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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.

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

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Overview

Date Run: November 6, 2019

Request Description: The purpose of this report was to compare the frequency of diagnoses for Hodgkin's lymphoma using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. ICD-10-CM code definitions were determined by mapping from ICD-9-CM code definitions using the Centers for Medicare and Medicaid Services (CMS) General Equivalence Mappings (GEMs). Forward-backward mapping (FBM) was used to map ICD-9-CM to ICD-10-CM codes.¹

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 9.0.0

Data Source: This request was run against the IBM® MarketScan® Commercial Claims and Encounters Database and Medicare Supplemental Database, which included 135 million members. Data from October 1, 2010 to September 30, 2018 were included in this report. The report includes five separate time periods: 1) October 1, 2010 to September 30, 2018; 2) October 1, 2013 to September 30, 2014; 3) October 1, 2014 to September 30, 2015; 4) October 1, 2015 to September 30, 2016; and 5) October 1, 2016 to September 30, 2017. See Appendix A for the dates of available data used in this report.

Study Design: We examined the incidence and prevalence of Hodgkin's lymphoma across the ICD-9-CM era (October 2010 - September 2015) and ICD-10-CM era (October 2015 - September 2018) in the United States. Incidence was additionally evaluated from October 2013 to September 2014, October 2014 to September 2015, October 2015 to September 2016, and October 2016 to September 2017. See Appendix B for specific codes used to define Hodgkin's lymphoma in this request.

Cohort Eligibility Criteria: The following age groups were included in the cohorts: 0-17, 18-49, 50-64, and 65+ years.

Incident Cohorts: Members included in the incident cohorts were required to be continuously enrolled in health plans with at least medical coverage for at least 183 days prior to the Hodgkin's lymphoma diagnosis of interest, during which gaps in coverage of up to 45 days were allowed. Incident Hodgkin's lymphoma was defined as no previous diagnoses of Hodgkin's lymphoma in the 183 days preceding the index date with respect to ICD-9-CM and ICD-10-CM codes.

Prevalent Cohorts: There was no enrollment time requirement for members in the prevalent cohorts. All qualifying diagnosis codes that occurred between October 1, 2010 and September 30, 2018 were included.

Please see Appendix C for detailed specifications of parameters used in the analyses for this request.

Limitations: Algorithms used to define outcomes are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

¹Fung, K. W., et al. (2016). "Preparing for the ICD-10-CM Transition: Automated Methods for Translating ICD Codes in Clinical Phenotype Definitions." EGEMS (Wash DC) 4(1): 1211.

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

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, 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.

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.

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 MP algorithm: 0: Counts all occurrences of an 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 days are added after any episode gaps have been bridged

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

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

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

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

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

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

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

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

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

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

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

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

*all terms may not be used in this report

Table 1. Comparison of Incident* Hodgkin's Lymphoma Diagnoses in the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Eras (October 2013 - September 2014, October 2014 - September 2015, October 2015 - September 2016, and October 2016 - September 2017)

	Members with Diagnosis	Eligible Members	Members with Diagnosis per 10,000 Eligible Members
Hodgkin's Lymphoma			
ICD-9-CM: October 2013 - September 2014	12,630	49,401,090	2.56
ICD-9-CM: October 2014 - September 2015	9,530	45,313,598	2.10
ICD-10-CM: October 2015 - September 2016	11,259	29,537,663	3.81
ICD-10-CM: October 2016 - September 2017	7,198	29,854,303	2.41

*Incidence defined by a 183 day washout

Figure 1. Incidence of Hodgkin's Lymphoma Diagnoses per 10,000 Eligible Members from October 2010 - September 2018 by Code Type, 183-Day Washout

