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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_wp008, Report 1 of 4

Request ID: cder_mpl1p_wp008_nsdp_v01

Request Description: This report contains estimates of the number of new cancer diagnoses, among members with at least medical coverage, and the length of their pre-diagnostic and post-diagnostic follow-up time within the Sentinel Distributed Database (SDD).

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.0.3, with additional ad hoc programming.

Data Source: Data from January 1, 2000 to August 31, 2017 from 16 Data Partners contributing to the SDD were included in this report. This request was distributed on March 29, 2018. See Appendix A for a list of the latest dates of available data for each Data Partner.

Study Design: This a descriptive analysis to identify exposures and follow-up time.

Exposures of Interest: The exposure of interest was defined as a diagnosis of new onset cancer, in any care setting, any of the following sites: anus, breast (male or female), cervix, colon, uterus, esophagus, kidney and renal pelvis, leukemia, liver and intrahepatic bile duct, lung and bronchus, melanoma, Non-Hodgkin's Lymphoma, other endocrine, pancreas, prostate, rectum, thyroid, or urinary bladder. These conditions were defined using International Classification of Diseases, Ninth and 10th Revisions, Clinical Modification (ICD-9-CM) and (ICD-10-CM) diagnosis codes. Please refer to Appendix B for specific codes.

Cohort Eligibility Criteria: Patients were required to be continuously enrolled in plans with at least medical coverage for a minimum of 12 months (365 days) before the index date, during which gaps in coverage of up to 45 days were allowed. Only members with no prior diagnosis of the site-specific cancer within 12 months (365 days) prior to the diagnosis of interest were included (i.e., new onset cancer). For each member only the first qualifying (index) incident diagnosis per cancer-site, that occurred between January 1, 2000 to most recent available data, was examined. The following age groups were included in the cohort: 0-44, 45-64, 65+ years.

Follow-Up Time: Follow-up time was characterized both prior to and post the diagnosis of interest. Post-diagnostic follow-up time began on the date of diagnosis and continued until the first occurrence of any of the following: 1) disenrollment; 2) death; 3) the end of Data Partner data availability; or 4) the end of the query period. Pre-diagnostic follow-up time began at the member's start of enrollment until the diagnosis of interest date, allowing for up to 45 days of gap between enrollment periods. Both pre and post-diagnostic follow-up time was categorized into the non-mutually exclusive categories: >0, >1, >2, >3, >4 years.

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

Please refer to Appendix C for specifications defining parameters in this request.

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

Table of Contents

<u>Glossary</u>	List of Terms Found in this Report and their Definitions
<u>Table 1a.1</u>	Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 1a.2</u>	Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 1b.1</u>	Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 1b.2</u>	Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 2a.1</u>	Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 2a.2</u>	Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 2b.1</u>	Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 2b.2</u>	Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 3a.1</u>	Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 3a.2</u>	Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 3b.1</u>	Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group
<u>Table 3b.2</u>	Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group
<u>Table 4</u>	Pre-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site
<u>Table 5</u>	Post-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site
<u>Table 6a</u>	Counts of Patients by Pre and Post Index Follow-up Time for Any Cancer Site in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6b</u>	Counts of Patients by Pre and Post Index Follow-up Time for Anal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6c</u>	Counts of Patients by Pre and Post Index Follow-up Time for Female Breast Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6d</u>	Counts of Patients by Pre and Post Index Follow-up Time for Male Breast Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6e</u>	Counts of Patients by Pre and Post Index Follow-up Time for Cervical Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6f</u>	Counts of Patients by Pre and Post Index Follow-up Time for Colon Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6g</u>	Counts of Patients by Pre and Post Index Follow-up Time for Endometrial Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Table of Contents

<u>Table 6h</u>	Counts of Patients by Pre and Post Index Follow-up Time for Esophageal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6i</u>	Counts of Patients by Pre and Post Index Follow-up Time for Kidney and Pelvic Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6j</u>	Counts of Patients by Pre and Post Index Follow-up Time for Leukemia in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6k</u>	Counts of Patients by Pre and Post Index Follow-up Time for Liver and Intrahepatic Bile Duct Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6l</u>	Counts of Patients by Pre and Post Index Follow-up Time for Lung and Bronchus Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6m</u>	Counts of Patients by Pre and Post Index Follow-up Time for Melanoma in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6n</u>	Counts of Patients by Pre and Post Index Follow-up Time for Non-Hodgkin's Lymphoma in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6o</u>	Counts of Patients by Pre and Post Index Follow-up Time for Other Endocrine Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6p</u>	Counts of Patients by Pre and Post Index Follow-up Time for Pancreatic Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6q</u>	Counts of Patients by Pre and Post Index Follow-up Time for Prostate Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6r</u>	Counts of Patients by Pre and Post Index Follow-up Time for Rectal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6s</u>	Counts of Patients by Pre and Post Index Follow-up Time for Thyroid Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Table 6t</u>	Counts of Patients by Pre and Post Index Follow-up Time for Urinary Bladder Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017
<u>Appendix A</u>	Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (March 29, 2018)
<u>Appendix B</u>	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 Exposures in this Request
<u>Appendix C</u>	Specifications Defining Parameters Used in this Request

**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 National Drug Code (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.

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

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

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

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

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

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

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

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

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

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

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

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

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Table 1a.1. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Number of data partners	8	9	9	9	10	10	11	12	15
Any Cancer Site									
Younger than 45	4	7,598	7,596	8,234	8,582	7,583	14,655	28,855	27,831
45-64	6	18,595	17,334	17,373	17,221	18,439	26,381	93,009	89,235
65 and older	17	26,843	21,959	20,799	19,964	22,569	29,464	99,751	104,513
All Ages ²	27	53,036	46,889	46,406	45,767	48,591	70,500	221,615	221,579
Site-Specific Cancer³									
Anus									
Younger than 45	0	53	55	50	28	60	44	249	261
45-64	0	163	187	187	187	219	230	1,105	1,123
65 and older	1	205	220	206	154	227	196	984	1,215
All Ages	1	421	462	443	369	506	470	2,338	2,599
Breast, Female⁴									
Younger than 45	1	1,672	1,824	2,337	2,710	2,451	8,537	5,823	7,388
45-64	1	5,590	5,094	5,060	5,173	5,579	10,232	21,700	25,984
65 and older	4	7,294	5,949	5,536	4,995	5,482	10,050	19,981	25,588
All Ages	6	14,556	12,867	12,933	12,878	13,512	28,819	47,504	58,960
Breast, Male⁴									
Younger than 45	0	21	21	19	6	11	9	65	67
45-64	0	49	46	50	54	43	55	250	243
65 and older	0	68	97	75	72	52	67	297	363
All Ages	0	138	164	144	132	106	131	612	673
Cervix									
Younger than 45	0	442	435	365	360	338	381	1,196	1,147
45-64	1	428	392	405	460	503	508	1,861	1,841
65 and older	0	269	333	242	252	265	258	1,002	1,240
All Ages	1	1,139	1,160	1,012	1,072	1,106	1,147	4,059	4,228

Table 1a.1. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	1	498	604	779	1,152	956	938	2,128	3,991
45-64	0	1,808	1,839	1,937	2,255	2,266	2,527	9,390	14,217
65 and older	3	4,275	4,001	3,737	3,877	3,934	3,844	13,787	20,135
All Ages	4	6,581	6,444	6,453	7,284	7,156	7,309	25,305	38,343
Uterus									
Younger than 45	0	231	229	216	345	265	277	821	915
45-64	0	840	777	753	848	1,003	1,001	3,733	3,911
65 and older	0	858	837	732	807	913	857	2,950	3,372
All Ages	0	1,929	1,843	1,701	2,000	2,181	2,135	7,504	8,198
Esophagus									
Younger than 45	0	133	136	276	216	184	486	520	473
45-64	0	317	342	480	411	433	973	1,824	1,712
65 and older	0	532	548	573	758	712	1,350	2,283	2,160
All Ages	0	982	1,026	1,329	1,385	1,329	2,809	4,627	4,345
Kidney and Pelvis									
Younger than 45	0	291	303	438	382	377	514	2,330	1,257
45-64	0	660	744	805	852	1,013	1,357	7,542	4,301
65 and older	0	1,114	1,075	1,106	1,207	1,317	1,741	8,540	5,594
All Ages	0	2,065	2,122	2,349	2,441	2,707	3,612	18,412	11,152
Leukemia									
Younger than 45	0	825	885	895	1,063	922	1,188	3,190	4,383
45-64	0	1,011	1,022	1,078	1,344	1,223	1,476	5,750	8,645
65 and older	1	1,921	2,055	1,952	2,041	1,873	1,881	7,185	11,588
All Ages	1	3,757	3,962	3,925	4,448	4,018	4,545	16,125	24,616
Liver and Intrahepatic Bile Duct									
Younger than 45	0	87	89	72	63	114	103	445	383
45-64	0	317	374	391	442	503	524	1,964	2,088
65 and older	1	490	480	475	526	570	558	1,844	2,322
All Ages	1	894	943	938	1,031	1,187	1,185	4,253	4,793

Table 1a.1. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	650	889	1,313	1,681	1,553	2,260	5,793	3,446
45-64	4	2,556	2,812	3,095	3,308	3,359	5,091	18,439	12,966
65 and older	4	5,235	5,285	5,263	5,531	5,896	7,344	25,805	21,898
All Ages	8	8,441	8,986	9,671	10,520	10,808	14,695	50,037	38,310
Melanoma									
Younger than 45	1	854	841	745	791	794	697	3,703	3,505
45-64	1	1,631	1,531	1,551	1,493	1,896	1,838	9,184	9,169
65 and older	0	1,522	1,589	1,571	1,548	1,824	1,538	8,004	9,806
All Ages	2	4,007	3,961	3,867	3,832	4,514	4,073	20,891	22,480
Non-Hodgkin's Lymphoma									
Younger than 45	0	1,127	1,187	1,335	1,609	1,492	1,702	4,080	4,359
45-64	0	1,470	1,667	1,684	2,093	2,025	2,604	7,415	8,046
65 and older	1	2,451	2,673	2,321	2,405	2,329	2,530	7,456	8,955
All Ages	1	5,048	5,527	5,340	6,107	5,846	6,836	18,951	21,360
Other Endocrine									
Younger than 45	0	204	155	193	179	195	188	936	967
45-64	0	258	193	197	187	248	249	1,384	1,566
65 and older	0	145	153	148	204	258	247	871	1,274
All Ages	0	607	501	538	570	701	684	3,191	3,807
Pancreas									
Younger than 45	1	126	95	226	357	443	524	670	610
45-64	0	356	422	526	662	813	842	2,509	2,574
65 and older	2	941	801	930	1,025	1,229	1,225	3,863	4,312
All Ages	3	1,423	1,318	1,682	2,044	2,485	2,591	7,042	7,496
Prostate⁴									
Younger than 45	2	631	720	983	1,237	870	930	2,369	1,977
45-64	0	3,077	2,949	3,185	3,419	3,290	3,939	17,875	16,406
65 and older	3	7,573	6,147	5,826	5,296	5,404	5,374	24,054	24,590
All Ages	5	11,281	9,816	9,994	9,952	9,564	10,243	44,298	42,973

