Number of Patients per 100,000 Eligible Members ³	Number of Patients per 100,000 Eligible Member-Years (95% Confidence Interval) ³	Total Observable Days Among Patients ⁴	Mean Number of Observable Days per Patient	Mean Number of Index Dates per Patient
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¹- Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.
- Subacute cutaneous lupus erythematosus (SCLE), defined by ICD-10 code L93.1.
- Other lupus erythematosus, defined by ICD-10 code L93.2.
- Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SCLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.
- Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.
- Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SCLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.
- Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1, T69.1XXA, T69.1XXD, or T69.1XXS (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.
- We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider IDs in Appendix C, D, and E.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

²Cohort includes all valid index dates per patient that meet all user criteria during the query period.

³Eligible Member-Days and Eligible Member-Years are calculated based on the total number of days or years that eligible members were enrolled in the study. In stratified analyses, members may appear in more than one stratum due to changes in characteristics over time, such as transitioning into a new age group or a new calendar year. This could result in multiple counting of the same individual across different strata. However, while the number of eligible members in each stratum may add up to more than the overall total, each day or year of eligibility is counted only once for each individual, regardless of how many strata they appear in. As a result, the sum of stratified Member-Days/Years will match the overall total. The totals for Eligible Member-Days and Eligible Member-Years are based on each patient's time unit (whether in days or years), counted only once, regardless of their presence in multiple strata, since each individual can only contribute their time to one stratum at a time.

⁴Total Observable Days refers to the total duration that patients remained enrolled in the study after their diagnosis (index date). This time is calculated from the index date until their last day of enrollment. The calculation is not affected by age group or calendar year stratifications. Specifically, even if a patient's last day of enrollment falls outside the age group or calendar year in which they were indexed, the observable days continue to be counted until the last day of enrollment, even if this extends beyond the original stratification.

****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.
NaN: Not a Number

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Discoid Lupus Erythematosus		Patients with Discoid Lupus Erythematosus Coded by Any Known Provider		Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	104,705	130,113,514	84,568	130,133,651	81,139	130,137,080	27,461	130,190,758
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	445,623	N/A	314,420	N/A	295,642	N/A	94,153	N/A
Claim recorded during specified age range	*****	*****	*****	*****	*****	*****	94,153	0
Episode defining index claim recorded during the query period	*****	0	*****	0	*****	0	94,153	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	419,216	*****	295,839	*****	278,054	*****	89,322	4,831
Met inclusion and exclusion criteria ³	419,216	0	295,839	0	278,054	0	89,322	0
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Discoid Lupus Erythematosus		Patients with Discoid Lupus Erythematosus Coded by Any Known Provider		Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	419,216	0	295,839	0	278,054	0	89,322	0
Final cohort								
Number of members	98,143	N/A	79,201	N/A	76,019	N/A	25,956	N/A
Number of episodes	419,216	N/A	295,839	N/A	278,054	N/A	89,322	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Subacute Cutaneous Lupus Erythematosus		Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider		Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	18,480	130,199,739	15,617	130,202,602	14,812	130,203,407	9,465	130,208,754
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	69,510	N/A	53,892	N/A	50,746	N/A	30,685	N/A
Claim recorded during specified age range	69,510	0	53,892	0	50,746	0	30,685	0
Episode defining index claim recorded during the query period	69,510	0	53,892	0	50,746	0	30,685	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	66,240	3,270	51,454	2,438	48,451	2,295	29,418	1,267
Met inclusion and exclusion criteria ³	66,240	0	51,454	0	48,451	0	29,418	0
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Subacute Cutaneous Lupus Erythematosus		Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider		Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cohort episodes with required pre-index history								
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	66,240	0	51,454	0	48,451	0	29,418	0
Final cohort								
Number of members	17,483	N/A	14,801	N/A	14,040	N/A	9,032	N/A
Number of episodes	66,240	N/A	51,454	N/A	48,451	N/A	29,418	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Other Lupus Erythematosus		Patients with Other Lupus Erythematosus Coded by Any Known Provider		Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	34,058	130,184,161	27,543	130,190,676	26,220	130,191,999	12,067	130,206,152
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	116,607	N/A	86,032	N/A	80,582	N/A	34,949	N/A
Claim recorded during specified age range	116,607	0	86,032	0	80,582	0	34,949	0
Episode defining index claim recorded during the query period	116,607	0	86,032	0	80,582	0	34,949	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	110,801	5,806	81,670	4,362	76,491	4,091	33,390	1,559
Met inclusion and exclusion criteria ³	110,801	0	81,670	0	76,491	0	33,390	0
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Other Lupus Erythematosus		Patients with Other Lupus Erythematosus Coded by Any Known Provider		Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	110,801	0	81,670	0	76,491	0	33,390	0
Final cohort								
Number of members	32,138	N/A	26,018	N/A	24,765	N/A	11,500	N/A
Number of episodes	110,801	N/A	81,670	N/A	76,491	N/A	33,390	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	318,463	129,899,756	250,836	129,967,383	239,391	129,978,828	94,901	130,123,318
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	2,691,930	N/A	1,700,472	N/A	1,569,414	N/A	506,442	N/A
Claim recorded during specified age range	*****	*****	*****	*****	*****	*****	506,442	0
Episode defining index claim recorded during the query period	*****	0	*****	0	*****	0	506,442	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	2,530,258	*****	1,598,360	*****	1,474,960	*****	480,216	26,226
Met inclusion and exclusion criteria ³	333,332	2,196,926	207,421	1,390,939	190,954	1,284,006	61,627	418,589

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	1,361,969	N/A	856,323	N/A	796,538	N/A	259,726
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cohort episodes with required pre-index history								
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	1,560,911	N/A	1,000,978	N/A	919,083	N/A	302,029
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	333,332	0	207,421	0	190,954	0	61,627	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-induced Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Final cohort								
Number of members	42,662	N/A	35,705	N/A	33,820	N/A	13,083	N/A
Number of episodes	333,332	N/A	207,421	N/A	190,954	N/A	61,627	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	104,705	130,113,514	84,568	130,133,651	81,139	130,137,080	27,461	130,190,758
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	445,623	N/A	314,420	N/A	295,642	N/A	94,153	N/A
Claim recorded during specified age range	*****	*****	*****	*****	*****	*****	94,153	0
Episode defining index claim recorded during the query period	*****	0	*****	0	*****	0	94,153	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	419,216	*****	295,839	*****	278,054	*****	89,322	4,831
Met inclusion and exclusion criteria ³	160,980	258,236	114,474	181,365	108,939	169,115	32,060	57,262
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history								
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	258,236	N/A	181,365	N/A	169,115	N/A	57,262
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	160,980	0	114,474	0	108,939	0	32,060	0
Final cohort								
Number of members	36,423	N/A	30,665	N/A	29,618	N/A	8,986	N/A
Number of episodes	160,980	N/A	114,474	N/A	108,939	N/A	32,060	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Mixed Cutaneous Lupus Erythematosus		Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider		Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	135,072	130,083,147	110,741	130,107,478	106,331	130,111,888	43,148	130,175,071
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	625,697	N/A	450,623	N/A	423,525	N/A	157,631	N/A
Claim recorded during specified age range	*****	*****	*****	*****	*****	*****	157,631	0
Episode defining index claim recorded during the query period	*****	0	*****	0	*****	0	157,631	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	590,595	*****	425,488	*****	399,778	*****	150,092	7,539
Met inclusion and exclusion criteria ³	116,056	474,539	88,832	336,656	83,928	315,850	41,564	108,528
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Mixed Cutaneous Lupus Erythematosus		Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider		Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528
Cohort episodes with required pre-index history								
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	474,539	N/A	336,656	N/A	315,850	N/A	108,528
<i>No evidence of DLE, SCL, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	116,056	0	88,832	0	83,928	0	41,564	0
Final cohort								
Number of members	18,369	N/A	16,504	N/A	16,035	N/A	10,247	N/A
Number of episodes	116,056	N/A	88,832	N/A	83,928	N/A	41,564	N/A

N/A: Not Applicable

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A	141,086,361	N/A
Had required coverage type (medical and/or drug coverage)	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300	130,351,061	10,735,300
Enrolled during specified age range	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959	130,336,102	14,959
Had requestable medical charts	130,336,102	0	130,336,102	0	130,336,102	0	130,336,102	0
Met demographic requirements (sex, race, and Hispanic origin)	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883	130,218,219	117,883
Members with a valid index event								
Had any cohort-defining claim during the query period	35,313	130,182,906	32,698	130,185,521	29,926	130,188,293	12,980	130,205,239
Cohort episodes with a valid index date								
Total number of claims with cohort-identifying codes during the query period	63,179	N/A	55,479	N/A	50,164	N/A	21,434	N/A
Claim recorded during specified age range	63,179	0	55,479	0	50,164	0	21,434	0
Episode defining index claim recorded during the query period	63,179	0	55,479	0	50,164	0	21,434	0
Cohort episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	59,590	3,589	52,385	3,094	47,317	2,847	20,314	1,120
Met inclusion and exclusion criteria ³	4,197	55,393	3,624	48,761	3,310	44,007	2,283	18,031
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history								
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cohort episodes with required pre-index history								
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	55,393	N/A	48,761	N/A	44,007	N/A	18,031
Had sufficient post-index continuous enrollment	4,197	0	3,624	0	3,310	0	2,283	0
Final cohort								
Number of members	1,330	N/A	1,238	N/A	1,159	N/A	844	N/A
Number of episodes	4,197	N/A	3,624	N/A	3,310	N/A	2,283	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to July 31, 2024

	Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded

¹Cohorts are formed by first evaluating enrollment and demographic requirements as well as index events among members, then evaluating index dates, pre-index history, and post-index follow-up among episodes. Because of this, the number remaining often increases from the member- to episode-level steps.

²-Discoid lupus erythematosus (DLE), defined by ICD-10 code L93.0.

-Subacute cutaneous lupus erythematosus (SACLE), defined by ICD-10 code L93.1.

-Other lupus erythematosus, defined by ICD-10 code L93.2.

-Systemic lupus erythematosus (SLE) without systemic symptoms, defined as having evidence of M32.9 (SLE) on the index day, with no evidence of M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (drug-induced SLE) from all available history up to 365 days after the index day, alongside evidence of SACLE (L93.1), other LE (L93.2), or DLE (L93.0) within all available data before or after the index day within 365 days.

-Co-occurrence of SLE and DLE, defined as L93.0 (DLE) preceding M32.9 (SLE) with a lag of more than 1 year.

-Mixed CLE, defined as indexing on any of L93.0 (DLE), L93.1 (SACLE), or L93.2 (other LE), with at least one of the other codes appearing on the index date or any time after the index.

-Chilblains with evidence of Systemic Lupus Erythematosus, defined as having evidence of T69.1 (chilblains) on the index day, alongside evidence of SLE (M32.9) at any time before or after the index day.

-We also included cohorts with the indexing event ICD-10 code was recorded by any known provider ID, or the indexing event ICD-10 code was recorded by a known provider whose specialty is known, that is, provider specialty of "unknown" will be excluded, or the indexing event ICD-10 code was recorded by a dermatologist or rheumatologist. Please see the list of provider ID in Appendix C, D, and E.

³Episodes can meet multiple inclusion and/or exclusion criteria; therefore, the total number of episodes excluded overall may not equal the sum of all episodes in each criterion.