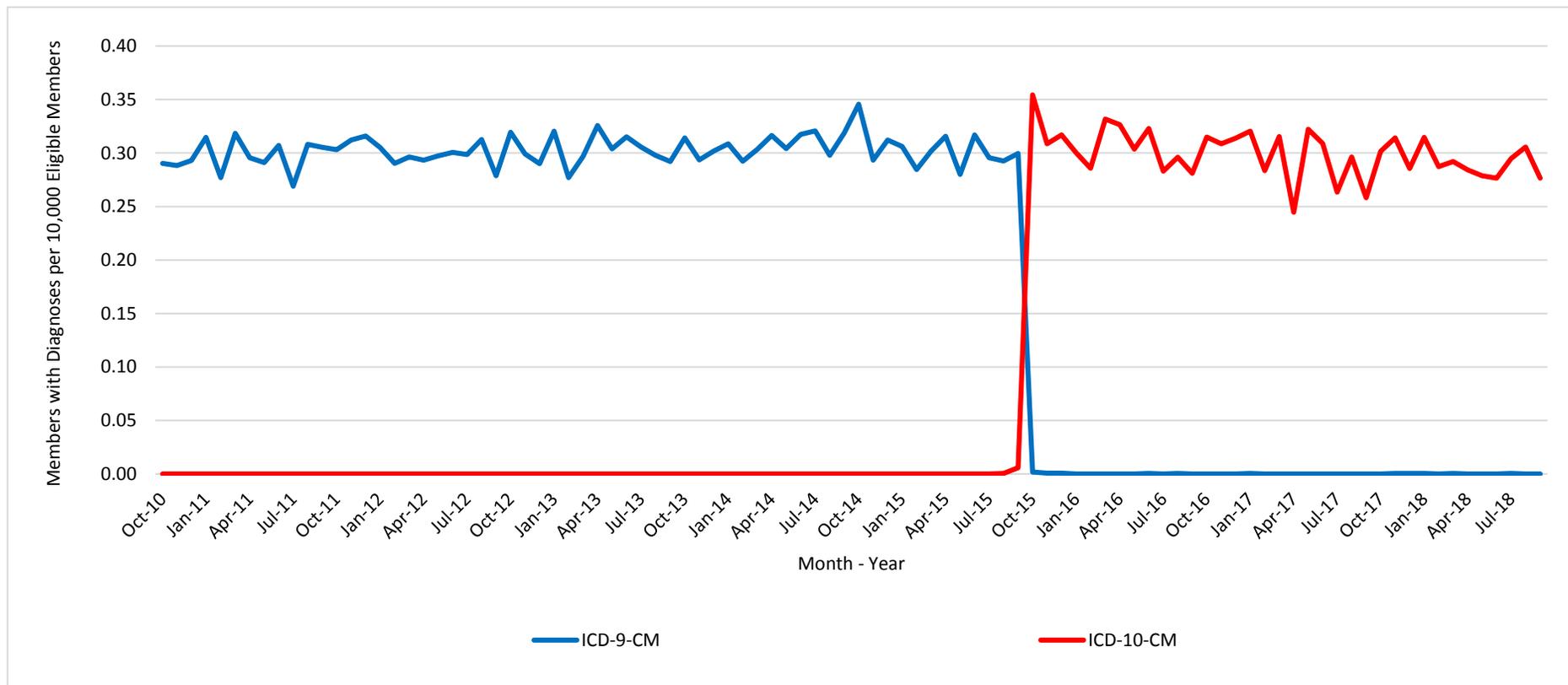