Table 1a.1. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	263	292	307	490	526	616	1,271	1,210
45-64	0	1,101	1,012	1,049	1,244	1,306	1,336	6,081	5,785
65 and older	0	2,128	2,008	1,879	1,913	1,881	1,708	7,814	8,222
All Ages	0	3,492	3,312	3,235	3,647	3,713	3,660	15,166	15,217
Thyroid									
Younger than 45	0	406	402	388	475	581	566	2,133	2,109
45-64	0	530	472	559	584	799	864	3,474	3,546
65 and older	0	300	375	378	483	492	592	1,471	1,801
All Ages	0	1,236	1,249	1,325	1,542	1,872	2,022	7,078	7,456
Urinary Bladder									
Younger than 45	0	262	288	388	443	375	424	956	960
45-64	0	920	827	913	963	986	1,151	4,631	4,339
65 and older	0	2,277	2,163	1,942	1,996	2,073	1,994	8,655	9,021
All Ages	0	3,459	3,278	3,243	3,402	3,434	3,569	14,242	14,320

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 1a.2. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of data partners	15	15	15	16	16	16	15	13	11
Any Cancer Site									
Younger than 45	54,009	50,235	47,425	44,871	45,315	42,101	42,215	36,678	15,744
45-64	184,861	170,460	169,451	159,129	164,275	153,079	156,727	146,646	67,434
65 and older	211,603	176,537	173,749	168,518	176,310	167,122	166,029	156,497	78,977
All Ages ²	450,473	397,232	390,625	372,518	385,900	362,302	364,971	339,821	162,155
Site-Specific Cancer³									
Anus									
Younger than 45	423	444	379	406	390	334	326	288	128
45-64	2,476	2,319	2,333	2,273	2,323	2,289	2,211	1,785	866
65 and older	2,343	2,131	2,034	2,138	2,061	2,020	1,905	1,599	837
All Ages	5,242	4,894	4,746	4,817	4,774	4,643	4,442	3,672	1,831
Breast, Female⁴									
Younger than 45	11,255	10,884	10,312	9,642	10,132	9,866	9,614	8,086	3,597
45-64	46,794	42,082	41,725	39,365	41,546	38,556	39,248	35,902	16,086
65 and older	43,634	34,578	32,576	31,962	33,703	31,644	30,879	27,958	13,799
All Ages	101,683	87,544	84,613	80,969	85,381	80,066	79,741	71,946	33,482
Breast, Male⁴									
Younger than 45	222	208	179	180	201	168	185	193	74
45-64	645	633	703	663	745	627	720	871	378
65 and older	742	731	730	747	870	751	824	817	367
All Ages	1,609	1,572	1,612	1,590	1,816	1,546	1,729	1,881	819
Cervix									
Younger than 45	2,672	2,504	2,251	2,171	2,125	2,035	2,095	1,896	765
45-64	4,346	4,042	3,927	3,803	3,783	3,526	3,554	3,246	1,447
65 and older	2,504	2,394	2,446	2,418	2,539	2,322	2,258	2,017	1,010
All Ages	9,522	8,940	8,624	8,392	8,447	7,883	7,907	7,159	3,222

Table 1a.2. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	3,450	3,211	2,979	2,774	2,708	2,693	2,615	2,446	1,059
45-64	18,244	16,841	16,096	15,676	15,811	15,073	15,323	14,657	6,590
65 and older	29,117	24,551	24,057	23,142	24,131	22,423	21,526	20,297	10,062
All Ages	50,811	44,603	43,132	41,592	42,650	40,189	39,464	37,400	17,711
Uterus									
Younger than 45	1,796	1,723	1,584	1,443	1,529	1,494	1,514	1,421	585
45-64	8,311	8,178	8,291	7,959	8,424	8,127	8,284	8,018	3,782
65 and older	6,778	6,095	6,248	6,315	6,924	6,921	6,661	6,946	3,227
All Ages	16,885	15,996	16,123	15,717	16,877	16,542	16,459	16,385	7,594
Esophagus									
Younger than 45	598	746	440	415	405	411	366	294	118
45-64	2,961	3,091	2,805	2,593	2,706	2,488	2,745	2,323	1,065
65 and older	4,055	3,891	3,898	3,853	3,996	4,041	4,522	3,996	1,837
All Ages	7,614	7,728	7,143	6,861	7,107	6,940	7,633	6,613	3,020
Kidney and Pelvis									
Younger than 45	2,415	2,022	1,808	1,640	1,717	1,609	1,710	1,645	689
45-64	9,808	8,137	7,963	7,806	7,877	7,581	8,041	8,008	3,633
65 and older	12,312	9,891	10,024	10,236	10,588	10,414	10,514	10,332	4,960
All Ages	24,535	20,050	19,795	19,682	20,182	19,604	20,265	19,985	9,282
Leukemia									
Younger than 45	5,565	5,472	5,029	4,687	4,533	4,078	3,893	2,996	1,263
45-64	9,325	9,243	9,479	8,653	8,829	7,942	7,820	6,693	3,038
65 and older	12,643	11,800	12,277	12,254	12,672	12,096	11,721	10,424	5,113
All Ages	27,533	26,515	26,785	25,594	26,034	24,116	23,434	20,113	9,414
Liver and Intrahepatic Bile Duct									
Younger than 45	932	908	880	786	850	849	776	306	113
45-64	4,797	4,842	4,998	4,913	5,290	5,454	4,640	2,311	1,005
65 and older	4,974	4,809	5,099	5,463	5,821	6,061	5,390	3,174	1,584
All Ages	10,703	10,559	10,977	11,162	11,961	12,364	10,806	5,791	2,702

Table 1a.2. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	3,063	3,038	2,469	1,873	1,905	1,763	1,772	1,667	701
45-64	19,186	18,085	17,448	16,594	16,411	16,244	16,158	15,468	7,040
65 and older	37,056	33,958	33,994	34,111	35,851	34,994	34,458	32,625	16,601
All Ages	59,305	55,081	53,911	52,578	54,167	53,001	52,388	49,760	24,342
Melanoma									
Younger than 45	9,040	8,186	7,743	7,526	7,459	6,829	6,969	6,777	2,906
45-64	22,780	22,279	22,151	21,554	22,905	21,378	22,680	22,744	10,235
65 and older	23,857	22,279	23,136	22,645	24,593	24,289	24,548	23,883	11,616
All Ages	55,677	52,744	53,030	51,725	54,957	52,496	54,197	53,404	24,757
Non-Hodgkin's Lymphoma									
Younger than 45	8,463	8,141	7,406	6,813	6,610	6,059	6,261	4,814	1,974
45-64	16,222	15,486	15,105	14,216	14,385	13,729	13,685	11,262	5,029
65 and older	18,164	16,715	16,523	16,434	17,150	16,434	15,961	13,980	7,083
All Ages	42,849	40,342	39,034	37,463	38,145	36,222	35,907	30,056	14,086
Other Endocrine									
Younger than 45	2,322	2,041	1,919	1,683	1,589	1,356	1,276	962	335
45-64	3,229	3,053	2,843	2,650	2,460	2,232	2,117	1,809	651
65 and older	2,597	2,310	2,235	1,959	2,042	1,906	1,726	1,587	658
All Ages	8,148	7,404	6,997	6,292	6,091	5,494	5,119	4,358	1,644
Pancreas									
Younger than 45	951	941	852	751	779	701	695	680	298
45-64	5,012	4,945	5,038	5,022	5,110	4,863	4,862	4,686	2,158
65 and older	8,216	8,064	8,472	8,602	9,056	8,855	8,812	8,351	4,238
All Ages	14,179	13,950	14,362	14,375	14,945	14,419	14,369	13,717	6,694
Prostate⁴									
Younger than 45	2,680	2,681	2,019	1,569	1,383	1,094	1,049	945	403
45-64	34,747	31,760	32,174	27,132	27,166	23,599	24,820	24,607	11,879
65 and older	54,064	43,752	42,784	38,072	38,704	34,016	35,009	34,308	17,969
All Ages	91,491	78,193	76,977	66,773	67,253	58,709	60,878	59,860	30,251

Table 1a.2. Annual Number of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	1,890	1,793	1,497	1,393	1,384	1,308	1,260	1,092	574
45-64	10,852	9,768	8,689	7,931	8,108	7,753	7,649	6,980	3,198
65 and older	15,636	12,773	10,687	9,727	9,680	9,019	8,222	7,182	3,677
All Ages	28,378	24,334	20,873	19,051	19,172	18,080	17,131	15,254	7,449
Thyroid									
Younger than 45	5,434	5,163	5,085	5,093	5,383	4,980	5,064	4,769	2,068
45-64	8,924	8,575	8,420	8,207	8,702	8,010	8,010	7,642	3,398
65 and older	3,886	3,699	3,669	3,750	4,021	3,940	3,920	3,692	1,774
All Ages	18,244	17,437	17,174	17,050	18,106	16,930	16,994	16,103	7,240
Urinary Bladder									
Younger than 45	1,636	1,571	1,363	1,165	1,212	1,075	1,119	924	365
45-64	8,991	8,411	7,961	7,336	7,598	6,859	6,713	6,067	2,773
65 and older	19,743	17,094	17,074	16,940	17,667	16,667	15,987	14,355	7,152
All Ages	30,370	27,076	26,398	25,441	26,477	24,601	23,819	21,346	10,290