Note: Data Partners populate the Provider table and specialist data. However, provider specialty data may not always be available for all diagnosis codes, and some records may lack an associated provider ID. This may occur due to unregistered providers, out-of-area providers, or other data limitations. The completeness of diagnosis codes linked to provider and specialty data varies by data partner.

*****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.

N/A: Not Applicable

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (March 7th, 2025)

Masked DP ID	DP Start Date	DP End Date ¹
DP01	01/01/2004	03/31/2024
DP02	01/01/2008	04/30/2024
DP03	01/01/2006	07/31/2024
DP04	01/01/2007	06/30/2024
DP05	01/01/2000	04/30/2024
DP06	01/01/2000	01/31/2024
DP07	01/01/2005	07/31/2022
DP08	01/01/2000	04/30/2024
DP09	01/01/2000	01/31/2024
DP10	01/01/2000	04/30/2024

¹End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Index Events and Inclusion Requirements in this Request

Code	Description	Code Category	Code Type
Discoid lupus erythematosus			
L93.0	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
Subacute cutaneous lupus erythematosus			
L93.1	Subacute cutaneous lupus erythematosus	Diagnosis	ICD-10-CM
Other lupus erythematosus			
L93.2	Other local lupus erythematosus	Diagnosis	ICD-10-CM
Systemic lupus erythematosus			
M32.9	Systemic lupus erythematosus, unspecified	Diagnosis	ICD-10-CM
Systematic systemic lupus erythematosus			
M32.1	Systemic lupus erythematosus with organ or system involvement	Diagnosis	ICD-10-CM
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified	Diagnosis	ICD-10-CM
M32.11	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.12	Pericarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.13	Lung involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.19	Other organ or system involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
Drug-induced systemic lupus erythematosus			
M32.0	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
Chilblains			
T69.1	Chilblains	Diagnosis	ICD-10-CM
T69.1XXA	Chilblains initial encounter	Diagnosis	ICD-10-CM
T69.1XXD	Chilblains subsequent encounter	Diagnosis	ICD-10-CM
T69.1XXS	Chilblains sequela	Diagnosis	ICD-10-CM

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
1	Physician/General Practice
2	Physician/General Surgery
3	Physician/Allergy/Immunology
4	Physician/Otolaryngology
5	Physician/Anesthesiology
6	Physician/Cardiovascular Disease (Cardiology)
7	Physician/Dermatology
8	Physician/Family Practice
9	Physician/Interventional Pain Management
10	Physician/Gastroenterology
11	Physician/Internal Medicine
12	Physician/Osteopathic Manipulative Medicine
13	Physician/Neurology
14	Physician/Neurosurgery
15	Speech Language Pathologist
16	Physician/Obstetrics & Gynecology
17	Physician/Hospice and Palliative Care
18	Physician/Ophthalmology
19	Oral Surgery (Dentist only)
20	Physician/Orthopedic Surgery
21	Clinical Cardiac Electrophysiology
22	Physician/Pathology
23	Physician/Sports Medicine
24	Physician/Plastic and Reconstructive Surgery
25	Physician/Physical Medicine and Rehabilitation
26	Physician/Psychiatry
27	Physician/Geriatric Psychiatry
28	Physician/Colorectal Surgery (Proctology)
29	Physician/Pulmonary Disease
30	Physician/Diagnostic Radiology
32	Anesthesiology Assistant
33	Physician/Thoracic Surgery
34	Physician/Urology
35	Chiropractic
36	Physician/Nuclear Medicine
37	Physician/Pediatric Medicine
38	Physician/Geriatric Medicine
39	Physician/Nephrology
40	Physician/Hand Surgery
41	Optometry
42	Certified Nurse Midwife
43	Certified Registered Nurse Anesthetist (CRNA)
44	Physician/Infectious Disease

Appendix C. Specialty Visit Codes for Any Specialist, Including Code "99"

Specialty Code	Description
46	Physician/Endocrinology
48	Podiatry
50	Nurse Practitioner
55	Individual Certified Orthotist
56	Individual Certified Prosthetist
57	Individual Certified Prosthetist-Orthotist
62	Psychologist, Clinical
64	Audiologist
65	Physical Therapist in Private Practice
66	Physician/Rheumatology
67	Occupational Therapist in Private Practice
71	Registered Dietitian or Nutrition Professional
72	Physician/Pain Management
76	Physician/Peripheral Vascular Disease
77	Physician/Vascular Surgery
78	Physician/Cardiac Surgery
79	Physician/Addiction Medicine
80	Licensed Clinical Social Worker
81	Physician/Critical Care (Intensivists)
82	Physician/Hematology
83	Physician/Hematology-Oncology
84	Physician/Preventive Medicine
85	Physician/Maxillofacial Surgery
86	Physician/Neuropsychiatry
89	Certified Clinical Nurse Specialist
90	Physician/Medical Oncology
91	Physician/Surgical Oncology
92	Physician/Radiation Oncology
93	Physician/Emergency Medicine
94	Physician/Interventional Radiology
96	Optician
97	Physician Assistant
98	Physician/Gynecological Oncology
99	Undefined/Unknown provider type
B2	Pedorthic personnel
C0	Physician/Sleep Medicine
C3	Physician/Interventional Cardiology
C5	Dentist
C6	Physician/Hospitalist
C7	Physician/Advanced Heart Failure and Transplant Cardiology
C8	Physician/Medical Toxicology
C9	Hematopoietic Cell Transplantation and Cellular Therapy
103T00000X	Behavioral Health & Social Service Providers/Psychologist

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
103TA0400X	Behavioral Health & Social Service Providers/Psychologist, Addiction (Substance Abuse Disorder)
103TA0700X	Behavioral Health & Social Service Providers/Psychologist, Adult Development & Aging
103TB0200X	Behavioral Health & Social Service Providers/Psychologist, Cognitive & Behavioral
103TC0700X	Behavioral Health & Social Service Providers/Psychologist, Clinical
103TC1900X	Behavioral Health & Social Service Providers/Psychologist, Counseling
103TC2200X	Behavioral Health & Social Service Providers/Psychologist, Clinical Child & Adolescent
103TE1000X	Behavioral Health & Social Service Providers/Psychologist, Educational
103TE1100X	Behavioral Health & Social Service Providers/Psychologist, Exercise & Sports
103TF0000X	Behavioral Health & Social Service Providers/Psychologist, Family
103TF0200X	Behavioral Health & Social Service Providers/Psychologist, Forensic
103TH0004X	Behavioral Health & Social Service Providers/Psychologist, Health
103TH0100X	Behavioral Health & Social Service Providers/Psychologist, Health Service
103TM1700X	Behavioral Health & Social Service Providers/Psychologist, Men & Masculinity
103TM1800X	Behavioral Health & Social Service Providers/Psychologist, Mental Retardation & Developmental Disabilities
103TP0016X	Behavioral Health & Social Service Providers/Psychologist, Prescribing (Medical)
103TP0814X	Behavioral Health & Social Service Providers/Psychologist, Psychoanalysis
103TP2700X	Behavioral Health & Social Service Providers/Psychologist, Psychotherapy
103TP2701X	Behavioral Health & Social Service Providers/Psychologist, Group Psychotherapy
103TR0400X	Behavioral Health & Social Service Providers/Psychologist, Rehabilitation
103TS0200X	Behavioral Health & Social Service Providers/Psychologist, School
103TW0100X	Behavioral Health & Social Service Providers/Psychologist, Women
106E00000X	Behavioral Health & Social Service Providers/Assistant Behavior Analyst
106S00000X	Behavioral Health & Social Service Providers/Technician
111N00000X	Chiropractic Providers/Chiropractor
111NI0013X	Chiropractic Providers/Chiropractor, Independent Medical Examiner
111NI0900X	Chiropractic Providers/Chiropractor, Internist
111NN0400X	Chiropractic Providers/Chiropractor, Neurology
111NN1001X	Chiropractic Providers/Chiropractor, Nutrition
111NP0017X	Chiropractic Providers/Chiropractor, Pediatric Chiropractor
111NR0200X	Chiropractic Providers/Chiropractor, Radiology
111NR0400X	Chiropractic Providers/Chiropractor, Rehabilitation
111NS0005X	Chiropractic Providers/Chiropractor, Sports Physician
111NT0100X	Chiropractic Providers/Chiropractor, Thermography
111NX0100X	Chiropractic Providers/Chiropractor, Occupational Medicine
111NX0800X	Chiropractic Providers/Chiropractor, Orthopedic
1223S0112X	Allopathic & Osteopathic Physicians/Ophthalmology, Dental Providers/Dentist, Oral & Maxillofacial Surgery
133V00000X	Dietary & Nutritional Service Providers/Dietician, Registered
133VN1004X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Pediatric
133VN1005X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Renal
133VN1006X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Metabolic
152W00000X	Eye and Vision Service Providers/Optomist

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
152WC0802X	Eye and Vision Service Providers/Optomtrist, Corneal and Contact Management
152WL0500X	Eye and Vision Service Providers/Optomtrist, Low Vision Rehabilitation
152WP0200X	Eye and Vision Service Providers/Optomtrist, Pediatrics
152WS0006X	Eye and Vision Service Providers/Optomtrist, Sports Vision
152WV0400X	Eye and Vision Service Providers/Optomtrist, Vision Therapy
152WX0102X	Eye and Vision Service Providers/Optomtrist, Occupational Vision
204C00000X	Allopathic & Osteopathic Physicians/Neuromusculoskeletal Medicine, Sports Medicine
204D00000X	Allopathic & Osteopathic Physicians/Neuromusculoskeletal Medicine & OMM
204E00000X	Allopathic & Osteopathic Physicians/Oral & Maxillofacial Surgery
204F00000X	Allopathic & Osteopathic Physicians/Transplant Surgery
207K00000X	Allopathic & Osteopathic Physicians/Allergy and Immunology
207KA0200X	Allopathic & Osteopathic Physicians/Allergy and Immunology/Allergy
207KI0005X	Allopathic & Osteopathic Physicians/Allergy and Immunology/Clinical & Laboratory Immunology
207L00000X	Allopathic & Osteopathic Physicians/Anesthesiology, Addiction Medicine
207LA0401X	Allopathic & Osteopathic Physicians/Anesthesiology/Addiction Medicine
207LC0200X	Allopathic & Osteopathic Physicians/Anesthesiology/Critical Care Medicine
207LH0002X	Allopathic & Osteopathic Physicians/Anesthesiology/Hospice and Palliative Medicine
207LP2900X	Allopathic & Osteopathic Physicians/Anesthesiology/Pain Medicine
207LP3000X	Allopathic & Osteopathic Physicians/Anesthesiology/Pediatric Anesthesiology
207N00000X	Allopathic & Osteopathic Physicians/Dermatology
207ND0101X	Allopathic & Osteopathic Physicians/Dermatology, MOHS-Micrographic Surgery
207ND0900X	Allopathic & Osteopathic Physicians/Dermatology, Dermopathology
207NI0002X	Allopathic & Osteopathic Physicians/Dermatology, Clinical & Laboratory Dermatological Immunology
207NP0225X	Allopathic & Osteopathic Physicians/Dermatology, Pediatric Dermatology
207NS0135X	Allopathic & Osteopathic Physicians/Dermatology, Procedural Dermatology
207PH0002X	Allopathic & Osteopathic Physicians/Emergency Medicine, Hospice and Palliative Medicine
207PS0010X	Allopathic & Osteopathic Physicians/Emergency Medicine, Sports Medicine
207Q00000X	Allopathic & Osteopathic Physicians/Family Medicine
207QA0000X	Allopathic & Osteopathic Physicians/Family Medicine, Adolescent Medicine
207QA0401X	Allopathic & Osteopathic Physicians/Family Medicine, Addiction Medicine
207QA0505X	Allopathic & Osteopathic Physicians/Family Medicine, Adult Medicine
207QB0002X	Allopathic & Osteopathic Physicians/Family Medicine, Bariatric Medicine
207QG0300X	Allopathic & Osteopathic Physicians/Family Medicine, Geriatric Medicine
207QH0002X	Allopathic & Osteopathic Physicians/Family Medicine, Hospice and Palliative Medicine
207QS0010X	Allopathic & Osteopathic Physicians/Family Medicine, Sports Medicine
207QS1201X	Allopathic & Osteopathic Physicians/Family Medicine, Sleep Medicine
207R00000X	Allopathic & Osteopathic Physicians/Internal Medicine
207RA0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Adolescent Medicine
207RA0001X	Allopathic & Osteopathic Physicians/Advanced Heart Failure and Transplant Cardiology
207RA0201X	Allopathic & Osteopathic Physicians/Internal Medicine, Allergy & Immunology
207RA0401X	Allopathic & Osteopathic Physicians/Internal Medicine, Addiction Medicine
207RB0002X	Allopathic & Osteopathic Physicians/Internal Medicine, Bariatric Medicine
207RC0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Cardiovascular Disease

