



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 first of three reports, including data from public Sentinel Data Partners. The second report includes data from a combination of commercial and integrated delivery services (IDS) 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 two of these Data Partners. The study period included data from January 1, 2017, to December 31, 2023. 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.

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.

Overview for Request: cder_mpl1p_wp104

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 SLE (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.

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

Table of Contents

Glossary (CIDA) List of Terms to Define the Cohort Identification and Descriptive Analysis (CIDA) Found in this Report

Table 1a Aggregated Characteristics of Patients with Discoid Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1b Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1c Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1d Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Coded by a Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1e Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1f Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1g Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1h Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1i Aggregated Characteristics of Patients with Other Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1j Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1k Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1l Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1m Aggregated Characteristics of Patients with Systemic Lupus Erythematosus Without Manifestations of Systemic Lupus Erythematosus or Drug-Induced Systemic Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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 Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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 Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1q Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1r Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1s Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by Provider With Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table of Contents

Table 1t Aggregated Characteristics of Patients with Discoid Lupus Erythematosus Precedes Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1u Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1v Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1w Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1x Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus Coded by a Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1y Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1z Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1aa Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider With Known Specialty (Excluding Unknown Specialty) in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 1ab Aggregated Characteristics of Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 2 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Table 3 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Sex

Table 4 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group

Table 5 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Year

Table 6 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Race

Table 7 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin

Table 8 Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

Table 9 Summary of Episode Level Cohort Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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

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

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

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

Appendix E Specialty Visit Codes for Dermatologist and Rheumatologist Visits

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

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

Appendix H Specifications Defining Parameters Used in this Request

Appendix I Specifications Defining Baseline Characteristic Parameters Used in this Request

Appendix J Design Diagrams of Cohort Entry Requirements and Index Events

**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

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	192,636	N/A
Index dates ⁴	982,376	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.8	13.6
Age		
0-5 years	1,076	0.1%
6-11 years	1,977	0.2%
12-17 years	6,637	0.7%
18-44 years	191,066	19.4%
45-64 years	321,291	32.7%
≥ 65 years	460,329	46.9%
Sex		
Female	165,699	86.0%
Male	26,937	14.0%
Race ⁵		
American Indian or Alaska Native	1,955	1.0%
Asian	3,577	1.9%
Black or African American	43,162	22.4%
Multi-racial	264	0.1%
Native Hawaiian or Other Pacific Islander	244	0.1%
Unknown	24,571	12.8%
White	118,863	61.7%
Hispanic origin		
Yes	15,003	7.8%
No	168,238	87.3%
Unknown	9,395	4.9%
Year		
2017	160,756	16.4%
2018	208,839	21.3%
2019	174,595	17.8%
2020	140,642	14.3%
2021	135,564	13.8%
2022	84,386	8.6%
2023	77,594	7.9%
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	2.0	2.7
Combined comorbidity score categories		
≤0	373,666	38.0%
1-2	310,077	31.6%
3-4	139,811	14.2%
5+	158,822	16.2%

Table 1a. Aggregated Characteristics of Patients with Discoid Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Tobacco Use assessed from all available data up to and including the index date	437,864	44.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	432,748	44.1%
Tobacco Use: identified by the dispensing of smoking-related medications	53,039	5.4%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	10.5	11.2
Mean number of emergency room encounters	0.4	1.3
Mean number of inpatient hospital encounters	0.3	0.7
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	10.4	19.4
Mean number of filled prescriptions	13.4	14.4
Mean number of generics dispensed	7.4	6.3
Mean number of unique drug classes dispensed	7.0	5.8

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	190,739	N/A
Index dates ⁴	932,799	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.4	13.7
Age		
0-5 years	1,024	0.1%
6-11 years	1,903	0.2%
12-17 years	6,281	0.7%
18-44 years	174,145	18.7%
45-64 years	289,984	31.1%
≥ 65 years	459,462	49.3%
Sex		
Female	164,014	86.0%
Male	26,725	14.0%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	3,532	1.9%
Black or African American	42,653	22.4%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	24,110	12.6%
White	118,027	61.9%
Hispanic origin		
Yes	14,731	7.7%
No	166,799	87.4%
Unknown	9,209	4.8%
Year		
2017	149,833	16.1%
2018	196,805	21.1%
2019	164,394	17.6%
2020	131,720	14.1%
2021	128,089	13.7%
2022	*****	*****
2023	*****	*****

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 December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ assessed from 90 days prior to the index date through the index date (inclusive) ⁷	2.1	2.8
Combined comorbidity score categories		
<=0	350,919	37.6%
1-2	291,382	31.2%
3-4	134,799	14.5%
5+	155,699	16.7%
Tobacco Use total assessed from all available data up to and including the index date	416,468	44.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	412,096	44.2%
Tobacco Use: identified by the dispensing of smoking-related medications	46,276	5.0%
Health Service Utilization Intensity Metrics assessed from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation ³
Mean number of ambulatory encounters	10.6	11.3
Mean number of emergency room encounters	0.4	1.3
Mean number of inpatient hospital encounters	0.3	0.7
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	7.7	15.8
Mean number of filled prescriptions	12.8	13.8
Mean number of generics dispensed	7.2	6.1
Mean number of unique drug classes dispensed	6.9	5.7

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	171,541	N/A
Index dates ⁴	804,770	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	61.2	13.8
Age		
0-5 years	859	0.1%
6-11 years	1,550	0.2%
12-17 years	5,046	0.6%
18-44 years	140,539	17.5%
45-64 years	240,027	29.8%
≥ 65 years	416,749	51.8%
Sex		
Female	148,146	86.4%
Male	23,395	13.6%
Race ⁵		
American Indian or Alaska Native	1,638	1.0%
Asian	2,977	1.7%
Black or African American	39,064	22.8%
Multi-racial	224	0.1%
Native Hawaiian or Other Pacific Islander	210	0.1%
Unknown	20,553	12.0%
White	106,875	62.3%
Hispanic origin		
Yes	12,558	7.3%
No	151,137	88.1%
Unknown	7,846	4.6%
Year		
2017	123,309	15.3%
2018	168,212	20.9%
2019	140,665	17.5%
2020	113,176	14.1%
2021	110,797	13.8%
2022	77,558	9.6%
2023	71,053	8.8%

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 December 31, 2023

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	2.2	2.9
Combined comorbidity score categories		
<=0	292,831	36.4%
1-2	249,085	31.0%
3-4	118,608	14.7%
5+	144,246	17.9%
Tobacco Use assessed from all available data up to and including the index date	368,465	45.8%
Tobacco Use: diagnosed or identified by smoking cessation procedures	365,834	45.5%
Tobacco Use: identified by the dispensing of smoking-related medications	35,381	4.4%
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	10.8	11.5
Mean number of emergency room encounters	0.4	1.4
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	5.6	11.3
Mean number of filled prescriptions	12.4	13.4
Mean number of generics dispensed	7.1	6.0
Mean number of unique drug classes dispensed	6.7	5.6

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	49,585	N/A
Index dates ⁴	187,224	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.2	13.1
Age		
0-5 years	362	0.2%
6-11 years	743	0.4%
12-17 years	1,911	1.0%
18-44 years	35,407	18.9%
45-64 years	51,033	27.3%
≥ 65 years	97,768	52.2%
Sex		
Female	41,183	83.1%
Male	8,402	16.9%
Race ⁵		
American Indian or Alaska Native	287	0.6%
Asian	1,047	2.1%
Black or African American	14,388	29.0%
Multi-racial	79	0.2%
Native Hawaiian or Other Pacific Islander	81	0.2%
Unknown	6,302	12.7%
White	27,401	55.3%
Hispanic origin		
Yes	3,497	7.1%
No	43,335	87.4%
Unknown	2,753	5.6%
Year		
2017	29,669	15.8%
2018	35,964	19.2%
2019	33,644	18.0%
2020	27,573	14.7%
2021	27,723	14.8%
2022	16,716	8.9%
2023	15,935	8.5%
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	97,746	52.2%
1-2	58,761	31.4%
3-4	18,219	9.7%
5+	12,498	6.7%

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 December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Tobacco Use assessed from all available data up to and including the index date	79,694	42.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	78,694	42.0%
Tobacco Use: identified by the dispensing of smoking-related medications	9,711	5.2%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.5	8.0
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.2	8.0
Mean number of filled prescriptions	10.6	11.4
Mean number of generics dispensed	6.4	5.5
Mean number of unique drug classes dispensed	6.1	5.2

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	31,541	N/A
Index dates ⁴	144,234	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	68.6	11.2
Age		
0-5 years	42	0.0%
6-11 years	298	0.2%
12-17 years	493	0.3%
18-44 years	11,722	8.1%
45-64 years	23,327	16.2%
≥ 65 years	108,352	75.1%
Sex		
Female	25,596	81.2%
Male	5,945	18.8%
Race ⁵		
American Indian or Alaska Native	182	0.6%
Asian	421	1.3%
Black or African American	3,340	10.6%
Multi-racial	29	0.1%
Native Hawaiian or Other Pacific Islander	33	0.1%
Unknown	2,426	7.7%
White	25,110	79.6%
Hispanic origin		
Yes	1,238	3.9%
No	29,132	92.4%
Unknown	1,171	3.7%
Year		
2017	19,647	13.6%
2018	21,420	14.9%
2019	21,822	15.1%
2020	20,838	14.4%
2021	22,827	15.8%
2022	19,229	13.3%
2023	18,451	12.8%

Table 1e. Aggregated Characteristics of Patients with Subacute Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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	2.4
Combined comorbidity score categories		
<=0	66,428	46.1%
1-2	45,509	31.6%
3-4	16,882	11.7%
5+	15,415	10.7%
Tobacco Use assessed from all available data up to and including the index date	63,376	43.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	63,008	43.7%
Tobacco Use: identified by the dispensing of smoking-related medications	5,178	3.6%
prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.8	7.7
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.1	9.8
Mean number of filled prescriptions	9.9	10.8
Mean number of generics dispensed	6.1	5.3
Mean number of unique drug classes dispensed	5.8	5.0

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	31,349	N/A
Index dates ⁴	142,926	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	68.8	11.2
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	474	0.3%
18-44 years	11,269	7.9%
45-64 years	22,505	15.7%
≥ 65 years	*****	*****
Sex		
Female	25,430	81.1%
Male	5,919	18.9%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	3,305	10.5%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	2,384	7.6%
White	25,007	79.8%
Hispanic origin		
Yes	1,209	3.9%
No	28,982	92.4%
Unknown	1,158	3.7%
Year		
2017	19,402	13.6%
2018	21,178	14.8%
2019	21,348	14.9%
2020	20,629	14.4%
2021	22,689	15.9%
2022	19,229	13.5%
2023	18,451	12.9%

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 December 31, 2023

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	2.4
Combined comorbidity score categories		
<=0	65,941	46.1%
1-2	44,782	31.3%
3-4	16,841	11.8%
5+	15,362	10.7%
Tobacco Use assessed from all available data up to and including the index date	62,474	43.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	62,117	43.5%
Tobacco Use: identified by the dispensing of smoking-related medications	4,957	3.5%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.8	7.7
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.8	8.8
Mean number of filled prescriptions	9.9	10.7
Mean number of generics dispensed	6.1	5.3
Mean number of unique drug classes dispensed	5.8	5.0

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	28,241	N/A
Index dates ⁴	127,451	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	69.1	11.3
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	380	0.3%
18-44 years	9,372	7.4%
45-64 years	19,845	15.6%
≥ 65 years	97,595	76.6%
Sex		
Female	22,967	81.3%
Male	5,274	18.7%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	350	1.2%
Black or African American	2,894	10.2%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	2,030	7.2%
White	22,773	80.6%
Hispanic origin		
Yes	1,008	3.6%
No	26,227	92.9%
Unknown	1,006	3.6%
Year		
2017	16,857	13.2%
2018	18,717	14.7%
2019	19,039	14.9%
2020	18,455	14.5%
2021	20,203	15.9%
2022	17,508	13.7%
2023	16,672	13.1%

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 December 31, 2023

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	1.5	2.4
Combined comorbidity score categories		
<=0	57,927	45.5%
1-2	40,005	31.4%
3-4	15,202	11.9%
5+	14,317	11.2%
Tobacco Use assessed from all available data up to and including the index date	56,327	44.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	56,018	44.0%
Tobacco Use: identified by the dispensing of smoking-related medications	4,436	3.5%
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	8.9	7.7
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.7	8.5
Mean number of filled prescriptions	9.9	10.8
Mean number of generics dispensed	6.1	5.3
Mean number of unique drug classes dispensed	5.9	5.0

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	17,645	N/A
Index dates ⁴	71,718	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	69.7	10.6
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	232	0.3%
18-44 years	4,354	6.1%
45-64 years	10,134	14.1%
≥ 65 years	56,846	79.3%
Sex		
Female	14,227	80.6%
Male	3,418	19.4%
Race ⁵		
American Indian or Alaska Native	63	0.4%
Asian	202	1.1%
Black or African American	1,416	8.0%
Multi-racial	11	0.1%
Native Hawaiian or Other Pacific Islander	11	0.1%
Unknown	1,107	6.3%
White	14,835	84.1%
Hispanic origin		
Yes	507	2.9%
No	16,545	93.8%
Unknown	593	3.4%
Year		
2017	9,893	13.8%
2018	10,647	14.8%
2019	10,833	15.1%
2020	10,511	14.7%
2021	11,196	15.6%
2022	9,502	13.2%
2023	9,136	12.7%

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 December 31, 2023

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	1.1	2.0
Combined comorbidity score categories		
<=0	36,835	51.4%
1-2	22,500	31.4%
3-4	7,374	10.3%
5+	5,009	7.0%
Tobacco Use assessed from all available data up to and including the index date	30,035	41.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	29,854	41.6%
Tobacco Use: identified by the dispensing of smoking-related medications	2,409	3.4%
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	8.5	6.9
Mean number of emergency room encounters	0.2	0.5
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	2.3	4.7
Mean number of filled prescriptions	9.2	9.6
Mean number of generics dispensed	5.9	5.1
Mean number of unique drug classes dispensed	5.7	4.8

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	60,284	N/A
Index dates ⁴	284,293	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.7	14.1
Age		
0-5 years	550	0.2%
6-11 years	1,005	0.4%
12-17 years	2,676	0.9%
18-44 years	48,927	17.2%
45-64 years	90,077	31.7%
≥ 65 years	141,058	49.6%
Sex		
Female	50,360	83.5%
Male	9,924	16.5%
Race ⁵		
American Indian or Alaska Native	402	0.7%
Asian	1,170	1.9%
Black or African American	10,785	17.9%
Multi-racial	66	0.1%
Native Hawaiian or Other Pacific Islander	70	0.1%
Unknown	7,312	12.1%
White	40,479	67.1%
Hispanic origin		
Yes	4,331	7.2%
No	53,023	88.0%
Unknown	2,930	4.9%
Year		
2017	49,689	17.5%
2018	49,304	17.3%
2019	47,683	16.8%
2020	45,122	15.9%
2021	43,174	15.2%
2022	25,142	8.8%
2023	24,179	8.5%

Table 1i. Aggregated Characteristics of Patients with Other Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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	1.9	2.6
Combined comorbidity score categories		
<=0	107,059	37.7%
1-2	92,824	32.7%
3-4	40,786	14.3%
5+	43,624	15.3%
Tobacco Use assessed from all available data up to and including the index date	120,952	42.5%
Tobacco Use: diagnosed or identified by smoking cessation procedures	118,972	41.8%
Tobacco Use: identified by the dispensing of smoking-related medications	16,705	5.9%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	11.1	13.0
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.2	0.6
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	16.4	22.6
Mean number of filled prescriptions	14.8	16.0
Mean number of generics dispensed	7.8	6.4
Mean number of unique drug classes dispensed	7.4	5.9

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	59,694	N/A
Index dates ⁴	260,912	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	61.7	14.0
Age		
0-5 years	236	0.1%
6-11 years	918	0.4%
12-17 years	2,491	1.0%
18-44 years	42,741	16.4%
45-64 years	74,995	28.7%
≥ 65 years	139,531	53.5%
Sex		
Female	49,844	83.5%
Male	9,850	16.5%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	1,154	1.9%
Black or African American	10,620	17.8%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	7,160	12.0%
White	40,236	67.4%
Hispanic origin		
Yes	4,235	7.1%
No	52,585	88.1%
Unknown	2,874	4.8%
Year		
2017	44,731	17.1%
2018	44,834	17.2%
2019	43,230	16.6%
2020	40,069	15.4%
2021	38,738	14.8%
2022	*****	*****
2023	*****	*****

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 December 31, 2023

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	2.0	2.7
Combined comorbidity score categories		
<=0	97,945	37.5%
1-2	82,026	31.4%
3-4	38,290	14.7%
5+	42,651	16.3%
Tobacco Use assessed from all available data up to and including the index date	110,773	42.5%
Tobacco Use: diagnosed or identified by smoking cessation procedures	108,834	41.7%
Tobacco Use: identified by the dispensing of smoking-related medications	11,744	4.5%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	11.0	12.5
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.2	0.7
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	12.2	19.9
Mean number of filled prescriptions	14.0	15.8
Mean number of generics dispensed	7.5	6.4
Mean number of unique drug classes dispensed	7.1	5.9

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	52,179	N/A
Index dates ⁴	211,468	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	63.2	14.1
Age		
0-5 years	183	0.1%
6-11 years	726	0.3%
12-17 years	2,049	1.0%
18-44 years	32,577	15.4%
45-64 years	50,468	23.9%
≥ 65 years	125,465	59.3%
Sex		
Female	43,740	83.8%
Male	8,439	16.2%
Race ⁵		
American Indian or Alaska Native	345	0.7%
Asian	924	1.8%
Black or African American	9,379	18.0%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	5,777	11.1%
White	35,646	68.3%
Hispanic origin		
Yes	3,418	6.6%
No	46,444	89.0%
Unknown	2,317	4.4%
Year		
2017	33,855	16.0%
2018	35,282	16.7%
2019	34,824	16.5%
2020	31,750	15.0%
2021	31,022	14.7%
2022	22,802	10.8%
2023	21,933	10.4%

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 December 31, 2023

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	2.1	2.8
Combined comorbidity score categories		
<=0	76,798	36.3%
1-2	65,295	30.9%
3-4	32,165	15.2%
5+	37,210	17.6%
Tobacco Use assessed from all available data up to and including the index date	92,411	43.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	91,788	43.4%
Tobacco Use: identified by the dispensing of smoking-related medications	7,701	3.6%
prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	11.3	12.7
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.2	0.7
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	6.9	13.2
Mean number of filled prescriptions	12.6	14.2
Mean number of generics dispensed	7.0	5.9
Mean number of unique drug classes dispensed	6.7	5.5

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 1I. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	20,362	N/A
Index dates ⁴	67,957	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	63.2	12.7
Age		
0-5 years	110	0.2%
6-11 years	480	0.7%
12-17 years	916	1.3%
18-44 years	9,403	13.8%
45-64 years	14,686	21.6%
≥ 65 years	42,362	62.3%
Sex		
Female	16,620	81.6%
Male	3,742	18.4%
Race ⁵		
American Indian or Alaska Native	78	0.4%
Asian	369	1.8%
Black or African American	3,492	17.1%
Multi-racial	25	0.1%
Native Hawaiian or Other Pacific Islander	26	0.1%
Unknown	2,117	10.4%
White	14,255	70.0%
Hispanic origin		
Yes	1,095	5.4%
No	18,261	89.7%
Unknown	1,006	4.9%
Year		
2017	9,919	14.6%
2018	10,339	15.2%
2019	11,285	16.6%
2020	10,325	15.2%
2021	10,857	16.0%
2022	7,606	11.2%
2023	7,626	11.2%
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	2.1
Combined comorbidity score categories		
≤0	34,033	50.1%

Table 1I. Aggregated Characteristics of Patients with Other Lupus Erythematosus Coded by Any Dermatologist or Rheumatologist¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
1-2	21,448	31.6%
3-4	7,125	10.5%
5+	5,351	7.9%
Tobacco Use assessed from all available data up to and including the index date	28,617	42.1%
Tobacco Use: diagnosed or identified by smoking cessation procedures	28,317	41.7%
Tobacco Use: identified by the dispensing of smoking-related medications	2,946	4.3%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	8.9	7.8
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.2	7.6
Mean number of filled prescriptions	10.5	11.2
Mean number of generics dispensed	6.4	5.5
Mean number of unique drug classes dispensed	6.1	5.2

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	81,059	N/A
Index dates ⁴	725,677	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	61.2	12.9
Age		
0-5 years	584	0.1%
6-11 years	594	0.1%
12-17 years	3,331	0.5%
18-44 years	122,549	16.9%
45-64 years	235,914	32.5%
≥ 65 years	362,705	50.0%
Sex		
Female	71,848	88.6%
Male	9,211	11.4%
Race ⁵		
American Indian or Alaska Native	892	1.1%
Asian	1,088	1.3%
Black or African American	16,082	19.8%
Multi-racial	121	0.1%
Native Hawaiian or Other Pacific Islander	86	0.1%
Unknown	9,143	11.3%
White	53,647	66.2%
Hispanic origin		
Yes	5,630	6.9%
No	71,991	88.8%
Unknown	3,438	4.2%
Year		
2017	108,579	15.0%
2018	109,864	15.1%
2019	123,014	17.0%
2020	120,429	16.6%
2021	117,751	16.2%
2022	75,227	10.4%
2023	70,813	9.8%

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 December 31, 2023

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	2.2	2.8
Combined comorbidity score categories		
<=0	245,733	33.9%
1-2	240,113	33.1%
3-4	110,804	15.3%
5+	129,027	17.8%
Tobacco Use assessed from all available data up to and including the index date	333,049	45.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	330,832	45.6%
Tobacco Use: identified by the dispensing of smoking-related medications	35,057	4.8%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.6	8.7
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.3	0.7
Mean number of non-acute institutional encounters	0.1	0.4
Mean number of other ambulatory encounters	9.9	18.5
Mean number of filled prescriptions	14.4	15.8
Mean number of generics dispensed	7.8	6.3
Mean number of unique drug classes dispensed	7.4	5.9

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	80,435	N/A
Index dates ⁴	696,146	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	61.8	12.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	3,138	0.5%
18-44 years	111,930	16.1%
45-64 years	217,679	31.3%
≥ 65 years	362,246	52.0%
Sex		
Female	71,285	88.6%
Male	9,150	11.4%
Race ⁵		
American Indian or Alaska Native	881	1.1%
Asian	1,075	1.3%
Black or African American	15,877	19.7%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	9,018	11.2%
White	53,378	66.4%
Hispanic origin		
Yes	5,553	6.9%
No	71,491	88.9%
Unknown	3,391	4.2%
Year		
2017	105,488	15.2%
2018	106,711	15.3%
2019	117,041	16.8%
2020	111,288	16.0%
2021	109,595	15.7%
2022	*****	*****
2023	*****	*****

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 December 31, 2023

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	2.3	2.8
Combined comorbidity score categories		
<=0	232,034	33.3%
1-2	227,788	32.7%
3-4	108,134	15.5%
5+	128,190	18.4%
Tobacco Use assessed from all available data up to and including the index date	317,131	45.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	315,194	45.3%
Tobacco Use: identified by the dispensing of smoking-related medications	31,152	4.5%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.7	8.7
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.3	0.7
Mean number of non-acute institutional encounters	0.1	0.4
Mean number of other ambulatory encounters	7.9	15.4
Mean number of filled prescriptions	14.2	15.7
Mean number of generics dispensed	7.7	6.3
Mean number of unique drug classes dispensed	7.3	5.9

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 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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	75,655	N/A
Index dates ⁴	612,138	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	62.6	12.9
Age		
0-5 years	110	0.0%
6-11 years	474	0.1%
12-17 years	2,446	0.4%
18-44 years	91,590	15.0%
45-64 years	183,512	30.0%
≥ 65 years	334,006	54.6%
Sex		
Female	67,230	88.9%
Male	8,425	11.1%
Race ⁵		
American Indian or Alaska Native	814	1.1%
Asian	954	1.3%
Black or African American	14,967	19.8%
Multi-racial	104	0.1%
Native Hawaiian or Other Pacific Islander	70	0.1%
Unknown	8,155	10.8%
White	50,591	66.9%
Hispanic origin		
Yes	5,054	6.7%
No	67,566	89.3%
Unknown	3,035	4.0%
Year		
2017	91,018	14.9%
2018	92,063	15.0%
2019	100,777	16.5%
2020	97,178	15.9%
2021	95,241	15.6%
2022	69,991	11.4%
2023	65,870	10.8%
Health Characteristics	Number/Mean	Percent/ Standard Deviation³

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 December 31, 2023

Combined comorbidity score ⁶ from 90 days prior to the index date through the index date (inclusive) ⁷	2.4	2.9
Combined comorbidity score categories		
<=0	195,332	31.9%
1-2	197,745	32.3%
3-4	98,294	16.1%
5+	120,767	19.7%
Tobacco Use assessed from all available data up to and including the index date	284,092	46.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	282,710	46.2%
Tobacco Use: identified by the dispensing of smoking-related medications	25,703	4.2%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/Standard Deviation³
Mean number of ambulatory encounters	9.8	8.7
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.3	0.7
Mean number of non-acute institutional encounters	0.1	0.4
Mean number of other ambulatory encounters	6.7	13.0
Mean number of filled prescriptions	13.9	15.4
Mean number of generics dispensed	7.6	6.2
Mean number of unique drug classes dispensed	7.2	5.8

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 SCL (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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	26,046	N/A
Index dates ⁴	137,520	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	60.1	12.6
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	1,159	0.8%
18-44 years	26,299	19.1%
45-64 years	40,214	29.2%
≥ 65 years	69,553	50.6%
Sex		
Female	23,496	90.2%
Male	2,550	9.8%
Race ⁵		
American Indian or Alaska Native	272	1.0%
Asian	477	1.8%
Black or African American	5,948	22.8%
Multi-racial	31	0.1%
Native Hawaiian or Other Pacific Islander	26	0.1%
Unknown	3,464	13.3%
White	15,828	60.8%
Hispanic origin		
Yes	2,155	8.3%
No	22,604	86.8%
Unknown	1,287	4.9%
Year		
2017	22,187	16.1%
2018	21,899	15.9%
2019	22,968	16.7%
2020	22,456	16.3%
2021	21,903	15.9%
2022	13,464	9.8%
2023	12,643	9.2%
Health Characteristics	Number/Mean	Percent/ Standard Deviation³

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 December 31, 2023

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	64,475	46.9%
1-2	48,453	35.2%
3-4	15,504	11.3%
5+	9,088	6.6%
Tobacco Use assessed from all available data up to and including the index date	50,951	37.0%
Tobacco Use: diagnosed or identified by smoking cessation procedures	50,527	36.7%
Tobacco Use: identified by the dispensing of smoking-related medications	5,299	3.9%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/Standard Deviation³
Mean number of ambulatory encounters	8.7	6.9
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.1	7.2
Mean number of filled prescriptions	11.7	11.8
Mean number of generics dispensed	6.9	5.6
Mean number of unique drug classes dispensed	6.6	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 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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	88,030	N/A
Index dates ⁴	455,071	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	58.5	13.9
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	3,041	0.7%
18-44 years	98,142	21.6%
45-64 years	156,848	34.5%
≥ 65 years	196,410	43.2%
Sex		
Female	79,457	90.3%
Male	8,573	9.7%
Race ⁵		
American Indian or Alaska Native	912	1.0%
Asian	1,587	1.8%
Black or African American	21,498	24.4%
Multi-racial	97	0.1%
Native Hawaiian or Other Pacific Islander	93	0.1%
Unknown	10,352	11.8%
White	53,491	60.8%
Hispanic origin		
Yes	6,787	7.7%
No	77,732	88.3%
Unknown	3,511	4.0%
Year		
2017	97,845	21.5%
2018	125,882	27.7%
2019	95,864	21.1%
2020	63,578	14.0%
2021	45,038	9.9%
2022	26,864	5.9%
2023	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 December 31, 2023

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	2.1	2.6
Combined comorbidity score categories		
<=0	158,321	34.8%
1-2	150,085	33.0%
3-4	72,923	16.0%
5+	73,742	16.2%
Tobacco Use assessed from all available data up to and including the index date	197,509	43.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	195,680	43.0%
Tobacco Use: identified by the dispensing of smoking-related medications	21,692	4.8%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	11.5	11.9
Mean number of emergency room encounters	0.5	1.6
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	10.1	18.2
Mean number of filled prescriptions	14.3	14.3
Mean number of generics dispensed	7.9	6.3
Mean number of unique drug classes dispensed	7.5	5.9

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	87,371	N/A
Index dates ⁴	433,002	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.0	14.0
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	2,857	0.7%
18-44 years	88,841	20.5%
45-64 years	144,456	33.4%
≥ 65 years	196,245	45.3%
Sex		
Female	78,841	90.2%
Male	8,530	9.8%
Race ⁵		
American Indian or Alaska Native	899	1.0%
Asian	1,559	1.8%
Black or African American	21,277	24.4%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	10,184	11.7%
White	53,263	61.0%
Hispanic origin		
Yes	6,680	7.6%
No	77,239	88.4%
Unknown	3,452	4.0%
Year		
2017	90,453	20.9%
2018	119,007	27.5%
2019	91,074	21.0%
2020	60,583	14.0%
2021	*****	*****
2022	*****	*****
2023	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 December 31, 2023

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	2.1	2.7
Combined comorbidity score categories		
<=0	147,976	34.2%
1-2	141,304	32.6%
3-4	70,714	16.3%
5+	73,008	16.9%
Tobacco Use assessed from all available data up to and including the index date	188,091	43.4%
Tobacco Use: diagnosed or identified by smoking cessation procedures	186,725	43.1%
Tobacco Use: identified by the dispensing of smoking-related medications	19,201	4.4%
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	11.7	12.1
Mean number of emergency room encounters	0.5	1.6
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	7.3	14.6
Mean number of filled prescriptions	13.7	14.1
Mean number of generics dispensed	7.7	6.3
Mean number of unique drug classes dispensed	7.3	5.9

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.