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 1b.1 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Number of data partners	8	9	9	9	10	10	11	12	15
Any Cancer Site									
Younger than 45	0	17.9	17.7	19.6	18.8	17.1	31.1	19.4	8.3
45-64	0	110.4	100.2	98.4	86.1	91.9	123.9	124.7	53.2
65 and older	0.3	349.1	283.9	265.3	234	265	335.9	385.5	164.8
All Ages ²	0	80.8	70.5	70.1	62.8	68	93.3	90.9	39.4
Site-Specific Cancer³									
Anus									
Younger than 45	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
45-64	0	1	1.1	1	0.9	1.1	1	1.4	0.6
65 and older	0	2.5	2.7	2.4	1.6	2.4	2	3.4	1.7
All Ages	0	0.6	0.7	0.7	0.5	0.7	0.6	0.9	0.5
Breast, Female⁴									
Younger than 45	0	3.9	4.3	5.5	5.9	5.5	18.1	3.9	2.2
45-64	0	32.8	29.1	28.2	25.3	27.2	46.9	28.6	15.1
65 and older	0.1	91.3	73.2	66.6	54.7	59.7	105.5	71.7	36.8
All Ages	0	22	19.2	19.3	17.4	18.6	37.4	19.2	10.3
Breast, Male⁴									
Younger than 45	0	0	0	0	0	0	0	0	0
45-64	0	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.1
65 and older	0	0.8	1.2	0.9	0.8	0.5	0.7	1	0.5
All Ages	0	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1
Cervix									
Younger than 45	0	1	1	0.9	0.8	0.8	0.8	0.8	0.3
45-64	0	2.5	2.2	2.2	2.2	2.4	2.3	2.4	1.1
65 and older	0	3.3	4	2.8	2.7	2.8	2.6	3.5	1.7
All Ages	0	1.7	1.7	1.5	1.4	1.5	1.5	1.6	0.7

Table 1b.1 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	0	1.2	1.4	1.8	2.5	2.1	2	1.4	1.2
45-64	0	10.6	10.4	10.7	10.9	10.9	11.5	12.2	8.2
65 and older	0	53	48.6	44.3	41.8	42.1	39.6	48.6	28.5
All Ages	0	9.9	9.6	9.6	9.8	9.8	9.4	10.2	6.7
Uterus									
Younger than 45	0	0.5	0.5	0.5	0.8	0.6	0.6	0.6	0.3
45-64	0	4.9	4.4	4.2	4.1	4.8	4.5	4.9	2.3
65 and older	0	10.6	10.1	8.6	8.6	9.7	8.7	10.3	4.7
All Ages	0	2.9	2.7	2.5	2.7	3	2.8	3	1.4
Esophagus									
Younger than 45	0	0.3	0.3	0.7	0.5	0.4	1	0.3	0.1
45-64	0	1.8	1.9	2.6	2	2.1	4.4	2.4	1
65 and older	0	6.6	6.6	6.7	8.1	7.5	13.7	8	3
All Ages	0	1.5	1.5	2	1.9	1.8	3.6	1.9	0.8
Kidney and Pelvis									
Younger than 45	0	0.7	0.7	1	0.8	0.8	1.1	1.6	0.4
45-64	0	3.8	4.2	4.4	4.1	4.9	6.1	9.8	2.5
65 and older	0	13.8	13	13	12.9	14	17.7	29.9	7.9
All Ages	0	3.1	3.1	3.5	3.3	3.7	4.7	7.4	1.9
Leukemia									
Younger than 45	0	1.9	2.1	2.1	2.3	2.1	2.5	2.1	1.3
45-64	0	5.9	5.8	5.9	6.5	5.9	6.7	7.5	5
65 and older	0	23.8	24.9	23	21.9	19.9	19.2	25.2	16.3
All Ages	0	5.7	5.9	5.8	6	5.5	5.9	6.5	4.3
Liver and Intrahepatic Bile Duct									
Younger than 45	0	0.2	0.2	0.2	0.1	0.3	0.2	0.3	0.1
45-64	0	1.8	2.1	2.2	2.1	2.4	2.4	2.6	1.2
65 and older	0	6	5.8	5.6	5.6	6	5.7	6.4	3.2
All Ages	0	1.3	1.4	1.4	1.4	1.6	1.5	1.7	0.8

Table 1b.1 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	1.5	2.1	3.1	3.7	3.5	4.8	3.9	1
45-64	0	14.9	15.9	17.1	16.1	16.2	23.1	24.1	7.5
65 and older	0.1	64.9	64.2	62.3	59.6	63.1	75.6	91	31
All Ages	0	12.7	13.3	14.4	14.1	14.8	19	20.1	6.7
Melanoma									
Younger than 45	0	2	2	1.8	1.7	1.8	1.5	2.5	1
45-64	0	9.5	8.7	8.6	7.2	9.1	8.3	12	5.3
65 and older	0	18.8	19.2	18.5	16.6	19.4	15.7	28.1	13.8
All Ages	0	6	5.9	5.7	5.1	6.2	5.3	8.4	3.9
Non-Hodgkin's Lymphoma									
Younger than 45	0	2.6	2.8	3.2	3.5	3.3	3.6	2.7	1.3
45-64	0	8.6	9.4	9.3	10.2	9.8	11.8	9.7	4.6
65 and older	0	30.3	32.4	27.4	25.8	24.8	25.9	26.2	12.6
All Ages	0	7.6	8.2	7.9	8.2	8	8.8	7.6	3.7
Other Endocrine									
Younger than 45	0	0.5	0.4	0.5	0.4	0.4	0.4	0.6	0.3
45-64	0	1.5	1.1	1.1	0.9	1.2	1.1	1.8	0.9
65 and older	0	1.8	1.8	1.7	2.2	2.7	2.5	3	1.8
All Ages	0	0.9	0.7	0.8	0.8	1	0.9	1.3	0.7
Pancreas									
Younger than 45	0	0.3	0.2	0.5	0.8	1	1.1	0.4	0.2
45-64	0	2.1	2.4	2.9	3.2	3.9	3.8	3.3	1.5
65 and older	0	11.6	9.7	10.9	10.9	13	12.5	13.5	6
All Ages	0	2.1	2	2.5	2.7	3.4	3.3	2.8	1.3
Prostate⁴									
Younger than 45	0	1.5	1.7	2.3	2.7	1.9	2	1.6	0.6
45-64	0	18	16.7	17.6	16.6	15.9	17.9	23.4	9.5
65 and older	0	94.8	75.7	70.1	58.1	58.9	56.5	86.6	35.8
All Ages	0	17	14.6	14.9	13.4	13.1	13.3	17.9	7.5

Table 1b.1 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	0.6	0.7	0.7	1.1	1.2	1.3	0.9	0.4
45-64	0	6.4	5.7	5.8	6	6.3	6.1	7.9	3.3
65 and older	0	26.3	24.3	22.2	20.5	20	17.5	27.4	11.6
All Ages	0	5.3	4.9	4.8	4.9	5.1	4.7	6.1	2.6
Thyroid									
Younger than 45	0	1	0.9	0.9	1	1.3	1.2	1.4	0.6
45-64	0	3.1	2.7	3.1	2.8	3.8	3.9	4.5	2
65 and older	0	3.7	4.5	4.4	5.2	5.2	6	5.1	2.5
All Ages	0	1.9	1.9	2	2.1	2.6	2.6	2.8	1.3
Urinary Bladder									
Younger than 45	0	0.6	0.7	0.9	1	0.8	0.9	0.6	0.3
45-64	0	5.4	4.7	5	4.7	4.8	5.2	6	2.5
65 and older	0	28.2	26.2	22.9	21.4	22.1	20.4	30.4	12.7
All Ages	0	5.2	4.9	4.8	4.6	4.7	4.6	5.7	2.5

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 1b.2 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of data partners	15	15	15	16	16	16	15	13	11
Any Cancer Site									
Younger than 45	15.7	14.9	14	11.7	12.6	11.9	11.8	9.4	5.2
45-64	106.7	98.4	96.3	81.7	89.5	84.6	85.3	73	41.1
65 and older	323.5	279.3	262.1	216.9	235.5	219.9	216.2	192.1	116
All Ages ²	78.8	70.6	68.7	57.7	63.8	60.4	60.2	51.5	30.6
Site-Specific Cancer³									
Anus									
Younger than 45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	1.4	1.3	1.3	1.1	1.2	1.2	1.2	0.9	0.5
65 and older	3.2	3	2.7	2.4	2.4	2.3	2.2	1.7	1.1
All Ages	0.9	0.8	0.8	0.7	0.8	0.7	0.7	0.5	0.3
Breast, Female⁴									
Younger than 45	3.3	3.2	3	2.5	2.8	2.8	2.7	2.1	1.2
45-64	26.4	23.7	23.1	19.6	22	20.7	20.7	17.3	9.5
65 and older	61.6	50	44.6	37.2	40.6	37.4	36.1	30.8	18.1
All Ages	17.5	15.3	14.6	12.3	13.8	13	12.8	10.6	6.1
Breast, Male⁴									
Younger than 45	0.1	0.1	0.1	0	0.1	0	0.1	0	0
45-64	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.2
65 and older	1	1	1	0.8	1	0.9	0.9	0.9	0.5
All Ages	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.1
Cervix									
Younger than 45	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.3
45-64	2.4	2.3	2.1	1.9	2	1.9	1.9	1.5	0.8
65 and older	3.4	3.4	3.3	2.7	3	2.7	2.6	2.2	1.3
All Ages	1.6	1.5	1.5	1.3	1.4	1.3	1.3	1	0.6

Table 1b.2 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	1	0.9	0.9	0.7	0.8	0.8	0.7	0.6	0.3
45-64	10.2	9.4	8.8	7.7	8.3	8	8	7	3.8
65 and older	40.4	34.9	32.4	26.4	28.5	26	24.7	22	12.9
All Ages	8.7	7.7	7.4	6.3	6.8	6.5	6.3	5.5	3.2
Uterus									
Younger than 45	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.2
45-64	4.6	4.6	4.5	3.9	4.4	4.3	4.3	3.8	2.2
65 and older	9.3	8.6	8.3	7.1	8.1	8	7.6	7.5	4.1
All Ages	2.9	2.8	2.8	2.4	2.7	2.7	2.6	2.4	1.4
Esophagus									
Younger than 45	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	1.7	1.7	1.5	1.3	1.4	1.3	1.4	1.1	0.6
65 and older	5.6	5.5	5.2	4.4	4.7	4.6	5.1	4.3	2.3
All Ages	1.3	1.3	1.2	1	1.1	1.1	1.2	1	0.5
Kidney and Pelvis									
Younger than 45	0.7	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.2
45-64	5.5	4.5	4.4	3.9	4.1	4	4.2	3.8	2.1
65 and older	17	14	13.4	11.6	12.4	12	12	11.1	6.3
All Ages	4.2	3.5	3.4	3	3.2	3.2	3.2	2.9	1.7
Leukemia									
Younger than 45	1.6	1.6	1.5	1.2	1.3	1.1	1.1	0.8	0.4
45-64	5.2	5.2	5.2	4.3	4.6	4.2	4.1	3.2	1.8
65 and older	17.5	16.7	16.4	13.9	14.9	13.9	13.4	11.2	6.5
All Ages	4.7	4.6	4.6	3.9	4.2	3.9	3.7	3	1.7
Liver and Intrahepatic Bile Duct									
Younger than 45	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0
45-64	2.7	2.7	2.7	2.4	2.8	2.9	2.4	1.1	0.6
65 and older	6.8	6.8	6.8	6.2	6.8	6.9	6.1	3.4	2
All Ages	1.8	1.8	1.9	1.7	1.9	2	1.7	0.8	0.5