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
207RC0001X	Allopathic & Osteopathic Physicians/Internal Medicine, Clinical Cardiac Electrophysiology
207RC0200X	Allopathic & Osteopathic Physicians/Internal Medicine, Critical Care Medicine
207RE0101X	Allopathic & Osteopathic Physicians/Internal Medicine, Endocrinology, Diabetes & Metabolism
207RG0100X	Allopathic & Osteopathic Physicians/Internal Medicine, Gastroenterology
207RG0300X	Allopathic & Osteopathic Physicians/Internal Medicine, Geriatric Medicine
207RH0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Hematology
207RH0002X	Allopathic & Osteopathic Physicians/Internal Medicine, Hospice and Palliative Medicine
207RH0003X	Allopathic & Osteopathic Physicians/Internal Medicine, Hematology & Oncology
207RI0001X	Allopathic & Osteopathic Physicians/Internal Medicine, Clinical & Laboratory Immunology
207RI0008X	Allopathic & Osteopathic Physicians/Internal Medicine, Hepatology
207RI0200X	Allopathic & Osteopathic Physicians/Internal Medicine, Infectious Disease
207RM1200X	Allopathic & Osteopathic Physicians/Internal Medicine, Magnetic Resonance Imaging (MRI)
207RN0300X	Allopathic & Osteopathic Physicians/Internal Medicine, Nephrology
207RP1001X	Allopathic & Osteopathic Physicians/Internal Medicine, Pulmonary Disease
207RR0500X	Allopathic & Osteopathic Physicians/Internal Medicine, Rheumatology
207RS0010X	Allopathic & Osteopathic Physicians/Internal Medicine, Sports Medicine
207RS0012X	Allopathic & Osteopathic Physicians/Internal Medicine, Sleep Medicine
207RT0003X	Allopathic & Osteopathic Physicians/Internal Medicine, Transplant Hepatology
207RX0202X	Allopathic & Osteopathic Physicians/Internal Medicine, Medical Oncology
207T00000X	Allopathic & Osteopathic Physicians/Neurological Surgery
207U00000X	Allopathic & Osteopathic Physicians/Nuclear Medicine
207UN0901X	Allopathic & Osteopathic Physicians/Nuclear Medicine, Nuclear Cardiology
207UN0902X	Allopathic & Osteopathic Physicians/Nuclear Medicine, Nuclear Imaging & Therapy
207UN0903X	Allopathic & Osteopathic Physicians/Nuclear Medicine, In Vivo & In Vitro Nuclear Medicine
207V00000X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology
207VB0002X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Bariatric Medicine
207VC0200X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Critical Care Medicine
207VE0102X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Reproductive Endocrinology
207VF0040X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Female Pelvic Medicine and Reconstructive Surgery
207VG0400X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Gynecology
207VH0002X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Hospice and Palliative Medicine
207VM0101X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Maternal & Fetal Medicine
207VX0000X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Obstetrics
207VX0201X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Gynecologic Oncology
207W00000X	Allopathic & Osteopathic Physicians/Ophthalmology
207WX0009X	Allopathic & Osteopathic Physicians/Ophthalmology, Glaucoma Specialist
207WX0107X	Allopathic & Osteopathic Physicians/Ophthalmology, Retina Specialist
207WX0108X	Allopathic & Osteopathic Physicians/Ophthalmology, Uveitis and Ocular Inflammatory Disease
207WX0109X	Allopathic & Osteopathic Physicians/Ophthalmology/Neuro-ophthalmology
207WX0110X	Allopathic & Osteopathic Physicians/Ophthalmology/Pediatric Ophthalmology and Strabismus Specialist
207WX0120X	Allopathic & Osteopathic Physicians/Ophthalmology, Cornea and External Diseases Specialist

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
207WX0200X	Allopathic & Osteopathic Physicians/Ophthalmic Plastic and Reconstructive Surgery
207X00000X	Allopathic & Osteopathic Physicians/Orthopedic Surgery
207XP3100X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Pediatric Orthopedic Surgery
207XS0106X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Hand Surgery
207XS0114X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Adult Reconstructive Orthopedic Surgery
207XS0117X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Orthopedic Surgery of the Spine
207XX0004X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Foot and Ankle Surgery
207XX0005X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Sports Medicine
207XX0801X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Orthopedic Trauma
207Y00000X	Allopathic & Osteopathic Physicians/ Otolaryngology
207YP0228X	Allopathic & Osteopathic Physicians/Otolaryngology/Pediatric Otolaryngology
207YS0012X	Allopathic & Osteopathic Physicians/Otolaryngology/Sleep Medicine
207YS0123X	Allopathic & Osteopathic Physicians/ Otolaryngology/Facial Plastic Surgery
207YX0007X	Allopathic & Osteopathic Physicians/Otolaryngology/Plastic Surgery within the Head & Neck
207YX0602X	Allopathic & Osteopathic Physicians/Otolaryngology/Otolaryngic Allergy
207YX0901X	Allopathic & Osteopathic Physicians/Otolaryngology/Otology &Neurotology
207YX0905X	Allopathic & Osteopathic Physicians/Otolaryngology/Otolaryngology/Facial Plastic Surgery
207ZB0001X	Allopathic & Osteopathic Physicians/Pathology, Blood Banking & Transfusion Medicine
207ZC0006X	Allopathic & Osteopathic Physicians/Pathology, Clinical Pathology
207ZC0500X	Allopathic & Osteopathic Physicians/Pathology, Cytopathology
207ZD0900X	Allopathic & Osteopathic Physicians/Pathology, Dermopathology
207ZF0201X	Allopathic & Osteopathic Physicians/Pathology, Forensic Pathology
207ZH0000X	Allopathic & Osteopathic Physicians/Pathology, Hematology
207ZI0100X	Allopathic & Osteopathic Physicians/Pathology, Immunopathology
207ZM0300X	Allopathic & Osteopathic Physicians/Pathology, Medical Microbiology
207ZN0500X	Allopathic & Osteopathic Physicians/Pathology, Neuropathology
207ZP0007X	Allopathic & Osteopathic Physicians/Pathology, Molecular Genetic Pathology
207ZP0101X	Allopathic & Osteopathic Physicians/Pathology, Anatomic Pathology
207ZP0102X	Allopathic & Osteopathic Physicians/Pathology, Anatomic Pathology & Clinical Pathology
207ZP0104X	Allopathic & Osteopathic Physicians/Pathology, Chemical Pathology
207ZP0105X	Allopathic & Osteopathic Physicians/Pathology, Clinical Pathology/Laboratory Medicine
207ZP0213X	Allopathic & Osteopathic Physicians/Pathology, Pediatric Pathology
208000000X	Allopathic & Osteopathic Physicians/Pediatrics
2080A0000X	Allopathic & Osteopathic Physicians/Pediatrics, Adolescent Medicine
2080H0002X	Allopathic & Osteopathic Physicians/Pediatrics, Hospice and Palliative Medicine
2080I0007X	Allopathic & Osteopathic Physicians/Pediatrics, Clinical & Laboratory Immunology
2080N0001X	Allopathic & Osteopathic Physicians/Pediatrics, Neonatal-Perinatal Medicine
2080P0006X	Allopathic & Osteopathic Physicians/Pediatrics, Developmental Behavioral Pediatrics
2080P0008X	Allopathic & Osteopathic Physicians/Pediatrics, Neurodevelopmental Disabilities
2080P0201X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Allergy & Immunology
2080P0202X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Cardiology
2080P0203X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Critical Care Medicine
2080P0204X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Emergency Medicine

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
2080P0205X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Endocrinology
2080P0206X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Gastroenterology
2080P0207X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Hematology-Oncology
2080P0208X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Infectious Diseases
2080P0210X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Nephrology
2080P0214X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Pulmonology
2080P0216X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Rheumatology
2080S0010X	Allopathic & Osteopathic Physicians/Pediatrics, Sports Medicine
2080S0012X	Allopathic & Osteopathic Physicians/Pediatrics, Sleep Medicine
2080T0002X	Allopathic & Osteopathic Physicians/Pediatrics, Medical Toxicology
2080T0004X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Transplant Hepatology
208100000X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation
2081H0002X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Hospice and Palliative Medicine
2081N0008X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Neuromuscular Medicine
2081P0004X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Spinal Cord Injury Medicine
2081P0010X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Pediatric Rehabilitation Medicine
2081P0301X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Brain Injury
2081P2900X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Pain Medicine
2081S0010X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Sports Medicine
208200000X	Allopathic & Osteopathic Physicians/Plastic Surgery
2082S0099X	Allopathic & Osteopathic Physicians/Plastic Surgery, Plastic Surgery Within the Head and Neck
2082S0105X	Allopathic & Osteopathic Physicians/Plastic Surgery, Surgery of the Hand
2083S0010X	Allopathic & Osteopathic Physicians/Preventive Medicine, Sports Medicine
2084A2900X	Allopathic & Osteopathic Physicians/Psychiatry & Neurology/Neurocritical Care
2084H0002X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Hospice & Palliative Medicine
2084N0400X	Allopathic & Osteopathic Physicians/Psychiatry and Neurology, Neurology
2084N0402X	Allopathic & Osteopathic Physicians/Psychiatry and Neurology, Neurology with Special Qualifications in Child Neurology
2084P0301X	Allopathic & Osteopathic Physicians/Psychiatry & Neurology/Respiratory, Developmental, Rehabilitative and Restorative Service, Brain Injury Medicine
2084P0800X	Allopathic & Osteopathic Physicians/Psychiatry
2084S0010X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Sports Medicine
2085R0202X	Allopathic & Osteopathic Physicians/Radiology, Diagnostic Radiology
208600000X	Allopathic & Osteopathic Physicians/Surgery
2086H0002X	Allopathic & Osteopathic Physicians/Surgery/Hospice and Palliative Medicine, General Surgery
2086S0102X	Allopathic & Osteopathic Physicians/Surgery/Surgical Critical Care
2086S0105X	Allopathic & Osteopathic Physicians/Surgery, Surgery of the Hand
2086S0120X	Allopathic & Osteopathic Physicians/Surgery/Pediatric Surgery
2086S0122X	Allopathic & Osteopathic Physicians/Surgery/Plastic and Reconstructive Surgery
2086S0127X	Allopathic & Osteopathic Physicians/Surgery/Trauma Surgery