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 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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	82,054	N/A
Index dates ⁴	379,643	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.7	14.1
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	2,322	0.6%
18-44 years	73,958	19.5%
45-64 years	122,846	32.4%
≥ 65 years	179,999	47.4%
Sex		
Female	74,042	90.2%
Male	8,012	9.8%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	1,406	1.7%
Black or African American	20,012	24.4%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	80	0.1%
Unknown	9,157	11.2%
White	50,521	61.6%
Hispanic origin		
Yes	5,963	7.3%
No	72,944	88.9%
Unknown	3,147	3.8%
Year		
2017	75,211	19.8%
2018	103,693	27.3%
2019	80,086	21.1%
2020	54,101	14.3%
2021	41,797	11.0%
2022	24,755	6.5%
2023	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 December 31, 2023

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	2.2	2.7
Combined comorbidity score categories		
<=0	126,197	33.2%
1-2	123,142	32.4%
3-4	62,397	16.4%
5+	67,907	17.9%
Tobacco Use assessed from all available data up to and including the index date	167,937	44.2%
Tobacco Use: diagnosed or identified by smoking cessation procedures	166,937	44.0%
Tobacco Use: identified by the dispensing of smoking-related medications	14,935	3.9%
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	11.9	12.4
Mean number of emergency room encounters	0.5	1.6
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.1	0.3
Mean number of other ambulatory encounters	5.3	10.2
Mean number of filled prescriptions	13.3	13.6
Mean number of generics dispensed	7.6	6.2
Mean number of unique drug classes dispensed	7.2	5.8

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	21,539	N/A
Index dates ⁴	81,801	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	59.4	13.4
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	806	1.0%
18-44 years	16,513	20.2%
45-64 years	24,070	29.4%
≥ 65 years	40,243	49.2%
Sex		
Female	19,040	88.4%
Male	2,499	11.6%
Race ⁵		
American Indian or Alaska Native	128	0.6%
Asian	452	2.1%
Black or African American	6,656	30.9%
Multi-racial	29	0.1%
Native Hawaiian or Other Pacific Islander	27	0.1%
Unknown	2,566	11.9%
White	11,681	54.2%
Hispanic origin		
Yes	1,574	7.3%
No	18,989	88.2%
Unknown	976	4.5%
Year		
2017	17,272	21.1%
2018	20,986	25.7%
2019	18,018	22.0%
2020	12,098	14.8%
2021	8,453	10.3%
2022	4,974	6.1%
2023	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 December 31, 2023

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	2.0
Combined comorbidity score categories		
<=0	38,672	47.3%
1-2	27,485	33.6%
3-4	9,585	11.7%
5+	6,059	7.4%
Tobacco Use assessed from all available data up to and including the index date	34,866	42.6%
Tobacco Use: diagnosed or identified by smoking cessation procedures	34,516	42.2%
Tobacco Use: identified by the dispensing of smoking-related medications	3,755	4.6%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.4	8.8
Mean number of emergency room encounters	0.3	0.8
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.2	7.5
Mean number of filled prescriptions	11.7	12.0
Mean number of generics dispensed	6.9	5.8
Mean number of unique drug classes dispensed	6.6	5.4

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	38,129	N/A
Index dates ⁴	308,294	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	63.0	13.8
Age		
0-5 years	206	0.1%
6-11 years	812	0.3%
12-17 years	1,895	0.6%
18-44 years	47,298	15.3%
45-64 years	80,007	26.0%
≥ 65 years	178,076	57.8%
Sex		
Female	32,330	84.8%
Male	5,799	15.2%
Race ⁵		
American Indian or Alaska Native	261	0.7%
Asian	587	1.5%
Black or African American	7,218	18.9%
Multi-racial	41	0.1%
Native Hawaiian or Other Pacific Islander	45	0.1%
Unknown	3,633	9.5%
White	26,344	69.1%
Hispanic origin		
Yes	2,100	5.5%
No	34,517	90.5%
Unknown	1,512	4.0%
Year		
2017	68,008	22.1%
2018	67,892	22.0%
2019	54,060	17.5%
2020	42,624	13.8%
2021	36,215	11.7%
2022	24,995	8.1%
2023	14,500	4.7%

Table 1u. Aggregated Characteristics of Patients with Mixed Cutaneous Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

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	125,632	40.8%
1-2	98,099	31.8%
3-4	42,999	13.9%
5+	41,564	13.5%
Tobacco Use assessed from all available data up to and including the index date	139,697	45.3%
Tobacco Use: diagnosed or identified by smoking cessation procedures	138,113	44.8%
Tobacco Use: identified by the dispensing of smoking-related medications	15,944	5.2%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)"	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	10.8	11.1
Mean number of emergency room encounters	0.4	1.4
Mean number of inpatient hospital encounters	0.2	0.7
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	8.7	17.1
Mean number of filled prescriptions	12.9	13.6
Mean number of generics dispensed	7.3	6.0
Mean number of unique drug classes dispensed	7.0	5.6

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	37,928	N/A
Index dates ⁴	295,138	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	63.4	13.7
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	1,825	0.6%
18-44 years	44,330	15.0%
45-64 years	70,675	23.9%
≥ 65 years	177,316	60.1%
Sex		
Female	32,141	84.7%
Male	5,787	15.3%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	7,156	18.9%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	3,607	9.5%
White	26,243	69.2%
Hispanic origin		
Yes	2,087	5.5%
No	34,342	90.5%
Unknown	1,499	4.0%
Year		
2017	63,176	21.4%
2018	64,061	21.7%
2019	51,998	17.6%
2020	40,872	13.8%
2021	35,539	12.0%
2022	*****	*****
2023	*****	*****

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 December 31, 2023

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	1.8	2.6
Combined comorbidity score categories		
<=0	119,917	40.6%
1-2	92,230	31.2%
3-4	41,844	14.2%
5+	41,147	13.9%
Tobacco Use assessed from all available data up to and including the index date	132,584	44.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	131,462	44.5%
Tobacco Use: identified by the dispensing of smoking-related medications	12,616	4.3%
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	10.7	10.7
Mean number of emergency room encounters	0.4	1.4
Mean number of inpatient hospital encounters	0.2	0.7
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	6.3	13.3
Mean number of filled prescriptions	12.2	13.2
Mean number of generics dispensed	7.1	5.9
Mean number of unique drug classes dispensed	6.8	5.5

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 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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	35,677	N/A
Index dates ⁴	260,962	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	64.0	13.8
Age		
0-5 years	136	0.1%
6-11 years	663	0.3%
12-17 years	1,471	0.6%
18-44 years	36,973	14.2%
45-64 years	60,080	23.0%
≥ 65 years	161,639	61.9%
Sex		
Female	30,257	84.8%
Male	5,420	15.2%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	531	1.5%
Black or African American	6,699	18.8%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	3,259	9.1%
White	24,873	69.7%
Hispanic origin		
Yes	*****	*****
No	32,436	90.9%
Unknown	*****	*****
Year		
2017	53,296	20.4%
2018	56,017	21.5%
2019	46,221	17.7%
2020	36,942	14.2%
2021	32,334	12.4%
2022	22,908	8.8%
2023	13,244	5.1%

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 December 31, 2023

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	1.8	2.6
Combined comorbidity score categories		
<=0	104,677	40.1%
1-2	81,285	31.1%
3-4	37,082	14.2%
5+	37,918	14.5%
Tobacco Use assessed from all available data up to and including the index date	119,137	45.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	118,473	45.4%
Tobacco Use: identified by the dispensing of smoking-related medications	10,581	4.1%
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	10.9	10.9
Mean number of emergency room encounters	0.4	1.4
Mean number of inpatient hospital encounters	0.2	0.8
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	4.9	10.1
Mean number of filled prescriptions	11.9	13.1
Mean number of generics dispensed	7.0	5.9
Mean number of unique drug classes dispensed	6.7	5.5

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 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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	20,765	N/A
Index dates ⁴	101,689	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	65.3	12.4
Age		
0-5 years	87	0.1%
6-11 years	430	0.4%
12-17 years	773	0.8%
18-44 years	11,586	11.4%
45-64 years	19,955	19.6%
≥ 65 years	68,858	67.7%
Sex		
Female	17,113	82.4%
Male	3,652	17.6%
Race ⁵		
American Indian or Alaska Native	78	0.4%
Asian	299	1.4%
Black or African American	3,528	17.0%
Multi-racial	19	0.1%
Native Hawaiian or Other Pacific Islander	22	0.1%
Unknown	1,653	8.0%
White	15,166	73.0%
Hispanic origin		
Yes	868	4.2%
No	19,121	92.1%
Unknown	776	3.7%
Year		
2017	20,046	19.7%
2018	20,245	19.9%
2019	18,289	18.0%
2020	15,197	14.9%
2021	13,147	12.9%
2022	9,350	9.2%
2023	5,415	5.3%

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 December 31, 2023

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	52,203	51.3%
1-2	32,065	31.5%
3-4	10,612	10.4%
5+	6,809	6.7%
Tobacco Use assessed from all available data up to and including the index date	43,742	43.0%
Tobacco Use: diagnosed or identified by smoking cessation procedures	43,401	42.7%
Tobacco Use: identified by the dispensing of smoking-related medications	4,176	4.1%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.0	7.5
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	2.7	5.8
Mean number of filled prescriptions	10.4	10.9
Mean number of generics dispensed	6.4	5.5
Mean number of unique drug classes dispensed	6.1	5.1

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,491	N/A
Index dates ⁴	4,975	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	62.0	13.6
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	900	18.1%
45-64 years	877	17.6%
≥ 65 years	3,077	61.8%
Sex		
Female	1,317	88.3%
Male	174	11.7%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	126	8.5%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	187	12.5%
White	1,104	74.0%
Hispanic origin		
Yes	81	5.4%
No	1,305	87.5%
Unknown	105	7.0%
Year		
2017	454	9.1%
2018	655	13.2%
2019	663	13.3%
2020	704	14.2%
2021	1,044	21.0%
2022	736	14.8%
2023	719	14.5%

Table 1y. Aggregated Characteristics of Patients with Chilblains with Evidence of Systemic Lupus Erythematosus¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ assessed from 90 days prior to the index date through the index date (inclusive) ⁷	1.3	2.0
Combined comorbidity score categories		
<=0	2,200	44.2%
1-2	1,802	36.2%
3-4	618	12.4%
5+	355	7.1%
Tobacco Use total assessed from all available data up to and including the index date	1,877	37.7%
Tobacco Use: diagnosed or identified by smoking cessation procedures	1,870	37.6%
Tobacco Use: identified by the dispensing of smoking-related medications	110	2.2%
Health Service Utilization Intensity Metrics assessed from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.6	7.9
Mean number of emergency room encounters	0.2	0.6
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	3.4	6.7
Mean number of filled prescriptions	9.9	9.5
Mean number of generics dispensed	6.5	5.3
Mean number of unique drug classes dispensed	6.2	5.0

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.

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,477	N/A
Index dates ⁴	4,910	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	62.4	13.6
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	86	1.8%
18-44 years	866	17.6%
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	*****	*****
Year		
2017	440	9.0%
2018	637	13.0%
2019	655	13.3%
2020	691	14.1%
2021	1,032	21.0%
2022	*****	*****
2023	*****	*****

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 December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation³
Combined comorbidity score ⁶ assessed from 90 days prior to the index date through the index date (inclusive) ⁷	1.3	2.0
Combined comorbidity score categories		
<=0	2,166	44.1%
1-2	1,779	36.2%
3-4	610	12.4%
5+	355	7.2%
Tobacco Use total assessed from all available data up to and including the index date	1,870	38.1%
Tobacco Use: diagnosed or identified by smoking cessation procedures	1,863	37.9%
Tobacco Use: identified by the dispensing of smoking-related medications	110	2.2%
Health Service Utilization Intensity Metrics assessed from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.6	8.0
Mean number of emergency room encounters	0.2	0.6
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	3.3	6.1
Mean number of filled prescriptions	10.0	9.5
Mean number of generics dispensed	6.5	5.3
Mean number of unique drug classes dispensed	6.3	5.0

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	1,414	N/A
Index dates ⁴	4,565	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	62.7	13.5
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	797	17.5%
45-64 years	791	17.3%
≥ 65 years	2,895	63.4%
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	1,050	74.3%
Hispanic origin		
Yes	*****	*****
No	1,235	87.3%
Unknown	*****	*****
Year		
2017	411	9.0%
2018	581	12.7%
2019	611	13.4%
2020	635	13.9%
2021	967	21.2%
2022	684	15.0%
2023	676	14.8%

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 December 31, 2023

Health Characteristics	Number/Mean	Percent/ Standard Deviation ³
Combined comorbidity score ⁶ assessed from 90 days prior to the index date through the index date (inclusive) ⁷	1.4	2.0
Combined comorbidity score categories		
<=0	1,994	43.7%
1-2	1,659	36.3%
3-4	578	12.7%
5+	334	7.3%
Tobacco Use total assessed from all available data up to and including the index date	1,775	38.9%
Tobacco Use: diagnosed or identified by smoking cessation procedures	1,772	38.8%
Tobacco Use: identified by the dispensing of smoking-related medications	102	2.2%
Health Service Utilization Intensity Metrics assessed from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.6	7.9
Mean number of emergency room encounters	0.2	0.6
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	6.0
Mean number of filled prescriptions	10.0	9.6
Mean number of generics dispensed	6.6	5.4
Mean number of unique drug classes dispensed	6.3	5.1

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 December 31, 2023

Patient Characteristics²	Number/Mean	Percent/ Standard Deviation³
Unique patients	979	N/A
Index dates ⁴	2,851	100.0%
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation³
Age (years)	61.6	13.5
Age		
0-5 years	*****	*****
6-11 years	*****	*****
12-17 years	*****	*****
18-44 years	537	18.8%
45-64 years	491	17.2%
≥ 65 years	1,762	61.8%
Sex		
Female	855	87.3%
Male	124	12.7%
Race ⁵		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	133	13.6%
White	705	72.0%
Hispanic origin		
Yes	*****	*****
No	847	86.5%
Unknown	*****	*****
Year		
2017	261	9.2%
2018	390	13.7%
2019	378	13.3%
2020	417	14.6%
2021	577	20.2%
2022	403	14.1%
2023	425	14.9%

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 December 31, 2023

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	1.8
Combined comorbidity score categories		
<=0	1,346	47.2%
1-2	1,045	36.7%
3-4	314	11.0%
5+	146	5.1%
Tobacco Use assessed from all available data up to and including the index date	1,042	36.5%
Tobacco Use: diagnosed or identified by smoking cessation procedures	1,040	36.5%
Tobacco Use: identified by the dispensing of smoking-related medications	57	2.0%
Health Service Utilization Intensity Metrics from 90 days prior to the index date through the index date (inclusive)	Number/Mean	Percent/ Standard Deviation³
Mean number of ambulatory encounters	9.1	7.2
Mean number of emergency room encounters	0.2	0.6
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	2.7	4.6
Mean number of filled prescriptions	10.0	9.2
Mean number of generics dispensed	6.6	5.2
Mean number of unique drug classes dispensed	6.3	4.9

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 Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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>	192,636	982,376	152,120,166	177845397373	486,914,161.2	126.63	39.56 (39.39, 39.74)	928,574,901	4,820	5
<i>Patients with Discoid lupus erythematosus coded by any known provider</i>	190,739	932,799	152,120,166	177845397373	486,914,161.2	125.39	39.17 (39.00, 39.35)	890,386,945	4,668	5
<i>Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)</i>	171,541	804,770	152,120,166	177845397373	486,914,161.2	112.77	35.23 (35.06, 35.40)	773,571,514	4,510	5
<i>Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist</i>	49,585	187,224	152,120,166	177845397373	486,914,161.2	32.60	10.18 (10.09, 10.27)	186,286,510	3,757	4
<i>Patients with Subacute cutaneous lupus erythematosus</i>	31,541	144,234	152,120,166	177845397373	486,914,161.2	20.73	6.48 (6.41, 6.55)	138,183,544	4,381	5
<i>Patients with Subacute cutaneous lupus erythematosus coded by any known provider</i>	31,349	142,926	152,120,166	177845397373	486,914,161.2	20.61	6.44 (6.37, 6.51)	137,094,616	4,373	5

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)</i>	28,241	127,451	152,120,166	177845397373	486,914,161.2	18.56	5.80 (5.73, 5.87)	122,165,135	4,326	5
<i>Patients with Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist</i>	17,645	71,718	152,120,166	177845397373	486,914,161.2	11.60	3.62 (3.57, 3.68)	72,428,514	4,105	4
<i>Patients with Other lupus erythematosus</i>	60,284	284,293	152,120,166	177845397373	486,914,161.2	39.63	12.38 (12.28, 12.48)	262,896,978	4,361	5
<i>Patients with Other lupus erythematosus coded by any known provider</i>	59,694	260,912	152,120,166	177845397373	486,914,161.2	39.24	12.26 (12.16, 12.36)	244,141,129	4,090	4
<i>Patients with Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)</i>	52,179	211,468	152,120,166	177845397373	486,914,161.2	34.30	10.72 (10.62, 10.81)	201,011,868	3,852	4

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 coded by any dermatologist or rheumatologist</i>	20,362	67,957	152,120,166	177845397373	486,914,161.2	13.39	4.18 (4.12, 4.24)	66,218,248	3,252	3
<i>Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus</i>	81,059	725,677	152,120,166	177845397373	486,914,161.2	53.29	16.65 (16.53, 16.76)	638,101,806	7,872	9
<i>Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by any known provider</i>	80,435	696,146	152,120,166	177845397373	486,914,161.2	52.88	16.52 (16.41, 16.63)	620,308,836	7,712	9

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 specialty)</i>	75,655	612,138	152,120,166	177845397373	486,914,161.2	49.73	15.54 (15.43, 15.65)	547,678,948	7,239	8
<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>	26,046	137,520	152,120,166	177845397373	486,914,161.2	17.12	5.35 (5.28, 5.41)	134,115,524	5,149	5

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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</i>	88,030	455,071	152,120,166	177845397373	486,914,161.2	57.87	18.08 (17.96, 18.20)	591,842,795	6,723	5
<i>Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider</i>	87,371	433,002	152,120,166	177845397373	486,914,161.2	57.44	17.94 (17.83, 18.06)	567,959,333	6,501	5
<i>Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)</i>	82,054	379,643	152,120,166	177845397373	486,914,161.2	53.94	16.85 (16.74, 16.97)	501,247,463	6,109	5
<i>Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist</i>	21,539	81,801	152,120,166	177845397373	486,914,161.2	14.16	4.42 (4.36, 4.48)	109,954,580	5,105	4

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 Mixed cutaneous lupus erythematosus</i>	38,129	308,294	152,120,166	177845397373	486,914,161.2	25.07	7.83 (7.75, 7.91)	366,296,319	9,607	8
<i>Patients with Mixed cutaneous lupus erythematosus coded by any known provider</i>	37,928	295,138	152,120,166	177845397373	486,914,161.2	24.93	7.79 (7.71, 7.87)	352,288,390	9,288	8
<i>Patients with Mixed cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)</i>	35,677	260,962	152,120,166	177845397373	486,914,161.2	23.45	7.33 (7.25, 7.40)	311,911,246	8,743	7
<i>Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist</i>	20,765	101,689	152,120,166	177845397373	486,914,161.2	13.65	4.26 (4.21, 4.32)	123,797,528	5,962	5
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus</i>	1,491	4,975	152,120,166	177845397373	486,914,161.2	0.98	0.31 (0.29, 0.32)	4,767,471	3,197	3

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 Any Known Provider</i>	1,477	4,910	152,120,166	177845397373	486,914,161.2	0.97	0.30 (0.29, 0.32)	4,713,849	3,192	3
<i>Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)</i>	1,414	4,565	152,120,166	177845397373	486,914,161.2	0.93	0.29 (0.28, 0.31)	4,379,947	3,098	3

Table 2. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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 a Dermatologist or Rheumatologist</i>	979	2,851	152,120,166	177845397373	486,914,161.2	0.64	0.20 (0.19, 0.21)	2,793,022	2,853	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.

Table 3. Summary of health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	165,699	853,094	81,549,343	96,072,352,581	263,031,766.1	203.19	63.00 (62.69, 63.30)	809,198,982	4,884	5
Male	26,937	129,282	70,570,823	81,773,044,792	223,882,395.0	38.17	12.03 (11.89, 12.18)	119,375,919	4,432	5
Patients with Discoid lupus erythematosus coded by any known provider										
Female	164,014	809,283	81,549,343	96,072,352,581	263,031,766.1	201.12	62.36 (62.05, 62.66)	776,748,486	4,736	5
Male	26,725	123,516	70,570,823	81,773,044,792	223,882,395.0	37.87	11.94 (11.79, 12.08)	113,638,459	4,252	5
Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Female	148,146	698,969	81,549,343	96,072,352,581	263,031,766.1	181.66	56.32 (56.04, 56.61)	675,423,658	4,559	5
Male	23,395	105,801	70,570,823	81,773,044,792	223,882,395.0	33.15	10.45 (10.32, 10.58)	98,147,856	4,195	5
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
Female	41,183	158,107	81,549,343	96,072,352,581	263,031,766.1	50.50	15.66 (15.51, 15.81)	157,746,873	3,830	4
Male	8,402	29,117	70,570,823	81,773,044,792	223,882,395.0	11.91	3.75 (3.67, 3.83)	28,539,637	3,397	3
Patients with Subacute cutaneous lupus erythematosus										
Female	25,596	117,462	81,549,343	96,072,352,581	263,031,766.1	31.39	9.73 (9.61, 9.85)	112,714,589	4,404	5
Male	5,945	26,772	70,570,823	81,773,044,792	223,882,395.0	8.42	2.66 (2.59, 2.72)	25,468,955	4,284	5
Patients with Subacute cutaneous lupus erythematosus coded by any known provider										
Female	25,430	116,261	81,549,343	96,072,352,581	263,031,766.1	31.18	9.67 (9.55, 9.79)	111,706,717	4,393	5
Male	5,919	26,665	70,570,823	81,773,044,792	223,882,395.0	8.39	2.64 (2.58, 2.71)	25,387,899	4,289	5
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Female	22,967	103,674	81,549,343	96,072,352,581	263,031,766.1	28.16	8.73 (8.62, 8.85)	99,734,868	4,343	5
Male	5,274	23,777	70,570,823	81,773,044,792	223,882,395.0	7.47	2.36 (2.29, 2.42)	22,430,267	4,253	5
Patients with Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
Female	14,227	57,858	81,549,343	96,072,352,581	263,031,766.1	17.45	5.41 (5.32, 5.50)	58,802,516	4,133	4
Male	3,418	13,860	70,570,823	81,773,044,792	223,882,395.0	4.84	1.53 (1.48, 1.58)	13,625,998	3,987	4
Patients with Other lupus erythematosus										
Female	50,360	243,578	81,549,343	96,072,352,581	263,031,766.1	61.75	19.15 (18.98, 19.31)	225,756,303	4,483	5
Male	9,924	40,715	70,570,823	81,773,044,792	223,882,395.0	14.06	4.43 (4.35, 4.52)	37,140,675	3,743	4
Patients with Other lupus erythematosus coded by any known provider										
Female	49,844	223,769	81,549,343	96,072,352,581	263,031,766.1	61.12	18.95 (18.78, 19.12)	210,588,107	4,225	4
Male	9,850	37,143	70,570,823	81,773,044,792	223,882,395.0	13.96	4.40 (4.31, 4.49)	33,553,022	3,406	4

Table 3. Summary of health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Female	43,740	179,388	81,549,343	96,072,352,581	263,031,766.1	53.64	16.63 (16.47, 16.79)	171,790,557	3,928	4
Male	8,439	32,080	70,570,823	81,773,044,792	223,882,395.0	11.96	3.77 (3.69, 3.85)	29,221,311	3,463	4
Patients with Other lupus erythematosus coded by any dermatologist or rheumatologist										
Female	16,620	56,158	81,549,343	96,072,352,581	263,031,766.1	20.38	6.32 (6.22, 6.42)	54,918,120	3,304	3
Male	3,742	11,799	70,570,823	81,773,044,792	223,882,395.0	5.30	1.67 (1.62, 1.73)	11,300,128	3,020	3
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus										
Female	71,848	657,270	81,549,343	96,072,352,581	263,031,766.1	88.10	27.32 (27.12, 27.52)	580,212,389	8,076	9
Male	9,211	68,407	70,570,823	81,773,044,792	223,882,395.0	13.05	4.11 (4.03, 4.20)	57,889,417	6,285	7
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by any known provider										
Female	71,285	629,944	81,549,343	96,072,352,581	263,031,766.1	87.41	27.10 (26.90, 27.30)	563,590,833	7,906	9
Male	9,150	66,202	70,570,823	81,773,044,792	223,882,395.0	12.97	4.09 (4.00, 4.17)	56,718,003	6,199	7
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	67,230	553,160	81,549,343	96,072,352,581	263,031,766.1	82.44	25.56 (25.37, 25.75)	496,853,347	7,390	8
Male	8,425	58,978	70,570,823	81,773,044,792	223,882,395.0	11.94	3.76 (3.68, 3.84)	50,825,601	6,033	7
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by a dermatologist or rheumatologist										
Female	23,496	125,115	81,549,343	96,072,352,581	263,031,766.1	28.81	8.93 (8.82, 9.05)	121,980,517	5,192	5
Male	2,550	12,405	70,570,823	81,773,044,792	223,882,395.0	3.61	1.14 (1.10, 1.18)	12,135,007	4,759	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
Female	79,457	409,364	81,549,343	96,072,352,581	263,031,766.1	97.43	30.21 (30.00, 30.42)	532,354,019	6,700	5
Male	8,573	45,707	70,570,823	81,773,044,792	223,882,395.0	12.15	3.83 (3.75, 3.91)	59,488,776	6,939	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider										
Female	78,841	391,150	81,549,343	96,072,352,581	263,031,766.1	96.68	29.97 (29.77, 30.18)	513,007,071	6,507	5
Male	8,530	41,852	70,570,823	81,773,044,792	223,882,395.0	12.09	3.81 (3.73, 3.89)	54,952,262	6,442	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Female	74,042	342,202	81,549,343	96,072,352,581	263,031,766.1	90.79	28.15 (27.95, 28.35)	451,993,783	6,105	5
Male	8,012	37,441	70,570,823	81,773,044,792	223,882,395.0	11.35	3.58 (3.50, 3.66)	49,253,680	6,147	5

Table 3. Summary of health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist										
Female	19,040	72,514	81,549,343	96,072,352,581	263,031,766.1	23.35	7.24 (7.14, 7.34)	97,319,640	5,111	4
Male	2,499	9,287	70,570,823	81,773,044,792	223,882,395.0	3.54	1.12 (1.07, 1.16)	12,634,940	5,056	4
Patients with Mixed cutaneous lupus erythematosus										
Female	32,330	261,671	81,549,343	96,072,352,581	263,031,766.1	39.64	12.29 (12.16, 12.43)	313,524,884	9,698	8
Male	5,799	46,623	70,570,823	81,773,044,792	223,882,395.0	8.22	2.59 (2.52, 2.66)	52,771,435	9,100	8
Patients with Mixed cutaneous lupus erythematosus coded by any known provider										
Female	32,141	250,623	81,549,343	96,072,352,581	263,031,766.1	39.41	12.22 (12.09, 12.35)	301,819,123	9,390	8
Male	5,787	44,515	70,570,823	81,773,044,792	223,882,395.0	8.20	2.58 (2.52, 2.65)	50,469,267	8,721	8
Patients with Mixed cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Female	30,257	221,075	81,549,343	96,072,352,581	263,031,766.1	37.10	11.50 (11.37, 11.63)	266,855,948	8,820	7
Male	5,420	39,887	70,570,823	81,773,044,792	223,882,395.0	7.68	2.42 (2.36, 2.49)	45,055,298	8,313	7
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
Female	17,113	84,268	81,549,343	96,072,352,581	263,031,766.1	20.98	6.51 (6.41, 6.60)	103,271,296	6,035	5
Male	3,652	17,421	70,570,823	81,773,044,792	223,882,395.0	5.17	1.63 (1.58, 1.68)	20,526,232	5,621	5
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
Female	1,317	4,331	81,549,343	96,072,352,581	263,031,766.1	1.61	0.50 (0.47, 0.53)	4,154,274	3,154	3
Male	174	644	70,570,823	81,773,044,792	223,882,395.0	0.25	0.08 (0.07, 0.09)	613,197	3,524	4
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
Female	*****	*****	81,549,343	96,072,352,581	263,031,766.1	*****	*****	4,119,393	*****	*****
Male	*****	*****	70,570,823	81,773,044,792	223,882,395.0	*****	*****	594,456	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Female	*****	*****	81,549,343	96,072,352,581	263,031,766.1	*****	*****	3,849,676	*****	*****
Male	*****	*****	70,570,823	81,773,044,792	223,882,395.0	*****	*****	530,271	*****	*****

Table 3. Summary of health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 Coded by a Dermatologist or Rheumatologist										
Female	855	2,484	81,549,343	96,072,352,581	263,031,766.1	1.05	0.33 (0.30, 0.35)	2,438,211	2,852	3
Male	124	367	70,570,823	81,773,044,792	223,882,395.0	0.18	0.06 (0.05, 0.07)	354,811	2,861	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.

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

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	374	1,076	22,343,184	17,144,417,981	46,938,858.3	1.67	0.80 (0.72, 0.88)	912,813	2,441	3
6-11 years	652	1,977	22,980,392	17,862,591,464	48,905,110.1	2.84	1.33 (1.23, 1.44)	1,644,183	2,522	3
12-17 years	2,151	6,637	21,588,890	16,291,735,491	44,604,340.8	9.96	4.82 (4.62, 5.03)	5,263,394	2,447	3
18-44 years	42,684	191,066	45,453,791	36,391,587,593	99,634,736.7	93.91	42.84 (42.44, 43.25)	163,421,751	3,829	4
45-64 years	59,957	321,291	23,648,678	22,113,120,190	60,542,423.5	253.53	99.03 (98.24, 99.83)	291,179,337	4,856	5
≥ 65 years	92,395	460,329	45,345,749	68,041,944,654	186,288,691.7	203.76	49.60 (49.28, 49.92)	466,153,423	5,045	5
Patients with Discoid lupus erythematosus coded by any known provider										
0-5 years	360	1,024	22,343,184	17,144,417,981	46,938,858.3	1.61	0.77 (0.69, 0.85)	872,073	2,422	3
6-11 years	627	1,903	22,980,392	17,862,591,464	48,905,110.1	2.73	1.28 (1.19, 1.39)	1,575,798	2,513	3
12-17 years	2,067	6,281	21,588,890	16,291,735,491	44,604,340.8	9.57	4.63 (4.44, 4.84)	4,976,710	2,408	3
18-44 years	41,650	174,145	45,453,791	36,391,587,593	99,634,736.7	91.63	41.80 (41.40, 42.21)	149,006,934	3,578	4
45-64 years	59,201	289,984	23,648,678	22,113,120,190	60,542,423.5	250.34	97.78 (97.00, 98.58)	268,225,232	4,531	5
≥ 65 years	92,349	459,462	45,345,749	68,041,944,654	186,288,691.7	203.66	49.57 (49.25, 49.89)	465,730,198	5,043	5
Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
0-5 years	320	859	22,343,184	17,144,417,981	46,938,858.3	1.43	0.68 (0.61, 0.76)	721,978	2,256	3
6-11 years	527	1,550	22,980,392	17,862,591,464	48,905,110.1	2.29	1.08 (0.99, 1.17)	1,297,017	2,461	3
12-17 years	1,737	5,046	21,588,890	16,291,735,491	44,604,340.8	8.05	3.89 (3.72, 4.08)	3,992,025	2,298	3

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
18-44 years	36,661	140,539	45,453,791	36,391,587,593	99,634,736.7	80.66	36.80 (36.42, 37.17)	121,107,122	3,303	4
45-64 years	53,555	240,027	23,648,678	22,113,120,190	60,542,423.5	226.46	88.46 (87.71, 89.21)	226,124,736	4,222	4
≥ 65 years	83,777	416,749	45,345,749	68,041,944,654	186,288,691.7	184.75	44.97 (44.67, 45.28)	420,328,636	5,017	5
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
0-5 years	177	362	22,343,184	17,144,417,981	46,938,858.3	0.79	0.38 (0.33, 0.44)	324,279	1,832	2
6-11 years	250	743	22,980,392	17,862,591,464	48,905,110.1	1.09	0.51 (0.45, 0.58)	617,772	2,471	3
12-17 years	712	1,911	21,588,890	16,291,735,491	44,604,340.8	3.30	1.60 (1.48, 1.72)	1,492,642	2,096	3
18-44 years	11,183	35,407	45,453,791	36,391,587,593	99,634,736.7	24.60	11.22 (11.02, 11.43)	28,776,162	2,573	3
45-64 years	14,417	51,033	23,648,678	22,113,120,190	60,542,423.5	60.96	23.81 (23.43, 24.20)	47,164,960	3,271	4
≥ 65 years	24,102	97,768	45,345,749	68,041,944,654	186,288,691.7	53.15	12.94 (12.78, 13.10)	107,910,695	4,477	4
Patients with Subacute cutaneous lupus erythematosus										
0-5 years	27	42	22,343,184	17,144,417,981	46,938,858.3	0.12	0.06 (0.04, 0.08)	41,985	1,555	2
6-11 years	112	298	22,980,392	17,862,591,464	48,905,110.1	0.49	0.23 (0.19, 0.28)	247,151	2,207	3
12-17 years	243	493	21,588,890	16,291,735,491	44,604,340.8	1.13	0.54 (0.48, 0.62)	343,707	1,414	2
18-44 years	3,808	11,722	45,453,791	36,391,587,593	99,634,736.7	8.38	3.82 (3.70, 3.95)	9,011,740	2,367	3
45-64 years	6,267	23,327	23,648,678	22,113,120,190	60,542,423.5	26.50	10.35 (10.10, 10.61)	21,051,794	3,359	4
≥ 65 years	21,574	108,352	45,345,749	68,041,944,654	186,288,691.7	47.58	11.58 (11.43, 11.74)	107,487,167	4,982	5

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	40,272	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	242,542	*****	*****
12-17 years	235	474	21,588,890	16,291,735,491	44,604,340.8	1.09	0.53 (0.46, 0.60)	332,409	1,415	2
18-44 years	3,706	11,269	45,453,791	36,391,587,593	99,634,736.7	8.15	3.72 (3.60, 3.84)	8,697,541	2,347	3
45-64 years	6,189	22,505	23,648,678	22,113,120,190	60,542,423.5	26.17	10.22 (9.97, 10.48)	20,296,240	3,279	4
≥ 65 years	*****	*****	45,345,749	68,041,944,654	186,288,691.7	*****	*****	107,485,612	*****	*****
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	34,493	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	195,377	*****	*****
12-17 years	195	380	21,588,890	16,291,735,491	44,604,340.8	0.90	0.44 (0.38, 0.50)	256,075	1,313	2
18-44 years	3,201	9,372	45,453,791	36,391,587,593	99,634,736.7	7.04	3.21 (3.10, 3.33)	7,451,319	2,328	3
45-64 years	5,564	19,845	23,648,678	22,113,120,190	60,542,423.5	23.53	9.19 (8.95, 9.43)	18,018,925	3,238	4
≥ 65 years	19,629	97,595	45,345,749	68,041,944,654	186,288,691.7	43.29	10.54 (10.39, 10.69)	96,208,946	4,901	5
Patients with Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	13,947	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	127,132	*****	*****
12-17 years	113	232	21,588,890	16,291,735,491	44,604,340.8	0.52	0.25 (0.21, 0.30)	156,398	1,384	2

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
18-44 years	1,659	4,354	45,453,791	36,391,587,593	99,634,736.7	3.65	1.67 (1.59, 1.75)	3,538,074	2,133	3
45-64 years	3,078	10,134	23,648,678	22,113,120,190	60,542,423.5	13.02	5.08 (4.91, 5.27)	9,332,400	3,032	3
≥ 65 years	13,000	56,846	45,345,749	68,041,944,654	186,288,691.7	28.67	6.98 (6.86, 7.10)	59,260,563	4,559	4
Patients with Other lupus erythematosus										
0-5 years	91	550	22,343,184	17,144,417,981	46,938,858.3	0.41	0.19 (0.16, 0.24)	426,301	4,685	6
6-11 years	323	1,005	22,980,392	17,862,591,464	48,905,110.1	1.41	0.66 (0.59, 0.74)	842,136	2,607	3
12-17 years	773	2,676	21,588,890	16,291,735,491	44,604,340.8	3.58	1.73 (1.62, 1.86)	2,342,012	3,030	3
18-44 years	11,377	48,927	45,453,791	36,391,587,593	99,634,736.7	25.03	11.42 (11.21, 11.63)	42,104,388	3,701	4
45-64 years	16,075	90,077	23,648,678	22,113,120,190	60,542,423.5	67.97	26.55 (26.14, 26.97)	79,094,024	4,920	6
≥ 65 years	32,748	141,058	45,345,749	68,041,944,654	186,288,691.7	72.22	17.58 (17.39, 17.77)	138,088,117	4,217	4
Patients with Other lupus erythematosus coded by any known provider										
0-5 years	85	236	22,343,184	17,144,417,981	46,938,858.3	0.38	0.18 (0.15, 0.22)	195,711	2,302	3
6-11 years	311	918	22,980,392	17,862,591,464	48,905,110.1	1.35	0.64 (0.57, 0.71)	763,734	2,456	3
12-17 years	748	2,491	21,588,890	16,291,735,491	44,604,340.8	3.46	1.68 (1.56, 1.80)	2,188,449	2,926	3
18-44 years	11,067	42,741	45,453,791	36,391,587,593	99,634,736.7	24.35	11.11 (10.90, 11.32)	36,549,955	3,303	4
45-64 years	15,834	74,995	23,648,678	22,113,120,190	60,542,423.5	66.96	26.15 (25.75, 26.56)	67,573,506	4,268	5
≥ 65 years	32,738	139,531	45,345,749	68,041,944,654	186,288,691.7	72.20	17.57 (17.38, 17.77)	136,869,774	4,181	4