Table 1b.2 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	0.9	0.9	0.7	0.5	0.5	0.5	0.5	0.4	0.2
45-64	10.7	10.1	9.6	8.2	8.6	8.6	8.4	7.4	4.1
65 and older	51.5	48.2	45.7	38.9	42.3	40.5	39.5	35.3	21.2
All Ages	10.1	9.5	9.2	7.9	8.7	8.6	8.4	7.3	4.4
Melanoma									
Younger than 45	2.6	2.4	2.3	1.9	2.1	1.9	1.9	1.7	1
45-64	12.8	12.4	12.1	10.7	12	11.4	11.9	10.9	6
65 and older	33	31.5	31	25.8	29	28.2	28.2	25.9	15
All Ages	9.5	9.1	9.1	7.8	8.8	8.5	8.7	7.9	4.5
Non-Hodgkin's Lymphoma									
Younger than 45	2.4	2.4	2.2	1.8	1.8	1.7	1.7	1.2	0.6
45-64	9.1	8.7	8.3	7	7.5	7.3	7.1	5.4	2.9
65 and older	25.1	23.7	22.1	18.7	20.2	19	18.3	15.1	9.1
All Ages	7.3	7	6.7	5.6	6.1	5.9	5.7	4.4	2.6
Other Endocrine									
Younger than 45	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.1
45-64	1.8	1.7	1.6	1.3	1.3	1.2	1.1	0.9	0.4
65 and older	3.6	3.2	3	2.2	2.4	2.2	2	1.7	0.8
All Ages	1.4	1.3	1.2	0.9	1	0.9	0.8	0.6	0.3
Pancreas									
Younger than 45	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1
45-64	2.8	2.8	2.8	2.5	2.7	2.6	2.5	2.2	1.3
65 and older	11.3	11.3	11.3	9.7	10.6	10.2	10	8.9	5.4
All Ages	2.4	2.4	2.5	2.2	2.4	2.3	2.3	2	1.2
Prostate⁴									
Younger than 45	0.8	0.8	0.6	0.4	0.4	0.3	0.3	0.2	0.1
45-64	19.5	17.8	17.7	13.5	14.3	12.6	13	11.8	7
65 and older	76.9	63.7	59.1	44.7	46.9	40.5	41.2	38.1	23.7
All Ages	15.7	13.6	13.2	10.1	10.8	9.5	9.8	8.8	5.5

Table 1b.2 Annual Rate Per 10,000 Eligible Members of New Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.2
45-64	6.1	5.4	4.8	3.9	4.2	4.1	4	3.3	1.9
65 and older	21.6	18	14.3	11	11.3	10.4	9.4	7.7	4.7
All Ages	4.9	4.2	3.6	2.9	3.1	2.9	2.7	2.2	1.4
Thyroid									
Younger than 45	1.6	1.5	1.5	1.3	1.5	1.4	1.4	1.2	0.7
45-64	5	4.8	4.6	4.1	4.6	4.2	4.2	3.6	2
65 and older	5.3	5.2	4.9	4.2	4.7	4.5	4.5	4	2.3
All Ages	3.1	3	2.9	2.6	2.9	2.7	2.7	2.4	1.3
Urinary Bladder									
Younger than 45	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.1
45-64	5	4.7	4.4	3.6	4	3.6	3.5	2.9	1.6
65 and older	27.3	24.2	22.9	19.3	20.8	19.3	18.3	15.5	9.2
All Ages	5.2	4.7	4.5	3.8	4.2	4	3.8	3.1	1.9

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 2a.1. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Any Cancer Site									
Younger than 45	1	2,559	2,567	2,727	2,952	2,715	6,426	10,527	10,164
45-64	2	8,009	7,571	7,702	7,724	8,077	11,780	42,696	41,305
65 and older	6	13,299	10,806	10,278	10,060	10,907	12,723	46,826	50,724
All Ages ²	9	23,867	20,944	20,707	20,736	21,699	30,929	100,049	102,193
Site-Specific Cancer³									
Anus									
Younger than 45	0	26	28	26	14	32	26	125	107
45-64	0	89	97	86	91	94	96	530	567
65 and older	0	82	88	81	74	112	84	436	533
All Ages	0	197	213	193	179	238	206	1,091	1,207
Breast, Female⁴									
Younger than 45	0	269	373	525	656	591	3,927	736	1,456
45-64	0	351	394	515	655	592	2,502	1,235	3,200
65 and older	1	951	911	748	683	551	1,838	915	2,487
All Ages	1	1,571	1,678	1,788	1,994	1,734	8,267	2,886	7,143
Breast, Male⁴									
Younger than 45	0	14	13	8	1	7	7	54	51
45-64	0	30	29	43	44	29	42	213	196
65 and older	0	56	78	63	58	44	53	274	319
All Ages	0	100	120	114	103	80	102	541	566
Cervix									
Younger than 45	0	10	15	10	4	10	7	15	28
45-64	0	16	16	22	8	14	20	28	40
65 and older	0	16	59	24	21	18	16	27	53
All Ages	0	42	90	56	33	42	43	70	121

Table 2a.1. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	0	206	245	269	410	351	353	936	1,675
45-64	0	933	952	927	1,086	1,087	1,190	4,703	6,624
65 and older	0	1,954	1,699	1,647	1,740	1,700	1,639	6,117	8,050
All Ages	0	3,093	2,896	2,843	3,236	3,138	3,182	11,756	16,349
Uterus									
Younger than 45	0	20	31	20	52	40	34	54	98
45-64	0	30	24	27	67	40	37	83	167
65 and older	0	95	93	56	85	60	42	83	133
All Ages	0	145	148	103	204	140	113	220	398
Esophagus									
Younger than 45	0	57	51	88	84	84	242	246	230
45-64	0	222	215	301	254	270	507	1,146	1,161
65 and older	0	307	294	332	418	407	605	1,197	1,326
All Ages	0	586	560	721	756	761	1,354	2,589	2,717
Kidney and Pelvis									
Younger than 45	0	136	130	165	159	161	229	1,031	566
45-64	0	369	431	405	495	568	726	3,879	2,457
65 and older	0	594	549	561	609	656	747	3,807	3,120
All Ages	0	1,099	1,110	1,131	1,263	1,385	1,702	8,717	6,143
Leukemia									
Younger than 45	0	355	382	379	433	384	467	1,463	1,990
45-64	0	494	492	498	636	587	720	2,815	4,000
65 and older	0	892	899	866	926	862	825	3,177	4,644
All Ages	0	1,741	1,773	1,743	1,995	1,833	2,012	7,455	10,634
Liver and Intrahepatic Bile Duct									
Younger than 45	0	43	49	32	30	43	56	190	180
45-64	0	203	236	229	306	321	341	1,178	1,250
65 and older	0	244	239	246	264	302	306	973	1,248
All Ages	0	490	524	507	600	666	703	2,341	2,678

Table 2a.1. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	258	341	486	578	568	917	2,427	1,444
45-64	2	1,257	1,329	1,472	1,489	1,545	2,295	8,254	6,172
65 and older	2	2,537	2,577	2,499	2,551	2,703	3,001	10,387	9,988
All Ages	4	4,052	4,247	4,457	4,618	4,816	6,213	21,068	17,604
Melanoma									
Younger than 45	0	318	278	263	306	279	218	1,357	1,270
45-64	1	856	775	771	755	959	916	4,599	4,609
65 and older	0	857	873	824	880	1,047	884	4,689	5,736
All Ages	1	2,031	1,926	1,858	1,941	2,285	2,018	10,645	11,615
Non-Hodgkin's Lymphoma									
Younger than 45	0	503	517	556	667	615	662	1,987	2,038
45-64	0	726	797	857	960	932	1,239	3,770	4,039
65 and older	1	1,057	1,172	1,031	1,031	1,081	1,111	3,682	4,257
All Ages	1	2,286	2,486	2,444	2,658	2,628	3,012	9,439	10,334
Other Endocrine									
Younger than 45	0	83	62	76	84	86	75	346	377
45-64	0	101	77	67	87	93	101	547	618
65 and older	0	64	56	63	82	88	91	386	551
All Ages	0	248	195	206	253	267	267	1,279	1,546
Pancreas									
Younger than 45	0	55	39	83	143	149	181	275	260
45-64	0	189	229	253	319	386	405	1,251	1,305
65 and older	1	406	359	405	466	533	529	1,676	1,963
All Ages	1	650	627	741	928	1,068	1,115	3,202	3,528
Prostate⁴									
Younger than 45	1	312	303	387	464	381	356	1,318	1,164
45-64	0	2,805	2,617	2,733	2,786	2,818	3,448	16,039	15,175
65 and older	3	6,535	5,117	5,070	4,558	4,753	4,924	21,607	23,260
All Ages	4	9,652	8,037	8,190	7,808	7,952	8,728	38,964	39,599

Table 2a.1. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	107	134	126	180	189	209	559	552
45-64	0	586	526	533	602	652	641	3,118	2,916
65 and older	0	1,008	905	827	860	831	786	3,507	3,775
All Ages	0	1,701	1,565	1,486	1,642	1,672	1,636	7,184	7,243
Thyroid									
Younger than 45	0	73	78	68	106	141	141	417	423
45-64	0	136	126	162	163	243	271	930	967
65 and older	0	91	129	139	158	159	187	454	602
All Ages	0	300	333	369	427	543	599	1,801	1,992
Urinary Bladder									
Younger than 45	0	108	120	162	178	156	149	476	463
45-64	0	609	526	524	552	612	710	2,938	2,754
65 and older	0	1,480	1,354	1,218	1,281	1,301	1,361	5,795	6,307
All Ages	0	2,197	2,000	1,904	2,011	2,069	2,220	9,209	9,524