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
2086S0129X	Allopathic & Osteopathic Physicians/Surgery/Vascular Surgery
2086X0206X	Allopathic & Osteopathic Physicians/Surgery/Surgical Oncology
208800000X	Allopathic & Osteopathic Physicians/Urology
2088F0040X	Female Pelvic Medicine & Reconstructive Surgery
2088P0231X	Allopathic & Osteopathic Physicians/Urology, Pediatric Urology
208C00000X	Allopathic & Osteopathic Physicians/Colon & Rectal Surgery
208D00000X	Allopathic & Osteopathic Physicians/General Practice
208G00000X	Allopathic & Osteopathic Physicians/Thoracic Surgery (Cardiothoracic Vascular Surgery)
208VP0000X	Allopathic & Osteopathic Physicians/Pain Medicine, Pain Medicine
208VP0014X	Allopathic & Osteopathic Physicians/Pain Medicine, Interventional Pain Medicine
213E00000X	Podiatric Medicine & Surgery Service Providers/Podiatrist
213EG0000X	Podiatric Medicine & Surgery Service Providers/Podiatrist, General Practice
213EP0504X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Public Medicine
213EP1101X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Primary Podiatric Medicine
213ER0200X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Radiology
213ES0000X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Sports Medicine
213ES0103X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Foot & Ankle Surgery
213ES0131X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Foot Surgery
222Z00000X	Respiratory, Developmental, Rehabilitative, and Restorative Service Providers/Orthotist
224P00000X	Respiratory, Developmental, Rehabilitative, and Restorative Service Providers/Prosthetist
225100000X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist
2251C2600X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Cardiopulmonary
2251E1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Ergonomics
2251E1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Electrophysiology, Clinical
2251G0304X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Geriatrics
2251H1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Hand
2251H1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Human Factors
2251N0400X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Neurology
2251P0200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Pediatrics
2251S0007X	Respiratory, Rehabilitative & Restorative Service Providers/Physical Therapist, Sports
2251X0800X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Orthopedic
225X00000X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist
225XE0001X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist,

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
	Environmental Modification
225XE1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Ergonomics
225XF0002X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Feeding, Eating & Swallowing
225XG0600X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Gerontology
225XH1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Hand
225XH1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Human Factors
225XL0004X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Low Vision
225XM0800X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Mental Health
225XN1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Neurorehabilitation
225XP0019X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Physical Rehabilitation
225XP0200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Pediatrics
225XR0403X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Driving and Community Mobility
231H00000X	Speech, Language and Hearing Service Providers/Audiologist
231HA2400X	Speech, Language and Hearing Service Providers/Audiologist, Assistive Technology Practitioner
235Z00000X	Speech, Language and Hearing Service Providers
363L00000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner
363LA2100X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Acute Care
363LA2200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Adult Health
363LC0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Critical Care Medicine
363LC1500X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Community Health
363LF0000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Family
363LG0600X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Gerontology
363LN0000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Neonatal
363LN0005X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Neonatal, Critical Care
363LP0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Pediatrics
363LP0222X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Pediatrics, Critical Care

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
363LP0808X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Psychiatric/Mental Health
363LP1700X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Perinatal
363LP2300X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Primary Care
363LS0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, School
363LW0102X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Women's Health
363LX0001X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Obstetrics & Gynecology
363LX0106X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Occupational Health
367500000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Anesthetist, Certified Registered
367A00000X	Physician Assistants & Advanced Practice Nursing Providers/Midwife, Certified Nurse
367H00000X	Physician Assistants & Advanced Practice Nursing Providers/Anesthesiologist Assistant
156FX1800X	Eye & Vision Service Providers/Technician/Technologist, Optician
1041C0700X	Behavioral Health & Social Service Providers/Social Worker, Clinical
122300000X	Allopathic & Osteopathic Physicians/Ophthalmology, Dental Providers/Dentist
207P00000X	Allopathic & Osteopathic Physicians/Emergency Medicine
207PE0004X	Allopathic & Osteopathic Physicians/Emergency Medicine, Emergency Medical Services
207PE0005X	Allopathic & Osteopathic Physicians/Emergency Medicine, Undersea and Hyperbaric Medicine
207PP0204X	Allopathic & Osteopathic Physicians/Emergency Medicine, Pediatric Emergency Medicine
207PT0002X	Allopathic & Osteopathic Physicians/Emergency Medicine, Medical Toxicology
207RI0011X	Allopathic & Osteopathic Physicians/Internal Medicine, Interventional Cardiology
2083A0100X	Allopathic & Osteopathic Physicians/Preventive Medicine, Aerospace Medicine
2083P0011X	Allopathic & Osteopathic Physicians/Preventive Medicine, Undersea and Hyperbaric Medicine
2083P0500X	Allopathic & Osteopathic Physicians/Preventive Medicine, Preventive Medicine/Occupational Environmental Medicine
2083P0901X	Allopathic & Osteopathic Physicians/Preventive Medicine, Public Health & General Preventive Medicine
2083X0100X	Allopathic & Osteopathic Physicians/Preventive Medicine, Occupational Medicine
2084A0401X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology
2083T0002X	Allopathic & Osteopathic Physicians/Preventive Medicine, Medical Toxicology
2084B0002X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Bariatric Medicine
2084D0003X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Diagnostic Neuroimaging
2084F0202X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Forensic Psychiatry
2084N0008X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Neuromuscular Medicine
2084N0600X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Clinical Neurophysiology
2084P0005X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Neurodevelopmental Disabilities
2084P0015X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Psychosomatic Medicine
2084P0802X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Addiction Psychiatry
2084P0804X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Child & Adolescent Psychiatry
2084P0805X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Geriatric Psychiatry
2084P2900X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Pain Medicine
2084S0012X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Sleep Medicine

Appendix C. Specialty Visit Codes for Any Specialist, Including Code "99"

Specialty Code	Description
2084V0102X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Vascular Neurology
2085H0002X	Hospice & Palliative Medicine
2085R0001X	Allopathic & Osteopathic Physicians/Radiology, Radiation Oncology
2085R0204X	Allopathic & Osteopathic Physicians/Radiology, Vascular and Interventional Radiology
208M00000X	Allopathic & Osteopathic Physicians/Hospitalist
247200000X	Technologists, Technicians & Other Technical Service Providers/Technician, Other
363A00000X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant
363AM0700X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant, Medical
363AS0400X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant, Surgical
364S00000X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist
364SA2100X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Acute Care
364SA2200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Adult Health
364SC0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Critical Care Medicine
364SC1501X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Community Health/Public Health
364SC2300X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Chronic Care
364SE0003X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Emergency
364SE1400X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Ethics
364SF0001X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Family Health
364SG0600X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Gerontology
364SH0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Home Health
364SH1100X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Holistic
364SI0800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Informatics
364SL0600X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Long-term Care
364SM0705X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Medical-Surgical
364SN0000X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Neonatal
364SN0800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Neuroscience
364SP0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Pediatrics
364SP0807X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Child & Adolescent
364SP0808X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health
364SP0809X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Adult
364SP0810X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Child & Family

Appendix C. Specialty Visit Codes for Any Specialist, Including Code “99”

Specialty Code	Description
364SP0811X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Chronically Ill
364SP0812X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Community
364SP0813X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Geropsychiatric
364SP1700X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Perinatal
364SP2800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Perioperative
364SR0400X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Rehabilitation
364SS0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, School
364ST0500X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Transplantation
364SW0102X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Women's Health
364SX0106X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Occupational Health
364SX0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Oncology
364SX0204X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Oncology, Pediatrics

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
1	Physician/General Practice
2	Physician/General Surgery
3	Physician/Allergy/Immunology
4	Physician/Otolaryngology
5	Physician/Anesthesiology
6	Physician/Cardiovascular Disease (Cardiology)
7	Physician/Dermatology
8	Physician/Family Practice
9	Physician/Interventional Pain Management
10	Physician/Gastroenterology
11	Physician/Internal Medicine
12	Physician/Osteopathic Manipulative Medicine
13	Physician/Neurology
14	Physician/Neurosurgery
15	Speech Language Pathologist
16	Physician/Obstetrics & Gynecology
17	Physician/Hospice and Palliative Care
18	Physician/Ophthalmology
19	Oral Surgery (Dentist only)
20	Physician/Orthopedic Surgery
21	Clinical Cardiac Electrophysiology
22	Physician/Pathology
23	Physician/Sports Medicine
24	Physician/Plastic and Reconstructive Surgery
25	Physician/Physical Medicine and Rehabilitation
26	Physician/Psychiatry
27	Physician/Geriatric Psychiatry
28	Physician/Colorectal Surgery (Proctology)
29	Physician/Pulmonary Disease
30	Physician/Diagnostic Radiology
32	Anesthesiology Assistant
33	Physician/Thoracic Surgery
34	Physician/Urology
35	Chiropractic
36	Physician/Nuclear Medicine
37	Physician/Pediatric Medicine
38	Physician/Geriatric Medicine
39	Physician/Nephrology
40	Physician/Hand Surgery
41	Optometry
42	Certified Nurse Midwife
43	Certified Registered Nurse Anesthetist (CRNA)
44	Physician/Infectious Disease

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
46	Physician/Endocrinology
48	Podiatry
50	Nurse Practitioner
55	Individual Certified Orthotist
56	Individual Certified Prosthetist
57	Individual Certified Prosthetist-Orthotist
62	Psychologist, Clinical
64	Audiologist
65	Physical Therapist in Private Practice
66	Physician/Rheumatology
67	Occupational Therapist in Private Practice
71	Registered Dietitian or Nutrition Professional
72	Physician/Pain Management
76	Physician/Peripheral Vascular Disease
77	Physician/Vascular Surgery
78	Physician/Cardiac Surgery
79	Physician/Addiction Medicine
80	Licensed Clinical Social Worker
81	Physician/Critical Care (Intensivists)
82	Physician/Hematology
83	Physician/Hematology-Oncology
84	Physician/Preventive Medicine
85	Physician/Maxillofacial Surgery
86	Physician/Neuropsychiatry
89	Certified Clinical Nurse Specialist
90	Physician/Medical Oncology
91	Physician/Surgical Oncology
92	Physician/Radiation Oncology
93	Physician/Emergency Medicine
94	Physician/Interventional Radiology
96	Optician
97	Physician Assistant
98	Physician/Gynecological Oncology
B2	Pedorthic personnel
C0	Physician/Sleep Medicine
C3	Physician/Interventional Cardiology
C5	Dentist
C6	Physician/Hospitalist
C7	Physician/Advanced Heart Failure and Transplant Cardiology
C8	Physician/Medical Toxicology
C9	Hematopoietic Cell Transplantation and Cellular Therapy
103T00000X	Behavioral Health & Social Service Providers/Psychologist