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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)										
0-5 years	73	183	22,343,184	17,144,417,981	46,938,858.3	0.33	0.16 (0.12, 0.20)	138,834	1,902	3
6-11 years	248	726	22,980,392	17,862,591,464	48,905,110.1	1.08	0.51 (0.45, 0.57)	606,275	2,445	3
12-17 years	607	2,049	21,588,890	16,291,735,491	44,604,340.8	2.81	1.36 (1.26, 1.47)	1,881,933	3,100	3
18-44 years	9,398	32,577	45,453,791	36,391,587,593	99,634,736.7	20.68	9.43 (9.24, 9.63)	27,404,912	2,916	3
45-64 years	13,833	50,468	23,648,678	22,113,120,190	60,542,423.5	58.49	22.85 (22.47, 23.23)	48,211,876	3,485	4
≥ 65 years	28,997	125,465	45,345,749	68,041,944,654	186,288,691.7	63.95	15.57 (15.39, 15.75)	122,768,038	4,234	4
Patients with Other lupus erythematosus coded by any dermatologist or rheumatologist										
0-5 years	41	110	22,343,184	17,144,417,981	46,938,858.3	0.18	0.09 (0.06, 0.12)	82,318	2,008	3
6-11 years	156	480	22,980,392	17,862,591,464	48,905,110.1	0.68	0.32 (0.27, 0.37)	407,786	2,614	3
12-17 years	330	916	21,588,890	16,291,735,491	44,604,340.8	1.53	0.74 (0.66, 0.82)	728,393	2,207	3
18-44 years	3,564	9,403	45,453,791	36,391,587,593	99,634,736.7	7.84	3.58 (3.46, 3.70)	7,350,203	2,062	3
45-64 years	4,809	14,686	23,648,678	22,113,120,190	60,542,423.5	20.34	7.94 (7.72, 8.17)	13,512,407	2,810	3
≥ 65 years	11,831	42,362	45,345,749	68,041,944,654	186,288,691.7	26.09	6.35 (6.24, 6.47)	44,137,141	3,731	4
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus										
0-5 years	63	584	22,343,184	17,144,417,981	46,938,858.3	0.28	0.13 (0.10, 0.17)	305,038	4,842	9
6-11 years	132	594	22,980,392	17,862,591,464	48,905,110.1	0.57	0.27 (0.23, 0.32)	499,056	3,781	5
12-17 years	567	3,331	21,588,890	16,291,735,491	44,604,340.8	2.63	1.27 (1.17, 1.38)	2,483,229	4,380	6

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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
18-44 years	16,568	122,549	45,453,791	36,391,587,593	99,634,736.7	36.45	16.63 (16.38, 16.88)	98,515,836	5,946	7
45-64 years	26,660	235,914	23,648,678	22,113,120,190	60,542,423.5	112.73	44.04 (43.51, 44.57)	204,422,446	7,668	9
≥ 65 years	40,380	362,705	45,345,749	68,041,944,654	186,288,691.7	89.05	21.68 (21.47, 21.89)	331,876,201	8,219	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	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	298,021	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	484,966	*****	*****
12-17 years	558	3,138	21,588,890	16,291,735,491	44,604,340.8	2.58	1.25 (1.15, 1.36)	2,339,365	4,192	6
18-44 years	16,229	111,930	45,453,791	36,391,587,593	99,634,736.7	35.70	16.29 (16.04, 16.54)	92,213,575	5,682	7
45-64 years	26,383	217,679	23,648,678	22,113,120,190	60,542,423.5	111.56	43.58 (43.06, 44.11)	193,272,411	7,326	8
≥ 65 years	40,360	362,246	45,345,749	68,041,944,654	186,288,691.7	89.01	21.67 (21.45, 21.88)	331,700,498	8,219	9
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	53	110	22,343,184	17,144,417,981	46,938,858.3	0.24	0.11 (0.09, 0.15)	73,596	1,389	2
6-11 years	110	474	22,980,392	17,862,591,464	48,905,110.1	0.48	0.22 (0.19, 0.27)	404,692	3,679	4
12-17 years	503	2,446	21,588,890	16,291,735,491	44,604,340.8	2.33	1.13 (1.03, 1.23)	1,857,574	3,693	5
18-44 years	14,904	91,590	45,453,791	36,391,587,593	99,634,736.7	32.79	14.96 (14.72, 15.20)	76,031,521	5,101	6

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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
45-64 years	24,780	183,512	23,648,678	22,113,120,190	60,542,423.5	104.78	40.93 (40.42, 41.44)	166,095,170	6,703	7
≥ 65 years	38,364	334,006	45,345,749	68,041,944,654	186,288,691.7	84.60	20.59 (20.39, 20.80)	303,216,395	7,904	9
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	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	19,913	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	248,558	*****	*****
12-17 years	247	1,159	21,588,890	16,291,735,491	44,604,340.8	1.14	0.55 (0.49, 0.63)	913,398	3,698	5
18-44 years	6,097	26,299	45,453,791	36,391,587,593	99,634,736.7	13.41	6.12 (5.97, 6.27)	21,773,856	3,571	4
45-64 years	8,629	40,214	23,648,678	22,113,120,190	60,542,423.5	36.49	14.25 (13.96, 14.56)	37,183,895	4,309	5
≥ 65 years	11,884	69,553	45,345,749	68,041,944,654	186,288,691.7	26.21	6.38 (6.27, 6.50)	73,975,904	6,225	6
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	69,490	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	633,068	*****	*****
12-17 years	932	3,041	21,588,890	16,291,735,491	44,604,340.8	4.32	2.09 (1.96, 2.23)	3,118,209	3,346	3
18-44 years	20,473	98,142	45,453,791	36,391,587,593	99,634,736.7	45.04	20.55 (20.27, 20.83)	116,048,985	5,668	5
45-64 years	29,142	156,848	23,648,678	22,113,120,190	60,542,423.5	123.23	48.13 (47.59, 48.69)	198,885,739	6,825	5
≥ 65 years	39,870	196,410	45,345,749	68,041,944,654	186,288,691.7	87.92	21.40 (21.19, 21.61)	273,087,304	6,849	5

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	62,434	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	610,086	*****	*****
12-17 years	905	2,857	21,588,890	16,291,735,491	44,604,340.8	4.19	2.03 (1.90, 2.17)	2,941,796	3,251	3
18-44 years	20,069	88,841	45,453,791	36,391,587,593	99,634,736.7	44.15	20.14 (19.87, 20.42)	105,800,530	5,272	4
45-64 years	28,913	144,456	23,648,678	22,113,120,190	60,542,423.5	122.26	47.76 (47.21, 48.31)	185,710,071	6,423	5
≥ 65 years	39,859	196,245	45,345,749	68,041,944,654	186,288,691.7	87.90	21.40 (21.19, 21.61)	272,834,416	6,845	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known speciality (excluding unknown speciality)										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	55,987	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	520,972	*****	*****
12-17 years	816	2,322	21,588,890	16,291,735,491	44,604,340.8	3.78	1.83 (1.71, 1.96)	2,380,855	2,918	3
18-44 years	18,390	73,958	45,453,791	36,391,587,593	99,634,736.7	40.46	18.46 (18.19, 18.73)	88,954,494	4,837	4
45-64 years	27,052	122,846	23,648,678	22,113,120,190	60,542,423.5	114.39	44.68 (44.15, 45.22)	159,471,342	5,895	5
≥ 65 years	37,991	179,999	45,345,749	68,041,944,654	186,288,691.7	83.78	20.39 (20.19, 20.60)	249,863,813	6,577	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	19,176	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	177,451	*****	*****
12-17 years	305	806	21,588,890	16,291,735,491	44,604,340.8	1.41	0.68 (0.61, 0.77)	834,768	2,737	3

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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
18-44 years	5,312	16,513	45,453,791	36,391,587,593	99,634,736.7	11.69	5.33 (5.19, 5.48)	19,251,706	3,624	3
45-64 years	6,675	24,070	23,648,678	22,113,120,190	60,542,423.5	28.23	11.03 (10.76, 11.29)	31,185,516	4,672	4
≥ 65 years	9,713	40,243	45,345,749	68,041,944,654	186,288,691.7	21.42	5.21 (5.11, 5.32)	58,485,963	6,021	4
Patients with Mixed cutaneous lupus erythematosus										
0-5 years	41	206	22,343,184	17,144,417,981	46,938,858.3	0.18	0.09 (0.06, 0.12)	230,093	5,612	5
6-11 years	165	812	22,980,392	17,862,591,464	48,905,110.1	0.72	0.34 (0.29, 0.39)	832,251	5,044	5
12-17 years	402	1,895	21,588,890	16,291,735,491	44,604,340.8	1.86	0.90 (0.82, 0.99)	1,725,207	4,292	5
18-44 years	6,983	47,298	45,453,791	36,391,587,593	99,634,736.7	15.36	7.01 (6.85, 7.17)	52,176,027	7,472	7
45-64 years	10,190	80,007	23,648,678	22,113,120,190	60,542,423.5	43.09	16.83 (16.51, 17.16)	92,638,972	9,091	8
≥ 65 years	21,441	178,076	45,345,749	68,041,944,654	186,288,691.7	47.28	11.51 (11.36, 11.66)	218,693,769	10,200	8
Patients with Mixed cutaneous lupus erythematosus coded by any known provider										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	218,460	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	814,283	*****	*****
12-17 years	396	1,825	21,588,890	16,291,735,491	44,604,340.8	1.83	0.89 (0.80, 0.98)	1,660,636	4,194	5
18-44 years	6,876	44,330	45,453,791	36,391,587,593	99,634,736.7	15.13	6.90 (6.74, 7.07)	49,220,708	7,158	6
45-64 years	10,102	70,675	23,648,678	22,113,120,190	60,542,423.5	42.72	16.69 (16.36, 17.01)	82,638,221	8,180	7
≥ 65 years	21,439	177,316	45,345,749	68,041,944,654	186,288,691.7	47.28	11.51 (11.36, 11.66)	217,736,082	10,156	8

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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)										
0-5 years	33	136	22,343,184	17,144,417,981	46,938,858.3	0.15	0.07 (0.05, 0.10)	147,155	4,459	4
6-11 years	150	663	22,980,392	17,862,591,464	48,905,110.1	0.65	0.31 (0.26, 0.36)	675,558	4,504	4
12-17 years	362	1,471	21,588,890	16,291,735,491	44,604,340.8	1.68	0.81 (0.73, 0.90)	1,381,136	3,815	4
18-44 years	6,333	36,973	45,453,791	36,391,587,593	99,634,736.7	13.93	6.36 (6.20, 6.51)	40,845,102	6,450	6
45-64 years	9,487	60,080	23,648,678	22,113,120,190	60,542,423.5	40.12	15.67 (15.36, 15.99)	71,069,323	7,491	6
≥ 65 years	20,343	161,639	45,345,749	68,041,944,654	186,288,691.7	44.86	10.92 (10.77, 11.07)	197,792,972	9,723	8
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
0-5 years	23	87	22,343,184	17,144,417,981	46,938,858.3	0.10	0.05 (0.03, 0.07)	90,152	3,920	4
6-11 years	114	430	22,980,392	17,862,591,464	48,905,110.1	0.50	0.23 (0.19, 0.28)	434,045	3,807	4
12-17 years	228	773	21,588,890	16,291,735,491	44,604,340.8	1.06	0.51 (0.45, 0.58)	729,235	3,198	3
18-44 years	3,105	11,586	45,453,791	36,391,587,593	99,634,736.7	6.83	3.12 (3.01, 3.23)	11,917,115	3,838	4
45-64 years	4,721	19,955	23,648,678	22,113,120,190	60,542,423.5	19.96	7.80 (7.58, 8.02)	22,960,594	4,864	4
≥ 65 years	13,012	68,858	45,345,749	68,041,944,654	186,288,691.7	28.70	6.98 (6.87, 7.11)	87,666,387	6,737	5
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	2,121	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	5,597	*****	*****
12-17 years	*****	*****	21,588,890	16,291,735,491	44,604,340.8	*****	*****	98,272	*****	*****

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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
18-44 years	335	900	45,453,791	36,391,587,593	99,634,736.7	0.74	0.34 (0.30, 0.37)	659,126	1,968	3
45-64 years	301	877	23,648,678	22,113,120,190	60,542,423.5	1.27	0.50 (0.44, 0.56)	857,591	2,849	3
≥ 65 years	836	3,077	45,345,749	68,041,944,654	186,288,691.7	1.84	0.45 (0.42, 0.48)	3,144,764	3,762	4
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	2,121	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	5,597	*****	*****
12-17 years	29	86	21,588,890	16,291,735,491	44,604,340.8	0.13	0.07 (0.05, 0.09)	72,712	2,507	3
18-44 years	326	866	45,453,791	36,391,587,593	99,634,736.7	0.72	0.33 (0.29, 0.36)	637,678	1,956	3
45-64 years	*****	*****	23,648,678	22,113,120,190	60,542,423.5	*****	*****	850,977	*****	*****
≥ 65 years	*****	*****	45,345,749	68,041,944,654	186,288,691.7	*****	*****	3,144,764	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	1,700	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	5,597	*****	*****
12-17 years	*****	*****	21,588,890	16,291,735,491	44,604,340.8	*****	*****	60,520	*****	*****
18-44 years	303	797	45,453,791	36,391,587,593	99,634,736.7	0.67	0.30 (0.27, 0.34)	584,718	1,930	3
45-64 years	284	791	23,648,678	22,113,120,190	60,542,423.5	1.20	0.47 (0.42, 0.53)	775,690	2,731	3
≥ 65 years	810	2,895	45,345,749	68,041,944,654	186,288,691.7	1.79	0.43 (0.41, 0.47)	2,951,722	3,644	4

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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										
0-5 years	*****	*****	22,343,184	17,144,417,981	46,938,858.3	*****	*****	1,700	*****	*****
6-11 years	*****	*****	22,980,392	17,862,591,464	48,905,110.1	*****	*****	5,258	*****	*****
12-17 years	*****	*****	21,588,890	16,291,735,491	44,604,340.8	*****	*****	44,133	*****	*****
18-44 years	228	537	45,453,791	36,391,587,593	99,634,736.7	0.50	0.23 (0.20, 0.26)	417,497	1,831	2
45-64 years	178	491	23,648,678	22,113,120,190	60,542,423.5	0.75	0.29 (0.25, 0.34)	510,036	2,865	3
≥ 65 years	559	1,762	45,345,749	68,041,944,654	186,288,691.7	1.23	0.30 (0.28, 0.33)	1,814,398	3,246	3

Table 4. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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.

*****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 Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	59,083	160,756	94,903,150	29,410,903,011	80,522,664.0	62.26	73.37 (72.79, 73.97)	233,693,194	3,955	3
2018	74,608	208,839	95,725,542	29,989,286,077	82,106,190.5	77.94	90.87 (90.22, 91.52)	261,127,783	3,500	3
2019	63,418	174,595	98,435,745	30,536,778,545	83,605,143.2	64.43	75.85 (75.27, 76.45)	184,911,509	2,916	3
2020	50,841	140,642	101,095,569	32,498,780,695	88,976,812.3	50.29	57.14 (56.65, 57.64)	115,723,509	2,276	3
2021	49,785	135,564	105,209,992	34,919,922,038	95,605,536.0	47.32	52.07 (51.62, 52.53)	78,102,169	1,569	3
2022	32,160	84,386	31,258,900	10,432,913,386	28,563,760.1	102.88	112.59 (111.37, 113.83)	41,222,975	1,282	3
2023	29,574	77,594	30,093,761	10,056,813,621	27,534,055.1	98.27	107.41 (106.19, 108.64)	13,793,762	466	3
Patients with Discoid lupus erythematosus coded by any known provider										
2017	58,282	149,833	94,903,150	29,410,903,011	80,522,664.0	61.41	72.38 (71.79, 72.97)	219,901,768	3,773	3
2018	73,790	196,805	95,725,542	29,989,286,077	82,106,190.5	77.08	89.87 (89.23, 90.52)	249,202,433	3,377	3
2019	62,747	164,394	98,435,745	30,536,778,545	83,605,143.2	63.74	75.05 (74.47, 75.64)	177,980,872	2,836	3
2020	50,293	131,720	101,095,569	32,498,780,695	88,976,812.3	49.75	56.52 (56.03, 57.02)	111,620,159	2,219	3
2021	49,305	128,089	105,209,992	34,919,922,038	95,605,536.0	46.86	51.57 (51.12, 52.03)	76,671,542	1,555	3
2022	*****	*****	31,258,900	10,432,913,386	28,563,760.1	*****	*****	41,218,160	*****	*****
2023	*****	*****	30,093,761	10,056,813,621	27,534,055.1	*****	*****	13,792,011	*****	*****
Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
2017	52,178	123,309	94,903,150	29,410,903,011	80,522,664.0	54.98	64.80 (64.25, 65.36)	183,795,610	3,522	2
2018	67,084	168,212	95,725,542	29,989,286,077	82,106,190.5	70.08	81.70 (81.09, 82.32)	216,149,197	3,222	3
2019	56,729	140,665	98,435,745	30,536,778,545	83,605,143.2	57.63	67.85 (67.30, 68.41)	155,611,265	2,743	2
2020	45,597	113,176	101,095,569	32,498,780,695	88,976,812.3	45.10	51.25 (50.78, 51.72)	98,575,064	2,162	2
2021	44,446	110,797	105,209,992	34,919,922,038	95,605,536.0	42.25	46.49 (46.06, 46.92)	69,062,940	1,554	2
2022	29,948	77,558	31,258,900	10,432,913,386	28,563,760.1	95.81	104.85 (103.67, 106.04)	37,761,992	1,261	3
2023	27,555	71,053	30,093,761	10,056,813,621	27,534,055.1	91.56	100.08 (98.90, 101.26)	12,615,446	458	3
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
2017	15,115	29,669	94,903,150	29,410,903,011	80,522,664.0	15.93	18.77 (18.47, 19.07)	46,972,380	3,108	2
2018	17,890	35,964	95,725,542	29,989,286,077	82,106,190.5	18.69	21.79 (21.47, 22.11)	48,920,996	2,735	2

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2019	16,568	33,644	98,435,745	30,536,778,545	83,605,143.2	16.83	19.82 (19.52, 20.12)	38,314,317	2,313	2
2020	13,836	27,573	101,095,569	32,498,780,695	88,976,812.3	13.69	15.55 (15.29, 15.81)	24,187,937	1,748	2
2021	13,508	27,723	105,209,992	34,919,922,038	95,605,536.0	12.84	14.13 (13.89, 14.37)	16,450,773	1,218	2
2022	8,226	16,716	31,258,900	10,432,913,386	28,563,760.1	26.32	28.80 (28.18, 29.43)	8,533,755	1,037	2
2023	7,699	15,935	30,093,761	10,056,813,621	27,534,055.1	25.58	27.96 (27.34, 28.59)	2,906,352	377	2
Patients with Subacute cutaneous lupus erythematosus										
2017	8,478	19,647	94,903,150	29,410,903,011	80,522,664.0	8.93	10.53 (10.31, 10.76)	32,277,112	3,807	2
2018	9,182	21,420	95,725,542	29,989,286,077	82,106,190.5	9.59	11.18 (10.96, 11.41)	30,714,456	3,345	2
2019	9,165	21,822	98,435,745	30,536,778,545	83,605,143.2	9.31	10.96 (10.74, 11.19)	26,449,381	2,886	2
2020	8,836	20,838	101,095,569	32,498,780,695	88,976,812.3	8.74	9.93 (9.73, 10.14)	19,977,990	2,261	2
2021	9,442	22,827	105,209,992	34,919,922,038	95,605,536.0	8.97	9.88 (9.68, 10.08)	15,907,734	1,685	2
2022	7,614	19,229	31,258,900	10,432,913,386	28,563,760.1	24.36	26.66 (26.06, 27.26)	9,602,899	1,261	3
2023	7,593	18,451	30,093,761	10,056,813,621	27,534,055.1	25.23	27.58 (26.96, 28.20)	3,253,972	429	2
Patients with Subacute cutaneous lupus erythematosus coded by any known provider										
2017	8,401	19,402	94,903,150	29,410,903,011	80,522,664.0	8.85	10.43 (10.21, 10.66)	31,985,722	3,807	2
2018	9,130	21,178	95,725,542	29,989,286,077	82,106,190.5	9.54	11.12 (10.89, 11.35)	30,460,137	3,336	2
2019	9,112	21,348	98,435,745	30,536,778,545	83,605,143.2	9.26	10.90 (10.68, 11.12)	26,039,430	2,858	2
2020	8,780	20,629	101,095,569	32,498,780,695	88,976,812.3	8.68	9.87 (9.66, 10.08)	19,870,680	2,263	2
2021	9,397	22,689	105,209,992	34,919,922,038	95,605,536.0	8.93	9.83 (9.63, 10.03)	15,881,776	1,690	2
2022	7,614	19,229	31,258,900	10,432,913,386	28,563,760.1	24.36	26.66 (26.06, 27.26)	9,602,899	1,261	3
2023	7,593	18,451	30,093,761	10,056,813,621	27,534,055.1	25.23	27.58 (26.96, 28.20)	3,253,972	429	2
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
2017	7,485	16,857	94,903,150	29,410,903,011	80,522,664.0	7.89	9.30 (9.09, 9.51)	27,945,703	3,734	2
2018	8,229	18,717	95,725,542	29,989,286,077	82,106,190.5	8.60	10.02 (9.81, 10.24)	27,029,081	3,285	2
2019	8,330	19,039	98,435,745	30,536,778,545	83,605,143.2	8.46	9.96 (9.75, 10.18)	23,256,643	2,792	2
2020	8,083	18,455	101,095,569	32,498,780,695	88,976,812.3	8.00	9.08 (8.89, 9.28)	17,882,608	2,212	2
2021	8,700	20,203	105,209,992	34,919,922,038	95,605,536.0	8.27	9.10 (8.91, 9.29)	14,378,818	1,653	2
2022	7,179	17,508	31,258,900	10,432,913,386	28,563,760.1	22.97	25.13 (24.56, 25.72)	8,738,297	1,217	2
2023	7,141	16,672	30,093,761	10,056,813,621	27,534,055.1	23.73	25.94 (25.34, 26.54)	2,933,985	411	2

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	4,851	9,893	94,903,150	29,410,903,011	80,522,664.0	5.11	6.02 (5.86, 6.20)	17,190,094	3,544	2
2018	5,234	10,647	95,725,542	29,989,286,077	82,106,190.5	5.47	6.37 (6.20, 6.55)	16,027,134	3,062	2
2019	5,364	10,833	98,435,745	30,536,778,545	83,605,143.2	5.45	6.42 (6.25, 6.59)	13,837,782	2,580	2
2020	5,213	10,511	101,095,569	32,498,780,695	88,976,812.3	5.16	5.86 (5.70, 6.02)	10,568,437	2,027	2
2021	5,536	11,196	105,209,992	34,919,922,038	95,605,536.0	5.26	5.79 (5.64, 5.95)	8,293,783	1,498	2
2022	4,610	9,502	31,258,900	10,432,913,386	28,563,760.1	14.75	16.14 (15.68, 16.61)	4,878,795	1,058	2
2023	4,514	9,136	30,093,761	10,056,813,621	27,534,055.1	15.00	16.39 (15.92, 16.88)	1,632,489	362	2
Patients with Other lupus erythematosus										
2017	16,631	49,689	94,903,150	29,410,903,011	80,522,664.0	17.52	20.65 (20.34, 20.97)	73,301,061	4,407	3
2018	16,779	49,304	95,725,542	29,989,286,077	82,106,190.5	17.53	20.44 (20.13, 20.75)	63,063,479	3,758	3
2019	16,426	47,683	98,435,745	30,536,778,545	83,605,143.2	16.69	19.65 (19.35, 19.95)	50,959,962	3,102	3
2020	14,688	45,122	101,095,569	32,498,780,695	88,976,812.3	14.53	16.51 (16.24, 16.78)	35,856,997	2,441	3
2021	14,859	43,174	105,209,992	34,919,922,038	95,605,536.0	14.12	15.54 (15.29, 15.79)	23,115,021	1,556	3
2022	10,397	25,142	31,258,900	10,432,913,386	28,563,760.1	33.26	36.40 (35.71, 37.11)	12,292,980	1,182	2
2023	9,911	24,179	30,093,761	10,056,813,621	27,534,055.1	32.93	36.00 (35.29, 36.71)	4,307,478	435	2
Patients with Other lupus erythematosus coded by any known provider										
2017	16,400	44,731	94,903,150	29,410,903,011	80,522,664.0	17.28	20.37 (20.06, 20.68)	66,181,180	4,035	3
2018	16,556	44,834	95,725,542	29,989,286,077	82,106,190.5	17.30	20.16 (19.86, 20.47)	58,294,989	3,521	3
2019	16,240	43,230	98,435,745	30,536,778,545	83,605,143.2	16.50	19.42 (19.13, 19.73)	47,345,638	2,915	3
2020	14,535	40,069	101,095,569	32,498,780,695	88,976,812.3	14.38	16.34 (16.07, 16.60)	33,351,885	2,295	3
2021	14,722	38,738	105,209,992	34,919,922,038	95,605,536.0	13.99	15.40 (15.15, 15.65)	22,370,185	1,520	3
2022	10,395	25,138	31,258,900	10,432,913,386	28,563,760.1	33.25	36.39 (35.70, 37.10)	12,291,524	1,182	2
2023	9,907	24,172	30,093,761	10,056,813,621	27,534,055.1	32.92	35.98 (35.28, 36.70)	4,305,728	435	2
Patients with Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
2017	14,240	33,855	94,903,150	29,410,903,011	80,522,664.0	15.00	17.68 (17.40, 17.98)	51,282,563	3,601	2
2018	14,542	35,282	95,725,542	29,989,286,077	82,106,190.5	15.19	17.71 (17.43, 18.00)	47,286,537	3,252	2
2019	14,394	34,824	98,435,745	30,536,778,545	83,605,143.2	14.62	17.22 (16.94, 17.50)	39,690,601	2,757	2
2020	13,032	31,750	101,095,569	32,498,780,695	88,976,812.3	12.89	14.65 (14.40, 14.90)	28,203,504	2,164	2
2021	13,183	31,022	105,209,992	34,919,922,038	95,605,536.0	12.53	13.79 (13.56, 14.03)	19,518,367	1,481	2

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2022	9,552	22,802	31,258,900	10,432,913,386	28,563,760.1	30.56	33.44 (32.78, 34.12)	11,121,760	1,164	2
2023	9,128	21,933	30,093,761	10,056,813,621	27,534,055.1	30.33	33.15 (32.48, 33.84)	3,908,536	428	2
Patients with Other lupus erythematosus coded by any dermatologist or rheumatologist										
2017	5,228	9,919	94,903,150	29,410,903,011	80,522,664.0	5.51	6.49 (6.32, 6.67)	16,308,926	3,120	2
2018	5,520	10,339	95,725,542	29,989,286,077	82,106,190.5	5.77	6.72 (6.55, 6.90)	14,815,786	2,684	2
2019	5,812	11,285	98,435,745	30,536,778,545	83,605,143.2	5.90	6.95 (6.78, 7.13)	13,284,430	2,286	2
2020	5,471	10,325	101,095,569	32,498,780,695	88,976,812.3	5.41	6.15 (5.99, 6.31)	9,546,756	1,745	2
2021	5,796	10,857	105,209,992	34,919,922,038	95,605,536.0	5.51	6.06 (5.91, 6.22)	7,007,807	1,209	2
2022	3,972	7,606	31,258,900	10,432,913,386	28,563,760.1	12.71	13.91 (13.48, 14.34)	3,877,450	976	2
2023	3,882	7,626	30,093,761	10,056,813,621	27,534,055.1	12.90	14.10 (13.66, 14.55)	1,377,093	355	2
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus										
2017	28,362	108,579	94,903,150	29,410,903,011	80,522,664.0	29.89	35.22 (34.81, 35.63)	159,386,618	5,620	4
2018	28,860	109,864	95,725,542	29,989,286,077	82,106,190.5	30.15	35.15 (34.75, 35.56)	139,508,328	4,834	4
2019	30,766	123,014	98,435,745	30,536,778,545	83,605,143.2	31.25	36.80 (36.39, 37.21)	128,375,272	4,173	4
2020	29,150	120,429	101,095,569	32,498,780,695	88,976,812.3	28.83	32.76 (32.39, 33.14)	96,804,102	3,321	4
2021	28,409	117,751	105,209,992	34,919,922,038	95,605,536.0	27.00	29.71 (29.37, 30.06)	65,858,036	2,318	4
2022	18,976	75,227	31,258,900	10,432,913,386	28,563,760.1	60.71	66.43 (65.50, 67.39)	35,792,763	1,886	4
2023	17,172	70,813	30,093,761	10,056,813,621	27,534,055.1	57.06	62.37 (61.44, 63.31)	12,376,687	721	4
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by any known										
2017	28,024	105,488	94,903,150	29,410,903,011	80,522,664.0	29.53	34.80 (34.40, 35.21)	155,577,546	5,552	4
2018	28,569	106,711	95,725,542	29,989,286,077	82,106,190.5	29.84	34.80 (34.39, 35.20)	136,204,627	4,768	4
2019	30,478	117,041	98,435,745	30,536,778,545	83,605,143.2	30.96	36.45 (36.05, 36.87)	123,672,008	4,058	4
2020	28,889	111,288	101,095,569	32,498,780,695	88,976,812.3	28.58	32.47 (32.10, 32.84)	92,314,774	3,195	4
2021	28,208	109,595	105,209,992	34,919,922,038	95,605,536.0	26.81	29.50 (29.16, 29.85)	64,375,839	2,282	4
2022	18,971	75,217	31,258,900	10,432,913,386	28,563,760.1	60.69	66.42 (65.48, 67.37)	35,788,081	1,886	4
2023	17,171	70,806	30,093,761	10,056,813,621	27,534,055.1	57.06	62.36 (61.44, 63.30)	12,375,961	721	4
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by provider										
2017	26,065	91,018	94,903,150	29,410,903,011	80,522,664.0	27.46	32.37 (31.98, 32.77)	135,173,636	5,186	3
2018	26,554	92,063	95,725,542	29,989,286,077	82,106,190.5	27.74	32.34 (31.95, 32.73)	118,454,212	4,461	3
2019	28,426	100,777	98,435,745	30,536,778,545	83,605,143.2	28.88	34.00 (33.61, 34.40)	108,446,420	3,815	4

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	27,016	97,178	101,095,569	32,498,780,695	88,976,812.3	26.72	30.36 (30.00, 30.73)	82,426,581	3,051	4
2021	26,460	95,241	105,209,992	34,919,922,038	95,605,536.0	25.15	27.68 (27.34, 28.01)	58,513,812	2,211	4
2022	****	****	31,258,900	10,432,913,386	28,563,760.1	****	****	33,162,878	****	****
2023	****	****	30,093,761	10,056,813,621	27,534,055.1	****	****	11,501,409	****	****
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by										
2017	9,251	22,187	94,903,150	29,410,903,011	80,522,664.0	9.75	11.49 (11.26, 11.73)	35,252,637	3,811	2
2018	8,855	21,899	95,725,542	29,989,286,077	82,106,190.5	9.25	10.78 (10.56, 11.01)	30,326,146	3,425	2
2019	9,207	22,968	98,435,745	30,536,778,545	83,605,143.2	9.35	11.01 (10.79, 11.24)	26,429,733	2,871	2
2020	8,909	22,456	101,095,569	32,498,780,695	88,976,812.3	8.81	10.01 (9.81, 10.22)	19,810,369	2,224	3
2021	8,441	21,903	105,209,992	34,919,922,038	95,605,536.0	8.02	8.83 (8.64, 9.02)	13,148,849	1,558	3
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by										
2022	5,021	13,464	31,258,900	10,432,913,386	28,563,760.1	16.06	17.58 (17.10, 18.07)	6,857,792	1,366	3
2023	4,557	12,643	30,093,761	10,056,813,621	27,534,055.1	15.14	16.55 (16.08, 17.04)	2,289,998	503	3
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
2017	34,433	97,845	94,903,150	29,410,903,011	80,522,664.0	36.28	42.76 (42.31, 43.22)	165,291,267	4,800	3
2018	43,236	125,882	95,725,542	29,989,286,077	82,106,190.5	45.17	52.66 (52.16, 53.16)	184,782,336	4,274	3
2019	34,134	95,864	98,435,745	30,536,778,545	83,605,143.2	34.68	40.83 (40.40, 41.26)	121,103,930	3,548	3
2020	22,904	63,578	101,095,569	32,498,780,695	88,976,812.3	22.66	25.74 (25.41, 26.08)	66,424,717	2,900	3
2021	16,370	45,038	105,209,992	34,919,922,038	95,605,536.0	15.56	17.12 (16.86, 17.39)	38,855,344	2,374	3
2022	11,060	26,864	31,258,900	10,432,913,386	28,563,760.1	35.38	38.72 (38.01, 39.45)	15,385,201	1,391	2
2023	0	0	30,093,761	10,056,813,621	27,534,055.1	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										
2017	34,075	90,453	94,903,150	29,410,903,011	80,522,664.0	35.91	42.32 (41.87, 42.77)	154,926,065	4,547	3
2018	42,859	119,007	95,725,542	29,989,286,077	82,106,190.5	44.77	52.20 (51.71, 52.70)	177,087,816	4,132	3
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider										
2019	33,865	91,074	98,435,745	30,536,778,545	83,605,143.2	34.40	40.51 (40.08, 40.94)	117,031,108	3,456	3
2020	22,758	60,583	101,095,569	32,498,780,695	88,976,812.3	22.51	25.58 (25.25, 25.91)	64,686,970	2,842	3
2021	****	****	105,209,992	34,919,922,038	95,605,536.0	****	****	38,843,389	****	****
2022	****	****	31,258,900	10,432,913,386	28,563,760.1	****	****	15,383,985	****	****
2023	0	0	30,093,761	10,056,813,621	27,534,055.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 provider with known specialty (excluding unknown specialty)										
2017	31,333	75,211	94,903,150	29,410,903,011	80,522,664.0	33.02	38.91 (38.48, 39.35)	131,347,457	4,192	2
2018	39,955	103,693	95,725,542	29,989,286,077	82,106,190.5	41.74	48.66 (48.19, 49.14)	156,522,797	3,917	3
2019	31,456	80,086	98,435,745	30,536,778,545	83,605,143.2	31.96	37.62 (37.21, 38.04)	104,618,329	3,326	3
2020	21,254	54,101	101,095,569	32,498,780,695	88,976,812.3	21.02	23.89 (23.57, 24.21)	58,595,415	2,757	3
2021	15,545	41,797	105,209,992	34,919,922,038	95,605,536.0	14.78	16.26 (16.01, 16.52)	35,984,952	2,315	3
2022	10,474	24,755	31,258,900	10,432,913,386	28,563,760.1	33.51	36.67 (35.97, 37.38)	14,178,513	1,354	2
2023	0	0	30,093,761	10,056,813,621	27,534,055.1	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)										
2017	8,504	17,272	94,903,150	29,410,903,011	80,522,664.0	8.96	10.56 (10.34, 10.79)	30,786,149	3,620	2
2018	9,962	20,986	95,725,542	29,989,286,077	82,106,190.5	10.41	12.13 (11.90, 12.37)	32,359,728	3,248	2
2019	8,427	18,018	98,435,745	30,536,778,545	83,605,143.2	8.56	10.08 (9.87, 10.30)	23,481,723	2,786	2
2020	5,734	12,098	101,095,569	32,498,780,695	88,976,812.3	5.67	6.44 (6.28, 6.61)	13,016,184	2,270	2
2021	3,853	8,453	105,209,992	34,919,922,038	95,605,536.0	3.66	4.03 (3.90, 4.16)	7,432,478	1,929	2
2022	2,568	4,974	31,258,900	10,432,913,386	28,563,760.1	8.22	8.99 (8.65, 9.34)	2,878,318	1,121	2
2023	0	0	30,093,761	10,056,813,621	27,534,055.1	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Mixed cutaneous lupus erythematosus										
2017	18,017	68,008	94,903,150	29,410,903,011	80,522,664.0	18.98	22.38 (22.05, 22.70)	113,955,579	6,325	4
2018	17,720	67,892	95,725,542	29,989,286,077	82,106,190.5	18.51	21.58 (21.27, 21.90)	99,305,303	5,604	4
2019	14,795	54,060	98,435,745	30,536,778,545	83,605,143.2	15.03	17.70 (17.41, 17.98)	67,590,643	4,568	4
2020	11,780	42,624	101,095,569	32,498,780,695	88,976,812.3	11.65	13.24 (13.00, 13.48)	42,356,384	3,596	4
2021	10,044	36,215	105,209,992	34,919,922,038	95,605,536.0	9.55	10.51 (10.30, 10.71)	26,950,005	2,683	4
2022	6,911	24,995	31,258,900	10,432,913,386	28,563,760.1	22.11	24.19 (23.63, 24.77)	13,027,017	1,885	4
2023	4,408	14,500	30,093,761	10,056,813,621	27,534,055.1	14.65	16.01 (15.54, 16.49)	3,111,388	706	3
Patients with Mixed cutaneous lupus erythematosus coded by any known provider										
2017	17,870	63,176	94,903,150	29,410,903,011	80,522,664.0	18.83	22.19 (21.87, 22.52)	107,177,796	5,998	4
2018	17,614	64,061	95,725,542	29,989,286,077	82,106,190.5	18.40	21.45 (21.14, 21.77)	94,862,552	5,386	4
2019	14,725	51,998	98,435,745	30,536,778,545	83,605,143.2	14.96	17.61 (17.33, 17.90)	65,866,929	4,473	4
2020	11,720	40,872	101,095,569	32,498,780,695	88,976,812.3	11.59	13.17 (12.94, 13.41)	41,453,860	3,537	3
2021	10,018	35,539	105,209,992	34,919,922,038	95,605,536.0	9.52	10.48 (10.28, 10.69)	26,789,773	2,674	4