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 2a.2. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Any Cancer Site									
Younger than 45	18,353	16,808	15,914	14,731	14,506	13,354	13,296	11,245	4,905
45-64	84,896	78,827	78,717	72,458	74,427	68,425	70,488	66,267	31,054
65 and older	110,862	92,942	92,349	87,958	91,397	85,884	86,398	82,088	41,969
All Ages ²	214,111	188,577	186,980	175,147	180,330	167,663	170,182	159,600	77,928
Site-Specific Cancer³									
Anus									
Younger than 45	219	222	194	210	195	182	161	139	73
45-64	1,215	1,103	1,136	1,100	1,127	1,099	1,022	780	395
65 and older	1,129	994	989	1,028	999	964	899	721	385
All Ages	2,563	2,319	2,319	2,338	2,321	2,245	2,082	1,640	853
Breast, Female⁴									
Younger than 45	605	713	465	234	255	222	187	150	76
45-64	1,394	1,361	1,200	993	1,058	869	704	684	316
65 and older	1,122	1,226	930	769	751	629	535	413	185
All Ages	3,121	3,300	2,595	1,996	2,064	1,720	1,426	1,247	577
Breast, Male⁴									
Younger than 45	163	146	131	128	141	112	125	98	33
45-64	497	451	515	487	543	497	444	387	169
65 and older	623	617	628	635	745	635	670	600	267
All Ages	1,283	1,214	1,274	1,250	1,429	1,244	1,239	1,085	469
Cervix									
Younger than 45	51	49	40	32	26	23	17	20	7
45-64	134	125	110	99	101	86	72	37	19
65 and older	151	145	121	104	128	75	57	16	8
All Ages	336	319	271	235	255	184	146	73	34

Table 2a.2. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	1,575	1,470	1,345	1,288	1,213	1,268	1,178	1,052	491
45-64	9,367	8,455	8,230	7,947	8,198	7,787	7,884	7,520	3,409
65 and older	14,135	12,088	11,921	11,357	11,942	11,181	10,717	10,079	4,980
All Ages	25,077	22,013	21,496	20,592	21,353	20,236	19,779	18,651	8,880
Uterus									
Younger than 45	81	80	69	29	22	33	27	24	13
45-64	127	167	119	101	96	85	96	80	32
65 and older	146	149	126	100	90	85	65	58	25
All Ages	354	396	314	230	208	203	188	162	70
Esophagus									
Younger than 45	299	329	234	219	208	230	219	181	73
45-64	2,094	2,084	1,999	1,834	1,912	1,767	2,006	1,670	751
65 and older	2,818	2,686	2,708	2,698	2,853	2,832	3,122	2,816	1,318
All Ages	5,211	5,099	4,941	4,751	4,973	4,829	5,347	4,667	2,142
Kidney and Pelvis									
Younger than 45	1,170	1,039	960	844	931	821	898	836	368
45-64	5,745	4,941	4,814	4,806	4,888	4,660	4,894	4,810	2,208
65 and older	7,163	6,053	6,182	6,302	6,640	6,475	6,410	6,250	3,000
All Ages	14,078	12,033	11,956	11,952	12,459	11,956	12,202	11,896	5,576
Leukemia									
Younger than 45	2,611	2,597	2,381	2,195	2,189	1,973	1,946	1,534	666
45-64	4,782	4,787	4,996	4,615	4,739	4,154	4,252	3,665	1,650
65 and older	6,736	6,304	6,550	6,746	6,950	6,696	6,522	5,773	2,887
All Ages	14,129	13,688	13,927	13,556	13,878	12,823	12,720	10,972	5,203
Liver and Intrahepatic Bile Duct									
Younger than 45	394	403	387	343	382	420	355	119	50
45-64	2,893	2,937	2,968	3,014	3,181	3,339	2,753	1,377	597
65 and older	2,733	2,706	2,859	3,049	3,286	3,482	3,141	1,900	910
All Ages	6,020	6,046	6,214	6,406	6,849	7,241	6,249	3,396	1,557

Table 2a.2. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	1,312	1,239	1,061	802	789	714	721	674	274
45-64	9,286	8,731	8,350	7,958	7,884	7,809	7,835	7,427	3,382
65 and older	19,029	17,291	17,517	17,566	18,268	17,820	17,558	16,774	8,481
All Ages	29,627	27,261	26,928	26,326	26,941	26,343	26,114	24,875	12,137
Melanoma									
Younger than 45	3,289	2,922	2,939	2,749	2,697	2,532	2,456	2,366	1,019
45-64	11,483	11,348	11,453	10,899	11,786	10,950	11,471	11,519	5,203
65 and older	14,505	13,622	14,345	14,095	15,164	14,937	15,206	14,776	7,207
All Ages	29,277	27,892	28,737	27,743	29,647	28,419	29,133	28,661	13,429
Non-Hodgkin's Lymphoma									
Younger than 45	4,155	3,886	3,681	3,426	3,275	3,062	3,207	2,398	1,033
45-64	8,372	8,006	7,707	7,383	7,598	7,265	7,151	5,981	2,727
65 and older	9,392	8,651	8,641	8,641	9,096	8,869	8,520	7,593	3,880
All Ages	21,919	20,543	20,029	19,450	19,969	19,196	18,878	15,972	7,640
Other Endocrine									
Younger than 45	947	811	769	679	648	573	506	381	151
45-64	1,304	1,269	1,111	1,106	1,037	955	921	823	323
65 and older	1,135	997	984	864	909	857	809	781	339
All Ages	3,386	3,077	2,864	2,649	2,594	2,385	2,236	1,985	813
Pancreas									
Younger than 45	431	388	386	362	364	312	296	274	122
45-64	2,617	2,589	2,631	2,693	2,719	2,558	2,604	2,443	1,112
65 and older	4,093	4,040	4,300	4,319	4,595	4,506	4,478	4,242	2,193
All Ages	7,141	7,017	7,317	7,374	7,678	7,376	7,378	6,959	3,427
Prostate⁴									
Younger than 45	2,134	1,952	1,657	1,457	1,301	1,032	983	849	365
45-64	33,876	30,839	31,451	26,713	26,809	23,250	24,513	24,293	11,726
65 and older	53,158	42,820	42,099	37,628	38,327	33,688	34,760	34,067	17,856
All Ages	89,168	75,611	75,207	65,798	66,437	57,970	60,256	59,209	29,947

Table 2a.2. Annual Number of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	909	827	737	680	669	641	632	532	288
45-64	5,689	5,103	4,534	4,181	4,299	4,098	4,108	3,686	1,755
65 and older	7,842	6,504	5,494	4,972	5,074	4,634	4,335	3,848	1,961
All Ages	14,440	12,434	10,765	9,833	10,042	9,373	9,075	8,066	4,004
Thyroid									
Younger than 45	1,053	997	1,025	1,016	1,103	1,067	1,025	974	461
45-64	2,314	2,192	2,172	2,156	2,262	2,096	2,141	1,993	894
65 and older	1,347	1,263	1,312	1,275	1,363	1,414	1,352	1,232	623
All Ages	4,714	4,452	4,509	4,447	4,728	4,577	4,518	4,199	1,978
Urinary Bladder									
Younger than 45	875	842	727	673	697	610	662	576	232
45-64	6,009	5,668	5,358	4,970	5,096	4,659	4,697	4,235	1,955
65 and older	14,368	12,450	12,427	12,454	13,024	12,184	11,773	10,613	5,361
All Ages	21,252	18,960	18,512	18,097	18,817	17,453	17,132	15,424	7,548

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 2b.1. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Any Cancer Site									
Younger than 45	0	12.6	12.5	13.5	13.5	12.8	28.5	14.3	6.1
45-64	0	100.6	92.6	92.2	81.6	85.1	116.8	118.3	51
65 and older	0.2	422	342.3	321.5	288.7	313.4	353.4	432.3	186.8
All Ages ²	0	77.4	67.1	66.6	60.6	64.7	87.1	84.9	37.6
Site-Specific Cancer³									
Anus									
Younger than 45	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
45-64	0	1.1	1.2	1	0.9	1	0.9	1.4	0.7
65 and older	0	2.4	2.6	2.3	1.9	2.8	2	3.6	1.7
All Ages	0	0.6	0.7	0.6	0.5	0.7	0.6	0.9	0.4
Breast, Female⁴									
Younger than 45	0	1.3	1.8	2.6	3	2.8	17.3	1	0.9
45-64	0	4.4	4.7	6	6.8	6.1	24.1	3.3	3.8
65 and older	0	28.3	26.6	21.3	17.6	14.1	44.8	7.5	7.9
All Ages	0	5	5.3	5.7	5.7	5.1	22.7	2.4	2.6
Breast, Male⁴									
Younger than 45	0	0.1	0.1	0	0	0	0	0.1	0
45-64	0	0.4	0.3	0.5	0.5	0.3	0.4	0.6	0.2
65 and older	0	1.7	2.3	1.8	1.5	1.1	1.3	2.2	1
All Ages	0	0.3	0.4	0.4	0.3	0.2	0.3	0.4	0.2
Cervix									
Younger than 45	0	0	0.1	0	0	0	0	0	0
45-64	0	0.2	0.2	0.3	0.1	0.1	0.2	0.1	0
65 and older	0	0.5	1.7	0.7	0.5	0.5	0.4	0.2	0.2
All Ages	0	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0

Table 2b.1. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	0	1	1.2	1.3	1.9	1.6	1.6	1.3	1
45-64	0	11.6	11.5	10.9	11.2	11.2	11.5	12.8	8
65 and older	0	58.4	49.9	47.1	45.1	43.7	40.3	50.4	25.8
All Ages	0	9.9	9.2	9	9.3	9.2	8.8	9.8	5.9
Uterus									
Younger than 45	0	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1
45-64	0	0.4	0.3	0.3	0.7	0.4	0.4	0.2	0.2
65 and older	0	2.8	2.7	1.6	2.2	1.5	1	0.7	0.4
All Ages	0	0.5	0.5	0.3	0.6	0.4	0.3	0.2	0.1
Esophagus									
Younger than 45	0	0.3	0.2	0.4	0.4	0.4	1.1	0.3	0.1
45-64	0	2.8	2.6	3.5	2.6	2.8	4.9	3.1	1.4
65 and older	0	9.1	8.6	9.4	10.7	10.3	14.7	9.8	4.2
All Ages	0	1.9	1.8	2.3	2.2	2.2	3.7	2.2	1
Kidney and Pelvis									
Younger than 45	0	0.7	0.6	0.8	0.7	0.8	1	1.4	0.3
45-64	0	4.6	5.2	4.8	5.1	5.8	7	10.5	3
65 and older	0	17.7	16	15.9	15.6	16.7	18.2	31.2	9.9
All Ages	0	3.5	3.5	3.6	3.6	4	4.7	7.3	2.2
Leukemia									
Younger than 45	0	1.7	1.9	1.9	2	1.8	2.1	2	1.2
45-64	0	6.1	5.9	5.8	6.6	6	6.9	7.6	4.8
65 and older	0	26.6	26.3	24.7	23.9	22	20.1	26.1	14.8
All Ages	0	5.6	5.6	5.5	5.7	5.3	5.5	6.2	3.8
Liver and Intrahepatic Bile Duct									
Younger than 45	0	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.1
45-64	0	2.5	2.8	2.7	3.2	3.3	3.3	3.2	1.5
65 and older	0	7.3	7	7	6.8	7.7	7.4	7.9	4
All Ages	0	1.6	1.7	1.6	1.7	1.9	1.9	1.9	1