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
103TA0400X	Behavioral Health & Social Service Providers/Psychologist, Addiction (Substance Abuse Disorder)
103TA0700X	Behavioral Health & Social Service Providers/Psychologist, Adult Development & Aging
103TB0200X	Behavioral Health & Social Service Providers/Psychologist, Cognitive & Behavioral
103TC0700X	Behavioral Health & Social Service Providers/Psychologist, Clinical
103TC1900X	Behavioral Health & Social Service Providers/Psychologist, Counseling
103TC2200X	Behavioral Health & Social Service Providers/Psychologist, Clinical Child & Adolescent
103TE1000X	Behavioral Health & Social Service Providers/Psychologist, Educational
103TE1100X	Behavioral Health & Social Service Providers/Psychologist, Exercise & Sports
103TF0000X	Behavioral Health & Social Service Providers/Psychologist, Family
103TF0200X	Behavioral Health & Social Service Providers/Psychologist, Forensic
103TH0004X	Behavioral Health & Social Service Providers/Psychologist, Health
103TH0100X	Behavioral Health & Social Service Providers/Psychologist, Health Service
103TM1700X	Behavioral Health & Social Service Providers/Psychologist, Men & Masculinity
103TM1800X	Behavioral Health & Social Service Providers/Psychologist, Mental Retardation & Developmental Disabilities
103TP0016X	Behavioral Health & Social Service Providers/Psychologist, Prescribing (Medical)
103TP0814X	Behavioral Health & Social Service Providers/Psychologist, Psychoanalysis
103TP2700X	Behavioral Health & Social Service Providers/Psychologist, Psychotherapy
103TP2701X	Behavioral Health & Social Service Providers/Psychologist, Group Psychotherapy
103TR0400X	Behavioral Health & Social Service Providers/Psychologist, Rehabilitation
103TS0200X	Behavioral Health & Social Service Providers/Psychologist, School
103TW0100X	Behavioral Health & Social Service Providers/Psychologist, Women
106E00000X	Behavioral Health & Social Service Providers/Assistant Behavior Analyst
106S00000X	Behavioral Health & Social Service Providers/Technician
111N00000X	Chiropractic Providers/Chiropractor
111NI0013X	Chiropractic Providers/Chiropractor, Independent Medical Examiner
111NI0900X	Chiropractic Providers/Chiropractor, Internist
111NN0400X	Chiropractic Providers/Chiropractor, Neurology
111NN1001X	Chiropractic Providers/Chiropractor, Nutrition
111NP0017X	Chiropractic Providers/Chiropractor, Pediatric Chiropractor
111NR0200X	Chiropractic Providers/Chiropractor, Radiology
111NR0400X	Chiropractic Providers/Chiropractor, Rehabilitation
111NS0005X	Chiropractic Providers/Chiropractor, Sports Physician
111NT0100X	Chiropractic Providers/Chiropractor, Thermography
111NX0100X	Chiropractic Providers/Chiropractor, Occupational Medicine
111NX0800X	Chiropractic Providers/Chiropractor, Orthopedic
1223S0112X	Allopathic & Osteopathic Physicians/Ophthalmology, Dental Providers/Dentist, Oral & Maxillofacial Surgery
133V00000X	Dietary & Nutritional Service Providers/Dietician, Registered
133VN1004X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Pediatric

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
133VN1005X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Renal
133VN1006X	Dietary & Nutritional Service Providers/Dietician, Registered, Nutrition, Metabolic
152W00000X	Eye and Vision Service Providers/Optommetrist
152WC0802X	Eye and Vision Service Providers/Optommetrist, Corneal and Contact Management
152WL0500X	Eye and Vision Service Providers/Optommetrist, Low Vision Rehabilitation
152WP0200X	Eye and Vision Service Providers/Optommetrist, Pediatrics
152WS0006X	Eye and Vision Service Providers/Optommetrist, Sports Vision
152WV0400X	Eye and Vision Service Providers/Optommetrist, Vision Therapy
152WX0102X	Eye and Vision Service Providers/Optommetrist, Occupational Vision
204C00000X	Allopathic & Osteopathic Physicians/Neuromusculoskeletal Medicine, Sports Medicine
204D00000X	Allopathic & Osteopathic Physicians/Neuromusculoskeletal Medicine & OMM
204E00000X	Allopathic & Osteopathic Physicians/Oral & Maxillofacial Surgery
204F00000X	Allopathic & Osteopathic Physicians/Transplant Surgery
207K00000X	Allopathic & Osteopathic Physicians/Allergy and Immunology
207KA0200X	Allopathic & Osteopathic Physicians/Allergy and Immunology/Allergy
207KI0005X	Allopathic & Osteopathic Physicians/Allergy and Immunology/Clinical & Laboratory Immunology
207L00000X	Allopathic & Osteopathic Physicians/Anesthesiology, Addiction Medicine
207LA0401X	Allopathic & Osteopathic Physicians/Anesthesiology/Addiction Medicine
207LC0200X	Allopathic & Osteopathic Physicians/Anesthesiology/Critical Care Medicine
207LH0002X	Allopathic & Osteopathic Physicians/Anesthesiology/Hospice and Palliative Medicine
207LP2900X	Allopathic & Osteopathic Physicians/Anesthesiology/Pain Medicine
207LP3000X	Allopathic & Osteopathic Physicians/Anesthesiology/Pediatric Anesthesiology
207N00000X	Allopathic & Osteopathic Physicians/Dermatology
207ND0101X	Allopathic & Osteopathic Physicians/Dermatology, MOHS-Micrographic Surgery
207ND0900X	Allopathic & Osteopathic Physicians/Dermatology, Dermopathology
207NI0002X	Allopathic & Osteopathic Physicians/Dermatology, Clinical & Laboratory Dermatological Immunology
207NP0225X	Allopathic & Osteopathic Physicians/Dermatology, Pediatric Dermatology
207NS0135X	Allopathic & Osteopathic Physicians/Dermatology, Procedural Dermatology
207PH0002X	Allopathic & Osteopathic Physicians/Emergency Medicine, Hospice and Palliative Medicine
207PS0010X	Allopathic & Osteopathic Physicians/Emergency Medicine, Sports Medicine
207Q00000X	Allopathic & Osteopathic Physicians/Family Medicine
207QA0000X	Allopathic & Osteopathic Physicians/Family Medicine, Adolescent Medicine
207QA0401X	Allopathic & Osteopathic Physicians/Family Medicine, Addiction Medicine
207QA0505X	Allopathic & Osteopathic Physicians/Family Medicine, Adult Medicine
207QB0002X	Allopathic & Osteopathic Physicians/Family Medicine, Bariatric Medicine
207QG0300X	Allopathic & Osteopathic Physicians/Family Medicine, Geriatric Medicine
207QH0002X	Allopathic & Osteopathic Physicians/Family Medicine, Hospice and Palliative Medicine
207QS0010X	Allopathic & Osteopathic Physicians/Family Medicine, Sports Medicine
207QS1201X	Allopathic & Osteopathic Physicians/Family Medicine, Sleep Medicine
207R00000X	Allopathic & Osteopathic Physicians/Internal Medicine
207RA0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Adolescent Medicine

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
207RA0001X	Allopathic & Osteopathic Physicians/Advanced Heart Failure and Transplant Cardiology
207RA0201X	Allopathic & Osteopathic Physicians/Internal Medicine, Allergy & Immunology
207RA0401X	Allopathic & Osteopathic Physicians/Internal Medicine, Addiction Medicine
207RB0002X	Allopathic & Osteopathic Physicians/Internal Medicine, Bariatric Medicine
207RC0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Cardiovascular Disease
207RC0001X	Allopathic & Osteopathic Physicians/Internal Medicine, Clinical Cardiac Electrophysiology
207RC0200X	Allopathic & Osteopathic Physicians/Internal Medicine, Critical Care Medicine
207RE0101X	Allopathic & Osteopathic Physicians/Internal Medicine, Endocrinology, Diabetes & Metabolism
207RG0100X	Allopathic & Osteopathic Physicians/Internal Medicine, Gastroenterology
207RG0300X	Allopathic & Osteopathic Physicians/Internal Medicine, Geriatric Medicine
207RH0000X	Allopathic & Osteopathic Physicians/Internal Medicine, Hematology
207RH0002X	Allopathic & Osteopathic Physicians/Internal Medicine, Hospice and Palliative Medicine
207RH0003X	Allopathic & Osteopathic Physicians/Internal Medicine, Hematology & Oncology
207RI0001X	Allopathic & Osteopathic Physicians/Internal Medicine, Clinical & Laboratory Immunology
207RI0008X	Allopathic & Osteopathic Physicians/Internal Medicine, Hepatology
207RI0200X	Allopathic & Osteopathic Physicians/Internal Medicine, Infectious Disease
207RM1200X	Allopathic & Osteopathic Physicians/Internal Medicine, Magnetic Resonance Imaging (MRI)
207RN0300X	Allopathic & Osteopathic Physicians/Internal Medicine, Nephrology
207RP1001X	Allopathic & Osteopathic Physicians/Internal Medicine, Pulmonary Disease
207RR0500X	Allopathic & Osteopathic Physicians/Internal Medicine, Rheumatology
207RS0010X	Allopathic & Osteopathic Physicians/Internal Medicine, Sports Medicine
207RS0012X	Allopathic & Osteopathic Physicians/Internal Medicine, Sleep Medicine
207RT0003X	Allopathic & Osteopathic Physicians/Internal Medicine, Transplant Hepatology
207RX0202X	Allopathic & Osteopathic Physicians/Internal Medicine, Medical Oncology
207T00000X	Allopathic & Osteopathic Physicians/Neurological Surgery
207U00000X	Allopathic & Osteopathic Physicians/Nuclear Medicine
207UN0901X	Allopathic & Osteopathic Physicians/Nuclear Medicine, Nuclear Cardiology
207UN0902X	Allopathic & Osteopathic Physicians/Nuclear Medicine, Nuclear Imaging & Therapy
207UN0903X	Allopathic & Osteopathic Physicians/Nuclear Medicine, In Vivo & In Vitro Nuclear Medicine
207V00000X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology
207VB0002X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Bariatric Medicine
207VC0200X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Critical Care Medicine
207VE0102X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Reproductive Endocrinology
207VF0040X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Female Pelvic Medicine and Reconstructive Surgery
207VG0400X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Gynecology
207VH0002X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Hospice and Palliative Medicine
207VM0101X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Maternal & Fetal Medicine
207VX0000X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Obstetrics
207VX0201X	Allopathic & Osteopathic Physicians/Obstetrics & Gynecology, Gynecologic Oncology
207W00000X	Allopathic & Osteopathic Physicians/Ophthalmology