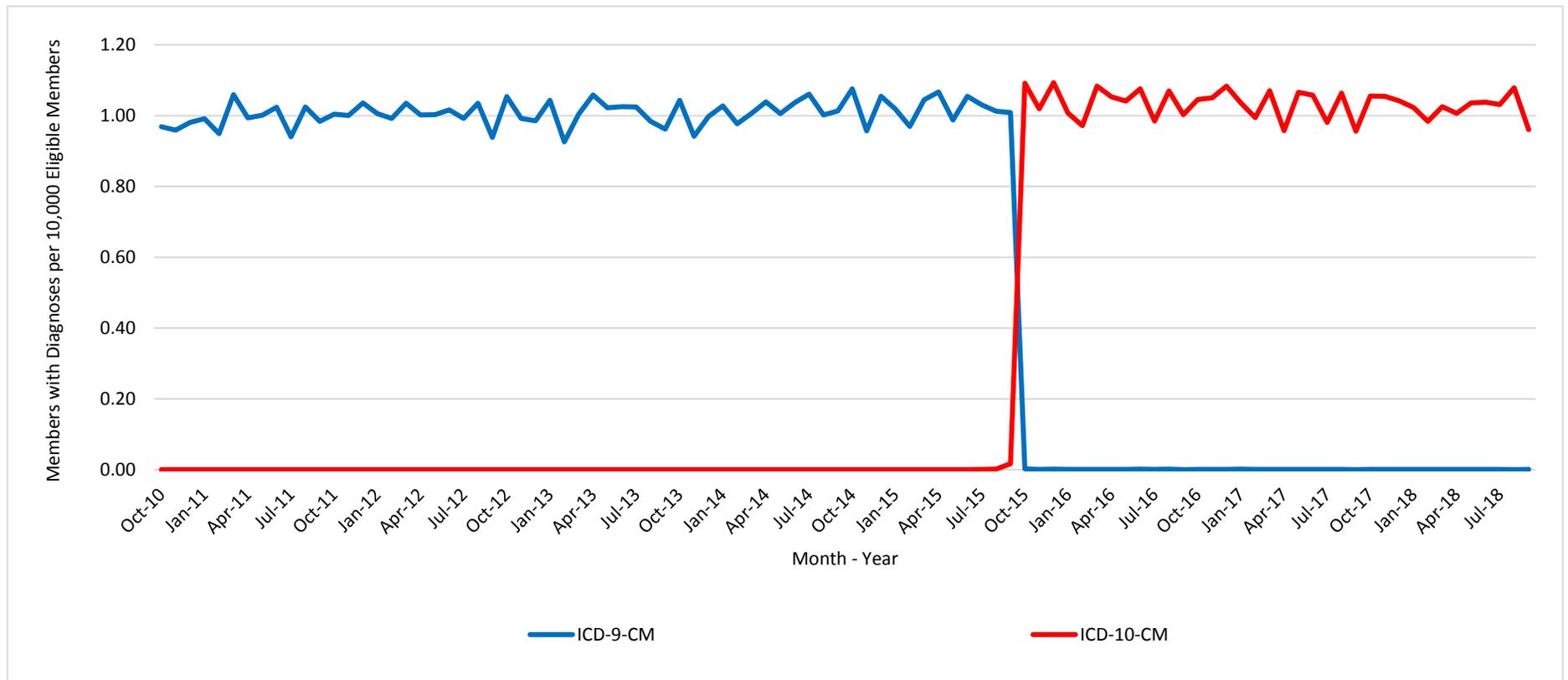