Table 2b.1. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	1.3	1.7	2.4	2.6	2.7	4	3.3	0.9
45-64	0	15.6	16	17.3	15.4	15.9	22.2	22.4	7.4
65 and older	0.1	75.9	75.7	71.5	66	69.3	73.6	85.5	32
All Ages	0	13	13.4	14.1	13.2	14.1	17.1	17.5	6.3
Melanoma									
Younger than 45	0	1.6	1.4	1.3	1.4	1.3	1	1.8	0.8
45-64	0	10.6	9.3	9.1	7.8	9.9	8.8	12.5	5.5
65 and older	0	25.5	25.5	23.5	22.7	26.7	21.6	38.4	18.3
All Ages	0	6.5	6.1	5.9	5.6	6.7	5.6	8.9	4.2
Non-Hodgkin's Lymphoma									
Younger than 45	0	2.5	2.5	2.8	3	2.9	2.9	2.7	1.2
45-64	0	9	9.6	10.1	9.9	9.6	12	10.2	4.9
65 and older	0	31.6	34.3	29.4	26.6	27.7	27.2	30.3	13.6
All Ages	0	7.3	7.9	7.7	7.6	7.7	8.3	7.9	3.7
Other Endocrine									
Younger than 45	0	0.4	0.3	0.4	0.4	0.4	0.3	0.5	0.2
45-64	0	1.3	0.9	0.8	0.9	1	1	1.5	0.7
65 and older	0	1.9	1.6	1.8	2.1	2.2	2.2	3.1	1.7
All Ages	0	0.8	0.6	0.7	0.7	0.8	0.7	1.1	0.6
Pancreas									
Younger than 45	0	0.3	0.2	0.4	0.7	0.7	0.8	0.4	0.2
45-64	0	2.3	2.8	3	3.3	4	3.9	3.4	1.6
65 and older	0	12.1	10.5	11.5	11.9	13.5	12.8	13.7	6.2
All Ages	0	2.1	2	2.3	2.7	3.1	3.1	2.7	1.3
Prostate⁴									
Younger than 45	0	1.5	1.5	1.9	2.1	1.8	1.6	1.8	0.7
45-64	0	34.9	31.7	32.3	29	29.2	33.5	43.8	18.4
65 and older	0.1	201.6	156.2	151.7	124.3	129.1	128.6	189.2	80.6
All Ages	0	31.1	25.5	26.1	22.6	23.4	24.2	32.7	14.4

Table 2b.1. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	0.5	0.7	0.6	0.8	0.9	0.9	0.8	0.3
45-64	0	7.3	6.3	6.3	6.2	6.7	6.2	8.4	3.5
65 and older	0	30	26.5	23.5	22.1	21.2	19.1	28.7	12
All Ages	0	5.5	4.9	4.7	4.7	4.9	4.5	6	2.6
Thyroid									
Younger than 45	0	0.4	0.4	0.3	0.5	0.7	0.6	0.6	0.3
45-64	0	1.7	1.5	1.9	1.7	2.5	2.6	2.5	1.2
65 and older	0	2.7	3.8	3.9	4	4	4.5	3.7	1.9
All Ages	0	1	1.1	1.2	1.2	1.6	1.6	1.5	0.7
Urinary Bladder									
Younger than 45	0	0.5	0.6	0.8	0.8	0.7	0.7	0.6	0.3
45-64	0	7.6	6.3	6.2	5.7	6.3	6.8	8	3.3
65 and older	0	44.3	39.8	34.8	33.2	33.4	33.4	47.8	20.3
All Ages	0	7.1	6.3	6	5.8	6	6.1	7.7	3.4

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 2b.2. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Any Cancer Site									
Younger than 45	10.7	10	9.5	7.7	8.1	7.5	7.4	5.8	3.2
45-64	101.5	94.3	92.7	76.7	83.5	77.4	78.7	67.7	38.8
65 and older	393.2	339.4	320	259.2	280	258.7	256.7	228.8	139.5
All Ages ²	77.3	69.1	67.8	55.7	61.2	57.2	57.5	49.5	30
Site-Specific Cancer³									
Anus									
Younger than 45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	1.4	1.3	1.3	1.1	1.2	1.2	1.1	0.8	0.5
65 and older	3.5	3.1	2.9	2.6	2.6	2.5	2.3	1.7	1.1
All Ages	0.9	0.8	0.8	0.7	0.8	0.7	0.7	0.5	0.3
Breast, Female⁴									
Younger than 45	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0
45-64	1.6	1.6	1.4	1	1.1	0.9	0.8	0.7	0.4
65 and older	3.5	3.9	2.8	1.9	2	1.6	1.4	1	0.5
All Ages	1.1	1.2	0.9	0.6	0.7	0.6	0.5	0.4	0.2
Breast, Male⁴									
Younger than 45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.4	0.2
65 and older	1.9	2	1.9	1.6	1.9	1.6	1.7	1.4	0.7
All Ages	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.2
Cervix									
Younger than 45	0	0	0	0	0	0	0	0	0
45-64	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0	0
65 and older	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0	0
All Ages	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0

Table 2b.2. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	0.9	0.9	0.8	0.7	0.7	0.7	0.7	0.5	0.3
45-64	10.9	9.9	9.4	8.2	8.9	8.5	8.5	7.4	4.1
65 and older	44.4	38.6	35.9	28.9	31.5	29	27.4	24.2	14.1
All Ages	8.9	7.9	7.6	6.4	7	6.7	6.5	5.6	3.3
Uterus									
Younger than 45	0	0	0	0	0	0	0	0	0
45-64	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0
65 and older	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1
All Ages	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
Esophagus									
Younger than 45	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	2.4	2.4	2.3	1.9	2.1	1.9	2.2	1.6	0.9
65 and older	8.8	8.5	8.1	6.8	7.4	7.2	7.9	6.7	3.7
All Ages	1.8	1.8	1.7	1.5	1.6	1.6	1.7	1.4	0.8
Kidney and Pelvis									
Younger than 45	0.7	0.6	0.6	0.4	0.5	0.5	0.5	0.4	0.2
45-64	6.7	5.8	5.5	4.9	5.3	5.1	5.3	4.8	2.7
65 and older	22.4	19.2	18.5	16	17.4	16.7	16.3	14.9	8.5
All Ages	5	4.3	4.2	3.7	4.1	4	4	3.6	2.1
Leukemia									
Younger than 45	1.5	1.5	1.4	1.1	1.2	1.1	1.1	0.8	0.4
45-64	5.6	5.6	5.7	4.7	5.1	4.5	4.6	3.6	2
65 and older	21.1	20.1	19.6	17.1	18.3	17.3	16.6	13.8	8.1
All Ages	5	4.9	4.9	4.2	4.6	4.2	4.2	3.3	1.9
Liver and Intrahepatic Bile Duct									
Younger than 45	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0
45-64	3.4	3.4	3.4	3.1	3.4	3.6	3	1.4	0.7
65 and older	8.5	8.6	8.5	7.7	8.6	8.9	7.9	4.5	2.5
All Ages	2.1	2.2	2.2	2	2.3	2.4	2	1	0.6

Table 2b.2. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	0.8	0.7	0.6	0.4	0.4	0.4	0.4	0.3	0.2
45-64	10.8	10.2	9.5	8.2	8.6	8.5	8.5	7.3	4.1
65 and older	59.8	55.2	52.7	44.7	48.1	46.1	44.8	40.2	23.9
All Ages	10.5	9.8	9.5	8.2	8.9	8.7	8.6	7.5	4.5
Melanoma									
Younger than 45	1.9	1.7	1.7	1.4	1.5	1.4	1.4	1.2	0.7
45-64	13.4	13.2	13.1	11.2	12.8	12	12.4	11.4	6.3
65 and older	45.4	43.5	43.2	35.9	40.1	38.8	39.1	35.7	20.6
All Ages	10.3	10	10.2	8.6	9.8	9.4	9.6	8.6	5
Non-Hodgkin's Lymphoma									
Younger than 45	2.4	2.3	2.2	1.8	1.8	1.7	1.8	1.2	0.7
45-64	9.8	9.3	8.8	7.6	8.3	8	7.7	5.9	3.3
65 and older	29.5	27.6	26	22	24	22.9	21.7	18.2	11
All Ages	7.7	7.4	7.1	6	6.6	6.4	6.2	4.8	2.8
Other Endocrine									
Younger than 45	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.1
45-64	1.5	1.5	1.3	1.1	1.1	1	1	0.8	0.4
65 and older	3.5	3.2	2.9	2.2	2.4	2.2	2	1.9	0.9
All Ages	1.2	1.1	1	0.8	0.9	0.8	0.7	0.6	0.3
Pancreas									
Younger than 45	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
45-64	3	3	3	2.8	2.9	2.8	2.8	2.4	1.3
65 and older	12.8	12.8	12.8	10.9	12	11.5	11.3	10.1	6.1
All Ages	2.5	2.5	2.6	2.3	2.5	2.4	2.4	2.1	1.3
Prostate⁴									
Younger than 45	1.2	1.2	1	0.8	0.7	0.6	0.5	0.4	0.2
45-64	39.9	36.3	36.3	27.7	29.4	25.7	26.7	24.3	14.3
65 and older	178.5	146.9	136.3	103.3	109	94	95.5	87.9	54.6
All Ages	31.8	27.4	26.9	20.6	22.2	19.4	20	18	11.3

Table 2b.2. Annual Rate Per 10,000 Eligible Members of New Male Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.2
45-64	6.6	5.9	5.2	4.3	4.7	4.5	4.4	3.6	2.1
65 and older	24.5	20.7	16.4	12.6	13.3	11.9	11	9.2	5.5
All Ages	5.1	4.4	3.8	3	3.3	3.1	3	2.4	1.5
Thyroid									
Younger than 45	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.3
45-64	2.7	2.5	2.5	2.2	2.5	2.3	2.3	2	1.1
65 and older	4.2	4	3.9	3.2	3.6	3.6	3.4	2.9	1.7
All Ages	1.7	1.6	1.6	1.4	1.6	1.5	1.5	1.3	0.7
Urinary Bladder									
Younger than 45	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.2
45-64	7	6.6	6.1	5.1	5.5	5.1	5.1	4.2	2.4
65 and older	45.3	39.9	37.5	31.8	34.5	31.7	30.2	25.6	15.2
All Ages	7.5	6.8	6.5	5.6	6.2	5.8	5.6	4.6	2.8