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
207WX0009X	Allopathic & Osteopathic Physicians/Ophthalmology, Glaucoma Specialist
207WX0107X	Allopathic & Osteopathic Physicians/Ophthalmology, Retina Specialist
207WX0108X	Allopathic & Osteopathic Physicians/Ophthalmology, Uveitis and Ocular Inflammatory Disease
207WX0109X	Allopathic & Osteopathic Physicians/Ophthalmology/Neuro-ophthalmology
207WX0110X	Allopathic & Osteopathic Physicians/Ophthalmology/Pediatric Ophthalmology and Strabismus Specialist
207WX0120X	Allopathic & Osteopathic Physicians/Ophthalmology, Cornea and External Diseases Specialist
207WX0200X	Allopathic & Osteopathic Physicians/Ophthalmic Plastic and Reconstructive Surgery
207X00000X	Allopathic & Osteopathic Physicians/Orthopedic Surgery
207XP3100X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Pediatric Orthopedic Surgery
207XS0106X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Hand Surgery
207XS0114X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Adult Reconstructive Orthopedic Surgery
207XS0117X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Orthopedic Surgery of the Spine
207XX0004X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Foot and Ankle Surgery
207XX0005X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Sports Medicine
207XX0801X	Allopathic & Osteopathic Physicians/Orthopedic Surgery, Orthopedic Trauma
207Y00000X	Allopathic & Osteopathic Physicians/ Otolaryngology
207YP0228X	Allopathic & Osteopathic Physicians/Otolaryngology/Pediatric Otolaryngology
207YS0012X	Allopathic & Osteopathic Physicians/Otolaryngology/Sleep Medicine
207YS0123X	Allopathic & Osteopathic Physicians/ Otolaryngology/Facial Plastic Surgery
207YX0007X	Allopathic & Osteopathic Physicians/Otolaryngology/Plastic Surgery within the Head & Neck
207YX0602X	Allopathic & Osteopathic Physicians/Otolaryngology/Otolaryngic Allergy
207YX0901X	Allopathic & Osteopathic Physicians/Otolaryngology/Otology & Neurotology
207YX0905X	Allopathic & Osteopathic Physicians/Otolaryngology/Otolaryngology/Facial Plastic Surgery
207ZB0001X	Allopathic & Osteopathic Physicians/Pathology, Blood Banking & Transfusion Medicine
207ZC0006X	Allopathic & Osteopathic Physicians/Pathology, Clinical Pathology
207ZC0500X	Allopathic & Osteopathic Physicians/Pathology, Cytopathology
207ZD0900X	Allopathic & Osteopathic Physicians/Pathology, Dermatopathology
207ZF0201X	Allopathic & Osteopathic Physicians/Pathology, Forensic Pathology
207ZH0000X	Allopathic & Osteopathic Physicians/Pathology, Hematology
207ZI0100X	Allopathic & Osteopathic Physicians/Pathology, Immunopathology
207ZM0300X	Allopathic & Osteopathic Physicians/Pathology, Medical Microbiology
207ZN0500X	Allopathic & Osteopathic Physicians/Pathology, Neuropathology
207ZP0007X	Allopathic & Osteopathic Physicians/Pathology, Molecular Genetic Pathology
207ZP0101X	Allopathic & Osteopathic Physicians/Pathology, Anatomic Pathology
207ZP0102X	Allopathic & Osteopathic Physicians/Pathology, Anatomic Pathology & Clinical Pathology
207ZP0104X	Allopathic & Osteopathic Physicians/Pathology, Chemical Pathology
207ZP0105X	Allopathic & Osteopathic Physicians/Pathology, Clinical Pathology/Laboratory Medicine
207ZP0213X	Allopathic & Osteopathic Physicians/Pathology, Pediatric Pathology
208000000X	Allopathic & Osteopathic Physicians/Pediatrics
2080A0000X	Allopathic & Osteopathic Physicians/Pediatrics, Adolescent Medicine
2080H0002X	Allopathic & Osteopathic Physicians/Pediatrics, Hospice and Palliative Medicine

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
2080I0007X	Allopathic & Osteopathic Physicians/Pediatrics, Clinical & Laboratory Immunology
2080N0001X	Allopathic & Osteopathic Physicians/Pediatrics, Neonatal-Perinatal Medicine
2080P0006X	Allopathic & Osteopathic Physicians/Pediatrics, Developmental Behavioral Pediatrics
2080P0008X	Allopathic & Osteopathic Physicians/Pediatrics, Neurodevelopmental Disabilities
2080P0201X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Allergy & Immunology
2080P0202X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Cardiology
2080P0203X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Critical Care Medicine
2080P0204X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Emergency Medicine
2080P0205X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Endocrinology
2080P0206X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Gastroenterology
2080P0207X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Hematology-Oncology
2080P0208X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Infectious Diseases
2080P0210X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Nephrology
2080P0214X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Pulmonology
2080P0216X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Rheumatology
2080S0010X	Allopathic & Osteopathic Physicians/Pediatrics, Sports Medicine
2080S0012X	Allopathic & Osteopathic Physicians/Pediatrics, Sleep Medicine
2080T0002X	Allopathic & Osteopathic Physicians/Pediatrics, Medical Toxicology
2080T0004X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Transplant Hepatology
208100000X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation
2081H0002X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Hospice and Palliative Medicine
2081N0008X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Neuromuscular Medicine
2081P0004X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Spinal Cord Injury Medicine
2081P0010X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Pediatric Rehabilitation Medicine
2081P0301X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Brain Injury
2081P2900X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Pain Medicine
2081S0010X	Allopathic & Osteopathic Physicians/Physical Medicine & Rehabilitation, Sports Medicine
208200000X	Allopathic & Osteopathic Physicians/Plastic Surgery
2082S0099X	Allopathic & Osteopathic Physicians/Plastic Surgery, Plastic Surgery Within the Head and Neck
2082S0105X	Allopathic & Osteopathic Physicians/Plastic Surgery, Surgery of the Hand
2083S0010X	Allopathic & Osteopathic Physicians/Preventive Medicine, Sports Medicine
2084A2900X	Allopathic & Osteopathic Physicians/Psychiatry & Neurology/Neurocritical Care
2084H0002X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Hospice & Palliative Medicine
2084N0400X	Allopathic & Osteopathic Physicians/Psychiatry and Neurology, Neurology
2084N0402X	Allopathic & Osteopathic Physicians/Psychiatry and Neurology, Neurology with Special Qualifications in Child Neurology

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
2084P0301X	Allopathic & Osteopathic Physicians/Psychiatry & Neurology/Respiratory, Developmental, Rehabilitative and Restorative Service, Brain Injury Medicine
2084P0800X	Allopathic & Osteopathic Physicians/Psychiatry
2084S0010X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Sports Medicine
2085R0202X	Allopathic & Osteopathic Physicians/Radiology, Diagnostic Radiology
208600000X	Allopathic & Osteopathic Physicians/Surgery
2086H0002X	Allopathic & Osteopathic Physicians/Surgery/Hospice and Palliative Medicine, General Surgery
2086S0102X	Allopathic & Osteopathic Physicians/Surgery/Surgical Critical Care
2086S0105X	Allopathic & Osteopathic Physicians/Surgery, Surgery of the Hand
2086S0120X	Allopathic & Osteopathic Physicians/Surgery/Pediatric Surgery
2086S0122X	Allopathic & Osteopathic Physicians/Surgery/Plastic and Reconstructive Surgery
2086S0127X	Allopathic & Osteopathic Physicians/Surgery/Trauma Surgery
2086S0129X	Allopathic & Osteopathic Physicians/Surgery/Vascular Surgery
2086X0206X	Allopathic & Osteopathic Physicians/Surgery/Surgical Oncology
208800000X	Allopathic & Osteopathic Physicians/Urology
2088F0040X	Female Pelvic Medicine & Reconstructive Surgery
2088P0231X	Allopathic & Osteopathic Physicians/Urology, Pediatric Urology
208C00000X	Allopathic & Osteopathic Physicians/Colon & Rectal Surgery
208D00000X	Allopathic & Osteopathic Physicians/General Practice
208G00000X	Allopathic & Osteopathic Physicians/Thoracic Surgery (Cardiothoracic Vascular Surgery)
208VP0000X	Allopathic & Osteopathic Physicians/Pain Medicine, Pain Medicine
208VP0014X	Allopathic & Osteopathic Physicians/Pain Medicine, Interventional Pain Medicine
213E00000X	Podiatric Medicine & Surgery Service Providers/Podiatrist
213EG0000X	Podiatric Medicine & Surgery Service Providers/Podiatrist, General Practice
213EP0504X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Public Medicine
213EP1101X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Primary Podiatric Medicine
213ER0200X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Radiology
213ES0000X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Sports Medicine
213ES0103X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Foot & Ankle Surgery
213ES0131X	Podiatric Medicine & Surgery Service Providers/Podiatrist, Foot Surgery
222Z00000X	Respiratory, Developmental, Rehabilitative, and Restorative Service Providers/Orthotist
224P00000X	Respiratory, Developmental, Rehabilitative, and Restorative Service Providers/Prosthetist
225100000X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist
2251C2600X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Cardiopulmonary
2251E1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Ergonomics
2251E1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist,

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
	Electrophysiology, Clinical
2251G0304X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Geriatrics
2251H1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Hand
2251H1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Human Factors
2251N0400X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Neurology
2251P0200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Pediatrics
2251S0007X	Respiratory, Rehabilitative & Restorative Service Providers/Physical Therapist, Sports
2251X0800X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Physical Therapist, Orthopedic
225X00000X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist
225XE0001X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Environmental Modification
225XE1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Ergonomics
225XF0002X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Feeding, Eating & Swallowing
225XG0600X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Gerontology
225XH1200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Hand
225XH1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Human Factors
225XL0004X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Low Vision
225XM0800X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist, Mental Health
225XN1300X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist,

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
	Neurorehabilitation
225XP0019X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist,
	Physical Rehabilitation
225XP0200X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist,
	Pediatrics
225XR0403X	Respiratory, Developmental, Rehabilitative & Restorative Service Providers/Occupational Therapist,
	Driving and Community Mobility
231H00000X	Speech, Language and Hearing Service Providers/Audiologist
231HA2400X	Speech, Language and Hearing Service Providers/Audiologist, Assistive Technology Practitioner
235Z00000X	Speech, Language and Hearing Service Providers
363L00000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner
363LA2100X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Acute Care
363LA2200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Adult Health
363LC0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Critical Care Medicine
363LC1500X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Community Health
363LF0000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Family
363LG0600X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Gerontology
363LN0000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Neonatal
363LN0005X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Neonatal, Critical Care
363LP0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Pediatrics
363LP0222X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Pediatrics, Critical Care
363LP0808X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Psychiatric/Mental Health
363LP1700X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Perinatal
363LP2300X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Primary Care
363LS0200X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, School
363LW0102X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Women's Health
363LX0001X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Obstetrics & Gynecology
363LX0106X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Practitioner, Occupational Health
367500000X	Physician Assistants & Advanced Practice Nursing Providers/Nurse Anesthetist, Certified Registered