Figure 2. Prevalence of Hodgkin's Lymphoma Diagnoses per 10,000 Eligible Members from October 2010 - September 2018 by Code Type, 0-Day Washout





Appendix A. Dates Available for IBM® MarketScan® Commercial and Medicare Supplemental Databases

Databases	Start Date	End Date
IBM MarketScan Commercial and Medicare Supplemental Databases ¹	1/1/2010	9/30/2018

¹ The IBM MarketScan Databases includes a sample of 135 million employees, dependents, and retirees in the United States with primary or Medicare supplemental coverage through privately insured fee-for-service, point-of-service, or capitated health plans. The IBM MarketScan claims databases are based on a large convenience sample. Because the sample is not random, it may contain biases or fail to generalize well to other populations. Data come mostly from large employers; medium and small firms may be underrepresented. For more information on the IBM MarketScan Databases, please review the White Paper here: <https://www.ibm.com/downloads/cas/OWZWJ0QO>

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Hodgkin's Lymphoma

Code	Description	Code Type
ICD-9-CM		
201.00	Hodgkin's paraganuloma, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.01	Hodgkin's paraganuloma of lymph nodes of head, face, and neck	ICD-9-CM
201.02	Hodgkin's paraganuloma of intrathoracic lymph nodes	ICD-9-CM
201.03	Hodgkin's paraganuloma of intra-abdominal lymph nodes	ICD-9-CM
201.04	Hodgkin's paraganuloma of lymph nodes of axilla and upper limb	ICD-9-CM
201.05	Hodgkin's paraganuloma of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.06	Hodgkin's paraganuloma of intrapelvic lymph nodes	ICD-9-CM
201.07	Hodgkin's paraganuloma of spleen	ICD-9-CM
201.08	Hodgkin's paraganuloma of lymph nodes of multiple sites	ICD-9-CM
201.10	Hodgkin's granuloma, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.11	Hodgkin's granuloma of lymph nodes of head, face, and neck	ICD-9-CM
201.12	Hodgkin's granuloma of intrathoracic lymph nodes	ICD-9-CM
201.13	Hodgkin's granuloma of intra-abdominal lymph nodes	ICD-9-CM
201.14	Hodgkin's granuloma of lymph nodes of axilla and upper limb	ICD-9-CM
201.15	Hodgkin's granuloma of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.16	Hodgkin's granuloma of intrapelvic lymph nodes	ICD-9-CM
201.17	Hodgkin's granuloma of spleen	ICD-9-CM
201.18	Hodgkin's granuloma of lymph nodes of multiple sites	ICD-9-CM
201.20	Hodgkin's sarcoma, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.21	Hodgkin's sarcoma of lymph nodes of head, face, and neck	ICD-9-CM
201.22	Hodgkin's sarcoma of intrathoracic lymph nodes	ICD-9-CM
201.23	Hodgkin's sarcoma of intra-abdominal lymph nodes	ICD-9-CM
201.24	Hodgkin's sarcoma of lymph nodes of axilla and upper limb	ICD-9-CM
201.25	Hodgkin's sarcoma of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.26	Hodgkin's sarcoma of intrapelvic lymph nodes	ICD-9-CM
201.27	Hodgkin's sarcoma of spleen	ICD-9-CM
201.28	Hodgkin's sarcoma of lymph nodes of multiple sites	ICD-9-CM
201.40	Hodgkin's disease, lymphocytic-histiocytic predominance, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.41	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of head, face, and neck	ICD-9-CM
201.42	Hodgkin's disease, lymphocytic-histiocytic predominance of intrathoracic lymph nodes	ICD-9-CM
201.43	Hodgkin's disease, lymphocytic-histiocytic predominance of intra-abdominal lymph nodes	ICD-9-CM
201.44	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of axilla and upper limb	ICD-9-CM
201.45	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.46	Hodgkin's disease, lymphocytic-histiocytic predominance of intrapelvic lymph nodes	ICD-9-CM
201.47	Hodgkin's disease, lymphocytic-histiocytic predominance of spleen	ICD-9-CM
201.48	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of multiple sites	ICD-9-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Hodgkin's Lymphoma