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 3a.1. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Any Cancer Site									
Younger than 45	3	5,039	5,029	5,507	5,630	4,868	8,229	18,328	17,667
45-64	4	10,586	9,763	9,671	9,497	10,362	14,601	50,313	47,930
65 and older	11	13,544	11,153	10,521	9,904	11,662	16,741	52,925	53,789
All Ages ²	18	29,169	25,945	25,699	25,031	26,892	39,571	121,566	119,386
Site-Specific Cancer³									
Anus									
Younger than 45	0	27	27	24	14	28	18	124	154
45-64	0	74	90	101	96	125	134	575	556
65 and older	1	123	132	125	80	115	112	548	682
All Ages	1	224	249	250	190	268	264	1,247	1,392
Breast, Female⁴									
Younger than 45	1	1,403	1,451	1,812	2,054	1,860	4,610	5,087	5,932
45-64	1	5,239	4,700	4,545	4,518	4,987	7,730	20,465	22,784
65 and older	3	6,343	5,038	4,788	4,312	4,931	8,212	19,066	23,101
All Ages	5	12,985	11,189	11,145	10,884	11,778	20,552	44,618	51,817
Breast, Male⁴									
Younger than 45	0	7	8	11	5	4	2	11	16
45-64	0	19	17	7	10	14	13	37	47
65 and older	0	12	19	12	14	8	14	23	44
All Ages	0	38	44	30	29	26	29	71	107
Cervix									
Younger than 45	0	432	420	355	356	328	374	1,181	1,119
45-64	1	412	376	383	452	489	488	1,833	1,801
65 and older	0	253	274	218	231	247	242	975	1,187
All Ages	1	1,097	1,070	956	1,039	1,064	1,104	3,989	4,107

Table 3a.1. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	1	292	359	510	742	605	585	1,192	2,316
45-64	0	875	887	1,010	1,169	1,179	1,337	4,687	7,593
65 and older	3	2,321	2,302	2,090	2,137	2,234	2,205	7,670	12,085
All Ages	4	3,488	3,548	3,610	4,048	4,018	4,127	13,549	21,994
Uterus									
Younger than 45	0	211	198	196	293	225	243	767	817
45-64	0	810	753	726	781	963	964	3,650	3,744
65 and older	0	763	744	676	722	853	815	2,867	3,239
All Ages	0	1,784	1,695	1,598	1,796	2,041	2,022	7,284	7,800
Esophagus									
Younger than 45	0	76	85	188	132	100	244	274	243
45-64	0	95	127	179	157	163	466	678	551
65 and older	0	225	254	241	340	305	745	1,086	834
All Ages	0	396	466	608	629	568	1,455	2,038	1,628
Kidney and Pelvis									
Younger than 45	0	155	173	273	223	216	285	1,299	691
45-64	0	291	313	400	357	445	631	3,663	1,844
65 and older	0	520	526	545	598	661	994	4,733	2,474
All Ages	0	966	1,012	1,218	1,178	1,322	1,910	9,695	5,009
Leukemia									
Younger than 45	0	470	503	516	630	538	721	1,727	2,393
45-64	0	517	530	580	708	636	756	2,935	4,645
65 and older	1	1,029	1,156	1,086	1,115	1,011	1,056	4,008	6,944
All Ages	1	2,016	2,189	2,182	2,453	2,185	2,533	8,670	13,982
Liver and Intrahepatic Bile Duct									
Younger than 45	0	44	40	40	33	71	47	255	203
45-64	0	114	138	162	136	182	183	786	838
65 and older	1	246	241	229	262	268	252	871	1,074
All Ages	1	404	419	431	431	521	482	1,912	2,115

Table 3a.1. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	392	548	827	1,103	985	1,343	3,366	2,002
45-64	2	1,299	1,483	1,623	1,819	1,814	2,796	10,185	6,794
65 and older	2	2,698	2,708	2,764	2,980	3,193	4,343	15,418	11,910
All Ages	4	4,389	4,739	5,214	5,902	5,992	8,482	28,969	20,706
Melanoma									
Younger than 45	1	536	563	482	485	515	479	2,346	2,235
45-64	0	775	756	780	738	937	922	4,585	4,560
65 and older	0	665	716	747	668	777	654	3,315	4,070
All Ages	1	1,976	2,035	2,009	1,891	2,229	2,055	10,246	10,865
Non-Hodgkin's Lymphoma									
Younger than 45	0	624	670	779	942	877	1,040	2,093	2,321
45-64	0	744	870	827	1,133	1,093	1,365	3,645	4,007
65 and older	0	1,394	1,501	1,290	1,374	1,248	1,419	3,774	4,698
All Ages	0	2,762	3,041	2,896	3,449	3,218	3,824	9,512	11,026
Other Endocrine									
Younger than 45	0	121	93	117	95	109	113	590	590
45-64	0	157	116	130	100	155	148	837	948
65 and older	0	81	97	85	122	170	156	485	723
All Ages	0	359	306	332	317	434	417	1,912	2,261
Pancreas									
Younger than 45	1	71	56	143	214	294	343	395	350
45-64	0	167	193	273	343	427	437	1,258	1,269
65 and older	1	535	442	525	559	696	696	2,187	2,349
All Ages	2	773	691	941	1,116	1,417	1,476	3,840	3,968
Prostate⁴									
Younger than 45	1	319	417	596	773	489	574	1,051	813
45-64	0	272	332	452	633	472	491	1,836	1,231
65 and older	0	1,038	1,030	756	738	651	450	2,447	1,330
All Ages	1	1,629	1,779	1,804	2,144	1,612	1,515	5,334	3,374

Table 3a.1. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	156	158	181	310	337	407	712	658
45-64	0	515	486	516	642	654	695	2,963	2,869
65 and older	0	1,120	1,103	1,052	1,053	1,050	922	4,307	4,447
All Ages	0	1,791	1,747	1,749	2,005	2,041	2,024	7,982	7,974
Thyroid									
Younger than 45	0	333	324	320	369	440	425	1,716	1,686
45-64	0	394	346	397	421	556	593	2,544	2,579
65 and older	0	209	246	239	325	333	405	1,017	1,199
All Ages	0	936	916	956	1,115	1,329	1,423	5,277	5,464
Urinary Bladder									
Younger than 45	0	154	168	226	265	219	275	480	497
45-64	0	311	301	389	411	374	441	1,693	1,585
65 and older	0	797	809	724	715	772	633	2,860	2,714
All Ages	0	1,262	1,278	1,339	1,391	1,365	1,349	5,033	4,796

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 3a.2. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Any Cancer Site									
Younger than 45	35,656	33,427	31,511	30,140	30,809	28,747	28,919	25,433	10,839
45-64	99,965	91,633	90,734	86,671	89,848	84,654	86,239	80,379	36,380
65 and older	100,741	83,595	81,400	80,560	84,913	81,238	79,631	74,409	37,008
All Ages ²	236,362	208,655	203,645	197,371	205,570	194,639	194,789	180,221	84,227
Site-Specific Cancer³									
Anus									
Younger than 45	204	222	185	196	195	152	165	149	55
45-64	1,261	1,216	1,197	1,173	1,196	1,190	1,189	1,005	471
65 and older	1,214	1,137	1,045	1,110	1,062	1,056	1,006	878	452
All Ages	2,679	2,575	2,427	2,479	2,453	2,398	2,360	2,032	978
Breast, Female⁴									
Younger than 45	10,650	10,171	9,847	9,408	9,877	9,644	9,427	7,936	3,521
45-64	45,400	40,721	40,525	38,372	40,488	37,687	38,544	35,218	15,770
65 and older	42,512	33,352	31,646	31,193	32,952	31,015	30,344	27,545	13,614
All Ages	98,562	84,244	82,018	78,973	83,317	78,346	78,315	70,699	32,905
Breast, Male⁴									
Younger than 45	59	62	48	52	60	56	60	95	41
45-64	148	182	188	176	202	130	276	484	209
65 and older	119	114	102	112	125	116	154	217	100
All Ages	326	358	338	340	387	302	490	796	350
Cervix									
Younger than 45	2,621	2,455	2,211	2,139	2,099	2,012	2,078	1,876	758
45-64	4,212	3,917	3,817	3,704	3,682	3,440	3,482	3,209	1,428
65 and older	2,353	2,249	2,325	2,314	2,411	2,247	2,201	2,001	1,002
All Ages	9,186	8,621	8,353	8,157	8,192	7,699	7,761	7,086	3,188

Table 3a.2. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	1,875	1,741	1,634	1,486	1,495	1,425	1,437	1,394	568
45-64	8,877	8,386	7,866	7,729	7,613	7,286	7,439	7,137	3,181
65 and older	14,982	12,463	12,136	11,785	12,189	11,242	10,809	10,218	5,082
All Ages	25,734	22,590	21,636	21,000	21,297	19,953	19,685	18,749	8,831
Uterus									
Younger than 45	1,715	1,643	1,515	1,414	1,507	1,461	1,487	1,397	572
45-64	8,184	8,011	8,172	7,858	8,328	8,042	8,188	7,938	3,750
65 and older	6,632	5,946	6,122	6,215	6,834	6,836	6,596	6,888	3,202
All Ages	16,531	15,600	15,809	15,487	16,669	16,339	16,271	16,223	7,524
Esophagus									
Younger than 45	299	417	206	196	197	181	147	113	45
45-64	867	1,007	806	759	794	721	739	653	314
65 and older	1,237	1,205	1,190	1,155	1,143	1,209	1,400	1,180	519
All Ages	2,403	2,629	2,202	2,110	2,134	2,111	2,286	1,946	878
Kidney and Pelvis									
Younger than 45	1,245	983	848	796	786	788	812	809	321
45-64	4,063	3,196	3,149	3,000	2,989	2,921	3,147	3,198	1,425
65 and older	5,149	3,838	3,842	3,934	3,948	3,939	4,104	4,082	1,960
All Ages	10,457	8,017	7,839	7,730	7,723	7,648	8,063	8,089	3,706
Leukemia									
Younger than 45	2,954	2,875	2,648	2,492	2,344	2,105	1,947	1,462	597
45-64	4,543	4,456	4,483	4,038	4,090	3,788	3,568	3,028	1,388
65 and older	5,907	5,496	5,727	5,508	5,722	5,400	5,199	4,651	2,226
All Ages	13,404	12,827	12,858	12,038	12,156	11,293	10,714	9,141	4,211
Liver and Intrahepatic Bile Duct									
Younger than 45	538	505	493	443	468	429	421	187	63
45-64	1,904	1,905	2,030	1,899	2,109	2,115	1,887	934	408
65 and older	2,241	2,103	2,240	2,414	2,535	2,579	2,249	1,274	674
All Ages	4,683	4,513	4,763	4,756	5,112	5,123	4,557	2,395	1,145