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2022	*****	*****	31,258,900	10,432,913,386	28,563,760.1	*****	*****	13,026,398	*****	*****
2023	*****	*****	30,093,761	10,056,813,621	27,534,055.1	*****	*****	3,111,082	*****	*****
Patients with Mixed cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
2017	16,616	53,296	94,903,150	29,410,903,011	80,522,664.0	17.51	20.64 (20.32, 20.95)	91,859,830	5,528	3
2018	16,518	56,017	95,725,542	29,989,286,077	82,106,190.5	17.26	20.12 (19.81, 20.43)	83,797,659	5,073	3
2019	13,919	46,221	98,435,745	30,536,778,545	83,605,143.2	14.14	16.65 (16.37, 16.93)	59,131,123	4,248	3
2020	11,135	36,942	101,095,569	32,498,780,695	88,976,812.3	11.01	12.51 (12.28, 12.75)	37,781,096	3,393	3
2021	9,550	32,334	105,209,992	34,919,922,038	95,605,536.0	9.08	9.99 (9.79, 10.19)	24,554,086	2,571	3
2022	6,656	22,908	31,258,900	10,432,913,386	28,563,760.1	21.29	23.30 (22.75, 23.87)	11,947,370	1,795	3
2023	4,240	13,244	30,093,761	10,056,813,621	27,534,055.1	14.09	15.40 (14.94, 15.87)	2,840,082	670	3
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
2017	8,464	20,046	94,903,150	29,410,903,011	80,522,664.0	8.92	10.51 (10.29, 10.74)	35,955,756	4,248	2
2018	8,530	20,245	95,725,542	29,989,286,077	82,106,190.5	8.91	10.39 (10.17, 10.61)	31,530,723	3,696	2
2019	7,750	18,289	98,435,745	30,536,778,545	83,605,143.2	7.87	9.27 (9.07, 9.48)	24,091,344	3,109	2
2020	6,466	15,197	101,095,569	32,498,780,695	88,976,812.3	6.40	7.27 (7.09, 7.45)	15,868,681	2,454	2
2021	5,751	13,147	105,209,992	34,919,922,038	95,605,536.0	5.47	6.02 (5.86, 6.17)	10,188,329	1,772	2
2022	4,075	9,350	31,258,900	10,432,913,386	28,563,760.1	13.04	14.27 (13.83, 14.71)	4,990,733	1,225	2
2023	2,570	5,415	30,093,761	10,056,813,621	27,534,055.1	8.54	9.33 (8.98, 9.70)	1,171,962	456	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
2017	245	454	94,903,150	29,410,903,011	80,522,664.0	0.26	0.30 (0.27, 0.34)	872,261	3,560	2
2018	298	655	95,725,542	29,989,286,077	82,106,190.5	0.31	0.36 (0.32, 0.41)	1,030,462	3,458	2
2019	318	663	98,435,745	30,536,778,545	83,605,143.2	0.32	0.38 (0.34, 0.42)	861,123	2,708	2
2020	347	704	101,095,569	32,498,780,695	88,976,812.3	0.34	0.39 (0.35, 0.43)	709,819	2,046	2
2021	504	1,044	105,209,992	34,919,922,038	95,605,536.0	0.48	0.53 (0.48, 0.58)	756,280	1,501	2
2022	360	736	31,258,900	10,432,913,386	28,563,760.1	1.15	1.26 (1.14, 1.40)	387,734	1,077	2
2023	354	719	30,093,761	10,056,813,621	27,534,055.1	1.18	1.29 (1.16, 1.43)	149,792	423	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
2017	241	440	94,903,150	29,410,903,011	80,522,664.0	0.25	0.30 (0.26, 0.34)	849,252	3,524	2
2018	293	637	95,725,542	29,989,286,077	82,106,190.5	0.31	0.36 (0.32, 0.40)	1,014,062	3,461	2
2019	315	655	98,435,745	30,536,778,545	83,605,143.2	0.32	0.38 (0.34, 0.42)	855,967	2,717	2

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	344	691	101,095,569	32,498,780,695	88,976,812.3	0.34	0.39 (0.35, 0.43)	703,685	2,046	2
2021	498	1,032	105,209,992	34,919,922,038	95,605,536.0	0.47	0.52 (0.48, 0.57)	753,357	1,513	2
2022	*****	*****	31,258,900	10,432,913,386	28,563,760.1	*****	*****	387,734	*****	*****
2023	*****	*****	30,093,761	10,056,813,621	27,534,055.1	*****	*****	149,792	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
2017	229	411	94,903,150	29,410,903,011	80,522,664.0	0.24	0.28 (0.25, 0.32)	803,152	3,507	2
2018	278	581	95,725,542	29,989,286,077	82,106,190.5	0.29	0.34 (0.30, 0.38)	922,778	3,319	2
2019	298	611	98,435,745	30,536,778,545	83,605,143.2	0.30	0.36 (0.32, 0.40)	800,262	2,685	2
2020	327	635	101,095,569	32,498,780,695	88,976,812.3	0.32	0.37 (0.33, 0.41)	644,537	1,971	2
2021	476	967	105,209,992	34,919,922,038	95,605,536.0	0.45	0.50 (0.46, 0.54)	709,787	1,491	2
2022	347	684	31,258,900	10,432,913,386	28,563,760.1	1.11	1.21 (1.09, 1.35)	358,678	1,034	2
2023	340	676	30,093,761	10,056,813,621	27,534,055.1	1.13	1.23 (1.11, 1.37)	140,753	414	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
2017	159	261	94,903,150	29,410,903,011	80,522,664.0	0.17	0.20 (0.17, 0.23)	507,560	3,192	2
2018	203	390	95,725,542	29,989,286,077	82,106,190.5	0.21	0.25 (0.22, 0.28)	622,727	3,068	2
2019	217	378	98,435,745	30,536,778,545	83,605,143.2	0.22	0.26 (0.23, 0.30)	496,844	2,290	2
2020	230	417	101,095,569	32,498,780,695	88,976,812.3	0.23	0.26 (0.23, 0.29)	425,433	1,850	2
2021	314	577	105,209,992	34,919,922,038	95,605,536.0	0.30	0.33 (0.29, 0.37)	435,217	1,386	2
2022	230	403	31,258,900	10,432,913,386	28,563,760.1	0.74	0.81 (0.71, 0.92)	217,702	947	2
2023	229	425	30,093,761	10,056,813,621	27,534,055.1	0.76	0.83 (0.73, 0.95)	87,539	382	2

Table 5. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 (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 Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	1,955	9,103	1,804,254	1,951,265,427	5,342,273.6	108.36	36.59 (35.01, 38.25)	8,300,808	4,246	5
Asian	3,577	16,415	5,509,680	6,137,221,897	16,802,797.8	64.92	21.29 (20.60, 22.00)	14,511,370	4,057	5
Black or African American	43,162	272,890	23,269,165	25,225,180,305	69,062,779.8	185.49	62.50 (61.91, 63.09)	236,378,783	5,477	6
Multi-racial	264	985	655,507	697,395,278	1,909,364.2	40.27	13.83 (12.26, 15.60)	775,895	2,939	4
Native Hawaiian or Other Pacific Islander	244	955	537,033	568,108,628	1,555,396.7	45.43	15.69 (13.84, 17.78)	709,850	2,909	4
Unknown	24,571	121,077	42,359,073	41,913,618,179	114,753,232.5	58.01	21.41 (21.15, 21.68)	101,939,383	4,149	5
White	118,863	560,951	77,985,454	101,352,607,659	277,488,316.7	152.42	42.84 (42.59, 43.08)	565,958,812	4,761	5
Patients with Discoid lupus erythematosus coded by any known provider										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	8,212,973	*****	*****
Asian	3,532	15,355	5,509,680	6,137,221,897	16,802,797.8	64.11	21.02 (20.34, 21.73)	13,887,770	3,932	4
Black or African American	42,653	250,788	23,269,165	25,225,180,305	69,062,779.8	183.30	61.76 (61.18, 62.35)	219,609,060	5,149	6
Patients with Discoid lupus erythematosus coded by any known provider										
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	755,453	*****	*****

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	694,952	*****	*****
Unknown	24,110	107,356	42,359,073	41,913,618,179	114,753,232.5	56.92	21.01 (20.75, 21.28)	90,972,687	3,773	4
White	118,027	548,523	77,985,454	101352607659	277,488,316.7	151.34	42.53 (42.29, 42.78)	556,254,050	4,713	5
Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
American Indian or Alaska Native	1,638	7,369	1,804,254	1,951,265,427	5,342,273.6	90.79	30.66 (29.21, 32.18)	6,957,458	4,248	4
Asian	2,977	12,166	5,509,680	6,137,221,897	16,802,797.8	54.03	17.72 (17.09, 18.37)	11,205,611	3,764	4
Black or African American	39,064	211,753	23,269,165	25,225,180,305	69,062,779.8	167.88	56.56 (56.00, 57.13)	186,776,644	4,781	5
Multi-racial	224	745	655,507	697,395,278	1,909,364.2	34.17	11.73 (10.29, 13.37)	548,920	2,451	3
Native Hawaiian or Other Pacific Islander	210	724	537,033	568,108,628	1,555,396.7	39.10	13.50 (11.79, 15.46)	546,326	2,602	3
Unknown	20,553	79,971	42,359,073	41,913,618,179	114,753,232.5	48.52	17.91 (17.67, 18.16)	67,156,206	3,267	4
White	106,875	492,042	77,985,454	101352607659	277,488,316.7	137.04	38.52 (38.28, 38.75)	500,380,349	4,682	5
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
American Indian or Alaska Native	287	858	1,804,254	1,951,265,427	5,342,273.6	15.91	5.37 (4.79, 6.03)	762,089	2,655	3
Asian	1,047	3,721	5,509,680	6,137,221,897	16,802,797.8	19.00	6.23 (5.86, 6.62)	3,435,792	3,282	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	14,388	57,486	23,269,165	25,225,180,305	69,062,779.8	61.83	20.83 (20.50, 21.18)	51,692,381	3,593	4
Multi-racial	79	252	655,507	697,395,278	1,909,364.2	12.05	4.14 (3.32, 5.16)	186,888	2,366	3
Native Hawaiian or Other Pacific Islander	81	296	537,033	568,108,628	1,555,396.7	15.08	5.21 (4.19, 6.47)	231,955	2,864	4
Unknown	6,302	21,735	42,359,073	41,913,618,179	114,753,232.5	14.88	5.49 (5.36, 5.63)	17,988,818	2,854	3
White	27,401	102,876	77,985,454	101,352,607,659	277,488,316.7	35.14	9.87 (9.76, 9.99)	111,988,587	4,087	4
Patients with Subacute cutaneous lupus erythematosus										
American Indian or Alaska Native	182	653	1,804,254	1,951,265,427	5,342,273.6	10.09	3.41 (2.95, 3.94)	671,299	3,688	4
Asian	421	1,746	5,509,680	6,137,221,897	16,802,797.8	7.64	2.51 (2.28, 2.76)	1,473,870	3,501	4
Black or African American	3,340	11,705	23,269,165	25,225,180,305	69,062,779.8	14.35	4.84 (4.67, 5.00)	10,204,919	3,055	4
Multi-racial	29	66	655,507	697,395,278	1,909,364.2	4.42	1.52 (1.06, 2.19)	46,065	1,588	2

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 Subacute cutaneous lupus erythematosus										
Native Hawaiian or Other Pacific Islander	33	84	537,033	568,108,628	1,555,396.7	6.14	2.12 (1.51, 2.98)	65,337	1,980	3
Unknown	2,426	7,999	42,359,073	41,913,618,179	114,753,232.5	5.73	2.11 (2.03, 2.20)	6,503,921	2,681	3
White	25,110	121,981	77,985,454	101,352,607,659	277,488,316.7	32.20	9.05 (8.94, 9.16)	119,218,133	4,748	5
Patients with Subacute cutaneous lupus erythematosus coded by any known provider										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	665,102	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	1,049,199	*****	*****
Black or African American	3,305	11,472	23,269,165	25,225,180,305	69,062,779.8	14.20	4.79 (4.63, 4.95)	9,999,797	3,026	3
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	46,065	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	63,870	*****	*****
Unknown	2,384	7,870	42,359,073	41,913,618,179	114,753,232.5	5.63	2.08 (2.00, 2.16)	6,411,610	2,689	3
White	25,007	121,503	77,985,454	101,352,607,659	277,488,316.7	32.07	9.01 (8.90, 9.12)	118,858,973	4,753	5
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	607,655	*****	*****
Asian	350	1,074	5,509,680	6,137,221,897	16,802,797.8	6.35	2.08 (1.88, 2.31)	874,387	2,498	3

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	2,894	10,050	23,269,165	25,225,180,305	69,062,779.8	12.44	4.19 (4.04, 4.35)	8,757,103	3,026	3
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	39,822	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	40,205	*****	*****
Unknown	2,030	6,455	42,359,073	41,913,618,179	114,753,232.5	4.79	1.77 (1.69, 1.85)	5,409,804	2,665	3
White	22,773	109,177	77,985,454	101352607659	277,488,316.7	29.20	8.21 (8.10, 8.31)	106,436,159	4,674	5
Patients with Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
American Indian or Alaska Native	63	238	1,804,254	1,951,265,427	5,342,273.6	3.49	1.18 (0.92, 1.51)	263,359	4,180	4
Asian	202	523	5,509,680	6,137,221,897	16,802,797.8	3.67	1.20 (1.05, 1.38)	451,399	2,235	3
Black or African American	1,416	4,162	23,269,165	25,225,180,305	69,062,779.8	6.09	2.05 (1.95, 2.16)	3,775,965	2,667	3
Multi-racial	11	16	655,507	697,395,278	1,909,364.2	1.68	0.58 (0.32, 1.04)	11,584	1,053	1
Native Hawaiian or Other Pacific Islander	11	41	537,033	568,108,628	1,555,396.7	2.05	0.71 (0.39, 1.28)	31,788	2,890	4
Unknown	1,107	3,336	42,359,073	41,913,618,179	114,753,232.5	2.61	0.96 (0.91, 1.02)	2,953,512	2,668	3
White	14,835	63,402	77,985,454	101352607659	277,488,316.7	19.02	5.35 (5.26, 5.43)	64,940,907	4,378	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 Other lupus erythematosus										
American Indian or Alaska Native	402	2,114	1,804,254	1,951,265,427	5,342,273.6	22.28	7.52 (6.82, 8.30)	1,952,857	4,858	5
Asian	1,170	5,436	5,509,680	6,137,221,897	16,802,797.8	21.24	6.96 (6.58, 7.37)	4,920,357	4,205	5
Black or African American	10,785	70,562	23,269,165	25,225,180,305	69,062,779.8	46.35	15.62 (15.32, 15.91)	63,427,554	5,881	7
American Multi-racial	66	201	655,507	697,395,278	1,909,364.2	10.07	3.46 (2.72, 4.40)	165,141	2,502	3
Native Hawaiian or Other Pacific Islander	70	258	537,033	568,108,628	1,555,396.7	13.03	4.50 (3.56, 5.69)	177,840	2,541	4
Unknown	7,312	37,107	42,359,073	41,913,618,179	114,753,232.5	17.26	6.37 (6.23, 6.52)	28,471,059	3,894	5
White	40,479	168,615	77,985,454	101,352,607,659	277,488,316.7	51.91	14.59 (14.45, 14.73)	163,782,170	4,046	4
Patients with Other lupus erythematosus coded by any known provider										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	1,909,810	*****	*****
Asian	1,154	5,066	5,509,680	6,137,221,897	16,802,797.8	20.94	6.87 (6.48, 7.28)	4,621,480	4,005	4
Black or African American	10,620	56,144	23,269,165	25,225,180,305	69,062,779.8	45.64	15.38 (15.09, 15.67)	49,937,523	4,702	5
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	160,986	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	176,698	*****	*****
Unknown	7,160	31,755	42,359,073	41,913,618,179	114,753,232.5	16.90	6.24 (6.10, 6.39)	25,654,459	3,583	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	40,236	165,434	77,985,454	101352607659	277,488,316.7	51.59	14.50 (14.36, 14.64)	161,680,173	4,018	4
Patients with Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
American Indian or Alaska Native	345	1,901	1,804,254	1,951,265,427	5,342,273.6	19.12	6.46 (5.81, 7.18)	1,761,144	5,105	6
Asian	924	3,831	5,509,680	6,137,221,897	16,802,797.8	16.77	5.50 (5.16, 5.87)	3,699,985	4,004	4
Black or African American	9,379	39,998	23,269,165	25,225,180,305	69,062,779.8	40.31	13.58 (13.31, 13.86)	36,700,367	3,913	4
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	99,666	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	128,078	*****	*****
Unknown	5,777	20,357	42,359,073	41,913,618,179	114,753,232.5	13.64	5.03 (4.91, 5.17)	16,608,680	2,875	4
White	35,646	145,061	77,985,454	101352607659	277,488,316.7	45.71	12.85 (12.71, 12.98)	142,013,948	3,984	4
American Indian or Alaska Native	78	291	1,804,254	1,951,265,427	5,342,273.6	4.32	1.46 (1.17, 1.82)	271,155	3,476	4
Asian	369	1,180	5,509,680	6,137,221,897	16,802,797.8	6.70	2.20 (1.98, 2.43)	1,093,092	2,962	3
Black or African American	3,492	11,354	23,269,165	25,225,180,305	69,062,779.8	15.01	5.06 (4.89, 5.23)	10,336,938	2,960	3
Multi-racial	25	64	655,507	697,395,278	1,909,364.2	3.81	1.31 (0.88, 1.94)	46,570	1,863	3
Native Hawaiian or Other Pacific Islander	26	83	537,033	568,108,628	1,555,396.7	4.84	1.67 (1.14, 2.46)	57,132	2,197	3

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	2,117	6,090	42,359,073	41,913,618,179	114,753,232.5	5.00	1.84 (1.77, 1.93)	4,970,431	2,348	3
White	14,255	48,895	77,985,454	101352607659	277,488,316.7	18.28	5.14 (5.05, 5.22)	49,442,930	3,468	3
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus										
American Indian or Alaska Native	892	8,226	1,804,254	1,951,265,427	5,342,273.6	49.44	16.70 (15.64, 17.83)	6,770,498	7,590	9
Asian	1,088	11,373	5,509,680	6,137,221,897	16,802,797.8	19.75	6.48 (6.10, 6.87)	9,647,771	8,867	10
Black or African American	16,082	158,729	23,269,165	25,225,180,305	69,062,779.8	69.11	23.29 (22.93, 23.65)	129,593,157	8,058	10
American Multi-racial	121	762	655,507	697,395,278	1,909,364.2	18.46	6.34 (5.30, 7.57)	519,147	4,290	6
Native Hawaiian or Other Pacific Islander	86	422	537,033	568,108,628	1,555,396.7	16.01	5.53 (4.48, 6.83)	329,683	3,834	5
Unknown	9,143	77,058	42,359,073	41,913,618,179	114,753,232.5	21.58	7.97 (7.81, 8.13)	58,255,047	6,372	8
White	53,647	469,107	77,985,454	101352607659	277,488,316.7	68.79	19.33 (19.17, 19.50)	432,986,503	8,071	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	881	8,130	1,804,254	1,951,265,427	5,342,273.6	48.83	16.49 (15.44, 17.62)	6,708,235	7,614	9
Asian	1,075	10,476	5,509,680	6,137,221,897	16,802,797.8	19.51	6.40 (6.03, 6.79)	9,174,288	8,534	10
Black or African American	*****	*****	23,269,165	25,225,180,305	69,062,779.8	*****	*****	119,640,663	*****	*****
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	431,758	*****	*****

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	85	403	537,033	568,108,628	1,555,396.7	15.83	5.46 (4.42, 6.76)	310,475	3,653	5
Unknown	9,018	69,224	42,359,073	41,913,618,179	114,753,232.5	21.29	7.86 (7.70, 8.02)	54,467,078	6,040	8
White	53,378	463,697	77,985,454	101,352,607,659	277,488,316.7	68.45	19.24 (19.07, 19.40)	429,576,339	8,048	9
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	814	7,212	1,804,254	1,951,265,427	5,342,273.6	45.12	15.24 (14.23, 16.32)	5,969,189	7,333	9
Asian	954	7,528	5,509,680	6,137,221,897	16,802,797.8	17.31	5.68 (5.33, 6.05)	6,450,162	6,761	8
Black or African American	14,967	121,493	23,269,165	25,225,180,305	69,062,779.8	64.32	21.67 (21.33, 22.02)	102,366,552	6,839	8
American Multi-racial	104	493	655,507	697,395,278	1,909,364.2	15.87	5.45 (4.49, 6.60)	347,453	3,341	5
Native Hawaiian or Other Pacific Islander	70	288	537,033	568,108,628	1,555,396.7	13.03	4.50 (3.56, 5.69)	204,995	2,929	4
Unknown	8,155	53,683	42,359,073	41,913,618,179	114,753,232.5	19.25	7.11 (6.95, 7.26)	42,866,451	5,256	7
White	50,591	421,441	77,985,454	101,352,607,659	277,488,316.7	64.87	18.23 (18.07, 18.39)	389,474,146	7,698	8

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 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	272	1,217	1,804,254	1,951,265,427	5,342,273.6	15.08	5.09 (4.52, 5.73)	1,077,868	3,963	4
Asian	477	2,765	5,509,680	6,137,221,897	16,802,797.8	8.66	2.84 (2.60, 3.11)	2,471,378	5,181	6
Black or African American	5,948	28,477	23,269,165	25,225,180,305	69,062,779.8	25.56	8.61 (8.40, 8.83)	25,204,277	4,237	5
Multi-racial	31	173	655,507	697,395,278	1,909,364.2	4.73	1.62 (1.14, 2.31)	112,659	3,634	6
Native Hawaiian or Other Pacific Islander	26	102	537,033	568,108,628	1,555,396.7	4.84	1.67 (1.14, 2.46)	76,164	2,929	4
Unknown	3,464	16,662	42,359,073	41,913,618,179	114,753,232.5	8.18	3.02 (2.92, 3.12)	13,773,143	3,976	5
White	15,828	88,124	77,985,454	101,352,607,659	277,488,316.7	20.30	5.70 (5.62, 5.79)	91,400,035	5,775	6
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
American Indian or Alaska Native	912	4,423	1,804,254	1,951,265,427	5,342,273.6	50.55	17.07 (16.00, 18.22)	5,581,329	6,120	5
Asian	1,587	7,414	5,509,680	6,137,221,897	16,802,797.8	28.80	9.44 (8.99, 9.92)	8,927,279	5,625	5
Black or African American	21,498	133,722	23,269,165	25,225,180,305	69,062,779.8	92.39	31.13 (30.71, 31.55)	162,232,305	7,546	6
Multi-racial	97	415	655,507	697,395,278	1,909,364.2	14.80	5.08 (4.16, 6.20)	454,786	4,689	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 precedes systemic lupus erythematosus										
Native Hawaiian or Other Pacific Islander	93	347	537,033	568,108,628	1,555,396.7	17.32	5.98 (4.88, 7.33)	356,161	3,830	4
Unknown	10,352	55,150	42,359,073	41,913,618,179	114,753,232.5	24.44	9.02 (8.85, 9.20)	64,819,672	6,262	5
White	53,491	253,600	77,985,454	101,352,607,659	277,488,316.7	68.59	19.28 (19.11, 19.44)	349,471,263	6,533	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider										
American Indian or Alaska Native	899	4,379	1,804,254	1,951,265,427	5,342,273.6	49.83	16.83 (15.76, 17.96)	5,545,471	6,168	5
Asian	1,559	6,822	5,509,680	6,137,221,897	16,802,797.8	28.30	9.28 (8.83, 9.75)	8,499,806	5,452	4
Black or African American	21,277	123,499	23,269,165	25,225,180,305	69,062,779.8	91.44	30.81 (30.40, 31.22)	151,077,702	7,101	6
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	438,417	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	344,118	*****	*****
Unknown	10,184	48,675	42,359,073	41,913,618,179	114,753,232.5	24.04	8.87 (8.70, 9.05)	57,968,374	5,692	5
White	53,263	248,908	77,985,454	101,352,607,659	277,488,316.7	68.30	19.19 (19.03, 19.36)	344,085,445	6,460	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	4,790,590	*****	*****
Asian	1,406	5,708	5,509,680	6,137,221,897	16,802,797.8	25.52	8.37 (7.94, 8.82)	7,174,064	5,102	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	20,012	105,900	23,269,165	25,225,180,305	69,062,779.8	86.00	28.98 (28.58, 29.38)	130,410,119	6,517	5
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	291,947	*****	*****
Native Hawaiian or Other Pacific Islander	80	255	537,033	568,108,628	1,555,396.7	14.90	5.14 (4.13, 6.40)	278,790	3,485	3
Unknown	9,157	36,924	42,359,073	41,913,618,179	114,753,232.5	21.62	7.98 (7.82, 8.14)	43,997,472	4,805	4
White	50,521	226,857	77,985,454	101352607659	277,488,316.7	64.78	18.21 (18.05, 18.37)	314,304,481	6,221	4
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist										
American Indian or Alaska Native	128	324	1,804,254	1,951,265,427	5,342,273.6	7.09	2.40 (2.01, 2.85)	412,352	3,222	3
Asian	452	1,643	5,509,680	6,137,221,897	16,802,797.8	8.20	2.69 (2.45, 2.95)	2,039,425	4,512	4
Black or African American	6,656	26,458	23,269,165	25,225,180,305	69,062,779.8	28.60	9.64 (9.41, 9.87)	33,213,795	4,990	4
Multi-racial	29	85	655,507	697,395,278	1,909,364.2	4.42	1.52 (1.06, 2.19)	95,656	3,298	3
Native Hawaiian or Other Pacific Islander	27	96	537,033	568,108,628	1,555,396.7	5.03	1.74 (1.19, 2.53)	108,140	4,005	4
Unknown	2,566	8,759	42,359,073	41,913,618,179	114,753,232.5	6.06	2.24 (2.15, 2.32)	10,349,488	4,033	3
White	11,681	44,436	77,985,454	101352607659	277,488,316.7	14.98	4.21 (4.13, 4.29)	63,735,724	5,456	4

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 Mixed cutaneous lupus erythematosus										
American Indian or Alaska Native	261	2,517	1,804,254	1,951,265,427	5,342,273.6	14.47	4.89 (4.33, 5.52)	3,049,840	11,685	10
Asian	587	3,738	5,509,680	6,137,221,897	16,802,797.8	10.65	3.49 (3.22, 3.79)	4,210,571	7,173	6
Black or African American	7,218	65,698	23,269,165	25,225,180,305	69,062,779.8	31.02	10.45 (10.21, 10.70)	74,102,064	10,266	9
American Multi-racial Native	41	192	655,507	697,395,278	1,909,364.2	6.25	2.15 (1.58, 2.92)	177,333	4,325	5
Hawaiian or Other Pacific Islander	45	261	537,033	568,108,628	1,555,396.7	8.38	2.89 (2.16, 3.87)	247,159	5,492	6
Unknown	3,633	27,184	42,359,073	41,913,618,179	114,753,232.5	8.58	3.17 (3.06, 3.27)	29,251,859	8,052	7
White	26,344	208,704	77,985,454	101,352,607,659	277,488,316.7	33.78	9.49 (9.38, 9.61)	255,257,493	9,689	8
Patients with Mixed cutaneous lupus erythematosus coded by any known provider										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	3,014,212	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	4,154,645	*****	*****
Black or African American	7,156	58,499	23,269,165	25,225,180,305	69,062,779.8	30.75	10.36 (10.12, 10.60)	66,196,225	9,250	8
American Multi-racial Native	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	171,274	*****	*****
Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	245,296	*****	*****
Unknown	3,607	23,205	42,359,073	41,913,618,179	114,753,232.5	8.52	3.14 (3.04, 3.25)	25,313,516	7,018	6

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	26,243	206,828	77,985,454	101352607659	277,488,316.7	33.65	9.46 (9.34, 9.57)	253,193,222	9,648	8
Patients with Mixed cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	2,763,000	*****	*****
Asian	531	3,177	5,509,680	6,137,221,897	16,802,797.8	9.64	3.16 (2.90, 3.44)	3,618,871	6,815	6
Black or African American	6,699	49,653	23,269,165	25,225,180,305	69,062,779.8	28.79	9.70 (9.47, 9.93)	56,358,430	8,413	7
Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	152,204	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	176,433	*****	*****
Unknown	3,259	17,733	42,359,073	41,913,618,179	114,753,232.5	7.69	2.84 (2.74, 2.94)	19,330,192	5,931	5
White	24,873	187,764	77,985,454	101352607659	277,488,316.7	31.89	8.96 (8.85, 9.08)	229,512,116	9,227	8
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
American Indian or Alaska Native	78	375	1,804,254	1,951,265,427	5,342,273.6	4.32	1.46 (1.17, 1.82)	471,334	6,043	5
Asian	299	1,288	5,509,680	6,137,221,897	16,802,797.8	5.43	1.78 (1.59, 1.99)	1,465,010	4,900	4
Black or African American	3,528	16,438	23,269,165	25,225,180,305	69,062,779.8	15.16	5.11 (4.94, 5.28)	18,502,183	5,244	5
Multi-racial	19	80	655,507	697,395,278	1,909,364.2	2.90	1.00 (0.63, 1.56)	66,051	3,476	4
Native Hawaiian or Other Pacific Islander	22	118	537,033	568,108,628	1,555,396.7	4.10	1.41 (0.93, 2.15)	107,364	4,880	5

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	1,653	6,553	42,359,073	41,913,618,179	114,753,232.5	3.90	1.44 (1.37, 1.51)	6,880,898	4,163	4
White	15,166	76,837	77,985,454	101352607659	277,488,316.7	19.45	5.47 (5.38, 5.55)	96,304,688	6,350	5
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	6,967	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	219,109	*****	*****
Black or African American	126	362	23,269,165	25,225,180,305	69,062,779.8	0.54	0.18 (0.15, 0.22)	273,140	2,168	3
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	10,333	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	6,294	*****	*****
Unknown	187	474	42,359,073	41,913,618,179	114,753,232.5	0.44	0.16 (0.14, 0.19)	387,756	2,074	3
White	1,104	3,846	77,985,454	101352607659	277,488,316.7	1.42	0.40 (0.38, 0.42)	3,863,872	3,500	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	6,967	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	218,002	*****	*****
Black or African American	*****	*****	23,269,165	25,225,180,305	69,062,779.8	*****	*****	235,868	*****	*****
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	10,333	*****	*****

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	6,294	*****	*****
Unknown	*****	*****	42,359,073	41,913,618,179	114,753,232.5	*****	*****	383,822	*****	*****
White	*****	*****	77,985,454	101352607659	277,488,316.7	*****	*****	3,852,563	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	5,866	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	205,461	*****	*****
Black or African American	*****	*****	23,269,165	25,225,180,305	69,062,779.8	*****	*****	225,654	*****	*****
American Multi-racial	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	10,333	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	6,294	*****	*****
Unknown	*****	*****	42,359,073	41,913,618,179	114,753,232.5	*****	*****	348,727	*****	*****
White	1,050	3,560	77,985,454	101352607659	277,488,316.7	1.35	0.38 (0.36, 0.40)	3,577,612	3,407	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
American Indian or Alaska Native	*****	*****	1,804,254	1,951,265,427	5,342,273.6	*****	*****	5,374	*****	*****
Asian	*****	*****	5,509,680	6,137,221,897	16,802,797.8	*****	*****	146,587	*****	*****
Black or African American	*****	*****	23,269,165	25,225,180,305	69,062,779.8	*****	*****	149,709	*****	*****
American										

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
Multi-racial Native Hawaiian or Other Pacific Islander	*****	*****	655,507	697,395,278	1,909,364.2	*****	*****	8,565	*****	*****
	*****	*****	537,033	568,108,628	1,555,396.7	*****	*****	1,824	*****	*****

Table 6. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	133	279	42,359,073	41,913,618,179	114,753,232.5	0.31	0.12 (0.10, 0.14)	227,188	1,708	2
White	705	2,184	77,985,454	101,352,607,659	277,488,316.7	0.90	0.25 (0.24, 0.27)	2,253,775	3,197	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.