Code	Description	Code Type
201.50	Hodgkin's disease, nodular sclerosis, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.51	Hodgkin's disease, nodular sclerosis, of lymph nodes of head, face, and neck	ICD-9-CM
201.52	Hodgkin's disease, nodular sclerosis, of intrathoracic lymph nodes	ICD-9-CM
201.53	Hodgkin's disease, nodular sclerosis, of intra-abdominal lymph nodes	ICD-9-CM
201.54	Hodgkin's disease, nodular sclerosis, of lymph nodes of axilla and upper limb	ICD-9-CM
201.55	Hodgkin's disease, nodular sclerosis, of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.56	Hodgkin's disease, nodular sclerosis, of intrapelvic lymph nodes	ICD-9-CM
201.57	Hodgkin's disease, nodular sclerosis, of spleen	ICD-9-CM
201.58	Hodgkin's disease, nodular sclerosis, of lymph nodes of multiple sites	ICD-9-CM
201.60	Hodgkin's disease, mixed cellularity, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.61	Hodgkin's disease, mixed cellularity, involving lymph nodes of head, face, and neck	ICD-9-CM
201.62	Hodgkin's disease, mixed cellularity, of intrathoracic lymph nodes	ICD-9-CM
201.63	Hodgkin's disease, mixed cellularity, of intra-abdominal lymph nodes	ICD-9-CM
201.64	Hodgkin's disease, mixed cellularity, of lymph nodes of axilla and upper limb	ICD-9-CM
201.65	Hodgkin's disease, mixed cellularity, of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.66	Hodgkin's disease, mixed cellularity, of intrapelvic lymph nodes	ICD-9-CM
201.67	Hodgkin's disease, mixed cellularity, of spleen	ICD-9-CM
201.68	Hodgkin's disease, mixed cellularity, of lymph nodes of multiple sites	ICD-9-CM
201.70	Hodgkin's disease, lymphocytic depletion, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.71	Hodgkin's disease, lymphocytic depletion, of lymph nodes of head, face, and neck	ICD-9-CM
201.72	Hodgkin's disease, lymphocytic depletion, of intrathoracic lymph nodes	ICD-9-CM
201.73	Hodgkin's disease, lymphocytic depletion, of intra-abdominal lymph nodes	ICD-9-CM
201.74	Hodgkin's disease, lymphocytic depletion, of lymph nodes of axilla and upper limb	ICD-9-CM
201.75	Hodgkin's disease, lymphocytic depletion, of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.76	Hodgkin's disease, lymphocytic depletion, of intrapelvic lymph nodes	ICD-9-CM
201.77	Hodgkin's disease, lymphocytic depletion, of spleen	ICD-9-CM
201.78	Hodgkin's disease, lymphocytic depletion, of lymph nodes of multiple sites	ICD-9-CM
201.90	Hodgkin's disease, unspecified type, unspecified site, extranodal and solid organ sites	ICD-9-CM
201.91	Hodgkin's disease, unspecified type, of lymph nodes of head, face, and neck	ICD-9-CM
201.92	Hodgkin's disease, unspecified type, of intrathoracic lymph nodes	ICD-9-CM
201.93	Hodgkin's disease, unspecified type, of intra-abdominal lymph nodes	ICD-9-CM
201.94	Hodgkin's disease, unspecified type, of lymph nodes of axilla and upper limb	ICD-9-CM
201.95	Hodgkin's disease, unspecified type, of lymph nodes of inguinal region and lower limb	ICD-9-CM
201.96	Hodgkin's disease, unspecified type, of intrapelvic lymph nodes	ICD-9-CM
201.97	Hodgkin's disease, unspecified type, of spleen	ICD-9-CM
201.98	Hodgkin's disease, unspecified type, of lymph nodes of multiple sites	ICD-9-CM
V10.72	Personal history of Hodgkin's disease	ICD-9-CM
ICD-10-CM		
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.01	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Hodgkin's Lymphoma

Code	Description	Code Type
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.03	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.04	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.05	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.06	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.07	Nodular lymphocyte predominant Hodgkin lymphoma, spleen	ICD-10-CM
C81.08	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.09	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.10	Nodular sclerosis Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.11	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM
C81.12	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.13	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.14	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.15	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.16	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.17	Nodular sclerosis Hodgkin lymphoma, spleen	ICD-10-CM
C81.18	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.19	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.20	Mixed cellularity Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.21	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM
C81.22	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.23	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.24	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.25	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.26	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.27	Mixed cellularity Hodgkin lymphoma, spleen	ICD-10-CM
C81.28	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.29	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.30	Lymphocyte depleted Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.31	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM
C81.32	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.33	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.34	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.35	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.36	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.37	Lymphocyte depleted Hodgkin lymphoma, spleen	ICD-10-CM
C81.38	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.39	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.40	Lymphocyte-rich Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.41	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Hodgkin's Lymphoma