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
367A00000X	Physician Assistants & Advanced Practice Nursing Providers/Midwife, Certified Nurse
367H00000X	Physician Assistants & Advanced Practice Nursing Providers/Anesthesiologist Assistant
156FX1800X	Eye & Vision Service Providers/Technician/Technologist, Optician
1041C0700X	Behavioral Health & Social Service Providers/Social Worker, Clinical
122300000X	Allopathic & Osteopathic Physicians/Ophthalmology, Dental Providers/Dentist
207P00000X	Allopathic & Osteopathic Physicians/Emergency Medicine
207PE0004X	Allopathic & Osteopathic Physicians/Emergency Medicine, Emergency Medical Services
207PE0005X	Allopathic & Osteopathic Physicians/Emergency Medicine, Undersea and Hyperbaric Medicine
207PP0204X	Allopathic & Osteopathic Physicians/Emergency Medicine, Pediatric Emergency Medicine
207PT0002X	Allopathic & Osteopathic Physicians/Emergency Medicine, Medical Toxicology
207RI0011X	Allopathic & Osteopathic Physicians/Internal Medicine, Interventional Cardiology
2083A0100X	Allopathic & Osteopathic Physicians/Preventive Medicine, Aerospace Medicine
2083P0011X	Allopathic & Osteopathic Physicians/Preventive Medicine, Undersea and Hyperbaric Medicine
2083P0500X	Allopathic & Osteopathic Physicians/Preventive Medicine, Preventive Medicine/Occupational Environmental Medicine
2083P0901X	Allopathic & Osteopathic Physicians/Preventive Medicine, Public Health & General Preventive Medicine
2083X0100X	Allopathic & Osteopathic Physicians/Preventive Medicine, Occupational Medicine
2084A0401X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology
2083T0002X	Allopathic & Osteopathic Physicians/Preventive Medicine, Medical Toxicology
2084B0002X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Bariatric Medicine
2084D0003X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Diagnostic Neuroimaging
2084F0202X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Forensic Psychiatry
2084N0008X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Neuromuscular Medicine
2084N0600X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Clinical Neurophysiology
2084P0005X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Neurodevelopmental Disabilities
2084P0015X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Psychosomatic Medicine
2084P0802X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Addiction Psychiatry
2084P0804X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Child & Adolescent Psychiatry
2084P0805X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Geriatric Psychiatry
2084P2900X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Pain Medicine
2084S0012X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Sleep Medicine
2084V0102X	Allopathic & Osteopathic Physicians/ Psychiatry & Neurology, Vascular Neurology
2085H0002X	Hospice & Palliative Medicine
2085R0001X	Allopathic & Osteopathic Physicians/Radiology, Radiation Oncology
2085R0204X	Allopathic & Osteopathic Physicians/Radiology, Vascular and Interventional Radiology
208M00000X	Allopathic & Osteopathic Physicians/Hospitalist
247200000X	Technologists, Technicians & Other Technical Service Providers/Technician, Other
363A00000X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant
363AM0700X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant, Medical
363AS0400X	Physician Assistants & Advanced Practice Nursing Providers/Physician Assistant, Surgical
364S00000X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
364SA2100X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Acute Care
364SA2200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Adult Health
364SC0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Critical Care Medicine
364SC1501X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Community Health/Public Health
364SC2300X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Chronic Care
364SE0003X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Emergency
364SE1400X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Ethics
364SF0001X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Family Health
364SG0600X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Gerontology
364SH0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Home Health
364SH1100X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Holistic
364SI0800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Informatics
364SL0600X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Long-term Care
364SM0705X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Medical-Surgical
364SN0000X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Neonatal
364SN0800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Neuroscience
364SP0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Pediatrics
364SP0807X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Child & Adolescent
364SP0808X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health
364SP0809X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Adult

Appendix D. Specialty Visit Codes for Any Specialist, Excluding Code “99”

Specialty Code	Description
364SP0810X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Child & Family
364SP0811X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Chronically Ill
364SP0812X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Community
364SP0813X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Psychiatric/Mental Health, Geropsychiatric
364SP1700X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Perinatal
364SP2800X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Perioperative
364SR0400X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Rehabilitation
364SS0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, School
364ST0500X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Transplantation
364SW0102X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Women's Health
364SX0106X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Occupational Health
364SX0200X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Oncology
364SX0204X	Physician Assistants & Advanced Practice Nursing Providers/Clinical Nurse Specialist, Oncology, Pediatrics

Appendix E. Specialty Visit Codes for Dermatologist and Rheumatologist Visits

Specialty Code	Description
7	Physician/Dermatology
66	Physician/Rheumatology
207N00000X	Allopathic & Osteopathic Physicians/Dermatology
207ND0900X	Allopathic & Osteopathic Physicians/Dermatology, Dermopathology
207NI0002X	Allopathic & Osteopathic Physicians/Dermatology, Clinical & Laboratory Dermatological Immunology
207NP0225X	Allopathic & Osteopathic Physicians/Dermatology, Pediatric Dermatology
207RR0500X	Allopathic & Osteopathic Physicians/Internal Medicine, Rheumatology
207ZD0900X	Allopathic & Osteopathic Physicians/Pathology, Dermopathology
2080P0216X	Allopathic & Osteopathic Physicians/Pediatrics, Pediatric Rheumatology

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
Tobacco Use: diagnosed or identified by smoking cessation procedures			
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
Tobacco Use: diagnosed or identified by smoking cessation procedures			
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
O99.330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
T65211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65211D	Toxic effect of chewing tobacco, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65211S	Toxic effect of chewing tobacco, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T65212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65212D	Toxic effect of chewing tobacco, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65212S	Toxic effect of chewing tobacco, intentional self-harm, sequela	Diagnosis	ICD-10-CM
Tobacco Use: diagnosed or identified by smoking cessation procedures			
T65213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65213D	Toxic effect of chewing tobacco, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65213S	Toxic effect of chewing tobacco, assault, sequela	Diagnosis	ICD-10-CM
T65214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65214D	Toxic effect of chewing tobacco, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65214S	Toxic effect of chewing tobacco, undetermined, sequela	Diagnosis	ICD-10-CM
T65221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65221D	Toxic effect of tobacco cigarettes, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65221S	Toxic effect of tobacco cigarettes, accidental (unintentional), sequela	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T65222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65222D	Toxic effect of tobacco cigarettes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65222S	Toxic effect of tobacco cigarettes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65223D	Toxic effect of tobacco cigarettes, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65223S	Toxic effect of tobacco cigarettes, assault, sequela	Diagnosis	ICD-10-CM
Tobacco Use: diagnosed or identified by smoking cessation procedures			
T65224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65224D	Toxic effect of tobacco cigarettes, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65224S	Toxic effect of tobacco cigarettes, undetermined, sequela	Diagnosis	ICD-10-CM
T65291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65291D	Toxic effect of other tobacco and nicotine, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65291S	Toxic effect of other tobacco and nicotine, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T65292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65292D	Toxic effect of other tobacco and nicotine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65292S	Toxic effect of other tobacco and nicotine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65293D	Toxic effect of other tobacco and nicotine, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65293S	Toxic effect of other tobacco and nicotine, assault, sequela	Diagnosis	ICD-10-CM
T65294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65294D	Toxic effect of other tobacco and nicotine, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65294S	Toxic effect of other tobacco and nicotine, undetermined, sequela	Diagnosis	ICD-10-CM
Tobacco Use: diagnosed or identified by smoking cessation procedures			
U07.0	Vaping related disorder	Diagnosis	ICD-10-CM
Z716	Tobacco abuse counseling	Diagnosis	ICD-10-CM
Z720	Tobacco use	Diagnosis	ICD-10-CM
Z87.891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
Tobacco Use: identified by the dispensing of smoking-related medications			
1034F	Current tobacco smoker (CAD, CAP, COPD, PV) (DM)	Procedure	CPT-4
4001F	Tobacco use cessation intervention, pharmacologic therapy (COPD, CAD, CAP, PV, Asthma) (DM) (PV)	Procedure	CPT-4
4004F	Patient screened for tobacco use and received tobacco cessation intervention (counseling, pharmacotherapy, or both), if identified as a tobacco user (PV, CAD)	Procedure	CPT-4
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	CPT-4
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	Procedure	CPT-4
G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	Procedure	HCPCS
G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
G9016	Smoking cessation counseling, individual, in the absence of or in addition to any other evaluation and management service, per session (6-10 minutes) [demo project code only]	Procedure	HCPCS
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
Tobacco Use: identified by the dispensing of smoking-related medications			
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of quitting smoking or tobacco use, assistance with or referral to external smoking or tobacco cessation support programs, or current enrollment in smoking or tobacco use cessation program) if identified as a tobacco user	Procedure	HCPCS
S4995	Smoking cessation gum	Procedure	HCPCS
S9075	Smoking cessation treatment	Procedure	HCPCS
S9453	Smoking cessation classes, nonphysician provider, per session	Procedure	HCPCS

Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
Tobacco Use	
bupropion HCl	Zyban
bupropion HCl	bupropion HCl (smoking deter)
nicotine	NTS Step 1
nicotine	Nicoderm CQ
nicotine	Nicotrol
nicotine	Nicotrol NS
nicotine	nicotine
nicotine bitartrate	Nicotine Tartrate
nicotine polacrilex	Nicorelief
nicotine polacrilex	Nicorette
nicotine polacrilex	Quit 2
nicotine polacrilex	Quit 4
nicotine polacrilex	Stop Smoking Aid
nicotine polacrilex	nicotine (polacrilex)
nicotine polacrilex	nicotine polacrilex (bulk)
varenicline tartrate	Chantix
varenicline tartrate	Chantix Continuing Month Box
varenicline tartrate	Chantix Starting Month Box
varenicline tartrate	varenicline

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Exposure/Event

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	Output Denominator Indicator
#	Name of cohort specified	01: Cohort includes only the first valid index date per individual during the query period. 02: Cohort includes all valid index dates per individual during the query period.	Days specified	N: Lookback period should search for evidence of a date or an interval Y: Lookback period should search for evidence of a date only	IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	Y: baseline table will be produced for corresponding COHORTGRP N: baseline table will NOT be produced for corresponding COHORTGRP	Y: DENNUMPTS and DENNUMMEMDAYS variables will be calculated and populated in [RUNID]_t1_cida.sas7bdat. M: DENNUMPTS variable will be calculated and populated in [RUNID]_t1_cida.sas7bdat. DENNUMMEMDAYS variable will NOT be calculated and will be set to missing in [RUNID]_t1_cida.sas7bdat. N: DENNUMPTS and DENNUMMEMDAYS variables will NOT be calculated and will be set to missing in [RUNID]_t1_cida.sas7bdat.
1	Discoid lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	Y
2	Discoid lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
3	Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Exposure/Event									
Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	Output Denominator Indicator
4	Discoid lupus erythematosus coded by a dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
5	Subacute cutaneous lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
6	Subacute cutaneous lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
7	Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
8	Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
9	Other lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
10	Other lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Exposure/Event

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	Output Denominator Indicator
11	Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
12	Other lupus erythematosus coded by any dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
13	Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
14	Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exposure/Event					Output Denominator Indicator
				Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	
15	Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
16	Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by a Dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
17	Discoid lupus erythematosus precedes systemic lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
18	Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Exposure/Event

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	Output Denominator Indicator
19	Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
20	Discoid lupus erythematosus precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exposure/Event					Output Denominator Indicator
				Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	
21	Mixed cutaneous lupus erythematosus (CLE)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
22	Mixed cutaneous lupus erythematosus (CLE) coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
23	Mixed cutaneous lupus erythematosus (CLE) coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
24	Mixed cutaneous lupus erythematosus (CLE) coded by a Dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