Table 7. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin²

	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	15,003	73,698	25,107,598	26,854,661,136	73,524,055.1	59.75	20.41 (20.08, 20.73)	62,916,393	4,194	5
No	168,238	861,926	110,163,485	136318979056	373,221,024.1	152.72	45.08 (44.86, 45.29)	827,076,624	4,916	5
Unknown	9,395	46,752	16,849,083	14,671,757,181	40,169,081.9	55.76	23.39 (22.92, 23.87)	38,581,884	4,107	5
Patients with Discoid lupus erythematosus coded by any known provider										
Yes	14,731	66,906	25,107,598	26,854,661,136	73,524,055.1	58.67	20.04 (19.71, 20.36)	56,958,913	3,867	5
No	166,799	826,057	110,163,485	136318979056	373,221,024.1	151.41	44.69 (44.48, 44.91)	799,844,391	4,795	5
Unknown	9,209	39,836	16,849,083	14,671,757,181	40,169,081.9	54.66	22.93 (22.46, 23.40)	33,583,641	3,647	4
Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Yes	12,558	47,800	25,107,598	26,854,661,136	73,524,055.1	50.02	17.08 (16.78, 17.38)	39,696,218	3,161	4
No	151,137	725,280	110,163,485	136318979056	373,221,024.1	137.19	40.50 (40.29, 40.70)	706,761,794	4,676	5
Unknown	7,846	31,690	16,849,083	14,671,757,181	40,169,081.9	46.57	19.53 (19.10, 19.97)	27,113,502	3,456	4
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
Yes	3,497	11,970	25,107,598	26,854,661,136	73,524,055.1	13.93	4.76 (4.60, 4.92)	9,716,480	2,779	3
No	43,335	165,638	110,163,485	136318979056	373,221,024.1	39.34	11.61 (11.50, 11.72)	168,401,215	3,886	4
Unknown	2,753	9,616	16,849,083	14,671,757,181	40,169,081.9	16.34	6.85 (6.60, 7.11)	8,168,815	2,967	3
Patients with Subacute cutaneous lupus erythematosus										
Yes	1,238	3,491	25,107,598	26,854,661,136	73,524,055.1	4.93	1.68 (1.59, 1.78)	2,791,793	2,255	3
No	29,132	136,277	110,163,485	136318979056	373,221,024.1	26.44	7.81 (7.72, 7.90)	131,704,474	4,521	5
Unknown	1,171	4,466	16,849,083	14,671,757,181	40,169,081.9	6.95	2.92 (2.75, 3.09)	3,687,277	3,149	4
Patients with Subacute cutaneous lupus erythematosus coded by any known provider										
Yes	1,209	3,401	25,107,598	26,854,661,136	73,524,055.1	4.82	1.64 (1.55, 1.74)	2,720,818	2,250	3
No	28,982	135,098	110,163,485	136318979056	373,221,024.1	26.31	7.77 (7.68, 7.86)	130,707,857	4,510	5
Unknown	1,158	4,427	16,849,083	14,671,757,181	40,169,081.9	6.87	2.88 (2.72, 3.05)	3,665,941	3,166	4
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Yes	1,008	2,774	25,107,598	26,854,661,136	73,524,055.1	4.01	1.37 (1.29, 1.46)	2,208,686	2,191	3
No	26,227	121,034	110,163,485	136318979056	373,221,024.1	23.81	7.03 (6.94, 7.11)	116,777,468	4,453	5
Unknown	1,006	3,643	16,849,083	14,671,757,181	40,169,081.9	5.97	2.50 (2.35, 2.66)	3,178,981	3,160	4

Table 7. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin²

	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 a dermatologist or rheumatologist										
Yes	507	1,436	25,107,598	26,854,661,136	73,524,055.1	2.02	0.69 (0.63, 0.75)	1,221,624	2,410	3
No	16,545	68,404	110,163,485	136,318,979,056	373,221,024.1	15.02	4.43 (4.37, 4.50)	69,490,753	4,200	4
Unknown	593	1,878	16,849,083	14,671,757,181	40,169,081.9	3.52	1.48 (1.36, 1.60)	1,716,137	2,894	3
Patients with Other lupus erythematosus										
Yes	4,331	19,562	25,107,598	26,854,661,136	73,524,055.1	17.25	5.89 (5.72, 6.07)	15,599,867	3,602	5
No	53,023	247,327	110,163,485	136,318,979,056	373,221,024.1	48.13	14.21 (14.09, 14.33)	234,476,696	4,422	5
Unknown	2,930	17,404	16,849,083	14,671,757,181	40,169,081.9	17.39	7.29 (7.03, 7.56)	12,820,415	4,376	6
Patients with Other lupus erythematosus coded by any known provider										
Yes	4,235	17,145	25,107,598	26,854,661,136	73,524,055.1	16.87	5.76 (5.59, 5.94)	14,181,891	3,349	4
No	52,585	229,298	110,163,485	136,318,979,056	373,221,024.1	47.73	14.09 (13.97, 14.21)	218,537,447	4,156	4
Unknown	2,874	14,469	16,849,083	14,671,757,181	40,169,081.9	17.06	7.15 (6.90, 7.42)	11,421,791	3,974	5
Patients with Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Yes	3,418	11,190	25,107,598	26,854,661,136	73,524,055.1	13.61	4.65 (4.50, 4.81)	9,076,229	2,655	3
No	46,444	191,181	110,163,485	136,318,979,056	373,221,024.1	42.16	12.44 (12.33, 12.56)	184,441,724	3,971	4
Unknown	2,317	9,097	16,849,083	14,671,757,181	40,169,081.9	13.75	5.77 (5.54, 6.01)	7,493,915	3,234	4
Patients with Other lupus erythematosus coded by any dermatologist or rheumatologist										
Yes	1,095	3,212	25,107,598	26,854,661,136	73,524,055.1	4.36	1.49 (1.40, 1.58)	2,535,968	2,316	3
No	18,261	61,894	110,163,485	136,318,979,056	373,221,024.1	16.58	4.89 (4.82, 4.96)	61,264,314	3,355	3
Unknown	1,006	2,851	16,849,083	14,671,757,181	40,169,081.9	5.97	2.50 (2.35, 2.66)	2,417,966	2,404	3
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus										
Yes	5,630	49,969	25,107,598	26,854,661,136	73,524,055.1	22.42	7.66 (7.46, 7.86)	37,190,401	6,606	9
No	71,991	648,931	110,163,485	136,318,979,056	373,221,024.1	65.35	19.29 (19.15, 19.43)	580,025,424	8,057	9
Unknown	3,438	26,777	16,849,083	14,671,757,181	40,169,081.9	20.40	8.56 (8.28, 8.85)	20,885,981	6,075	8
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by any known specialty										
Yes	5,553	44,067	25,107,598	26,854,661,136	73,524,055.1	22.12	7.55 (7.36, 7.75)	34,270,285	6,171	8
No	71,491	627,217	110,163,485	136,318,979,056	373,221,024.1	64.90	19.16 (19.02, 19.30)	566,009,977	7,917	9
Unknown	3,391	24,862	16,849,083	14,671,757,181	40,169,081.9	20.13	8.44 (8.16, 8.73)	20,028,574	5,906	7

Table 7. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin²

	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 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	5,054	34,189	25,107,598	26,854,661,136	73,524,055.1	20.13	6.87 (6.69, 7.07)	26,636,467	5,270	7
No	67,566	558,702	110,163,485	136318979056	373,221,024.1	61.33	18.10 (17.97, 18.24)	504,944,935	7,473	8
Unknown	3,035	19,247	16,849,083	14,671,757,181	40,169,081.9	18.01	7.56 (7.29, 7.83)	16,097,546	5,304	6
Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus coded by a dermatologist or rheumatologist										
Yes	2,155	10,676	25,107,598	26,854,661,136	73,524,055.1	8.58	2.93 (2.81, 3.06)	8,815,597	4,091	5
No	22,604	120,914	110,163,485	136318979056	373,221,024.1	20.52	6.06 (5.98, 6.14)	120,375,576	5,325	5
Unknown	1,287	5,930	16,849,083	14,671,757,181	40,169,081.9	7.64	3.20 (3.03, 3.38)	4,924,351	3,826	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
Yes	6,787	35,711	25,107,598	26,854,661,136	73,524,055.1	27.03	9.23 (9.01, 9.45)	41,742,629	6,150	5
No	77,732	400,121	110,163,485	136318979056	373,221,024.1	70.56	20.83 (20.68, 20.97)	527,227,846	6,783	5
Unknown	3,511	19,239	16,849,083	14,671,757,181	40,169,081.9	20.84	8.74 (8.46, 9.03)	22,872,320	6,514	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider										
Yes	6,680	32,621	25,107,598	26,854,661,136	73,524,055.1	26.61	9.09 (8.87, 9.31)	38,430,429	5,753	5
No	77,239	384,519	110,163,485	136318979056	373,221,024.1	70.11	20.70 (20.55, 20.84)	510,187,492	6,605	5
Unknown	3,452	15,862	16,849,083	14,671,757,181	40,169,081.9	20.49	8.59 (8.31, 8.89)	19,341,412	5,603	5
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Yes	5,963	23,646	25,107,598	26,854,661,136	73,524,055.1	23.75	8.11 (7.91, 8.32)	27,662,521	4,639	4
No	72,944	342,868	110,163,485	136318979056	373,221,024.1	66.21	19.54 (19.40, 19.69)	457,401,286	6,271	5
Unknown	3,147	13,129	16,849,083	14,671,757,181	40,169,081.9	18.68	7.83 (7.57, 8.11)	16,183,656	5,143	4
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by a dermatologist or rheumatologist										
Yes	1,574	5,224	25,107,598	26,854,661,136	73,524,055.1	6.27	2.14 (2.04, 2.25)	6,082,675	3,864	3
No	18,989	73,088	110,163,485	136318979056	373,221,024.1	17.24	5.09 (5.02, 5.16)	99,650,865	5,248	4
Unknown	976	3,489	16,849,083	14,671,757,181	40,169,081.9	5.79	2.43 (2.28, 2.59)	4,221,040	4,325	4
Patients with Mixed cutaneous lupus erythematosus										
Yes	2,100	14,561	25,107,598	26,854,661,136	73,524,055.1	8.36	2.86 (2.74, 2.98)	15,902,982	7,573	7
No	34,517	281,188	110,163,485	136318979056	373,221,024.1	31.33	9.25 (9.15, 9.35)	337,097,940	9,766	8
Unknown	1,512	12,545	16,849,083	14,671,757,181	40,169,081.9	8.97	3.76 (3.58, 3.96)	13,295,397	8,793	8

Table 7. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin²

	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 Mixed cutaneous lupus erythematosus coded by any known provider										
Yes	2,087	12,414	25,107,598	26,854,661,136	73,524,055.1	8.31	2.84 (2.72, 2.96)	13,838,679	6,631	6
No	34,342	272,010	110,163,485	136,318,979,056	373,221,024.1	31.17	9.20 (9.10, 9.30)	327,027,958	9,523	8
Unknown	1,499	10,714	16,849,083	14,671,757,181	40,169,081.9	8.90	3.73 (3.55, 3.93)	11,421,753	7,620	7
Patients with Mixed cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
Yes	*****	*****	25,107,598	26,854,661,136	73,524,055.1	*****	*****	10,299,299	*****	*****
No	32,436	243,285	110,163,485	136,318,979,056	373,221,024.1	29.44	8.69 (8.60, 8.79)	292,626,278	9,022	8
Unknown	*****	*****	16,849,083	14,671,757,181	40,169,081.9	*****	*****	8,985,669	*****	*****
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
Yes	868	3,326	25,107,598	26,854,661,136	73,524,055.1	3.46	1.18 (1.10, 1.26)	3,437,787	3,961	4
No	19,121	95,157	110,163,485	136,318,979,056	373,221,024.1	17.36	5.12 (5.05, 5.20)	116,929,828	6,115	5
Unknown	776	3,206	16,849,083	14,671,757,181	40,169,081.9	4.61	1.93 (1.80, 2.07)	3,429,913	4,420	4
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
Yes	81	200	25,107,598	26,854,661,136	73,524,055.1	0.32	0.11 (0.09, 0.14)	163,824	2,023	2
No	1,305	4,503	110,163,485	136,318,979,056	373,221,024.1	1.18	0.35 (0.33, 0.37)	4,381,752	3,358	3
Unknown	105	272	16,849,083	14,671,757,181	40,169,081.9	0.62	0.26 (0.22, 0.32)	221,895	2,113	3
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
Yes	*****	*****	25,107,598	26,854,661,136	73,524,055.1	*****	*****	160,355	*****	*****
No	*****	*****	110,163,485	136,318,979,056	373,221,024.1	*****	*****	4,332,064	*****	*****
Unknown	*****	*****	16,849,083	14,671,757,181	40,169,081.9	*****	*****	221,430	*****	*****
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Provider with Known Specialty (Excluding Unknown Specialty)										
Yes	*****	*****	25,107,598	26,854,661,136	73,524,055.1	*****	*****	142,497	*****	*****
No	1,235	4,141	110,163,485	136,318,979,056	373,221,024.1	1.12	0.33 (0.31, 0.35)	4,033,257	3,266	3
Unknown	*****	*****	16,849,083	14,671,757,181	40,169,081.9	*****	*****	204,193	*****	*****

Table 7. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Hispanic Origin²

	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	*****	*****	25,107,598	26,854,661,136	73,524,055.1	*****	*****	96,125	*****	*****
No	847	2,574	110,163,485	136,318,979,056	373,221,024.1	0.77	0.23 (0.21, 0.24)	2,567,871	3,032	3
Unknown	*****	*****	16,849,083	14,671,757,181	40,169,081.9	*****	*****	129,026	*****	*****

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 Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	105	289	11,591,850	3,161,339,455	8,655,275.7	0.91	1.21 (1.00, 1.47)	401,073	3,820	3
2018	98	209	11,545,778	3,208,807,913	8,785,237.3	0.85	1.12 (0.92, 1.36)	219,454	2,239	2
2019	114	221	12,328,395	3,357,506,357	9,192,351.4	0.92	1.24 (1.03, 1.49)	178,653	1,567	2
2020	76	151	12,398,155	3,583,227,924	9,810,343.4	0.61	0.77 (0.62, 0.97)	81,733	1,075	2
2021	93	206	12,917,120	3,833,342,703	10,495,120.3	0.72	0.89 (0.72, 1.09)	31,900	343	2
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	178	401	11,690,200	3,268,779,923	8,949,431.7	1.52	1.99 (1.72, 2.30)	543,516	3,053	2
2018	220	488	11,794,163	3,342,692,196	9,151,792.5	1.87	2.40 (2.11, 2.74)	526,920	2,395	2
2019	178	395	12,506,952	3,475,105,501	9,514,320.3	1.42	1.87 (1.62, 2.17)	335,310	1,884	2
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	170,703	*****	*****
2021	163	374	13,428,807	4,023,008,657	11,014,397.4	1.21	1.48 (1.27, 1.73)	66,324	407	2
2022	*****	*****	362	90,428	247.6	*****	*****	1,410	*****	*****
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	569	1,193	10,061,718	2,781,680,667	7,615,826.6	5.66	7.47 (6.88, 8.11)	1,503,679	2,643	2
2018	760	1,597	10,438,880	2,926,279,555	8,011,716.8	7.28	9.49 (8.84, 10.19)	1,666,926	2,193	2
2019	672	1,610	11,377,856	3,152,023,843	8,629,771.0	5.91	7.79 (7.22, 8.40)	1,323,035	1,969	2
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	573,280	*****	*****
2021	514	1,094	12,977,688	3,891,829,344	10,655,248.0	3.96	4.82 (4.42, 5.26)	193,929	377	2
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	12,554	35,249	22,965,833	6,212,667,748	17,009,357.3	54.66	73.81 (72.53, 75.11)	46,153,982	3,676	3
Patients with Discoid lupus erythematosus										
2018	16,916	49,448	23,406,875	6,430,810,984	17,606,600.9	72.27	96.08 (94.64, 97.54)	53,824,035	3,182	3
2019	13,628	38,094	23,954,273	6,512,428,986	17,830,058.8	56.89	76.43 (75.16, 77.73)	33,072,076	2,427	3
2020	10,517	29,291	25,841,527	7,509,244,078	20,559,189.8	40.70	51.15 (50.19, 52.14)	17,792,082	1,692	3
2021	10,396	27,924	29,117,067	9,107,774,164	24,935,726.7	35.70	41.69 (40.90, 42.50)	8,904,755	857	3
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	2,825,005	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	849,816	*****	*****
<i>45-64 years</i>										
2017	19,128	60,091	13,458,217	3,975,364,568	10,883,955.0	142.13	175.74 (173.27, 178.25)	80,088,270	4,187	3
2018	24,355	75,446	13,509,655	4,039,393,304	11,059,256.1	180.28	220.22 (217.47, 223.01)	86,988,030	3,572	3
2019	19,838	61,259	13,386,267	3,978,394,006	10,892,249.2	148.20	182.13 (179.61, 184.68)	57,933,101	2,920	3
2020	15,382	47,729	13,613,992	4,120,692,291	11,281,840.6	112.99	136.34 (134.21, 138.51)	34,305,618	2,230	3
2021	14,249	42,423	13,965,802	4,380,354,937	11,992,758.2	102.03	118.81 (116.88, 120.78)	20,136,499	1,413	3
2022	6,806	18,927	2,863,873	868,062,132	2,376,624.6	237.65	286.37 (279.65, 293.26)	8,984,993	1,320	3
2023	5,536	15,416	2,505,856	750,858,952	2,055,739.8	220.92	269.29 (262.29, 276.48)	2,742,826	495	3
<i>≥ 65 years</i>										
2017	26,834	63,533	29,928,573	10,011,070,650	27,408,817.7	89.66	97.90 (96.74, 99.08)	105,002,674	3,913	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2018	32,663	81,651	30,060,745	10,041,302,125	27,491,586.9	108.66	118.81 (117.53, 120.11)	117,902,418	3,610	2
2019	29,338	73,016	30,138,750	10,061,319,852	27,546,392.5	97.34	106.50 (105.29, 107.73)	92,069,334	3,138	2
2020	24,493	62,016	29,840,211	9,993,247,475	27,360,020.5	82.08	89.52 (88.41, 90.65)	62,800,093	2,564	3
2021	24,653	63,543	29,010,396	9,683,612,233	26,512,285.4	84.98	92.99 (91.83, 94.16)	48,768,762	1,978	3
2022	23,465	59,156	27,589,641	9,236,544,426	25,288,280.4	85.05	92.79 (91.61, 93.98)	29,409,190	1,253	3
2023	22,594	57,414	26,858,019	9,014,847,893	24,681,308.4	84.12	91.54 (90.36, 92.74)	10,200,952	451	3
Patients with Discoid lupus erythematosus coded by any known provider										
<i>0-5 years</i>										
2017	99	272	11,591,850	3,161,339,455	8,655,275.7	0.85	1.14 (0.94, 1.39)	382,129	3,860	3
2018	95	201	11,545,778	3,208,807,913	8,785,237.3	0.82	1.08 (0.88, 1.32)	210,157	2,212	2
2019	109	212	12,328,395	3,357,506,357	9,192,351.4	0.88	1.19 (0.98, 1.43)	170,797	1,567	2
2020	73	145	12,398,155	3,583,227,924	9,810,343.4	0.59	0.74 (0.59, 0.94)	78,483	1,075	2
2021	89	194	12,917,120	3,833,342,703	10,495,120.3	0.69	0.85 (0.69, 1.04)	30,507	343	2
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	174	390	11,690,200	3,268,779,923	8,949,431.7	1.49	1.94 (1.68, 2.26)	530,016	3,046	2
2018	210	466	11,794,163	3,342,692,196	9,151,792.5	1.78	2.29 (2.00, 2.63)	500,301	2,382	2
2019	168	369	12,506,952	3,475,105,501	9,514,320.3	1.34	1.77 (1.52, 2.05)	312,892	1,862	2
2020	145	308	12,966,641	3,752,829,156	10,274,686.3	1.12	1.41 (1.20, 1.66)	165,754	1,143	2
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	65,425	*****	*****
2022	*****	*****	362	90,428	247.6	*****	*****	1,410	*****	*****
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	543	1,126	10,061,718	2,781,680,667	7,615,826.6	5.40	7.13 (6.55, 7.76)	1,407,124	2,591	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2018	735	1,540	10,438,880	2,926,279,555	8,011,716.8	7.04	9.17 (8.53, 9.86)	1,613,803	2,196	2
2019	639	1,493	11,377,856	3,152,023,843	8,629,771.0	5.62	7.40 (6.85, 8.00)	1,231,575	1,927	2
2020	501	1,068	12,185,875	3,539,539,771	9,690,731.7	4.11	5.17 (4.74, 5.64)	536,157	1,070	2
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	185,506	*****	*****
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****
<i>18-44 years</i>										
2017	12,117	31,167	22,965,833	6,212,667,748	17,009,357.3	52.76	71.24 (69.98, 72.52)	40,756,719	3,364	3
2018	16,464	45,207	23,406,875	6,430,810,984	17,606,600.9	70.34	93.51 (92.09, 94.95)	49,314,745	2,995	3
2019	13,271	35,021	23,954,273	6,512,428,986	17,830,058.8	55.40	74.43 (73.17, 75.71)	30,578,269	2,304	3
2020	10,255	26,423	25,841,527	7,509,244,078	20,559,189.8	39.68	49.88 (48.92, 50.86)	16,301,447	1,590	3
2021	10,151	25,271	29,117,067	9,107,774,164	24,935,726.7	34.86	40.71 (39.92, 41.51)	8,382,246	826	2
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	2,823,692	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	849,816	*****	*****
<i>45-64 years</i>										
2017	18,808	53,578	13,458,217	3,975,364,568	10,883,955.0	139.75	172.80 (170.35, 175.29)	72,067,089	3,832	3
2018	24,032	67,809	13,509,655	4,039,393,304	11,059,256.1	177.89	217.30 (214.57, 220.07)	79,697,301	3,316	3
2019	19,586	54,310	13,386,267	3,978,394,006	10,892,249.2	146.31	179.82 (177.32, 182.35)	53,642,264	2,739	3
2020	15,142	41,861	13,613,992	4,120,692,291	11,281,840.6	111.22	134.22 (132.09, 136.37)	31,787,730	2,099	3
2021	14,047	38,086	13,965,802	4,380,354,937	11,992,758.2	100.58	117.13 (115.21, 119.08)	19,303,280	1,374	3
2022	6,805	18,926	2,863,873	868,062,132	2,376,624.6	237.62	286.33 (279.61, 293.22)	8,984,951	1,320	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	5,535	15,414	2,505,856	750,858,952	2,055,739.8	220.88	269.25 (262.25, 276.43)	2,742,617	496	3
<i>≥ 65 years</i>										
2017	26,821	63,300	29,928,573	10,011,070,650	27,408,817.7	89.62	97.86 (96.69, 99.03)	104,758,691	3,906	2
2018	32,655	81,582	30,060,745	10,041,302,125	27,491,586.9	108.63	118.78 (117.50, 120.08)	117,866,126	3,609	2
2019	29,321	72,989	30,138,750	10,061,319,852	27,546,392.5	97.29	106.44 (105.23, 107.67)	92,045,075	3,139	2
2020	24,474	61,915	29,840,211	9,993,247,475	27,360,020.5	82.02	89.45 (88.34, 90.58)	62,750,588	2,564	3
2021	24,641	63,121	29,010,396	9,683,612,233	26,512,285.4	84.94	92.94 (91.79, 94.11)	48,704,578	1,977	3
2022	23,460	59,148	27,589,641	9,236,544,426	25,288,280.4	85.03	92.77 (91.59, 93.97)	29,405,730	1,253	3
2023	22,588	57,407	26,858,019	9,014,847,893	24,681,308.4	84.10	91.52 (90.33, 92.72)	10,199,410	452	3

Patients with Discoid lupus erythematosus coded by provider with known specialty (excluding unknown specialty)