Code	Description	Code Type
C81.42	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.43	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.44	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.45	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.46	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.47	Lymphocyte-rich Hodgkin lymphoma, spleen	ICD-10-CM
C81.48	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.49	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.70	Other Hodgkin lymphoma, unspecified site	ICD-10-CM
C81.71	Other Hodgkin lymphoma, lymph nodes of head, face, and neck	ICD-10-CM
C81.72	Other Hodgkin lymphoma, intrathoracic lymph nodes	ICD-10-CM
C81.73	Other Hodgkin lymphoma, intra-abdominal lymph nodes	ICD-10-CM
C81.74	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb	ICD-10-CM
C81.75	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.76	Other Hodgkin lymphoma, intrapelvic lymph nodes	ICD-10-CM
C81.77	Other Hodgkin lymphoma, spleen	ICD-10-CM
C81.78	Other Hodgkin lymphoma, lymph nodes of multiple sites	ICD-10-CM
C81.79	Other Hodgkin lymphoma, extranodal and solid organ sites	ICD-10-CM
C81.90	Hodgkin lymphoma, unspecified, unspecified site	ICD-10-CM
C81.91	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	ICD-10-CM
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	ICD-10-CM
C81.93	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	ICD-10-CM
C81.94	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	ICD-10-CM
C81.95	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	ICD-10-CM
C81.96	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	ICD-10-CM
C81.97	Hodgkin lymphoma, unspecified, spleen	ICD-10-CM
C81.98	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	ICD-10-CM
C81.99	Hodgkin lymphoma, unspecified, extranodal and solid organ sites	ICD-10-CM
Z85.71	Personal history of Hodgkin lymphoma	ICD-10-CM

Appendix C. Specifications for Parameters for this Request

Sentinel's Cohort Identification and Descriptive Analysis (CIDA) module, version 9.0.0, was used to compare the frequency of diagnoses for Hodgkin's lymphoma using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes.

Enrollment Gap: 45 days

Age Group: 0-17, 18-49, 50-64, 65+ years

Enrollment Requirement: 183 days for incidence scenarios; 0 days for prevalence scenarios

Coverage Requirement: At least medical coverage

Stratifications: Calendar year by month

Scenario	Event	Event						
		Query Period Start	Query Period End	Event Code Type	Incident with Respect To	Washout (days)	Cohort Definition	Care Setting
1	Hodgkin's Lymphoma	10/1/2013	9/30/2014	ICD-9-CM	ICD-9-CM	183	All valid events	Any
2	Hodgkin's Lymphoma	10/1/2014	9/30/2015	ICD-9-CM	ICD-9-CM	183	All valid events	Any
3	Hodgkin's Lymphoma	10/1/2015	9/30/2016	ICD-10-CM	ICD-10-CM	183	All valid events	Any
4	Hodgkin's Lymphoma	10/1/2016	9/30/2017	ICD-10-CM	ICD-10-CM	183	All valid events	Any
5	Hodgkin's Lymphoma	10/1/2010	9/30/2018	ICD-9-CM	ICD-9-CM or ICD-10-CM	183	All valid events	Any
6	Hodgkin's Lymphoma	10/1/2010	9/30/2018	ICD-10-CM	ICD-9-CM or ICD-10-CM	183	All valid events	Any
7	Hodgkin's Lymphoma	10/1/2010	9/30/2018	ICD-9-CM	N/A	0	All valid events	Any
8	Hodgkin's Lymphoma	10/1/2010	9/30/2018	ICD-10-CM	N/A	0	All valid events	Any

ICD-9-CM and ICD-10-CM are provided by Optum360. ICD-10-CM codes were mapped from ICD-9-CM codes using the Centers for Medicare and Medicaid Services General Equivalence Mappings.