Appendix H. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.1.0 to estimate 1) the burden of CLE in the adult and pediatric US population both overall and by sex and race/ethnicity, and 2) if the burden of disease similar in the Medicare/Medicaid versus commercial insurance the populations. in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2017 - 7/31/2024
Coverage Requirement: *Medical
 90
 n/a
Enrollment Gap: 45
Age Groups: 0-5 years, 6-11 years, 12-17 years, 18-44 years, 45-64 years, and ≥65 years
Demographic Restrictions: Sex= male, female; Race= no restriction, Hispanic origin= no restriction
Stratifications: Age group, Sex, Calendar year, Race, Hispanic origin, Age*calendar year
Censor output categorization: n/a
Data Restrictions: n/a
 N
 (2) no reclassification
Freeze data: N
Drop Censor Output Indicator: Y

Exposure/Event

Scenario	Index Exposure/ Event Labels in the Report Package Label File	Cohort Definition	Washout Period	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Care Setting	Principal diagnosis position	Forced Supply to Attach to Dispensings	Create Baseline Table?	Output Denominator Indicator
25	Chilblains and systemic lupus erythematosus	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
26	Chilblains and systemic lupus erythematosus coded by any known provider	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
27	Chilblains and systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming
28	Chilblains and systemic lupus erythematosus coded by a dermatologist or rheumatologist	02	0	n/a	AV* OA*	*Any	n/a	Y	R - for plus programming

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®
 N/A: Not Applicable

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings	
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event	Inclusion/exclusion description and codes <i>Indicator for CONLEVEL criterion</i>	*Inclusion (1) *Exclusion (0)	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified	IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	
1	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12	*Death *DP End Date *Query End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings	
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event	Inclusion/exclusion description and codes <i>Indicator for CONLEVEL criterion</i>	*Inclusion (1) *Exclusion (0)	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified		IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value
13	*Death *DP End Date *Query End Date	Include L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE) in all available history through 365 days after index Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE) in all available history through 365 days after index	1	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
			0	SysManifestSLE_Drug-inducedSLE	SysManifestSLE_Drug-inducedSLE	1	AV* OA*	*Any	-all available history	365	n/a
14	*Death *DP End Date *Query End Date	Include L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE) in all available history through 365 days after index Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE) in all available history through 365 days after index	1	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
			0	SysManifestSLE_Drug-inducedSLE	SysManifestSLE_Drug-inducedSLE	1	AV* OA*	*Any	-all available history	365	n/a

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings	
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event	Inclusion/exclusion description and codes <i>Indicator for CONLEVEL criterion</i>	*Inclusion (1) *Exclusion (0)	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified		IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value
15	*Death *DP End Date *Query End Date	Include L93.0 (DLE), L93.1 (SCL), L93.2 (other LE) in all available history through 365 days after index Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE in all available history through 365 days after index)	1 0	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
				SysManifestSLE_Drug-inducedSLE	SysManifestSLE_Drug-inducedSLE	1	AV* OA*	*Any	-all available history	365	n/a
16	*Death *DP End Date *Query End Date	Include L93.0 (DLE), L93.1 (SCL), L93.2 (other LE) in all available history through 365 days after index Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE in all available history through 365 days after index)	1 0	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
				SysManifestSLE_Drug-inducedSLE	SysManifestSLE_Drug-inducedSLE	1	AV* OA*	*Any	-all available history	365	n/a
17	*Death *DP End Date *Query End Date	L93.0 (DLE) precedes M32.9 (SLE) with a lag of >1 year	1	SLE	SLE	1	AV* OA*	*Any	365	all available data	n/a
18	*Death *DP End Date *Query End Date	L93.0 (DLE) precedes M32.9 (SLE) with a lag of >1 year	1	SLE	SLE	1	AV* OA*	*Any	365	all available data	n/a

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Inclusion/exclusion description and codes	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event		*Inclusion (1) *Exclusion (0) <i>Indicator for CONLEVEL criterion</i>	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified		IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value
19	*Death *DP End Date *Query End Date	L93.0 (DLE) precedes M32.9 (SLE) with a lag of >1 year	1	SLE	SLE	1	AV* OA*	*Any	365	all available data	n/a
20	*Death *DP End Date *Query End Date	L93.0 (DLE) precedes M32.9 (SLE) with a lag of >1 year	1	SLE	SLE	1	AV* OA*	*Any	365	all available data	n/a
21	*Death *DP End Date *Query End Date	Any combination of two of these three diagnosis codes: L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE)	1	condition1	condition1_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition1	condition1_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition2	condition2_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition2	condition2_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition3	condition3_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition3	condition3_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition4	condition4_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition4	condition4_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition5	condition5_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition5	condition5_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
1	condition6	condition6_L93.2on_index	1	AV* OA*	*Any	0	0	n/a			
1	condition6	condition6_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a			

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Inclusion/exclusion description and codes	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event		*Inclusion (1) *Exclusion (0) <i>Indicator for CONLEVEL criterion</i>	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified		IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value
22	*Death *DP End Date *Query End Date	Any combination of two of these three diagnosis codes: L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE)	1	condition1	condition1_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition1	condition1_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition2	condition2_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition2	condition2_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition3	condition3_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition3	condition3_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition4	condition4_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition4	condition4_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition5	condition5_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition5	condition5_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition6	condition6_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition6	condition6_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
23	*Death *DP End Date *Query End Date	Any combination of two of these three diagnosis codes: L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE)	1	condition1	condition1_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition1	condition1_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition2	condition2_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition2	condition2_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition3	condition3_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition3	condition3_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition4	condition4_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition4	condition4_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition5	condition5_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition5	condition5_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition6	condition6_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition6	condition6_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a

Appendix H. Specifications Defining Parameters Used in this Request

Inclusion/Exclusion Criteria											
Scenario	Evidence of	Inclusion/exclusion description and codes	Condition Criteria	Condition	condition	Exclusion	Care Setting	Position	Period Start	End	Forced Supply to Attach to Dispensings
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event		*Inclusion (1) *Exclusion (0) <i>Indicator for CONLEVEL criterion</i>	Name of inclusion or exclusion criteria specified	Name of inclusion or exclusion criteria within CONDLEVEL values specified		IP: inpatient hospital stays IS: non-acute institutional stays ED: emergency department encounters AV: ambulatory visits OA: other ambulatory visits Blank: Any caresetting	*Any *Principal *Secondary *Unknown <i>Only applicable for Inpatient and Institutional stays</i>	Numeric specified	Numeric specified	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value
24	*Death *DP End Date *Query End Date	Any combination of two of these three diagnosis codes: L93.0 (DLE), L93.1 (SCLE), L93.2 (other LE)	1	condition1	condition1_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition1	condition1_L93.1onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition2	condition2_L93.0on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition2	condition2_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition3	condition3_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition3	condition3_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition4	condition4_L93.1on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition4	condition4_L93.2onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
			1	condition5	condition5_L93.2on_index	1	AV* OA*	*Any	0	0	n/a
			1	condition5	condition5_L93.0onorafter_inde	1	AV* OA*	*Any	0	all available data	n/a
25	*Death *DP End Date *Query End Date	alongside evidence of SLE (M32.9) within any time before or after index day	1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
			1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
26	*Death *DP End Date *Query End Date	alongside evidence of SLE (M32.9) within any time before or after index day	1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
			1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
27	*Death *DP End Date *Query End Date	alongside evidence of SLE (M32.9) within any time before or after index day	1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
			1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
28	*Death *DP End Date *Query End Date	alongside evidence of SLE (M32.9) within any time before or after index day	1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a
			1	SLEchilblains	SLEchilblains	1	AV* OA*	*Any	-all available history	all available data	n/a

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®
N/A: Not Applicable

Appendix H. Specifications Defining Parameters Used in this Request

Scenario	Inclusion/Exclusion Criteria							
	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Number of Instances for the Condition	Minimum Days Covered in Inclusion/Exclusion Window	Minimum Cumulative Dose	Minimum Average Filled Daily Dose	Maximum Average Filled Daily Dose	Minimum Current Filled Daily Dose	Maximum Current Filled Daily Dose
	N: Lookback period should search for evidence of a date or an interval Y: Lookback period should search for evidence of a date only	Numeric specified	Numeric specified	Numeric and units specified	Numeric and units specified	Numeric and units specified	Numeric and units specified	Numeric and units specified
#								
1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1						
14	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1						
15	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1						
16	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1						
17	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
18	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
19	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
20	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
21	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a

Appendix H. Specifications Defining Parameters Used in this Request

Scenario	Inclusion/Exclusion Criteria							
	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Number of Instances for the Condition	Minimum Days Covered in Inclusion/Exclusion Window	Minimum Cumulative Dose	Minimum Average Filled Daily Dose	Maximum Average Filled Daily Dose	Minimum Current Filled Daily Dose	Maximum Current Filled Daily Dose
	N: Lookback period should search for evidence of a date or an interval Y: Lookback period should search for evidence of a date only	Numeric specified	Numeric specified	Numeric and units specified	Numeric and units specified	Numeric and units specified	Numeric and units specified	Numeric and units specified
#								
22	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
23	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
24	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
25	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
26	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
27	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a
28	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360.
 National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®
 N/A: Not Applicable

Appendix I. Specifications Defining Baseline Characteristic Parameters Used in this Request

Covariate Name	Covariate Number	Combo Covariate Components	Code Category	Care setting	Principal Diagnosis Position	Covariate Evaluation Period Start	Covariate Evaluation Period End	Number of Instances the Covariate Should be Found in Evaluation Period	Forced Supply to Attach to a Code	Lookback Period Date Only	Minimum Cumulative Number of Days	Minimum Average Filled Daily Dose	Maximum Average Filled Daily Dose
Tobacco Use: diagnosed or identified by smoking cessation procedures	1	N/A	N/A	Any	*Diagnosis/ procedure Codes	-all avaiable data	0	1	N/A	n/a	N/A	N/A	N/A
Tobacco Use: identified by smoking-related prescriptions	2	N/A	N/A	Any	*Drug codes	-all avaiable data	0	1	N/A	n/a	N/A	N/A	N/A
Tobacco Use	3	Covariate 1 or Covariate 2	N/A	Any	N/A	N/A	N/A	1	N/A	n/a	N/A	N/A	N/A

N/A: Not Applicable

Appendix J. Design Diagram of Cohort Entry Requirements and Index Events

We will allow re-entries, meaning that we will include all encounters. Then, we stratify them by age and calendar year. Number of encounters and number of unique patients would be included in the tables.

Scenario_1: DLE
Scenario_5: SCLC
Scenario_9: OtherLE
Scenario_13: slewsymp
Scenario_17: SLEandDLE
Scenario_21: MixedCLE
Scenario_25: Chilblains

Scenario_2: DLE_notu
Scenario_6: SCLC_notu
Scenario_10: OtherLE_notu
Scenario_14: slewsymp_notu
Scenario_18: SLEandDLE_notu
Scenario_22: MixedCLE_notu
Scenario_26: Chilblains_notu

Scenario_3: DLE_not99
Scenario_7: SCLC_not99
Scenario_11: OtherLE_not99
Scenario_15: slewsymp_not99
Scenario_19: SLEandDLE_not99
Scenario_23: MixedCLE_not99
Scenario_27: Chilblains_not99

Scenario_4: DLE_dermrheum
Scenario_8: SCLC_dermrheum
Scenario_12: OtherLE_dermrheum
Scenario_16: slewsymp_dermrheum
Scenario_20: SLEandDLE_dermrheum
Scenario_24: MixedCLE_dermrheum
Scenario_28: Chilblains_dermrheum