<i>0-5 years</i>										
2017	87	228	11,591,850	3,161,339,455	8,655,275.7	0.75	1.01 (0.81, 1.24)	326,718	3,755	3
2018	82	152	11,545,778	3,208,807,913	8,785,237.3	0.71	0.93 (0.75, 1.16)	156,224	1,905	2
2019	97	180	12,328,395	3,357,506,357	9,192,351.4	0.79	1.06 (0.86, 1.29)	143,166	1,476	2
2020	63	127	12,398,155	3,583,227,924	9,810,343.4	0.51	0.64 (0.50, 0.82)	69,140	1,097	2
2021	85	172	12,917,120	3,833,342,703	10,495,120.3	0.66	0.81 (0.65, 1.00)	26,730	314	2
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	148	322	11,690,200	3,268,779,923	8,949,431.7	1.27	1.65 (1.41, 1.94)	441,803	2,985	2
2018	177	380	11,794,163	3,342,692,196	9,151,792.5	1.50	1.93 (1.67, 2.24)	403,867	2,282	2
2019	148	305	12,506,952	3,475,105,501	9,514,320.3	1.18	1.56 (1.32, 1.83)	258,628	1,747	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	125	259	12,966,641	3,752,829,156	10,274,686.3	0.96	1.22 (1.02, 1.45)	139,615	1,117	2
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	51,694	*****	*****
2022	*****	*****	362	90,428	247.6	*****	*****	1,410	*****	*****
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	456	918	10,061,718	2,781,680,667	7,615,826.6	4.53	5.99 (5.46, 6.56)	1,137,756	2,495	2
2018	620	1,226	10,438,880	2,926,279,555	8,011,716.8	5.94	7.74 (7.15, 8.37)	1,269,233	2,047	2
2019	546	1,223	11,377,856	3,152,023,843	8,629,771.0	4.80	6.33 (5.82, 6.88)	1,009,507	1,849	2
2020	427	848	12,185,875	3,539,539,771	9,690,731.7	3.50	4.41 (4.01, 4.84)	426,115	998	2
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	146,869	*****	*****
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****
<i>18-44 years</i>										
2017	10,547	23,985	22,965,833	6,212,667,748	17,009,357.3	45.92	62.01 (60.83, 63.20)	31,534,118	2,990	2
2018	14,625	36,683	23,406,875	6,430,810,984	17,606,600.9	62.48	83.07 (81.73, 84.42)	40,346,356	2,759	3
2019	11,602	28,297	23,954,273	6,512,428,986	17,830,058.8	48.43	65.07 (63.90, 66.26)	25,171,670	2,170	2
2020	8,973	20,844	25,841,527	7,509,244,078	20,559,189.8	34.72	43.64 (42.75, 44.56)	13,375,286	1,491	2
2021	8,707	20,359	29,117,067	9,107,774,164	24,935,726.7	29.90	34.92 (34.19, 35.66)	7,244,314	832	2
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	2,644,285	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	791,093	*****	*****
<i>45-64 years</i>										
2017	16,785	41,207	13,458,217	3,975,364,568	10,883,955.0	124.72	154.22 (151.90, 156.57)	57,013,015	3,397	2
2018	21,830	55,610	13,509,655	4,039,393,304	11,059,256.1	161.59	197.39 (194.79, 200.03)	67,297,179	3,083	3
2019	17,655	44,654	13,386,267	3,978,394,006	10,892,249.2	131.89	162.09 (159.71, 164.50)	45,803,828	2,594	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	13,655	34,969	13,613,992	4,120,692,291	11,281,840.6	100.30	121.04 (119.02, 123.08)	27,746,914	2,032	3
2021	12,516	31,734	13,965,802	4,380,354,937	11,992,758.2	89.62	104.36 (102.55, 106.21)	17,393,038	1,390	3
2022	6,410	17,598	2,863,873	868,062,132	2,376,624.6	223.82	269.71 (263.19, 276.39)	8,336,342	1,301	3
2023	5,216	14,255	2,505,856	750,858,952	2,055,739.8	208.15	253.73 (246.94, 260.71)	2,534,420	486	3
<i>≥ 65 years</i>										
2017	24,396	56,649	29,928,573	10,011,070,650	27,408,817.7	81.51	89.01 (87.90, 90.13)	93,342,200	3,826	2
2018	30,110	74,161	30,060,745	10,041,302,125	27,491,586.9	100.16	109.52 (108.29, 110.77)	106,676,338	3,543	2
2019	26,993	66,006	30,138,750	10,061,319,852	27,546,392.5	89.56	97.99 (96.83, 99.17)	83,224,466	3,083	2
2020	22,619	56,129	29,840,211	9,993,247,475	27,360,020.5	75.80	82.67 (81.60, 83.76)	56,817,994	2,512	2
2021	22,838	57,424	29,010,396	9,683,612,233	26,512,285.4	78.72	86.14 (85.03, 87.27)	44,200,295	1,935	3
2022	21,755	54,038	27,589,641	9,236,544,426	25,288,280.4	78.85	86.03 (84.89, 87.18)	26,777,578	1,231	2
2023	20,976	52,342	26,858,019	9,014,847,893	24,681,308.4	78.10	84.99 (83.85, 86.15)	9,289,765	443	2
Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	147,858	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	68,978	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	63,685	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	34,106	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	9,652	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	217,246	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	183,606	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	124,009	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	65,007	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	26,494	*****	*****
2022	*****	*****	362	90,428	247.6	*****	*****	1,410	*****	*****
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	180	329	10,061,718	2,781,680,667	7,615,826.6	1.79	2.36 (2.04, 2.74)	410,262	2,279	2
2018	244	451	10,438,880	2,926,279,555	8,011,716.8	2.34	3.05 (2.69, 3.45)	471,646	1,933	2
2019	233	465	11,377,856	3,152,023,843	8,629,771.0	2.05	2.70 (2.37, 3.07)	369,604	1,586	2
2020	208	358	12,185,875	3,539,539,771	9,690,731.7	1.71	2.15 (1.87, 2.46)	186,262	895	2
2021	179	308	12,977,688	3,891,829,344	10,655,248.0	1.38	1.68 (1.45, 1.94)	54,868	307	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	3,013	5,727	22,965,833	6,212,667,748	17,009,357.3	13.12	17.71 (17.09, 18.36)	7,437,758	2,469	2
2018	4,022	8,058	23,406,875	6,430,810,984	17,606,600.9	17.18	22.84 (22.15, 23.56)	8,835,029	2,197	2
2019	3,658	7,439	23,954,273	6,512,428,986	17,830,058.8	15.27	20.52 (19.86, 21.19)	6,411,027	1,753	2
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	3,545,334	*****	*****
2021	3,062	6,292	29,117,067	9,107,774,164	24,935,726.7	10.52	12.28 (11.85, 12.72)	1,886,318	616	2
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	489,744	*****	*****
2023	379	925	949,991	290,743,272	796,011.7	39.90	47.61 (43.05, 52.66)	170,952	451	2
<i>45-64 years</i>										
2017	4,630	9,234	13,458,217	3,975,364,568	10,883,955.0	34.40	42.54 (41.33, 43.78)	12,789,662	2,762	2
2018	5,473	10,925	13,509,655	4,039,393,304	11,059,256.1	40.51	49.49 (48.19, 50.82)	13,313,887	2,433	2
2019	4,871	9,807	13,386,267	3,978,394,006	10,892,249.2	36.39	44.72 (43.48, 45.99)	9,799,092	2,012	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2020	3,980	8,013	13,613,992	4,120,692,291	11,281,840.6	29.23	35.28 (34.20, 36.39)	5,915,726	1,486	2
2021	3,678	7,486	13,965,802	4,380,354,937	11,992,758.2	26.34	30.67 (29.69, 31.68)	3,414,807	928	2
2022	1,460	3,035	2,863,873	868,062,132	2,376,624.6	50.98	61.43 (58.36, 64.67)	1,476,991	1,012	2
2023	1,190	2,533	2,505,856	750,858,952	2,055,739.8	47.49	57.89 (54.69, 61.27)	454,795	382	2
<i>≥ 65 years</i>										
2017	7,245	14,117	29,928,573	10,011,070,650	27,408,817.7	24.21	26.43 (25.83, 27.05)	25,969,594	3,584	2
2018	8,112	16,290	30,060,745	10,041,302,125	27,491,586.9	26.99	29.51 (28.87, 30.16)	26,047,850	3,211	2
2019	7,763	15,715	30,138,750	10,061,319,852	27,546,392.5	25.76	28.18 (27.56, 28.82)	21,546,900	2,776	2
2020	6,605	13,071	29,840,211	9,993,247,475	27,360,020.5	22.13	24.14 (23.57, 24.73)	14,441,502	2,186	2
2021	6,557	13,439	29,010,396	9,683,612,233	26,512,285.4	22.60	24.73 (24.14, 25.34)	11,058,634	1,687	2
2022	6,349	12,659	27,589,641	9,236,544,426	25,288,280.4	23.01	25.11 (24.50, 25.73)	6,565,610	1,034	2
2023	6,155	12,477	26,858,019	9,014,847,893	24,681,308.4	22.92	24.94 (24.32, 25.57)	2,280,605	371	2
Patients with Subacute cutaneous lupus erythematosus										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	19,181	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	11,433	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	7,550	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	2,844	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	977	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	98,482	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	72,539	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	39,784	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	21,714	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	14,632	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	56	89	10,061,718	2,781,680,667	7,615,826.6	0.56	0.74 (0.57, 0.96)	107,054	1,912	2
2018	61	105	10,438,880	2,926,279,555	8,011,716.8	0.58	0.76 (0.59, 0.98)	99,170	1,626	2
2019	58	89	11,377,856	3,152,023,843	8,629,771.0	0.51	0.67 (0.52, 0.87)	66,448	1,146	2
2020	63	102	12,185,875	3,539,539,771	9,690,731.7	0.52	0.65 (0.51, 0.83)	51,697	821	2
2021	69	108	12,977,688	3,891,829,344	10,655,248.0	0.53	0.65 (0.51, 0.82)	19,338	280	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	932	2,145	22,965,833	6,212,667,748	17,009,357.3	4.06	5.48 (5.14, 5.84)	2,549,683	2,736	2
2018	1,065	2,216	23,406,875	6,430,810,984	17,606,600.9	4.55	6.05 (5.70, 6.42)	2,451,717	2,302	2
2019	974	2,060	23,954,273	6,512,428,986	17,830,058.8	4.07	5.46 (5.13, 5.82)	1,804,710	1,853	2
2020	965	2,098	25,841,527	7,509,244,078	20,559,189.8	3.73	4.69 (4.41, 5.00)	1,223,617	1,268	2
2021	1,032	2,457	29,117,067	9,107,774,164	24,935,726.7	3.54	4.14 (3.89, 4.40)	730,115	707	2
2022	163	398	1,055,987	327,918,361	897,791.5	15.44	18.16 (15.57, 21.17)	193,362	1,186	2
2023	151	348	949,991	290,743,272	796,011.7	15.89	18.97 (16.17, 22.25)	58,536	388	2
<i>45-64 years</i>										
2017	1,745	3,906	13,458,217	3,975,364,568	10,883,955.0	12.97	16.03 (15.30, 16.80)	5,645,992	3,236	2
2018	1,849	4,444	13,509,655	4,039,393,304	11,059,256.1	13.69	16.72 (15.97, 17.50)	5,371,243	2,905	2
2019	1,780	4,388	13,386,267	3,978,394,006	10,892,249.2	13.30	16.34 (15.60, 17.12)	4,390,259	2,466	2
2020	1,613	3,692	13,613,992	4,120,692,291	11,281,840.6	11.85	14.30 (13.62, 15.01)	2,755,715	1,708	2
2021	1,610	3,438	13,965,802	4,380,354,937	11,992,758.2	11.53	13.42 (12.78, 14.10)	1,719,293	1,068	2
2022	787	1,898	2,863,873	868,062,132	2,376,624.6	27.48	33.11 (30.88, 35.51)	888,227	1,129	2
2023	708	1,561	2,505,856	750,858,952	2,055,739.8	28.25	34.44 (31.99, 37.07)	281,065	397	2
<i>≥ 65 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	5,740	13,416	29,928,573	10,011,070,650	27,408,817.7	19.18	20.94 (20.41, 21.49)	23,856,720	4,156	2
2018	6,203	14,583	30,060,745	10,041,302,125	27,491,586.9	20.63	22.56 (22.01, 23.13)	22,708,354	3,661	2
2019	6,349	15,230	30,138,750	10,061,319,852	27,546,392.5	21.07	23.05 (22.49, 23.62)	20,140,630	3,172	2
2020	6,193	14,901	29,840,211	9,993,247,475	27,360,020.5	20.75	22.64 (22.08, 23.21)	15,922,403	2,571	2
2021	6,729	16,747	29,010,396	9,683,612,233	26,512,285.4	23.20	25.38 (24.78, 25.99)	13,423,379	1,995	2
2022	6,688	16,933	27,589,641	9,236,544,426	25,288,280.4	24.24	26.45 (25.82, 27.09)	8,521,310	1,274	3
2023	6,749	16,542	26,858,019	9,014,847,893	24,681,308.4	25.13	27.34 (26.70, 28.00)	2,914,371	432	2
Patients with Subacute cutaneous lupus erythematosus coded by any known provider										
<i>0-5 years</i>										
2017	****	****	11,591,850	3,161,339,455	8,655,275.7	****	****	17,562	****	****
2018	****	****	11,545,778	3,208,807,913	8,785,237.3	****	****	11,433	****	****
2019	****	****	12,328,395	3,357,506,357	9,192,351.4	****	****	7,550	****	****
2020	****	****	12,398,155	3,583,227,924	9,810,343.4	****	****	2,844	****	****
2021	****	****	12,917,120	3,833,342,703	10,495,120.3	****	****	883	****	****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	****	****	11,690,200	3,268,779,923	8,949,431.7	****	****	98,482	****	****
2018	****	****	11,794,163	3,342,692,196	9,151,792.5	****	****	72,539	****	****
2019	****	****	12,506,952	3,475,105,501	9,514,320.3	****	****	37,957	****	****
2020	****	****	12,966,641	3,752,829,156	10,274,686.3	****	****	19,921	****	****
2021	****	****	13,428,807	4,023,008,657	11,014,397.4	****	****	13,643	****	****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	55	83	10,061,718	2,781,680,667	7,615,826.6	0.55	0.72 (0.55, 0.94)	102,105	1,856	2
2018	60	101	10,438,880	2,926,279,555	8,011,716.8	0.57	0.75 (0.58, 0.96)	97,348	1,622	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2019	56	87	11,377,856	3,152,023,843	8,629,771.0	0.49	0.65 (0.50, 0.84)	64,772	1,157	2
2020	60	97	12,185,875	3,539,539,771	9,690,731.7	0.49	0.62 (0.48, 0.80)	49,293	822	2
2021	67	106	12,977,688	3,891,829,344	10,655,248.0	0.52	0.63 (0.49, 0.80)	18,891	282	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	891	2,035	22,965,833	6,212,667,748	17,009,357.3	3.88	5.24 (4.91, 5.59)	2,435,977	2,734	2
2018	1,035	2,140	23,406,875	6,430,810,984	17,606,600.9	4.42	5.88 (5.53, 6.25)	2,380,208	2,300	2
2019	949	1,995	23,954,273	6,512,428,986	17,830,058.8	3.96	5.32 (4.99, 5.67)	1,758,584	1,853	2
2020	934	1,964	25,841,527	7,509,244,078	20,559,189.8	3.61	4.54 (4.26, 4.84)	1,154,525	1,236	2
2021	1,011	2,389	29,117,067	9,107,774,164	24,935,726.7	3.47	4.05 (3.81, 4.31)	716,349	709	2
2022	163	398	1,055,987	327,918,361	897,791.5	15.44	18.16 (15.57, 21.17)	193,362	1,186	2
2023	151	348	949,991	290,743,272	796,011.7	15.89	18.97 (16.17, 22.25)	58,536	388	2
<i>45-64 years</i>										
2017	1,710	3,778	13,458,217	3,975,364,568	10,883,955.0	12.71	15.71 (14.98, 16.47)	5,474,876	3,202	2
2018	1,827	4,282	13,509,655	4,039,393,304	11,059,256.1	13.52	16.52 (15.78, 17.30)	5,190,255	2,841	2
2019	1,757	3,984	13,386,267	3,978,394,006	10,892,249.2	13.13	16.13 (15.39, 16.90)	4,031,464	2,295	2
2020	1,593	3,625	13,613,992	4,120,692,291	11,281,840.6	11.70	14.12 (13.44, 14.83)	2,721,694	1,709	2
2021	1,592	3,377	13,965,802	4,380,354,937	11,992,758.2	11.40	13.27 (12.64, 13.94)	1,708,659	1,073	2
2022	787	1,898	2,863,873	868,062,132	2,376,624.6	27.48	33.11 (30.88, 35.51)	888,227	1,129	2
2023	708	1,561	2,505,856	750,858,952	2,055,739.8	28.25	34.44 (31.99, 37.07)	281,065	397	2
<i>≥ 65 years</i>										
2017	5,740	13,416	29,928,573	10,011,070,650	27,408,817.7	19.18	20.94 (20.41, 21.49)	23,856,720	4,156	2
2018	6,203	14,583	30,060,745	10,041,302,125	27,491,586.9	20.63	22.56 (22.01, 23.13)	22,708,354	3,661	2
2019	6,348	15,229	30,138,750	10,061,319,852	27,546,392.5	21.06	23.04 (22.48, 23.62)	20,139,103	3,173	2
2020	6,193	14,901	29,840,211	9,993,247,475	27,360,020.5	20.75	22.64 (22.08, 23.21)	15,922,403	2,571	2
2021	6,728	16,746	29,010,396	9,683,612,233	26,512,285.4	23.19	25.38 (24.78, 25.99)	13,423,351	1,995	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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	6,688	16,933	27,589,641	9,236,544,426	25,288,280.4	24.24	26.45 (25.82, 27.09)	8,521,310	1,274	3
2023	6,749	16,542	26,858,019	9,014,847,893	24,681,308.4	25.13	27.34 (26.70, 28.00)	2,914,371	432	2
Patients with Subacute cutaneous lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	17,562	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	9,045	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	5,281	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	2,475	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	130	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	84,026	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	57,774	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	26,385	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	16,376	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	10,816	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	47	66	10,061,718	2,781,680,667	7,615,826.6	0.47	0.62 (0.46, 0.82)	80,606	1,715	1
2018	48	73	10,438,880	2,926,279,555	8,011,716.8	0.46	0.60 (0.45, 0.80)	69,459	1,447	2
2019	47	68	11,377,856	3,152,023,843	8,629,771.0	0.41	0.54 (0.41, 0.72)	48,931	1,041	1
2020	48	81	12,185,875	3,539,539,771	9,690,731.7	0.39	0.50 (0.37, 0.66)	40,865	851	2
2021	59	92	12,977,688	3,891,829,344	10,655,248.0	0.45	0.55 (0.43, 0.71)	16,214	275	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	746	1,687	22,965,833	6,212,667,748	17,009,357.3	3.25	4.39 (4.08, 4.71)	2,050,626	2,749	2
2018	893	1,779	23,406,875	6,430,810,984	17,606,600.9	3.82	5.07 (4.75, 5.42)	2,020,708	2,263	2
2019	819	1,696	23,954,273	6,512,428,986	17,830,058.8	3.42	4.59 (4.29, 4.92)	1,521,161	1,857	2
2020	814	1,672	25,841,527	7,509,244,078	20,559,189.8	3.15	3.96 (3.70, 4.24)	1,006,613	1,237	2
2021	886	1,834	29,117,067	9,107,774,164	24,935,726.7	3.04	3.55 (3.33, 3.79)	613,708	693	2
2022	154	378	1,055,987	327,918,361	897,791.5	14.58	17.15 (14.65, 20.09)	183,653	1,193	2
2023	142	326	949,991	290,743,272	796,011.7	14.95	17.84 (15.13, 21.03)	54,850	386	2
<i>45-64 years</i>										
2017	1,533	3,237	13,458,217	3,975,364,568	10,883,955.0	11.39	14.08 (13.40, 14.81)	4,774,875	3,115	2
2018	1,645	3,738	13,509,655	4,039,393,304	11,059,256.1	12.18	14.87 (14.17, 15.61)	4,602,758	2,798	2
2019	1,600	3,510	13,386,267	3,978,394,006	10,892,249.2	11.95	14.69 (13.99, 15.43)	3,574,809	2,234	2
2020	1,441	3,186	13,613,992	4,120,692,291	11,281,840.6	10.58	12.77 (12.13, 13.45)	2,435,465	1,690	2
2021	1,432	3,003	13,965,802	4,380,354,937	11,992,758.2	10.25	11.94 (11.34, 12.58)	1,557,613	1,088	2
2022	743	1,752	2,863,873	868,062,132	2,376,624.6	25.94	31.26 (29.09, 33.59)	819,937	1,104	2
2023	657	1,419	2,505,856	750,858,952	2,055,739.8	26.22	31.96 (29.61, 34.50)	253,468	386	2
<i>≥ 65 years</i>										
2017	5,161	11,790	29,928,573	10,011,070,650	27,408,817.7	17.24	18.83 (18.32, 19.35)	20,938,008	4,057	2
2018	5,644	13,070	30,060,745	10,041,302,125	27,491,586.9	18.78	20.53 (20.00, 21.07)	20,269,337	3,591	2
2019	5,867	13,729	30,138,750	10,061,319,852	27,546,392.5	19.47	21.30 (20.76, 21.85)	18,080,076	3,082	2
2020	5,780	13,481	29,840,211	9,993,247,475	27,360,020.5	19.37	21.13 (20.59, 21.68)	14,380,814	2,488	2
2021	6,329	15,220	29,010,396	9,683,612,233	26,512,285.4	21.82	23.87 (23.29, 24.47)	12,180,337	1,925	2
2022	6,306	15,378	27,589,641	9,236,544,426	25,288,280.4	22.86	24.94 (24.33, 25.56)	7,734,707	1,227	2
2023	6,356	14,927	26,858,019	9,014,847,893	24,681,308.4	23.67	25.75 (25.13, 26.39)	2,625,667	413	2

Patients with Subacute cutaneous lupus erythematosus coded by a dermatologist or rheumatologist

<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	6,177	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	5,346	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	1,714	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	710	*****	*****
2021	0	0	12,917,120	3,833,342,703	10,495,120.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	53,130	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	39,711	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	17,474	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	11,817	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	5,000	*****	*****
2022	*****	*****	362	90,428	247.6	*****	*****	0	*****	*****
2023	*****	*****	342	85,603	234.4	*****	*****	0	*****	*****
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	47,827	*****	*****
2018	36	50	10,438,880	2,926,279,555	8,011,716.8	0.34	0.45 (0.32, 0.62)	47,270	1,313	1
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	21,105	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	31,438	*****	*****
2021	35	52	12,977,688	3,891,829,344	10,655,248.0	0.27	0.33 (0.24, 0.46)	8,758	250	1
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	393	688	22,965,833	6,212,667,748	17,009,357.3	1.71	2.31 (2.09, 2.55)	923,673	2,350	2
2018	439	784	23,406,875	6,430,810,984	17,606,600.9	1.88	2.49 (2.27, 2.74)	884,564	2,015	2
2019	448	827	23,954,273	6,512,428,986	17,830,058.8	1.87	2.51 (2.29, 2.76)	784,138	1,750	2
2020	440	838	25,841,527	7,509,244,078	20,559,189.8	1.70	2.14 (1.95, 2.35)	524,156	1,191	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	483	894	29,117,067	9,107,774,164	24,935,726.7	1.66	1.94 (1.77, 2.12)	308,754	639	2
2022	88	185	1,055,987	327,918,361	897,791.5	8.33	9.80 (7.95, 12.08)	88,177	1,002	2
2023	72	138	949,991	290,743,272	796,011.7	7.58	9.05 (7.18, 11.40)	24,612	342	2
<i>45-64 years</i>										
2017	872	1,624	13,458,217	3,975,364,568	10,883,955.0	6.48	8.01 (7.50, 8.56)	2,459,447	2,820	2
2018	929	1,820	13,509,655	4,039,393,304	11,059,256.1	6.88	8.40 (7.88, 8.96)	2,311,522	2,488	2
2019	908	1,782	13,386,267	3,978,394,006	10,892,249.2	6.78	8.34 (7.81, 8.90)	1,830,859	2,016	2
2020	856	1,656	13,613,992	4,120,692,291	11,281,840.6	6.29	7.59 (7.10, 8.11)	1,298,698	1,517	2
2021	833	1,634	13,965,802	4,380,354,937	11,992,758.2	5.96	6.95 (6.49, 7.43)	871,180	1,046	2
2022	411	869	2,863,873	868,062,132	2,376,624.6	14.35	17.29 (15.70, 19.05)	424,065	1,032	2
2023	367	749	2,505,856	750,858,952	2,055,739.8	14.65	17.85 (16.12, 19.78)	136,629	372	2
<i>≥ 65 years</i>										
2017	3,563	7,494	29,928,573	10,011,070,650	27,408,817.7	11.91	13.00 (12.58, 13.43)	13,699,840	3,845	2
2018	3,831	7,956	30,060,745	10,041,302,125	27,491,586.9	12.74	13.94 (13.50, 14.38)	12,738,721	3,325	2
2019	3,984	8,173	30,138,750	10,061,319,852	27,546,392.5	13.22	14.46 (14.02, 14.92)	11,182,492	2,807	2
2020	3,883	7,934	29,840,211	9,993,247,475	27,360,020.5	13.01	14.19 (13.75, 14.65)	8,701,618	2,241	2
2021	4,192	8,592	29,010,396	9,683,612,233	26,512,285.4	14.45	15.81 (15.34, 16.30)	7,100,091	1,694	2
2022	4,128	8,448	27,589,641	9,236,544,426	25,288,280.4	14.96	16.32 (15.83, 16.83)	4,366,553	1,058	2
2023	4,088	8,249	26,858,019	9,014,847,893	24,681,308.4	15.22	16.56 (16.06, 17.08)	1,471,248	360	2
Patients with Other lupus erythematosus										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	53,819	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	138,578	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	134,507	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	77,540	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	21,857	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	267,391	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	290,463	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	160,500	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	88,176	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	35,606	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	902,997	*****	*****
2018	223	583	10,438,880	2,926,279,555	8,011,716.8	2.14	2.78 (2.44, 3.17)	676,665	3,034	3
2019	221	501	11,377,856	3,152,023,843	8,629,771.0	1.94	2.56 (2.24, 2.92)	422,549	1,912	2
2020	220	478	12,185,875	3,539,539,771	9,690,731.7	1.81	2.27 (1.99, 2.59)	247,151	1,123	2
2021	230	494	12,977,688	3,891,829,344	10,655,248.0	1.77	2.16 (1.90, 2.46)	91,957	400	2
2022	*****	*****	778	198,242	542.8	*****	*****	693	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	13,907,609	*****	*****
2018	3,188	10,027	23,406,875	6,430,810,984	17,606,600.9	13.62	18.11 (17.49, 18.75)	11,446,160	3,590	3
2019	3,016	9,000	23,954,273	6,512,428,986	17,830,058.8	12.59	16.92 (16.32, 17.53)	8,173,096	2,710	3
2020	2,627	8,323	25,841,527	7,509,244,078	20,559,189.8	10.17	12.78 (12.30, 13.28)	5,036,886	1,917	3
2021	2,795	7,974	29,117,067	9,107,774,164	24,935,726.7	9.60	11.21 (10.80, 11.63)	2,480,593	888	3
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	805,422	*****	*****
2023	442	1,427	949,991	290,743,272	796,011.7	46.53	55.53 (50.58, 60.95)	254,622	576	3
<i>45-64 years</i>										
2017	4,997	18,697	13,458,217	3,975,364,568	10,883,955.0	37.13	45.91 (44.66, 47.20)	25,715,539	5,146	4

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2018	4,759	18,058	13,509,655	4,039,393,304	11,059,256.1	35.23	43.03 (41.83, 44.27)	20,948,810	4,402	4
2019	4,458	16,386	13,386,267	3,978,394,006	10,892,249.2	33.30	40.93 (39.74, 42.15)	15,040,838	3,374	4
2020	3,800	15,601	13,613,992	4,120,692,291	11,281,840.6	27.91	33.68 (32.63, 34.77)	9,886,743	2,602	4
2021	3,548	13,774	13,965,802	4,380,354,937	11,992,758.2	25.40	29.58 (28.63, 30.57)	5,017,476	1,414	4
2022	1,639	3,979	2,863,873	868,062,132	2,376,624.6	57.23	68.96 (65.70, 72.38)	1,861,093	1,136	2
2023	1,438	3,582	2,505,856	750,858,952	2,055,739.8	57.39	69.95 (66.43, 73.66)	623,525	434	2
<i>≥ 65 years</i>										
2017	8,336	19,691	29,928,573	10,011,070,650	27,408,817.7	27.85	30.41 (29.77, 31.07)	32,453,706	3,893	2
2018	8,572	20,258	30,060,745	10,041,302,125	27,491,586.9	28.52	31.18 (30.53, 31.85)	29,562,803	3,449	2
2019	8,690	21,464	30,138,750	10,061,319,852	27,546,392.5	28.83	31.55 (30.89, 32.22)	27,028,472	3,110	2
2020	8,008	20,413	29,840,211	9,993,247,475	27,360,020.5	26.84	29.27 (28.63, 29.92)	20,520,501	2,563	3
2021	8,255	20,635	29,010,396	9,683,612,233	26,512,285.4	28.46	31.14 (30.47, 31.82)	15,467,532	1,874	2
2022	8,245	19,427	27,589,641	9,236,544,426	25,288,280.4	29.88	32.60 (31.91, 33.32)	9,625,772	1,167	2
2023	8,059	19,170	26,858,019	9,014,847,893	24,681,308.4	30.01	32.65 (31.95, 33.37)	3,429,331	426	2
Patients with Other lupus erythematosus coded by any known provider										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	48,153	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	84,800	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	33,540	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	17,758	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	11,460	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	264,298	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	227,869	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	152,309	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	85,661	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	33,597	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	882,072	*****	*****
2018	214	530	10,438,880	2,926,279,555	8,011,716.8	2.05	2.67 (2.34, 3.05)	620,297	2,899	2
2019	218	449	11,377,856	3,152,023,843	8,629,771.0	1.92	2.53 (2.21, 2.88)	375,766	1,724	2
2020	209	435	12,185,875	3,539,539,771	9,690,731.7	1.72	2.16 (1.88, 2.47)	223,148	1,068	2
2021	225	472	12,977,688	3,891,829,344	10,655,248.0	1.73	2.11 (1.85, 2.41)	86,473	384	2
2022	*****	*****	778	198,242	542.8	*****	*****	693	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	11,268,449	*****	*****
2018	3,084	8,638	23,406,875	6,430,810,984	17,606,600.9	13.18	17.52 (16.91, 18.15)	9,984,373	3,237	3
2019	2,926	7,984	23,954,273	6,512,428,986	17,830,058.8	12.21	16.41 (15.83, 17.02)	7,307,744	2,498	3
2020	2,558	7,435	25,841,527	7,509,244,078	20,559,189.8	9.90	12.44 (11.97, 12.93)	4,592,442	1,795	3
2021	2,725	7,102	29,117,067	9,107,774,164	24,935,726.7	9.36	10.93 (10.53, 11.35)	2,337,079	858	3
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	805,246	*****	*****
2023	442	1,427	949,991	290,743,272	796,011.7	46.53	55.53 (50.58, 60.95)	254,622	576	3
<i>45-64 years</i>										
2017	4,904	16,002	13,458,217	3,975,364,568	10,883,955.0	36.44	45.06 (43.81, 46.34)	21,611,776	4,407	3
2018	4,657	15,434	13,509,655	4,039,393,304	11,059,256.1	34.47	42.11 (40.92, 43.34)	18,217,208	3,912	3
2019	4,368	13,382	13,386,267	3,978,394,006	10,892,249.2	32.63	40.10 (38.93, 41.31)	12,686,386	2,904	3
2020	3,733	11,882	13,613,992	4,120,692,291	11,281,840.6	27.42	33.09 (32.04, 34.17)	8,070,171	2,162	3
2021	3,489	10,736	13,965,802	4,380,354,937	11,992,758.2	24.98	29.09 (28.14, 30.07)	4,504,022	1,291	3
2022	1,639	3,979	2,863,873	868,062,132	2,376,624.6	57.23	68.96 (65.70, 72.38)	1,861,093	1,136	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	1,436	3,580	2,505,856	750,858,952	2,055,739.8	57.31	69.85 (66.33, 73.56)	622,850	434	2
<i>≥ 65 years</i>										
2017	8,334	19,470	29,928,573	10,011,070,650	27,408,817.7	27.85	30.41 (29.76, 31.07)	32,106,432	3,852	2
2018	8,569	19,948	30,060,745	10,041,302,125	27,491,586.9	28.51	31.17 (30.52, 31.84)	29,160,442	3,403	2
2019	8,689	21,202	30,138,750	10,061,319,852	27,546,392.5	28.83	31.54 (30.89, 32.21)	26,789,893	3,083	2
2020	8,004	20,124	29,840,211	9,993,247,475	27,360,020.5	26.82	29.25 (28.62, 29.90)	20,362,705	2,544	3
2021	8,253	20,198	29,010,396	9,683,612,233	26,512,285.4	28.45	31.13 (30.46, 31.81)	15,397,554	1,866	2
2022	8,244	19,424	27,589,641	9,236,544,426	25,288,280.4	29.88	32.60 (31.90, 33.31)	9,624,492	1,167	2
2023	8,057	19,165	26,858,019	9,014,847,893	24,681,308.4	30.00	32.64 (31.94, 33.36)	3,428,256	426	2
Patients with Other lupus erythematosus coded by provider with known specialty (excluding unknown specialty)										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	41,145	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	42,436	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	29,129	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	15,103	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	11,021	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	212,886	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	187,488	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	110,598	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	67,289	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	28,014	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	801,226	*****	*****
2018	168	440	10,438,880	2,926,279,555	8,011,716.8	1.61	2.10 (1.80, 2.44)	524,436	3,122	3
2019	186	377	11,377,856	3,152,023,843	8,629,771.0	1.63	2.16 (1.87, 2.49)	317,747	1,708	2
2020	178	331	12,185,875	3,539,539,771	9,690,731.7	1.46	1.84 (1.59, 2.13)	172,187	967	2
2021	184	358	12,977,688	3,891,829,344	10,655,248.0	1.42	1.73 (1.49, 2.00)	65,644	357	2
2022	*****	*****	778	198,242	542.8	*****	*****	693	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	7,619,353	*****	*****
2018	2,601	6,430	23,406,875	6,430,810,984	17,606,600.9	11.11	14.77 (14.22, 15.35)	7,430,183	2,857	2
2019	2,490	6,141	23,954,273	6,512,428,986	17,830,058.8	10.39	13.97 (13.43, 14.52)	5,790,184	2,325	2
2020	2,230	5,580	25,841,527	7,509,244,078	20,559,189.8	8.63	10.85 (10.41, 11.31)	3,594,994	1,612	3
2021	2,352	5,596	29,117,067	9,107,774,164	24,935,726.7	8.08	9.43 (9.06, 9.82)	1,992,985	847	2
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	741,915	*****	*****
2023	408	1,315	949,991	290,743,272	796,011.7	42.95	51.26 (46.52, 56.48)	235,298	577	3
<i>45-64 years</i>										
2017	4,247	9,948	13,458,217	3,975,364,568	10,883,955.0	31.56	39.02 (37.86, 40.21)	14,317,910	3,371	2
2018	4,054	10,333	13,509,655	4,039,393,304	11,059,256.1	30.01	36.66 (35.55, 37.80)	12,974,003	3,200	3
2019	3,819	8,977	13,386,267	3,978,394,006	10,892,249.2	28.53	35.06 (33.97, 36.19)	9,199,030	2,409	2
2020	3,287	7,506	13,613,992	4,120,692,291	11,281,840.6	24.14	29.14 (28.16, 30.15)	5,888,736	1,792	2
2021	3,033	6,787	13,965,802	4,380,354,937	11,992,758.2	21.72	25.29 (24.41, 26.21)	3,563,670	1,175	2
2022	1,543	3,645	2,863,873	868,062,132	2,376,624.6	53.88	64.92 (61.76, 68.25)	1,700,674	1,102	2
2023	1,318	3,272	2,505,856	750,858,952	2,055,739.8	52.60	64.11 (60.74, 67.67)	567,853	431	2
<i>≥ 65 years</i>										
2017	7,368	17,258	29,928,573	10,011,070,650	27,408,817.7	24.62	26.88 (26.27, 27.50)	28,290,043	3,840	2
2018	7,688	17,865	30,060,745	10,041,302,125	27,491,586.9	25.57	27.96 (27.35, 28.60)	26,127,991	3,399	2
2019	7,876	19,172	30,138,750	10,061,319,852	27,546,392.5	26.13	28.59 (27.97, 29.23)	24,243,913	3,078	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	7,305	18,181	29,840,211	9,993,247,475	27,360,020.5	24.48	26.70 (26.09, 27.32)	18,465,195	2,528	2
2021	7,589	18,083	29,010,396	9,683,612,233	26,512,285.4	26.16	28.62 (27.99, 29.28)	13,857,033	1,826	2
2022	7,532	17,560	27,589,641	9,236,544,426	25,288,280.4	27.30	29.78 (29.12, 30.46)	8,678,478	1,152	2
2023	7,428	17,346	26,858,019	9,014,847,893	24,681,308.4	27.66	30.10 (29.42, 30.79)	3,105,385	418	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	27,594	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	21,331	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	16,918	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	8,206	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	8,269	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	138,802	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	130,026	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	77,088	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	43,740	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	18,130	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	227,031	*****	*****
2018	93	168	10,438,880	2,926,279,555	8,011,716.8	0.89	1.16 (0.95, 1.42)	192,454	2,069	2
2019	111	207	11,377,856	3,152,023,843	8,629,771.0	0.98	1.29 (1.07, 1.55)	177,819	1,602	2
2020	107	180	12,185,875	3,539,539,771	9,690,731.7	0.88	1.10 (0.91, 1.33)	95,465	892	2
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	35,624	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	869	1,606	22,965,833	6,212,667,748	17,009,357.3	3.78	5.11 (4.78, 5.46)	2,013,914	2,318	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2018	908	1,626	23,406,875	6,430,810,984	17,606,600.9	3.88	5.16 (4.83, 5.50)	1,824,433	2,009	2
2019	985	1,784	23,954,273	6,512,428,986	17,830,058.8	4.11	5.52 (5.19, 5.88)	1,582,779	1,607	2
2020	995	1,743	25,841,527	7,509,244,078	20,559,189.8	3.85	4.84 (4.55, 5.15)	1,046,902	1,052	2
2021	1,089	1,888	29,117,067	9,107,774,164	24,935,726.7	3.74	4.37 (4.12, 4.63)	619,483	569	2
2022	183	397	1,055,987	327,918,361	897,791.5	17.33	20.38 (17.63, 23.56)	196,532	1,074	2
2023	154	359	949,991	290,743,272	796,011.7	16.21	19.35 (16.52, 22.66)	66,160	430	2
<i>45-64 years</i>										
2017	1,368	2,605	13,458,217	3,975,364,568	10,883,955.0	10.16	12.57 (11.92, 13.25)	3,808,950	2,784	2
2018	1,418	2,644	13,509,655	4,039,393,304	11,059,256.1	10.50	12.82 (12.17, 13.51)	3,308,186	2,333	2
2019	1,447	2,941	13,386,267	3,978,394,006	10,892,249.2	10.81	13.28 (12.62, 13.99)	2,836,753	1,960	2
2020	1,257	2,365	13,613,992	4,120,692,291	11,281,840.6	9.23	11.14 (10.54, 11.78)	1,832,880	1,458	2
2021	1,268	2,229	13,965,802	4,380,354,937	11,992,758.2	9.08	10.57 (10.01, 11.17)	1,061,826	837	2
2022	540	1,038	2,863,873	868,062,132	2,376,624.6	18.86	22.72 (20.88, 24.72)	507,854	940	2
2023	447	864	2,505,856	750,858,952	2,055,739.8	17.84	21.74 (19.82, 23.86)	155,958	349	2
<i>≥ 65 years</i>										
2017	2,889	5,421	29,928,573	10,011,070,650	27,408,817.7	9.65	10.54 (10.16, 10.93)	10,092,635	3,493	2
2018	3,071	5,762	30,060,745	10,041,302,125	27,491,586.9	10.22	11.17 (10.78, 11.57)	9,339,356	3,041	2
2019	3,239	6,249	30,138,750	10,061,319,852	27,546,392.5	10.75	11.76 (11.36, 12.17)	8,593,073	2,653	2
2020	3,073	5,941	29,840,211	9,993,247,475	27,360,020.5	10.30	11.23 (10.84, 11.64)	6,519,563	2,122	2
2021	3,293	6,415	29,010,396	9,683,612,233	26,512,285.4	11.35	12.42 (12.00, 12.85)	5,264,475	1,599	2
2022	3,263	6,171	27,589,641	9,236,544,426	25,288,280.4	11.83	12.90 (12.47, 13.35)	3,173,064	972	2
2023	3,290	6,403	26,858,019	9,014,847,893	24,681,308.4	12.25	13.33 (12.88, 13.79)	1,154,975	351	2

Patients with Systemic lupus erythematosus without manifestations of systemic lupus erythematosus or drug-induced systemic lupus erythematosus

<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	18,321	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	27,114	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	121,014	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	98,119	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	40,470	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	185,093	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	99,631	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	127,912	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	61,679	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	24,741	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	751,687	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	652,694	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	556,114	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	384,965	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	137,601	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****
<i>18-44 years</i>										
2017	5,898	22,540	22,965,833	6,212,667,748	17,009,357.3	25.68	34.68 (33.80, 35.57)	29,880,079	5,066	4
2018	5,931	21,968	23,406,875	6,430,810,984	17,606,600.9	25.34	33.69 (32.84, 34.55)	23,837,966	4,019	4
2019	6,080	24,155	23,954,273	6,512,428,986	17,830,058.8	25.38	34.10 (33.25, 34.97)	20,876,796	3,434	4
2020	5,822	23,433	25,841,527	7,509,244,078	20,559,189.8	22.53	28.32 (27.60, 29.06)	14,242,349	2,446	4
2021	5,556	22,739	29,117,067	9,107,774,164	24,935,726.7	19.08	22.28 (21.70, 22.87)	7,042,833	1,268	4
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	2,018,540	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	*****	*****	949,991	290,743,272	796,011.7	*****	*****	617,273	*****	*****
<i>45-64 years</i>										
2017	9,950	40,435	13,458,217	3,975,364,568	10,883,955.0	73.93	91.42 (89.64, 93.23)	56,892,073	5,718	4
2018	9,926	39,593	13,509,655	4,039,393,304	11,059,256.1	73.47	89.75 (88.00, 91.54)	47,420,540	4,777	4
2019	10,202	43,270	13,386,267	3,978,394,006	10,892,249.2	76.21	93.66 (91.86, 95.50)	41,904,957	4,108	4
2020	9,353	41,841	13,613,992	4,120,692,291	11,281,840.6	68.70	82.90 (81.24, 84.60)	29,819,086	3,188	4
2021	8,660	38,846	13,965,802	4,380,354,937	11,992,758.2	62.01	72.21 (70.71, 73.75)	17,769,953	2,052	4
2022	4,301	17,345	2,863,873	868,062,132	2,376,624.6	150.18	80.97 (175.64, 186.4)	8,038,396	1,869	4
2023	3,452	14,584	2,505,856	750,858,952	2,055,739.8	137.76	67.92 (162.41, 173.6)	2,577,441	747	4
<i>≥ 65 years</i>										
2017	12,508	44,892	29,928,573	10,011,070,650	27,408,817.7	41.79	45.63 (44.84, 46.44)	71,659,365	5,729	4
2018	13,011	47,590	30,060,745	10,041,302,125	27,491,586.9	43.28	47.33 (46.52, 48.15)	67,470,383	5,186	4
2019	14,466	54,623	30,138,750	10,061,319,852	27,546,392.5	48.00	52.52 (51.67, 53.38)	64,788,479	4,479	4
2020	13,987	54,141	29,840,211	9,993,247,475	27,360,020.5	46.87	51.12 (50.28, 51.98)	52,197,904	3,732	4
2021	14,206	55,063	29,010,396	9,683,612,233	26,512,285.4	48.97	53.58 (52.71, 54.47)	40,842,438	2,875	4
2022	13,834	53,650	27,589,641	9,236,544,426	25,288,280.4	50.14	54.71 (53.80, 55.62)	25,735,827	1,860	4
2023	13,100	52,746	26,858,019	9,014,847,893	24,681,308.4	48.78	53.08 (52.18, 53.99)	9,181,805	701	4
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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	17,000	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	24,171	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	119,161	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	97,452	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	40,237	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	179,966	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	97,025	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	123,836	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	59,817	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	24,322	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	177	528	10,061,718	2,781,680,667	7,615,826.6	1.76	2.32 (2.01, 2.69)	691,964	3,909	3
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	628,062	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	520,089	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	368,944	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	130,138	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****
<i>18-44 years</i>										
2017	5,717	21,330	22,965,833	6,212,667,748	17,009,357.3	24.89	33.61 (32.75, 34.49)	28,470,563	4,980	4
2018	*****	*****	23,406,875	6,430,810,984	17,606,600.9	*****	*****	22,831,389	*****	*****
2019	5,949	21,882	23,954,273	6,512,428,986	17,830,058.8	24.83	33.37 (32.53, 34.22)	19,060,327	3,204	4
2020	5,690	20,455	25,841,527	7,509,244,078	20,559,189.8	22.02	27.68 (26.97, 28.40)	12,711,423	2,234	4
2021	5,455	19,717	29,117,067	9,107,774,164	24,935,726.7	18.73	21.88 (21.30, 22.46)	6,504,060	1,192	4
2022	959	4,232	1,055,987	327,918,361	897,791.5	90.82	06.82 (100.27, 113.80)	2,018,540	2,105	4
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	617,273	*****	*****
<i>45-64 years</i>										
2017	9,804	38,662	13,458,217	3,975,364,568	10,883,955.0	72.85	90.08 (88.31, 91.88)	54,574,630	5,567	4
2018	9,805	37,632	13,509,655	4,039,393,304	11,059,256.1	72.58	88.66 (86.92, 90.43)	45,179,528	4,608	4

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2019	10,059	39,633	13,386,267	3,978,394,006	10,892,249.2	75.14	92.35 (90.56, 94.17)	39,070,748	3,884	4
2020	9,235	35,862	13,613,992	4,120,692,291	11,281,840.6	67.83	81.86 (80.20, 83.54)	26,942,902	2,917	4
2021	8,565	33,964	13,965,802	4,380,354,937	11,992,758.2	61.33	71.42 (69.92, 72.95)	16,889,178	1,972	4
2022	4,301	17,343	2,863,873	868,062,132	2,376,624.6	150.18	80.97 (175.64, 186.46)	8,038,331	1,869	4
2023	3,452	14,583	2,505,856	750,858,952	2,055,739.8	137.76	67.92 (162.41, 173.62)	2,577,094	747	4
<i>≥ 65 years</i>										
2017	12,501	44,841	29,928,573	10,011,070,650	27,408,817.7	41.77	45.61 (44.82, 46.42)	71,643,423	5,731	4
2018	13,005	47,565	30,060,745	10,041,302,125	27,491,586.9	43.26	47.31 (46.50, 48.13)	67,444,452	5,186	4
2019	14,459	54,609	30,138,750	10,061,319,852	27,546,392.5	47.97	52.49 (51.64, 53.35)	64,777,847	4,480	4
2020	13,980	53,990	29,840,211	9,993,247,475	27,360,020.5	46.85	51.10 (50.26, 51.95)	52,134,236	3,729	4
2021	14,202	54,859	29,010,396	9,683,612,233	26,512,285.4	48.95	53.57 (52.69, 54.46)	40,787,904	2,872	4
2022	13,829	53,642	27,589,641	9,236,544,426	25,288,280.4	50.12	54.69 (53.78, 55.60)	25,731,210	1,861	4
2023	13,099	52,740	26,858,019	9,014,847,893	24,681,308.4	48.77	53.07 (52.17, 53.99)	9,181,426	701	4
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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	13,581	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	22,966	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	24,245	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	7,380	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	5,424	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	160,388	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	86,231	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	91,852	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	45,353	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	20,868	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	583,938	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	527,463	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	393,158	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	250,932	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	101,915	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	*****	*****	687	184,069	504.0	*****	*****	168	*****	*****
<i>18-44 years</i>										
2017	5,151	16,961	22,965,833	6,212,667,748	17,009,357.3	22.43	30.28 (29.47, 31.12)	22,827,380	4,432	3
2018	5,207	16,804	23,406,875	6,430,810,984	17,606,600.9	22.25	29.57 (28.78, 30.39)	18,506,369	3,554	3
2019	5,367	17,770	23,954,273	6,512,428,986	17,830,058.8	22.41	30.10 (29.31, 30.92)	15,780,749	2,940	3
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	10,731,353	*****	*****
2021	4,928	15,924	29,117,067	9,107,774,164	24,935,726.7	16.92	19.76 (19.22, 20.32)	5,693,958	1,155	3
2022	933	3,994	1,055,987	327,918,361	897,791.5	88.35	103.92 (97.46, 110.81)	1,906,386	2,043	4
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	585,326	*****	*****
<i>45-64 years</i>										
2017	9,068	32,728	13,458,217	3,975,364,568	10,883,955.0	67.38	83.32 (81.62, 85.05)	46,796,273	5,161	4
2018	9,049	31,075	13,509,655	4,039,393,304	11,059,256.1	66.98	81.82 (80.15, 83.53)	38,062,618	4,206	3
2019	9,312	32,137	13,386,267	3,978,394,006	10,892,249.2	69.56	85.49 (83.77, 87.25)	32,816,238	3,524	3
2020	8,555	29,749	13,613,992	4,120,692,291	11,281,840.6	62.84	75.83 (74.24, 77.45)	23,373,663	2,732	3
2021	7,936	27,883	13,965,802	4,380,354,937	11,992,758.2	56.82	66.17 (64.73, 67.65)	15,124,961	1,906	4
2022	4,149	16,253	2,863,873	868,062,132	2,376,624.6	144.87	74.58 (169.34, 179.9)	7,504,151	1,809	4

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	3,356	13,687	2,505,856	750,858,952	2,055,739.8	133.93	63.25 (157.82, 168.8)	2,417,266	720	4
<i>≥ 65 years</i>										
2017	11,850	40,774	29,928,573	10,011,070,650	27,408,817.7	39.59	43.23 (42.46, 44.02)	64,792,076	5,468	3
2018	12,307	43,604	30,060,745	10,041,302,125	27,491,586.9	40.94	44.77 (43.98, 45.56)	61,248,565	4,977	4
2019	13,738	50,260	30,138,750	10,061,319,852	27,546,392.5	45.58	49.87 (49.05, 50.71)	59,340,178	4,319	4
2020	13,363	50,007	29,840,211	9,993,247,475	27,360,020.5	44.78	48.84 (48.02, 49.68)	48,017,900	3,593	4
2021	13,608	50,731	29,010,396	9,683,612,233	26,512,285.4	46.91	51.33 (50.47, 52.20)	37,566,686	2,761	4
2022	13,226	49,744	27,589,641	9,236,544,426	25,288,280.4	47.94	52.30 (51.42, 53.20)	23,752,341	1,796	4
2023	12,515	48,886	26,858,019	9,014,847,893	24,681,308.4	46.60	50.71 (49.83, 51.60)	8,498,649	679	4
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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	2,961	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	3,413	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	9,466	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	3,039	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	1,034	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	110,497	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	56,577	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	45,968	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	26,805	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	8,711	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	268,529	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	285,512	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	191,295	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	122,342	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	45,720	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	2,094	4,978	22,965,833	6,212,667,748	17,009,357.3	9.12	12.31 (11.79, 12.85)	6,736,534	3,217	2
2018	2,012	4,947	23,406,875	6,430,810,984	17,606,600.9	8.60	11.43 (10.94, 11.94)	5,507,515	2,737	2
2019	2,078	4,971	23,954,273	6,512,428,986	17,830,058.8	8.67	11.65 (11.16, 12.17)	4,364,770	2,100	2
2020	2,049	5,075	25,841,527	7,509,244,078	20,559,189.8	7.93	9.97 (9.54, 10.41)	3,106,798	1,516	2
2021	1,951	4,956	29,117,067	9,107,774,164	24,935,726.7	6.70	7.82 (7.48, 8.18)	1,567,912	804	3
2022	290	773	1,055,987	327,918,361	897,791.5	27.46	32.30 (28.79, 36.24)	377,976	1,303	3
2023	218	599	949,991	290,743,272	796,011.7	22.95	27.39 (23.98, 31.27)	112,351	515	3
<i>45-64 years</i>										
2017	3,154	7,267	13,458,217	3,975,364,568	10,883,955.0	23.44	28.98 (27.98, 30.01)	10,613,731	3,365	2
2018	2,896	6,874	13,509,655	4,039,393,304	11,059,256.1	21.44	26.19 (25.25, 27.16)	8,789,024	3,035	2
2019	2,911	7,010	13,386,267	3,978,394,006	10,892,249.2	21.75	26.73 (25.77, 27.71)	7,278,109	2,500	2
2020	2,816	6,762	13,613,992	4,120,692,291	11,281,840.6	20.68	24.96 (24.06, 25.90)	5,292,440	1,879	2
2021	2,524	6,409	13,965,802	4,380,354,937	11,992,758.2	18.07	21.05 (20.24, 21.88)	3,187,207	1,263	3
2022	1,108	3,112	2,863,873	868,062,132	2,376,624.6	38.69	46.62 (43.95, 49.45)	1,517,920	1,370	3
2023	952	2,780	2,505,856	750,858,952	2,055,739.8	37.99	46.31 (43.46, 49.35)	505,464	531	3
<i>≥ 65 years</i>										
2017	3,972	9,669	29,928,573	10,011,070,650	27,408,817.7	13.27	14.49 (14.05, 14.95)	17,520,385	4,411	2
2018	3,916	9,779	30,060,745	10,041,302,125	27,491,586.9	13.03	14.24 (13.81, 14.70)	15,684,105	4,005	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2019	4,177	10,690	30,138,750	10,061,319,852	27,546,392.5	13.86	15.16 (14.71, 15.63)	14,540,125	3,481	3
2020	4,006	10,332	29,840,211	9,993,247,475	27,360,020.5	13.42	14.64 (14.20, 15.10)	11,258,945	2,811	3
2021	3,945	10,240	29,010,396	9,683,612,233	26,512,285.4	13.60	14.88 (14.42, 15.35)	8,338,265	2,114	3
2022	3,655	9,579	27,589,641	9,236,544,426	25,288,280.4	13.25	14.45 (13.99, 14.93)	4,961,896	1,358	3
2023	3,418	9,264	26,858,019	9,014,847,893	24,681,308.4	12.73	13.85 (13.39, 14.32)	1,672,183	489	3
Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	29,109	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	22,308	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	15,256	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	2,817	*****	*****
2021	0	0	12,917,120	3,833,342,703	10,495,120.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	237,552	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	212,750	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	143,656	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	39,110	*****	*****
2021	0	0	13,428,807	4,023,008,657	11,014,397.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	326	653	10,061,718	2,781,680,667	7,615,826.6	3.24	4.28 (3.84, 4.77)	896,963	2,751	2
2018	454	1,000	10,438,880	2,926,279,555	8,011,716.8	4.35	5.67 (5.17, 6.21)	1,142,769	2,517	2
2019	338	933	11,377,856	3,152,023,843	8,629,771.0	2.97	3.92 (3.52, 4.36)	818,770	2,422	3
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	256,326	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	1,004	*****	*****
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	7,951	24,612	22,965,833	6,212,667,748	17,009,357.3	34.62	46.74 (45.73, 47.78)	36,614,063	4,605	3
2018	10,349	32,462	23,406,875	6,430,810,984	17,606,600.9	44.21	58.78 (57.66, 59.92)	41,117,452	3,973	3
2019	7,591	21,608	23,954,273	6,512,428,986	17,830,058.8	31.69	42.57 (41.63, 43.54)	23,003,790	3,030	3
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	9,900,322	*****	*****
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	3,898,582	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	1,514,776	*****	*****
2023	0	0	949,991	290,743,272	796,011.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	11,582	36,999	13,458,217	3,975,364,568	10,883,955.0	86.06	06.41 (104.49, 108.3)	59,410,619	5,130	3
2018	14,443	45,303	13,509,655	4,039,393,304	11,059,256.1	106.91	30.60 (128.48, 132.7)	63,811,483	4,418	3
2019	10,797	33,368	13,386,267	3,978,394,006	10,892,249.2	80.66	99.13 (97.27, 101.01)	39,704,367	3,677	3
2020	6,881	20,822	13,613,992	4,120,692,291	11,281,840.6	50.54	60.99 (59.57, 62.45)	20,696,698	3,008	3
2021	4,420	12,859	13,965,802	4,380,354,937	11,992,758.2	31.65	36.86 (35.78, 37.96)	11,004,366	2,490	3
2022	2,824	7,497	2,863,873	868,062,132	2,376,624.6	98.61	18.82 (114.52, 123.2)	4,258,206	1,508	3
2023	0	0	2,505,856	750,858,952	2,055,739.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	14,681	35,399	29,928,573	10,011,070,650	27,408,817.7	49.05	53.56 (52.70, 54.44)	68,102,961	4,639	2
2018	18,167	46,920	30,060,745	10,041,302,125	27,491,586.9	60.43	66.08 (65.13, 67.05)	78,475,574	4,320	3
2019	15,544	39,773	30,138,750	10,061,319,852	27,546,392.5	51.57	56.43 (55.55, 57.32)	57,418,091	3,694	3
2020	11,817	30,284	29,840,211	9,993,247,475	27,360,020.5	39.60	43.19 (42.42, 43.98)	35,529,444	3,007	3
2021	10,538	27,362	29,010,396	9,683,612,233	26,512,285.4	36.32	39.75 (39.00, 40.51)	23,951,392	2,273	3
2022	7,335	16,672	27,589,641	9,236,544,426	25,288,280.4	26.59	29.01 (28.35, 29.68)	9,609,842	1,310	2
2023	0	0	26,858,019	9,014,847,893	24,681,308.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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 any known provider										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	25,879	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	18,482	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	15,256	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	2,817	*****	*****
2021	0	0	12,917,120	3,833,342,703	10,495,120.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	234,326	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	202,101	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	135,049	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	38,610	*****	*****
2021	0	0	13,428,807	4,023,008,657	11,014,397.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	839,837	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	1,102,465	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	755,063	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	241,050	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	1,004	*****	*****
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	7,729	21,310	22,965,833	6,212,667,748	17,009,357.3	33.65	45.44 (44.44, 46.46)	32,054,937	4,147	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2018	10,119	29,571	23,406,875	6,430,810,984	17,606,600.9	43.23	57.47 (56.36, 58.60)	37,772,997	3,733	3
2019	7,445	19,865	23,954,273	6,512,428,986	17,830,058.8	31.08	41.76 (40.82, 42.71)	21,444,836	2,880	3
2020	4,040	10,590	25,841,527	7,509,244,078	20,559,189.8	15.63	19.65 (19.05, 20.27)	9,115,579	2,256	3
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	3,897,405	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	1,514,776	*****	*****
2023	0	0	949,991	290,743,272	796,011.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	11,454	33,069	13,458,217	3,975,364,568	10,883,955.0	85.11	05.24 (103.33, 107.18)	53,869,583	4,703	3
2018	14,316	41,380	13,509,655	4,039,393,304	11,059,256.1	105.97	29.45 (127.34, 131.59)	59,532,801	4,158	3
2019	10,703	30,427	13,386,267	3,978,394,006	10,892,249.2	79.96	98.26 (96.42, 100.14)	37,277,625	3,483	3
2020	6,827	19,227	13,613,992	4,120,692,291	11,281,840.6	50.15	60.51 (59.09, 61.97)	19,770,163	2,896	3
2021	4,419	12,856	13,965,802	4,380,354,937	11,992,758.2	31.64	36.85 (35.78, 37.95)	11,001,693	2,490	3
2022	2,824	7,497	2,863,873	868,062,132	2,376,624.6	98.61	18.82 (114.52, 123.29)	4,258,206	1,508	3
2023	0	0	2,505,856	750,858,952	2,055,739.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	14,679	35,282	29,928,573	10,011,070,650	27,408,817.7	49.05	53.56 (52.70, 54.43)	67,901,503	4,626	2
2018	18,165	46,908	30,060,745	10,041,302,125	27,491,586.9	60.43	66.07 (65.12, 67.04)	78,458,970	4,319	3
2019	15,535	39,759	30,138,750	10,061,319,852	27,546,392.5	51.54	56.40 (55.52, 57.29)	57,403,279	3,695	3
2020	11,811	30,274	29,840,211	9,993,247,475	27,360,020.5	39.58	43.17 (42.40, 43.95)	35,518,751	3,007	3
2021	10,535	27,352	29,010,396	9,683,612,233	26,512,285.4	36.31	39.74 (38.98, 40.50)	23,943,287	2,273	3
2022	7,333	16,670	27,589,641	9,236,544,426	25,288,280.4	26.58	29.00 (28.34, 29.67)	9,608,626	1,310	2
2023	0	0	26,858,019	9,014,847,893	24,681,308.4	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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	24,331	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	17,025	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	12,477	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	2,154	*****	*****
2021	0	0	12,917,120	3,833,342,703	10,495,120.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	201,984	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	169,181	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	116,564	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	33,243	*****	*****
2021	0	0	13,428,807	4,023,008,657	11,014,397.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	276	501	10,061,718	2,781,680,667	7,615,826.6	2.74	3.62 (3.22, 4.08)	673,538	2,440	2
2018	384	781	10,438,880	2,926,279,555	8,011,716.8	3.68	4.79 (4.34, 5.30)	886,728	2,309	2
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	630,614	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	186,594	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	1,004	*****	*****
2022	*****	*****	778	198,242	542.8	*****	*****	2,377	*****	*****
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	6,907	16,434	22,965,833	6,212,667,748	17,009,357.3	30.08	40.61 (39.66, 41.58)	25,218,137	3,651	2
2018	9,207	24,510	23,406,875	6,430,810,984	17,606,600.9	39.33	52.29 (51.24, 53.37)	31,969,951	3,472	3
2019	6,705	16,962	23,954,273	6,512,428,986	17,830,058.8	27.99	37.61 (36.72, 38.52)	18,709,449	2,790	3
2020	3,656	9,024	25,841,527	7,509,244,078	20,559,189.8	14.15	17.78 (17.22, 18.37)	7,999,605	2,188	2
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	3,644,459	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	1,412,893	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	0	0	949,991	290,743,272	796,011.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	10,478	26,070	13,458,217	3,975,364,568	10,883,955.0	77.86	96.27 (94.44, 98.13)	43,554,219	4,157	2
2018	13,305	34,980	13,509,655	4,039,393,304	11,059,256.1	98.49	20.31 (118.28, 122.37)	51,291,115	3,855	3
2019	9,897	25,837	13,386,267	3,978,394,006	10,892,249.2	73.93	90.86 (89.09, 92.67)	32,532,103	3,287	3
2020	6,349	16,937	13,613,992	4,120,692,291	11,281,840.6	46.64	56.28 (54.91, 57.68)	17,825,753	2,808	3
2021	4,204	12,078	13,965,802	4,380,354,937	11,992,758.2	30.10	35.05 (34.01, 36.13)	10,321,158	2,455	3
2022	2,681	6,944	2,863,873	868,062,132	2,376,624.6	93.61	12.81 (108.62, 117.16)	3,946,994	1,472	3
2023	0	0	2,505,856	750,858,952	2,055,739.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	13,756	32,051	29,928,573	10,011,070,650	27,408,817.7	45.96	50.19 (49.36, 51.03)	61,675,248	4,484	2
2018	17,217	43,265	30,060,745	10,041,302,125	27,491,586.9	57.27	62.63 (61.70, 63.57)	72,188,797	4,193	3
2019	14,700	36,432	30,138,750	10,061,319,852	27,546,392.5	48.77	53.36 (52.51, 54.23)	52,617,122	3,579	2
2020	11,179	27,754	29,840,211	9,993,247,475	27,360,020.5	37.46	40.86 (40.11, 41.62)	32,548,066	2,912	2
2021	10,007	25,197	29,010,396	9,683,612,233	26,512,285.4	34.49	37.74 (37.01, 38.49)	22,018,331	2,200	3
2022	6,928	15,300	27,589,641	9,236,544,426	25,288,280.4	25.11	27.40 (26.76, 28.05)	8,816,249	1,273	2
2023	0	0	26,858,019	9,014,847,893	24,681,308.4	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										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	11,608	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	4,050	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	2,887	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	631	*****	*****
2021	0	0	12,917,120	3,833,342,703	10,495,120.3	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	83,593	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	49,177	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	37,782	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	6,899	*****	*****
2021	0	0	13,428,807	4,023,008,657	11,014,397.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	256,115	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	307,660	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	198,691	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	72,302	*****	*****
2021	0	0	12,977,688	3,891,829,344	10,655,248.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	1,911	3,693	22,965,833	6,212,667,748	17,009,357.3	8.32	11.23 (10.74, 11.75)	5,504,581	2,880	2
2018	2,487	5,172	23,406,875	6,430,810,984	17,606,600.9	10.63	14.13 (13.58, 14.69)	6,619,219	2,662	2
2019	2,002	4,182	23,954,273	6,512,428,986	17,830,058.8	8.36	11.23 (10.75, 11.73)	4,376,409	2,186	2
2020	1,091	2,160	25,841,527	7,509,244,078	20,559,189.8	4.22	5.31 (5.00, 5.63)	1,776,134	1,628	2
2021	349	808	29,117,067	9,107,774,164	24,935,726.7	1.20	1.40 (1.26, 1.55)	693,167	1,986	2
2022	225	498	1,055,987	327,918,361	897,791.5	21.31	25.06 (21.99, 28.56)	282,196	1,254	2
2023	0	0	949,991	290,743,272	796,011.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>45-64 years</i>										
2017	2,708	5,573	13,458,217	3,975,364,568	10,883,955.0	20.12	24.88 (23.96, 25.84)	9,234,064	3,410	2
2018	3,111	6,520	13,509,655	4,039,393,304	11,059,256.1	23.03	28.13 (27.16, 29.14)	9,504,839	3,055	2
2019	2,501	5,288	13,386,267	3,978,394,006	10,892,249.2	18.68	22.96 (22.08, 23.88)	6,504,715	2,601	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2020	1,631	3,441	13,613,992	4,120,692,291	11,281,840.6	11.98	14.46 (13.77, 15.18)	3,485,879	2,137	2
2021	947	2,056	13,965,802	4,380,354,937	11,992,758.2	6.78	7.90 (7.41, 8.42)	1,772,635	1,872	2
2022	601	1,192	2,863,873	868,062,132	2,376,624.6	20.99	25.29 (23.34, 27.39)	683,384	1,137	2
2023	0	0	2,505,856	750,858,952	2,055,739.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>≥ 65 years</i>										
2017	3,792	7,751	29,928,573	10,011,070,650	27,408,817.7	12.67	13.83 (13.40, 14.28)	15,696,188	4,139	2
2018	4,255	8,985	30,060,745	10,041,302,125	27,491,586.9	14.15	15.48 (15.02, 15.95)	15,874,783	3,731	2
2019	3,844	8,274	30,138,750	10,061,319,852	27,546,392.5	12.75	13.95 (13.52, 14.40)	12,361,239	3,216	2
2020	2,967	6,360	29,840,211	9,993,247,475	27,360,020.5	9.94	10.84 (10.46, 11.24)	7,674,339	2,587	2
2021	2,576	5,589	29,010,396	9,683,612,233	26,512,285.4	8.88	9.72 (9.35, 10.10)	4,966,676	1,928	2
2022	1,752	3,284	27,589,641	9,236,544,426	25,288,280.4	6.35	6.93 (6.61, 7.26)	1,912,738	1,092	2
2023	0	0	26,858,019	9,014,847,893	24,681,308.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
Patients with Mixed cutaneous lupus erythematosus										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	94,730	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	88,304	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	30,943	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	10,932	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	5,184	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	355,295	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	239,985	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	156,822	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	59,714	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	20,435	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	159	425	10,061,718	2,781,680,667	7,615,826.6	1.58	2.09 (1.79, 2.44)	579,817	3,647	3
2018	163	489	10,438,880	2,926,279,555	8,011,716.8	1.56	2.03 (1.74, 2.37)	550,795	3,379	3
2019	142	422	11,377,856	3,152,023,843	8,629,771.0	1.25	1.65 (1.40, 1.94)	364,601	2,568	3
2020	105	333	12,185,875	3,539,539,771	9,690,731.7	0.86	1.08 (0.89, 1.31)	179,945	1,714	3
2021	77	226	12,977,688	3,891,829,344	10,655,248.0	0.59	0.72 (0.58, 0.90)	50,049	650	3
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	3,193	13,376	22,965,833	6,212,667,748	17,009,357.3	13.90	18.77 (18.13, 19.43)	19,520,311	6,113	4
2018	3,219	13,359	23,406,875	6,430,810,984	17,606,600.9	13.75	18.28 (17.66, 18.93)	16,733,715	5,198	4
2019	2,345	8,866	23,954,273	6,512,428,986	17,830,058.8	9.79	13.15 (12.63, 13.70)	8,945,445	3,815	4
2020	1,682	5,976	25,841,527	7,509,244,078	20,559,189.8	6.51	8.18 (7.80, 8.58)	4,338,425	2,579	4
2021	1,170	3,960	29,117,067	9,107,774,164	24,935,726.7	4.02	4.69 (4.43, 4.97)	1,925,315	1,646	3
2022	297	1,166	1,055,987	327,918,361	897,791.5	28.13	33.08 (29.52, 37.07)	587,655	1,979	4
2023	154	595	949,991	290,743,272	796,011.7	16.21	19.35 (16.52, 22.66)	125,161	813	4
<i>45-64 years</i>										
2017	5,100	21,889	13,458,217	3,975,364,568	10,883,955.0	37.90	46.86 (45.59, 48.16)	33,540,534	6,577	4
2018	4,817	20,565	13,509,655	4,039,393,304	11,059,256.1	35.66	43.56 (42.34, 44.80)	27,613,520	5,733	4
2019	3,661	14,474	13,386,267	3,978,394,006	10,892,249.2	27.35	33.61 (32.54, 34.72)	16,053,969	4,385	4
2020	2,639	10,231	13,613,992	4,120,692,291	11,281,840.6	19.38	23.39 (22.52, 24.30)	8,674,123	3,287	4
2021	1,981	7,282	13,965,802	4,380,354,937	11,992,758.2	14.18	16.52 (15.81, 17.26)	4,496,185	2,270	4
2022	997	3,631	2,863,873	868,062,132	2,376,624.6	34.81	41.95 (39.43, 44.64)	1,844,732	1,850	4
2023	548	1,935	2,505,856	750,858,952	2,055,739.8	21.87	26.66 (24.52, 28.99)	415,909	759	4
<i>≥ 65 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	9,594	32,014	29,928,573	10,011,070,650	27,408,817.7	32.06	35.00 (34.31, 35.71)	59,864,892	6,240	3
2018	9,564	33,204	30,060,745	10,041,302,125	27,491,586.9	31.82	34.79 (34.10, 35.49)	54,078,984	5,654	3
2019	8,671	30,096	30,138,750	10,061,319,852	27,546,392.5	28.77	31.48 (30.82, 32.15)	42,038,863	4,848	3
2020	7,374	25,955	29,840,211	9,993,247,475	27,360,020.5	24.71	26.95 (26.34, 27.57)	29,093,245	3,945	4
2021	6,839	24,639	29,010,396	9,683,612,233	26,512,285.4	23.57	25.80 (25.19, 26.41)	20,452,837	2,991	4
2022	5,649	20,198	27,589,641	9,236,544,426	25,288,280.4	20.48	22.34 (21.76, 22.93)	10,594,630	1,875	4
2023	3,717	11,970	26,858,019	9,014,847,893	24,681,308.4	13.84	15.06 (14.58, 15.55)	2,570,318	692	3
Patients with Mixed cutaneous lupus erythematosus coded by any known provider										
<i>0-5 years</i>										
2017	****	****	11,591,850	3,161,339,455	8,655,275.7	****	****	87,973	****	****
2018	****	****	11,545,778	3,208,807,913	8,785,237.3	****	****	84,947	****	****
2019	****	****	12,328,395	3,357,506,357	9,192,351.4	****	****	29,926	****	****
2020	****	****	12,398,155	3,583,227,924	9,810,343.4	****	****	10,430	****	****
2021	****	****	12,917,120	3,833,342,703	10,495,120.3	****	****	5,184	****	****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	****	****	11,690,200	3,268,779,923	8,949,431.7	****	****	351,810	****	****
2018	****	****	11,794,163	3,342,692,196	9,151,792.5	****	****	233,204	****	****
2019	****	****	12,506,952	3,475,105,501	9,514,320.3	****	****	151,571	****	****
2020	****	****	12,966,641	3,752,829,156	10,274,686.3	****	****	57,562	****	****
2021	****	****	13,428,807	4,023,008,657	11,014,397.4	****	****	20,136	****	****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	156	404	10,061,718	2,781,680,667	7,615,826.6	1.55	2.05 (1.75, 2.40)	549,617	3,523	3
2018	159	468	10,438,880	2,926,279,555	8,011,716.8	1.52	1.98 (1.70, 2.32)	531,537	3,343	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2019	142	413	11,377,856	3,152,023,843	8,629,771.0	1.25	1.65 (1.40, 1.94)	356,772	2,512	3
2020	101	321	12,185,875	3,539,539,771	9,690,731.7	0.83	1.04 (0.86, 1.27)	174,168	1,724	3
2021	75	219	12,977,688	3,891,829,344	10,655,248.0	0.58	0.70 (0.56, 0.88)	48,542	647	3
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	3,107	12,151	22,965,833	6,212,667,748	17,009,357.3	13.53	18.27 (17.64, 18.92)	17,995,526	5,792	4
2018	3,163	12,417	23,406,875	6,430,810,984	17,606,600.9	13.51	17.96 (17.35, 18.60)	15,780,179	4,989	4
2019	2,309	8,586	23,954,273	6,512,428,986	17,830,058.8	9.64	12.95 (12.43, 13.49)	8,728,778	3,780	4
2020	1,647	5,548	25,841,527	7,509,244,078	20,559,189.8	6.37	8.01 (7.63, 8.41)	4,098,851	2,489	3
2021	1,156	3,868	29,117,067	9,107,774,164	24,935,726.7	3.97	4.64 (4.38, 4.91)	1,904,734	1,648	3
2022	296	1,165	1,055,987	327,918,361	897,791.5	28.03	32.97 (29.42, 36.95)	587,479	1,985	4
2023	154	595	949,991	290,743,272	796,011.7	16.21	19.35 (16.52, 22.66)	125,161	813	4
<i>45-64 years</i>										
2017	5,041	18,528	13,458,217	3,975,364,568	10,883,955.0	37.46	46.32 (45.05, 47.61)	28,671,913	5,688	4
2018	4,773	18,001	13,509,655	4,039,393,304	11,059,256.1	35.33	43.16 (41.95, 44.40)	24,537,149	5,141	4
2019	3,628	12,946	13,386,267	3,978,394,006	10,892,249.2	27.10	33.31 (32.24, 34.41)	14,786,225	4,076	4
2020	2,618	8,925	13,613,992	4,120,692,291	11,281,840.6	19.23	23.21 (22.33, 24.11)	8,021,008	3,064	3
2021	1,973	6,709	13,965,802	4,380,354,937	11,992,758.2	14.13	16.45 (15.74, 17.19)	4,361,285	2,210	3
2022	997	3,631	2,863,873	868,062,132	2,376,624.6	34.81	41.95 (39.43, 44.64)	1,844,732	1,850	4
2023	548	1,935	2,505,856	750,858,952	2,055,739.8	21.87	26.66 (24.52, 28.99)	415,909	759	4
<i>≥ 65 years</i>										
2017	9,593	31,795	29,928,573	10,011,070,650	27,408,817.7	32.05	35.00 (34.31, 35.71)	59,520,957	6,205	3
2018	9,563	32,908	30,060,745	10,041,302,125	27,491,586.9	31.81	34.79 (34.09, 35.49)	53,695,536	5,615	3
2019	8,670	29,857	30,138,750	10,061,319,852	27,546,392.5	28.77	31.47 (30.82, 32.14)	41,813,657	4,823	3
2020	7,373	25,954	29,840,211	9,993,247,475	27,360,020.5	24.71	26.95 (26.34, 27.57)	29,091,841	3,946	4
2021	6,838	24,636	29,010,396	9,683,612,233	26,512,285.4	23.57	25.79 (25.19, 26.41)	20,449,892	2,991	4

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	5,648	20,197	27,589,641	9,236,544,426	25,288,280.4	20.47	22.33 (21.76, 22.92)	10,594,187	1,876	4
2023	3,716	11,969	26,858,019	9,014,847,893	24,681,308.4	13.84	15.06 (14.58, 15.55)	2,570,012	692	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	71,546	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	40,548	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	22,645	*****	*****
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	8,212	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	4,204	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	294,738	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	195,868	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	119,863	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	47,029	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	18,060	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	141	351	10,061,718	2,781,680,667	7,615,826.6	1.40	1.85 (1.57, 2.18)	480,266	3,406	2
2018	143	383	10,438,880	2,926,279,555	8,011,716.8	1.37	1.78 (1.52, 2.10)	432,319	3,023	3
2019	132	352	11,377,856	3,152,023,843	8,629,771.0	1.16	1.53 (1.29, 1.81)	304,330	2,306	3
2020	89	240	12,185,875	3,539,539,771	9,690,731.7	0.73	0.92 (0.75, 1.13)	131,104	1,473	3
2021	67	145	12,977,688	3,891,829,344	10,655,248.0	0.52	0.63 (0.49, 0.80)	33,117	494	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	2,802	9,365	22,965,833	6,212,667,748	17,009,357.3	12.20	16.47 (15.87, 17.09)	13,883,707	4,955	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2018	2,887	10,355	23,406,875	6,430,810,984	17,606,600.9	12.33	16.40 (15.81, 17.01)	13,298,975	4,607	4
2019	2,117	7,252	23,954,273	6,512,428,986	17,830,058.8	8.84	11.87 (11.38, 12.39)	7,541,199	3,562	3
2020	1,528	4,897	25,841,527	7,509,244,078	20,559,189.8	5.91	7.43 (7.07, 7.81)	3,703,181	2,424	3
2021	1,072	3,460	29,117,067	9,107,774,164	24,935,726.7	3.68	4.30 (4.05, 4.56)	1,755,198	1,637	3
2022	283	1,081	1,055,987	327,918,361	897,791.5	26.80	31.52 (28.06, 35.42)	545,716	1,928	4
2023	151	563	949,991	290,743,272	796,011.7	15.89	18.97 (16.17, 22.25)	117,126	776	4
<i>45-64 years</i>										
2017	4,664	14,754	13,458,217	3,975,364,568	10,883,955.0	34.66	42.85 (41.64, 44.10)	23,720,572	5,086	3
2018	4,444	15,066	13,509,655	4,039,393,304	11,059,256.1	32.89	40.18 (39.02, 41.38)	20,999,356	4,725	3
2019	3,418	11,169	13,386,267	3,978,394,006	10,892,249.2	25.53	31.38 (30.35, 32.45)	13,014,015	3,807	3
2020	2,466	7,908	13,613,992	4,120,692,291	11,281,840.6	18.11	21.86 (21.01, 22.74)	7,231,302	2,932	3
2021	1,851	6,021	13,965,802	4,380,354,937	11,992,758.2	13.25	15.43 (14.75, 16.15)	4,008,350	2,166	3
2022	966	3,368	2,863,873	868,062,132	2,376,624.6	33.73	40.65 (38.16, 43.29)	1,710,392	1,771	3
2023	524	1,794	2,505,856	750,858,952	2,055,739.8	20.91	25.49 (23.40, 27.77)	385,336	735	3
<i>≥ 65 years</i>										
2017	9,033	28,575	29,928,573	10,011,070,650	27,408,817.7	30.18	32.96 (32.28, 33.64)	53,409,001	5,913	3
2018	9,082	30,014	30,060,745	10,041,302,125	27,491,586.9	30.21	33.04 (32.36, 33.72)	48,830,593	5,377	3
2019	8,274	27,295	30,138,750	10,061,319,852	27,546,392.5	27.45	30.04 (29.40, 30.69)	38,129,071	4,608	3
2020	7,075	23,795	29,840,211	9,993,247,475	27,360,020.5	23.71	25.86 (25.26, 26.47)	26,660,268	3,768	3
2021	6,582	22,614	29,010,396	9,683,612,233	26,512,285.4	22.69	24.83 (24.23, 25.43)	18,735,157	2,846	3
2022	5,437	18,459	27,589,641	9,236,544,426	25,288,280.4	19.71	21.50 (20.94, 22.08)	9,691,262	1,782	3
2023	3,576	10,887	26,858,019	9,014,847,893	24,681,308.4	13.31	14.49 (14.02, 14.97)	2,337,620	654	3
Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist										
<i>0-5 years</i>										
2017	*****	*****	11,591,850	3,161,339,455	8,655,275.7	*****	*****	42,450	*****	*****
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	23,658	*****	*****
2019	*****	*****	12,328,395	3,357,506,357	9,192,351.4	*****	*****	14,851	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2020	*****	*****	12,398,155	3,583,227,924	9,810,343.4	*****	*****	6,129	*****	*****
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	3,064	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	189,058	*****	*****
2018	*****	*****	11,794,163	3,342,692,196	9,151,792.5	*****	*****	117,881	*****	*****
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	87,301	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	28,339	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	11,466	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	77	175	10,061,718	2,781,680,667	7,615,826.6	0.77	1.01 (0.81, 1.26)	242,634	3,151	2
2018	98	208	10,438,880	2,926,279,555	8,011,716.8	0.94	1.22 (1.00, 1.49)	237,743	2,426	2
2019	83	185	11,377,856	3,152,023,843	8,629,771.0	0.73	0.96 (0.78, 1.19)	159,674	1,924	2
2020	65	134	12,185,875	3,539,539,771	9,690,731.7	0.53	0.67 (0.53, 0.86)	73,622	1,133	2
2021	42	71	12,977,688	3,891,829,344	10,655,248.0	0.32	0.39 (0.29, 0.53)	15,562	371	2
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	1,180	2,670	22,965,833	6,212,667,748	17,009,357.3	5.14	6.94 (6.55, 7.34)	3,904,648	3,309	2
2018	1,195	2,787	23,406,875	6,430,810,984	17,606,600.9	5.11	6.79 (6.41, 7.18)	3,475,027	2,908	2
2019	1,032	2,442	23,954,273	6,512,428,986	17,830,058.8	4.31	5.79 (5.45, 6.15)	2,451,209	2,375	2
2020	796	1,788	25,841,527	7,509,244,078	20,559,189.8	3.08	3.87 (3.61, 4.15)	1,254,623	1,576	2
2021	604	1,334	29,117,067	9,107,774,164	24,935,726.7	2.07	2.42 (2.24, 2.62)	605,254	1,002	2
2022	139	355	1,055,987	327,918,361	897,791.5	13.16	15.48 (13.11, 18.28)	179,142	1,289	3

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	84	210	949,991	290,743,272	796,011.7	8.84	10.55 (8.52, 13.07)	47,212	562	3
<i>45-64 years</i>										
2017	2,026	4,683	13,458,217	3,975,364,568	10,883,955.0	15.05	18.61 (17.82, 19.44)	7,473,071	3,689	2
2018	1,993	4,665	13,509,655	4,039,393,304	11,059,256.1	14.75	18.02 (17.25, 18.83)	6,384,285	3,203	2
2019	1,652	3,858	13,386,267	3,978,394,006	10,892,249.2	12.34	15.17 (14.45, 15.92)	4,444,022	2,690	2
2020	1,285	2,918	13,613,992	4,120,692,291	11,281,840.6	9.44	11.39 (10.78, 12.03)	2,598,144	2,022	2
2021	959	2,100	13,965,802	4,380,354,937	11,992,758.2	6.87	8.00 (7.51, 8.52)	1,352,443	1,410	2
2022	500	1,115	2,863,873	868,062,132	2,376,624.6	17.46	21.04 (19.27, 22.97)	577,171	1,154	2
2023	259	616	2,505,856	750,858,952	2,055,739.8	10.34	12.60 (11.15, 14.23)	131,458	508	2
<i>≥ 65 years</i>										
2017	5,171	12,359	29,928,573	10,011,070,650	27,408,817.7	17.28	18.87 (18.36, 19.39)	24,103,895	4,661	2
2018	5,238	12,464	30,060,745	10,041,302,125	27,491,586.9	17.42	19.05 (18.54, 19.58)	21,292,129	4,065	2
2019	4,965	11,694	30,138,750	10,061,319,852	27,546,392.5	16.47	18.02 (17.53, 18.53)	16,934,287	3,411	2
2020	4,315	10,292	29,840,211	9,993,247,475	27,360,020.5	14.46	15.77 (15.31, 16.25)	11,907,824	2,760	2
2021	4,148	9,580	29,010,396	9,683,612,233	26,512,285.4	14.30	15.65 (15.18, 16.13)	8,200,540	1,977	2
2022	3,451	7,880	27,589,641	9,236,544,426	25,288,280.4	12.51	13.65 (13.20, 14.11)	4,234,420	1,227	2
2023	2,234	4,589	26,858,019	9,014,847,893	24,681,308.4	8.32	9.05 (8.68, 9.43)	993,292	445	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus										
<i>0-5 years</i>										
2017	0	0	11,591,850	3,161,339,455	8,655,275.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	1,247	*****	*****
2019	0	0	12,328,395	3,357,506,357	9,192,351.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	12,398,155	3,583,227,924	9,810,343.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	874	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	3,482	*****	*****
2018	0	0	11,794,163	3,342,692,196	9,151,792.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	1,083	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	431	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	601	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	28,507	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	44,072	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	16,548	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	7,489	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	1,656	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	126,006	*****	*****
2018	*****	*****	23,406,875	6,430,810,984	17,606,600.9	*****	*****	146,372	*****	*****
2019	*****	*****	23,954,273	6,512,428,986	17,830,058.8	*****	*****	112,903	*****	*****
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	117,478	*****	*****
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	99,612	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	42,978	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	13,777	*****	*****
<i>45-64 years</i>										
2017	55	85	13,458,217	3,975,364,568	10,883,955.0	0.41	0.51 (0.39, 0.66)	160,638	2,921	2
2018	60	114	13,509,655	4,039,393,304	11,059,256.1	0.44	0.54 (0.42, 0.70)	174,928	2,915	2
2019	70	147	13,386,267	3,978,394,006	10,892,249.2	0.52	0.64 (0.51, 0.81)	192,605	2,752	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2020	69	118	13,613,992	4,120,692,291	11,281,840.6	0.51	0.61 (0.48, 0.77)	114,679	1,662	2
2021	99	187	13,965,802	4,380,354,937	11,992,758.2	0.71	0.83 (0.68, 1.01)	130,870	1,322	2
2022	65	118	2,863,873	868,062,132	2,376,624.6	2.27	2.73 (2.14, 3.49)	61,714	949	2
2023	49	108	2,505,856	750,858,952	2,055,739.8	1.96	2.38 (1.80, 3.15)	22,157	452	2
<i>≥ 65 years</i>										
2017	131	262	29,928,573	10,011,070,650	27,408,817.7	0.44	0.48 (0.40, 0.57)	553,628	4,226	2
2018	164	378	30,060,745	10,041,302,125	27,491,586.9	0.55	0.60 (0.51, 0.70)	663,843	4,048	2
2019	162	359	30,138,750	10,061,319,852	27,546,392.5	0.54	0.59 (0.50, 0.69)	537,984	3,321	2
2020	186	404	29,840,211	9,993,247,475	27,360,020.5	0.62	0.68 (0.59, 0.78)	469,742	2,525	2
2021	269	599	29,010,396	9,683,612,233	26,512,285.4	0.93	1.01 (0.90, 1.14)	522,667	1,943	2
2022	261	533	27,589,641	9,236,544,426	25,288,280.4	0.95	1.03 (0.91, 1.17)	283,042	1,084	2
2023	272	542	26,858,019	9,014,847,893	24,681,308.4	1.01	1.10 (0.98, 1.24)	113,858	419	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider										
<i>0-5 years</i>										
2017	0	0	11,591,850	3,161,339,455	8,655,275.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	1,247	*****	*****
2019	0	0	12,328,395	3,357,506,357	9,192,351.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	12,398,155	3,583,227,924	9,810,343.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	874	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	3,482	*****	*****
2018	0	0	11,794,163	3,342,692,196	9,151,792.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	1,083	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	431	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	601	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	12,900	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	36,757	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	14,358	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	7,465	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	1,232	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	120,405	*****	*****
2018	*****	*****	23,406,875	6,430,810,984	17,606,600.9	*****	*****	140,114	*****	*****
2019	*****	*****	23,954,273	6,512,428,986	17,830,058.8	*****	*****	111,923	*****	*****
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	111,368	*****	*****
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	97,113	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	42,978	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	13,777	*****	*****
<i>45-64 years</i>										
2017	54	84	13,458,217	3,975,364,568	10,883,955.0	0.40	0.50 (0.38, 0.65)	158,837	2,941	2
2018	58	111	13,509,655	4,039,393,304	11,059,256.1	0.43	0.52 (0.41, 0.68)	172,101	2,967	2
2019	68	144	13,386,267	3,978,394,006	10,892,249.2	0.51	0.62 (0.49, 0.79)	190,619	2,803	2
2020	69	118	13,613,992	4,120,692,291	11,281,840.6	0.51	0.61 (0.48, 0.77)	114,679	1,662	2
2021	99	187	13,965,802	4,380,354,937	11,992,758.2	0.71	0.83 (0.68, 1.01)	130,870	1,322	2
2022	65	118	2,863,873	868,062,132	2,376,624.6	2.27	2.73 (2.14, 3.49)	61,714	949	2
2023	49	108	2,505,856	750,858,952	2,055,739.8	1.96	2.38 (1.80, 3.15)	22,157	452	2
<i>≥ 65 years</i>										

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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
2017	131	262	29,928,573	10,011,070,650	27,408,817.7	0.44	0.48 (0.40, 0.57)	553,628	4,226	2
2018	164	378	30,060,745	10,041,302,125	27,491,586.9	0.55	0.60 (0.51, 0.70)	663,843	4,048	2
2019	162	359	30,138,750	10,061,319,852	27,546,392.5	0.54	0.59 (0.50, 0.69)	537,984	3,321	2
2020	186	404	29,840,211	9,993,247,475	27,360,020.5	0.62	0.68 (0.59, 0.78)	469,742	2,525	2
2021	269	599	29,010,396	9,683,612,233	26,512,285.4	0.93	1.01 (0.90, 1.14)	522,667	1,943	2
2022	261	533	27,589,641	9,236,544,426	25,288,280.4	0.95	1.03 (0.91, 1.17)	283,042	1,084	2
2023	272	542	26,858,019	9,014,847,893	24,681,308.4	1.01	1.10 (0.98, 1.24)	113,858	419	2
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	11,591,850	3,161,339,455	8,655,275.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	1,247	*****	*****
2019	0	0	12,328,395	3,357,506,357	9,192,351.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	12,398,155	3,583,227,924	9,810,343.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	453	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	3,482	*****	*****
2018	0	0	11,794,163	3,342,692,196	9,151,792.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	1,083	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	431	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	601	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	8,844	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	32,130	*****	*****

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	11,250	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	7,465	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	831	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>18-44 years</i>										
2017	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	108,475	*****	*****
2018	*****	*****	23,406,875	6,430,810,984	17,606,600.9	*****	*****	130,941	*****	*****
2019	*****	*****	23,954,273	6,512,428,986	17,830,058.8	*****	*****	104,684	*****	*****
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	100,051	*****	*****
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	89,688	*****	*****
2022	*****	*****	1,055,987	327,918,361	897,791.5	*****	*****	38,180	*****	*****
2023	*****	*****	949,991	290,743,272	796,011.7	*****	*****	12,699	*****	*****
<i>45-64 years</i>										
2017	51	79	13,458,217	3,975,364,568	10,883,955.0	0.38	0.47 (0.36, 0.62)	151,188	2,964	2
2018	56	98	13,509,655	4,039,393,304	11,059,256.1	0.41	0.51 (0.39, 0.66)	150,637	2,690	2
2019	63	134	13,386,267	3,978,394,006	10,892,249.2	0.47	0.58 (0.45, 0.74)	179,867	2,855	2
2020	63	104	13,613,992	4,120,692,291	11,281,840.6	0.46	0.56 (0.44, 0.71)	99,115	1,573	2
2021	94	169	13,965,802	4,380,354,937	11,992,758.2	0.67	0.78 (0.64, 0.96)	118,450	1,260	2
2022	62	107	2,863,873	868,062,132	2,376,624.6	2.16	2.61 (2.03, 3.35)	55,927	902	2
2023	49	100	2,505,856	750,858,952	2,055,739.8	1.96	2.38 (1.80, 3.15)	20,506	418	2
<i>≥ 65 years</i>										
2017	128	249	29,928,573	10,011,070,650	27,408,817.7	0.43	0.47 (0.39, 0.56)	531,163	4,150	2
2018	156	347	30,060,745	10,041,302,125	27,491,586.9	0.52	0.57 (0.49, 0.66)	607,823	3,896	2
2019	153	337	30,138,750	10,061,319,852	27,546,392.5	0.51	0.56 (0.47, 0.65)	503,378	3,290	2
2020	180	378	29,840,211	9,993,247,475	27,360,020.5	0.60	0.66 (0.57, 0.76)	437,475	2,430	2
2021	262	572	29,010,396	9,683,612,233	26,512,285.4	0.90	0.99 (0.88, 1.12)	499,764	1,907	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, by Age Group and Year

	Number of Patients per Age Group and Calendar Year	Number of 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	252	500	27,589,641	9,236,544,426	25,288,280.4	0.91	1.00 (0.88, 1.13)	264,571	1,050	2
2023	259	512	26,858,019	9,014,847,893	24,681,308.4	0.96	1.05 (0.93, 1.19)	107,548	415	2
Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by a Dermatologist or Rheumatologist										
<i>0-5 years</i>										
2017	0	0	11,591,850	3,161,339,455	8,655,275.7	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2018	*****	*****	11,545,778	3,208,807,913	8,785,237.3	*****	*****	1,247	*****	*****
2019	0	0	12,328,395	3,357,506,357	9,192,351.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2020	0	0	12,398,155	3,583,227,924	9,810,343.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2021	*****	*****	12,917,120	3,833,342,703	10,495,120.3	*****	*****	453	*****	*****
2022	0	0	362	99,797	273.2	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	341	93,832	256.9	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>6-11 years</i>										
2017	*****	*****	11,690,200	3,268,779,923	8,949,431.7	*****	*****	3,482	*****	*****
2018	0	0	11,794,163	3,342,692,196	9,151,792.5	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2019	*****	*****	12,506,952	3,475,105,501	9,514,320.3	*****	*****	1,083	*****	*****
2020	*****	*****	12,966,641	3,752,829,156	10,274,686.3	*****	*****	431	*****	*****
2021	*****	*****	13,428,807	4,023,008,657	11,014,397.4	*****	*****	262	*****	*****
2022	0	0	362	90,428	247.6	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	342	85,603	234.4	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
<i>12-17 years</i>										
2017	*****	*****	10,061,718	2,781,680,667	7,615,826.6	*****	*****	4,971	*****	*****
2018	*****	*****	10,438,880	2,926,279,555	8,011,716.8	*****	*****	25,388	*****	*****
2019	*****	*****	11,377,856	3,152,023,843	8,629,771.0	*****	*****	8,725	*****	*****
2020	*****	*****	12,185,875	3,539,539,771	9,690,731.7	*****	*****	4,524	*****	*****
2021	*****	*****	12,977,688	3,891,829,344	10,655,248.0	*****	*****	525	*****	*****
2022	0	0	778	198,242	542.8	0.00	0.00 (0.00, 0.00)	0	NaN	NaN
2023	0	0	687	184,069	504.0	0.00	0.00 (0.00, 0.00)	0	NaN	NaN

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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	*****	*****	22,965,833	6,212,667,748	17,009,357.3	*****	*****	65,239	*****	*****
2018	*****	*****	23,406,875	6,430,810,984	17,606,600.9	*****	*****	97,678	*****	*****
2019	*****	*****	23,954,273	6,512,428,986	17,830,058.8	*****	*****	84,637	*****	*****
2020	*****	*****	25,841,527	7,509,244,078	20,559,189.8	*****	*****	77,306	*****	*****
2021	*****	*****	29,117,067	9,107,774,164	24,935,726.7	*****	*****	65,454	*****	*****
2022	24	40	1,055,987	327,918,361	897,791.5	2.27	2.67 (1.79, 3.99)	19,316	805	2
2023	20	40	949,991	290,743,272	796,011.7	2.11	2.51 (1.62, 3.89)	7,867	393	2
<i>45-64 years</i>										
2017	33	56	13,458,217	3,975,364,568	10,883,955.0	0.25	0.30 (0.22, 0.43)	106,065	3,214	2
2018	35	62	13,509,655	4,039,393,304	11,059,256.1	0.26	0.32 (0.23, 0.44)	104,533	2,987	2
2019	46	86	13,386,267	3,978,394,006	10,892,249.2	0.34	0.42 (0.32, 0.56)	114,385	2,487	2
2020	39	64	13,613,992	4,120,692,291	11,281,840.6	0.29	0.35 (0.25, 0.47)	63,213	1,621	2
2021	55	95	13,965,802	4,380,354,937	11,992,758.2	0.39	0.46 (0.35, 0.60)	73,583	1,338	2
2022	41	64	2,863,873	868,062,132	2,376,624.6	1.43	1.73 (1.27, 2.34)	34,308	837	2
2023	35	64	2,505,856	750,858,952	2,055,739.8	1.40	1.70 (1.22, 2.37)	13,949	399	2
<i>≥ 65 years</i>										
2017	88	152	29,928,573	10,011,070,650	27,408,817.7	0.29	0.32 (0.26, 0.40)	327,803	3,725	2
2018	112	225	30,060,745	10,041,302,125	27,491,586.90	0.37	0.41 (0.34, 0.49)	393,881	3,517	2
2019	107	190	30,138,750	10,061,319,852	27,546,392.5	0.36	0.39 (0.32, 0.47)	288,014	2,692	2
2020	125	240	29,840,211	9,993,247,475	27,360,020.5	0.42	0.46 (0.38, 0.54)	279,959	2,240	2
2021	173	335	29,010,396	9,683,612,233	26,512,285.4	0.60	0.65 (0.56, 0.76)	294,940	1,705	2
2022	165	299	27,589,641	9,236,544,426	25,288,280.4	0.60	0.65 (0.56, 0.76)	164,078	994	2
2023	174	321	26,858,019	9,014,847,893	24,681,308.4	0.65	0.70 (0.61, 0.82)	65,723	378	2

Table 8. Summary of Health Conditions of Interest¹ in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023, 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 December 31, 2023

	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)	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Members with a valid index event						
Had any cohort-defining claim during the query period	199,242	159,094,701	197,204	159,096,739	177,191	159,116,752
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	1,010,190	N/A	959,355	N/A	827,459	N/A
Claim recorded during specified age range	1,010,190	0	959,355	0	827,459	0
Episode defining index claim recorded during the query period	1,010,190	0	959,355	0	827,459	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	982,376	27,814	932,799	26,556	804,770	22,689
Met inclusion and exclusion criteria ³	982,376	0	932,799	0	804,770	0
Cohort episodes with required pre-index history						

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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)	
	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	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
<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
<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
<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
<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
<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
<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
<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
<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
Had sufficient post-index continuous enrollment	982,376	0	932,799	0	804,770	0
Final cohort						
Number of members	192,636	N/A	190,739	N/A	171,541	N/A

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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)	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Number of episodes	982,376	N/A	932,799	N/A	804,770	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Subacute cutaneous lupus erythematosus		Patients with Subacute cutaneous lupus erythematosus coded by any known provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Members with a valid index event						
Had any cohort-defining claim during the query period	51,135	159,242,808	32,236	159,261,707	32,033	159,261,910
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	192,517	N/A	147,043	N/A	145,709	N/A
Claim recorded during specified age range	192,517	0	147,043	0	145,709	0
Episode defining index claim recorded during the query period	192,517	0	147,043	0	145,709	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	187,224	5,293	144,234	2,809	142,926	2,783
Met inclusion and exclusion criteria ³	187,224	0	144,234	0	142,926	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Subacute cutaneous lupus erythematosus		Patients with Subacute cutaneous lupus erythematosus coded by any known provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history						
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
Had sufficient post-index continuous enrollment	187,224	0	144,234	0	142,926	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Subacute cutaneous lupus erythematosus		Patients with Subacute cutaneous lupus erythematosus coded by any known provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Final cohort						
Number of members	49,585	N/A	31,541	N/A	31,349	N/A
Number of episodes	187,224	N/A	144,234	N/A	142,926	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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		Patients with Other lupus erythematosus	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Members with a valid index event						
Had any cohort-defining claim during the query period	28,849	159,265,094	17,971	159,275,972	62,082	159,231,861
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	129,894	N/A	72,924	N/A	291,336	N/A
Claim recorded during specified age range	129,894	0	72,924	0	291,336	0
Episode defining index claim recorded during the query period	129,894	0	72,924	0	291,336	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	127,451	2,443	71,718	1,206	284,293	7,043
Met inclusion and exclusion criteria ³	127,451	0	71,718	0	284,293	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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		Patients with Other lupus erythematosus	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history						
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
Had sufficient post-index continuous enrollment	127,451	0	71,718	0	284,293	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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		Patients with Other lupus erythematosus	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Final cohort						
Number of members	28,241	N/A	17,645	N/A	60,284	N/A
Number of episodes	127,451	N/A	71,718	N/A	284,293	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Members with a valid index event						
Had any cohort-defining claim during the query period	61,449	159,232,494	53,689	159,240,254	20,912	159,273,031
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query	267,412	N/A	216,681	N/A	69,637	N/A
Claim recorded during specified age range	267,412	0	216,681	0	69,637	0
Episode defining index claim recorded during the query period	267,412	0	216,681	0	69,637	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	260,912	6,500	211,468	5,213	67,957	1,680
Met inclusion and exclusion criteria ³	260,912	0	211,468	0	67,957	0
Cohort episodes with required pre-index history						

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
Had sufficient post-index continuous enrollment	260,912	0	211,468	0	67,957	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Final cohort						
Number of members	59,694	N/A	52,179	N/A	20,362	N/A
Number of episodes	260,912	N/A	211,468	N/A	67,957	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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	
	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359
Members with a valid index event				
Had any cohort-defining claim during the query period	541,627	158,752,316	536,850	158,757,093
Cohort episodes with a valid index date				
Total number of claims with cohort-identifying codes during the query period	5,981,669	N/A	5,750,056	N/A
Claim recorded during specified age range	*****	*****	*****	*****
Episode defining index claim recorded during the query period	*****	0	*****	0
Cohort episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	5,809,149	*****	5,584,104	*****
Met inclusion and exclusion criteria ³	725,677	5,083,472	696,146	4,887,958

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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	
	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history				
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	3,693,228	N/A	3,566,330
<i>No evidence of DLE on index and SCLE on or after index</i>	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
<i>No evidence of SCLE on index and DLE on or after index</i>	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
<i>No evidence of Other LE on index and DLE on or after index</i>	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
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	2,980,043	N/A	2,848,933
<i>No evidence of SLE starting one year after index through all available data</i>	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
Had sufficient post-index continuous enrollment	725,677	0	696,146	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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	
	Remaining	Excluded	Remaining	Excluded
Final cohort				
Number of members	81,059	N/A	80,435	N/A
Number of episodes	725,677	N/A	696,146	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359
Members with a valid index event				
Had any cohort-defining claim during the query period	468,731	158,825,212	175,348	159,118,595
Cohort episodes with a valid index date				
Total number of claims with cohort-identifying codes during the query period	4,958,287	N/A	1,114,251	N/A
Claim recorded during specified age range	*****	*****	1,114,251	0
Episode defining index claim recorded during the query period	*****	0	1,114,251	0
Cohort episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	4,814,196	*****	1,084,100	30,151
Met inclusion and exclusion criteria ³	612,138	4,202,058	137,520	946,580

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Cohort episodes with required pre-index history				
<i>Evidence of systemic manifestations of SLE or Drug-induced SLE in all available history through 365 days after index</i>	N/A	3,116,951	N/A	693,772
<i>No evidence of DLE on index and SCLE on or after index</i>	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
<i>No evidence of SCLE on index and DLE on or after index</i>	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
<i>No evidence of Other LE on index and DLE on or after index</i>	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
<i>No evidence of DLE, SCLE, or Other LE in all available history through 365 days after index</i>	N/A	2,401,295	N/A	569,583
<i>No evidence of SLE starting one year after index through all available data</i>	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
Had sufficient post-index continuous enrollment	612,138	0	137,520	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Final cohort				
Number of members	75,655	N/A	26,046	N/A
Number of episodes	612,138	N/A	137,520	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus		Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider	
	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359
Members with a valid index event				
Had any cohort-defining claim during the query period	199,242	159,094,701	197,204	159,096,739
Cohort episodes with a valid index date				
Total number of claims with cohort-identifying codes during the query period	1,010,190	N/A	959,355	N/A
Claim recorded during specified age range	1,010,190	0	959,355	0
Episode defining index claim recorded during the query period	1,010,190	0	959,355	0
Cohort episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	982,376	27,814	932,799	26,556
Met inclusion and exclusion criteria ³	455,071	527,305	433,002	499,797
Cohort episodes with required pre-index history				
<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
<i>No evidence of DLE on index and SCLE on or after index</i>	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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus		Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider	
	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
<i>No evidence of SCLE on index and Other LE on or after index</i>	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
<i>No evidence of Other LE on index and SCLE on or after index</i>	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
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	527,305	N/A	499,797
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	455,071	0	433,002	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus		Patients with Discoid lupus erythematosus precedes systemic lupus erythematosus coded by any known provider	
	Remaining	Excluded	Remaining	Excluded
Final cohort				
Number of members	88,030	N/A	87,371	N/A
Number of episodes	455,071	N/A	433,002	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359
Members with a valid index event				
Had any cohort-defining claim during the query period	177,191	159,116,752	51,135	159,242,808
Cohort episodes with a valid index date				
Total number of claims with cohort-identifying codes during the query period	827,459	N/A	192,517	N/A
Claim recorded during specified age range	827,459	0	192,517	0
Episode defining index claim recorded during the query period	827,459	0	192,517	0
Cohort episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	804,770	22,689	187,224	5,293
Met inclusion and exclusion criteria ³	379,643	425,127	81,801	105,423
Cohort episodes with required pre-index history				
<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
<i>No evidence of DLE on index and SCLE on or after index</i>	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
<i>No evidence of SCLE on index and DLE on or after index</i>	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 December 31, 2023

	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
<i>No evidence of SCLE on index and Other LE on or after index</i>	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
<i>No evidence of Other LE on index and SCLE on or after index</i>	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
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	425,127	N/A	105,423
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	379,643	0	81,801	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Final cohort				
Number of members	82,054	N/A	21,539	N/A
Number of episodes	379,643	N/A	81,801	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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)	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Members with a valid index event						
Had any cohort-defining claim during the query period	248,439	159,045,504	246,022	159,047,921	220,465	159,073,478
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	1,436,273	N/A	1,360,794	N/A	1,165,400	N/A
Claim recorded during specified age range	1,436,273	0	1,360,794	0	1,165,400	0
Episode defining index claim recorded during the query period	1,436,273	0	1,360,794	0	1,165,400	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	1,398,908	37,365	1,325,244	35,550	1,135,271	30,129
Met inclusion and exclusion criteria ³	308,294	1,090,614	295,138	1,030,106	260,962	874,309
Cohort episodes with required pre-index history						
<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
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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)	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<i>No evidence of DLE on index and Other LE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309
<i>No evidence of SCLE on index and Other LE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309
<i>No evidence of Other LE on index and DLE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309
<i>No evidence of Other LE on index and SCLE on or after index</i>	N/A	1,090,614	N/A	1,030,106	N/A	874,309
<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
<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
<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
Had sufficient post-index continuous enrollment	308,294	0	295,138	0	260,962	0

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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)	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Final cohort						
Number of members	38,129	N/A	37,928	N/A	35,677	N/A
Number of episodes	308,294	N/A	295,138	N/A	260,962	N/A

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 (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 (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

Table 9. Summary of Episode-level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359	159,293,943	1,359
Had any cohort-defining claim during the query period	77,593	159,216,350	32,203	159,261,740	31,913	159,262,030
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	330,603	N/A	66,842	N/A	66,299	N/A
Claim recorded during specified age range	330,603	0	66,842	0	66,299	0
Episode defining index claim recorded during the query period	330,603	0	66,842	0	66,299	0
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	322,543	8,060	65,137	1,705	64,619	1,680
Met inclusion and exclusion criteria ³	101,689	220,854	4,975	60,162	4,910	59,709

Table 9. Summary of Episode-level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Cohort episodes with required pre-index history						
<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
<i>No evidence of DLE on index and SCLE on or after index</i>	N/A	220,854	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	220,854	N/A	N/A	N/A	N/A
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	220,854	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	220,854	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	220,854	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	220,854	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
<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
<i>No evidence of SLE in all available data before and after index</i>	N/A	N/A	N/A	60,162	N/A	59,709
Had sufficient post-index continuous enrollment	101,689	0	4,975	0	4,910	0

Table 9. Summary of Episode-level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	Patients with Mixed cutaneous lupus erythematosus coded by a dermatologist or rheumatologist		Patients with Chilblains with evidence of Systemic Lupus Erythematosus		Patients with Chilblains with evidence of Systemic Lupus Erythematosus Coded by Any Known Provider	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Final cohort						
Number of members	20,765	N/A	1,491	N/A	1,477	N/A
Number of episodes	101,689	N/A	4,975	N/A	4,910	N/A

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 (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 (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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	163,556,973	N/A	163,556,973	N/A
Had required coverage type (medical and/or drug coverage)	159,315,779	4,241,194	159,315,779	4,241,194
Enrolled during specified age range	159,295,302	20,477	159,295,302	20,477
Had requestable medical charts	159,295,302	0	159,295,302	0
Met demographic requirements (sex, race, and Hispanic origin)	159,293,943	1,359	159,293,943	1,359
Members with a valid index event				
Had any cohort-defining claim during the query period	30,533	159,263,410	11,986	159,281,957
Cohort episodes with a valid index date				
Total number of claims with cohort-identifying codes during the query period	62,050	N/A	23,178	N/A
Claim recorded during specified age range	62,050	0	23,178	0
Episode defining index claim recorded during the query period	62,050	0	23,178	0
Cohort episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	60,499	1,551	22,674	504
Met inclusion and exclusion criteria ³	4,565	55,934	2,851	19,823
Cohort episodes with required pre-index history				
<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
<i>No evidence of DLE on index and SCLE on or after index</i>	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
<i>No evidence of SCLE on index and DLE on or after index</i>	N/A	N/A	N/A	N/A
Cohort episodes with required pre-index history				
<i>No evidence of SCLE on index and Other LE on or after index</i>	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

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
<i>No evidence of Other LE on index and SCLE on or after index</i>	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
<i>No evidence of SLE starting one year after index through all available data</i>	N/A	N/A	N/A	N/A
<i>No evidence of SLE in all available data before and after index</i>	N/A	55,934	N/A	19,823
Had sufficient post-index continuous enrollment				

Table 9. Summary of Episode-Level¹ Cohort² Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2023

	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
Final cohort				
Number of members	1,414	N/A	979	N/A
Number of episodes	4,565	N/A	2,851	N/A

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 (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 (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	01/01/2014	12/31/2021
DP02	01/01/2010	12/31/2023

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/Optomestrist

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/Optometrists
152WC0802X	Eye and Vision Service Providers/Optometrists, Corneal and Contact Management
152WL0500X	Eye and Vision Service Providers/Optometrists, Low Vision Rehabilitation
152WP0200X	Eye and Vision Service Providers/Optometrists, Pediatrics
152WS0006X	Eye and Vision Service Providers/Optometrists, Sports Vision
152WV0400X	Eye and Vision Service Providers/Optometrists, Vision Therapy
152WX0102X	Eye and Vision Service Providers/Optometrists, 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, Dermatopathology
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

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?	
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

Scenario	Evidence of	Inclusion/exclusion description and codes	Condition Criteria <i>Indicator for CONLEVEL criterion</i>	Condition Name of inclusion or exclusion criteria specified	condition Name of inclusion or exclusion criteria within CONDLEVEL values specified	Exclusion	Inclusion/Exclusion Criteria				Forced Supply to Attach to Dispensings
							Care Setting	Position	Period Start	End	
#	*Death *DP End Date *Query End Date *Occurrence of an exposure or event		*Inclusion (1) *Exclusion (0)				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	1	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
		Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE) in all available history through 365 days after index	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	1	SCLE_OtherLE_DLE	SCLE_OtherLE_DLE	1	AV* OA*	*Any	-all available history	365	n/a
		Exclude M32.1/M32.1x (systemic manifestations of SLE) or M32.0 (Drug-induced SLE) in all available history through 365 days after index	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 (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 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 (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 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