Table 3a.2. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	1,751	1,799	1,408	1,071	1,116	1,049	1,051	993	427
45-64	9,900	9,354	9,098	8,636	8,527	8,435	8,323	8,041	3,658
65 and older	18,027	16,667	16,477	16,545	17,583	17,174	16,900	15,851	8,120
All Ages	29,678	27,820	26,983	26,252	27,226	26,658	26,274	24,885	12,205
Melanoma									
Younger than 45	5,751	5,264	4,804	4,777	4,762	4,297	4,513	4,411	1,887
45-64	11,297	10,931	10,698	10,655	11,119	10,428	11,209	11,225	5,032
65 and older	9,352	8,657	8,791	8,550	9,429	9,352	9,342	9,107	4,409
All Ages	26,400	24,852	24,293	23,982	25,310	24,077	25,064	24,743	11,328
Non-Hodgkin's Lymphoma									
Younger than 45	4,308	4,255	3,725	3,387	3,335	2,997	3,054	2,416	941
45-64	7,850	7,480	7,398	6,833	6,787	6,464	6,534	5,281	2,302
65 and older	8,772	8,064	7,882	7,793	8,054	7,565	7,441	6,387	3,203
All Ages	20,930	19,799	19,005	18,013	18,176	17,026	17,029	14,084	6,446
Other Endocrine									
Younger than 45	1,375	1,230	1,150	1,004	941	783	770	581	184
45-64	1,925	1,784	1,732	1,544	1,423	1,277	1,196	986	328
65 and older	1,462	1,313	1,251	1,095	1,133	1,049	917	806	319
All Ages	4,762	4,327	4,133	3,643	3,497	3,109	2,883	2,373	831
Pancreas									
Younger than 45	520	553	466	389	415	389	399	406	176
45-64	2,395	2,356	2,407	2,329	2,391	2,305	2,258	2,243	1,046
65 and older	4,123	4,024	4,172	4,283	4,461	4,349	4,334	4,109	2,045
All Ages	7,038	6,933	7,045	7,001	7,267	7,043	6,991	6,758	3,267
Prostate⁴									
Younger than 45	546	729	362	112	82	62	66	96	38
45-64	871	921	723	419	357	349	307	314	153
65 and older	906	932	685	444	377	328	249	241	113
All Ages	2,323	2,582	1,770	975	816	739	622	651	304

Table 3a.2. Annual Number of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	981	966	760	713	715	667	628	560	286
45-64	5,163	4,665	4,155	3,750	3,809	3,655	3,541	3,294	1,443
65 and older	7,794	6,269	5,193	4,755	4,606	4,385	3,887	3,334	1,716
All Ages	13,938	11,900	10,108	9,218	9,130	8,707	8,056	7,188	3,445
Thyroid									
Younger than 45	4,381	4,166	4,060	4,077	4,280	3,913	4,039	3,795	1,607
45-64	6,610	6,383	6,248	6,051	6,440	5,914	5,869	5,649	2,504
65 and older	2,539	2,436	2,357	2,475	2,658	2,526	2,568	2,460	1,151
All Ages	13,530	12,985	12,665	12,603	13,378	12,353	12,476	11,904	5,262
Urinary Bladder									
Younger than 45	761	729	636	492	515	465	457	348	133
45-64	2,982	2,743	2,603	2,366	2,502	2,200	2,016	1,832	818
65 and older	5,375	4,644	4,647	4,486	4,643	4,483	4,214	3,742	1,791
All Ages	9,118	8,116	7,886	7,344	7,660	7,148	6,687	5,922	2,742

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 3b.1. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Any Cancer Site									
Younger than 45	0	22.8	22.6	25.2	23.7	21.1	33.6	24.4	10.4
45-64	0.1	119.1	107.1	104	90.1	97.9	130.2	130.7	55.2
65 and older	0.3	298.4	243.6	226.6	196.3	231.5	323.8	351.8	148.4
All Ages ²	0.1	83.8	73.6	73.2	64.8	70.9	98.7	96.6	41.2
Site-Specific Cancer³									
Anus									
Younger than 45	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
45-64	0	0.8	1	1.1	0.9	1.1	1.1	1.4	0.6
65 and older	0	2.6	2.7	2.5	1.5	2.1	2	3.3	1.7
All Ages	0	0.6	0.7	0.7	0.5	0.7	0.6	1	0.5
Breast, Female⁴									
Younger than 45	0	6.3	6.5	8.3	8.6	8	18.7	6.8	3.5
45-64	0	58.5	51	48.2	42.2	46.3	67.6	52.4	25.8
65 and older	0.1	137	107.1	99.7	82.2	93.8	151.4	121.9	60.8
All Ages	0	37.1	31.5	31.4	27.8	30.6	50.5	35.1	17.6
Breast, Male⁴									
Younger than 45	0	0	0	0.1	0	0	0	0	0
45-64	0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
65 and older	0	0.3	0.4	0.2	0.3	0.1	0.2	0.1	0.1
All Ages	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
Cervix									
Younger than 45	0	1.9	1.9	1.6	1.5	1.4	1.5	1.6	0.7
45-64	0	4.5	4	4	4.1	4.4	4.2	4.6	2
65 and older	0	5.3	5.6	4.4	4.2	4.5	4.2	6	3
All Ages	0	3.1	3	2.7	2.6	2.7	2.7	3.1	1.4

Table 3b.1. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Colon									
Younger than 45	0	1.3	1.6	2.3	3.1	2.6	2.4	1.6	1.4
45-64	0	9.6	9.5	10.5	10.7	10.7	11.5	11.8	8.4
65 and older	0.1	49.1	47.7	42.3	39.4	41	39.1	47.2	30.5
All Ages	0	9.9	9.9	10.1	10.2	10.3	10	10.5	7.4
Uterus									
Younger than 45	0	1	0.9	0.9	1.2	1	1	1	0.5
45-64	0	8.9	8	7.6	7.1	8.8	8.3	9.2	4.1
65 and older	0	16.1	15.4	13.6	13.2	15.5	14.3	17.6	8.1
All Ages	0	5.1	4.7	4.5	4.5	5.2	4.9	5.7	2.6
Esophagus									
Younger than 45	0	0.3	0.4	0.9	0.6	0.4	1	0.4	0.1
45-64	0	1	1.4	1.9	1.4	1.5	4	1.7	0.6
65 and older	0	4.7	5.2	4.8	6.2	5.5	13	6.6	2.1
All Ages	0	1.1	1.3	1.7	1.6	1.5	3.5	1.6	0.5
Kidney and Pelvis									
Younger than 45	0	0.7	0.8	1.2	0.9	0.9	1.2	1.7	0.4
45-64	0	3.2	3.3	4.2	3.3	4	5.4	9.2	2
65 and older	0	11	10.8	10.9	10.9	12	17.4	29	6.2
All Ages	0	2.7	2.8	3.4	3	3.4	4.6	7.5	1.7
Leukemia									
Younger than 45	0	2.1	2.3	2.3	2.6	2.3	2.9	2.3	1.4
45-64	0	5.7	5.7	6	6.5	5.8	6.5	7.4	5.1
65 and older	0	21.7	23.9	21.9	20.5	18.5	18.6	24.6	17.5
All Ages	0	5.7	6.1	6.1	6.2	5.6	6.1	6.7	4.7
Liver and Intrahepatic Bile Duct									
Younger than 45	0	0.2	0.2	0.2	0.1	0.3	0.2	0.3	0.1
45-64	0	1.3	1.5	1.7	1.2	1.7	1.6	2	0.9
65 and older	0	5.2	5	4.6	4.8	4.9	4.4	5.3	2.7
All Ages	0	1.1	1.2	1.2	1.1	1.3	1.2	1.5	0.7

Table 3b.1. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lung and Bronchus									
Younger than 45	0	1.8	2.5	3.8	4.6	4.2	5.4	4.5	1.2
45-64	0	14.3	15.8	16.9	16.7	16.5	24	25.6	7.5
65 and older	0	57.1	56.1	55.9	55	58.6	77	95	30.1
All Ages	0	12.5	13.2	14.6	14.9	15.4	20.6	22.5	7
Melanoma									
Younger than 45	0	2.4	2.5	2.2	2	2.2	1.9	3.1	1.3
45-64	0	8.5	8.1	8.1	6.8	8.5	7.9	11.5	5
65 and older	0	14	14.8	15	12.2	14.2	11.5	20.3	10.2
All Ages	0	5.6	5.7	5.6	4.8	5.7	5	8	3.7
Non-Hodgkin's Lymphoma									
Younger than 45	0	2.8	3	3.5	3.9	3.8	4.2	2.8	1.4
45-64	0	8.2	9.3	8.6	10.4	9.9	11.7	9.2	4.4
65 and older	0	29.5	31.1	26	25.3	22.8	25.1	23.2	11.8
All Ages	0	7.8	8.5	8.1	8.7	8.3	9.3	7.4	3.7
Other Endocrine									
Younger than 45	0	0.5	0.4	0.5	0.4	0.5	0.5	0.8	0.3
45-64	0	1.7	1.2	1.4	0.9	1.4	1.3	2.1	1
65 and older	0	1.7	2	1.7	2.2	3.1	2.7	3	1.8
All Ages	0	1	0.9	0.9	0.8	1.1	1	1.5	0.8
Pancreas									
Younger than 45	0	0.3	0.3	0.7	0.9	1.3	1.4	0.5	0.2
45-64	0	1.8	2.1	2.8	3.1	3.9	3.7	3.2	1.4
65 and older	0	11.3	9.1	10.5	10.2	12.6	12.2	13.4	5.9
All Ages	0	2.2	1.9	2.6	2.8	3.6	3.6	3	1.3
Prostate⁴									
Younger than 45	0	1.4	1.9	2.7	3.2	2.1	2.3	1.4	0.5
45-64	0	3	3.5	4.7	5.8	4.3	4.2	4.6	1.4
65 and older	0	21.9	21.3	15.2	13.5	11.9	7.9	15	3.3
All Ages	0	4.6	5	5	5.4	4.1	3.7	4.1	1.1

Table 3b.1. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2000 to December 31, 2008, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Rectum									
Younger than 45	0	0.7	0.7	0.8	1.3	1.4	1.6	0.9	0.4
45-64	0	5.7	5.2	5.4	5.9	5.9	5.9	7.4	3.2
65 and older	0	23.6	22.8	21.2	19.3	19.1	16.2	26.4	11.2
All Ages	0	5.1	4.9	4.9	5.1	5.2	4.9	6.2	2.7
Thyroid									
Younger than 45	0	1.5	1.5	1.5	1.5	1.9	1.7	2.3	1
45-64	0	4.3	3.7	4.1	3.9	5.1	5.1	6.4	2.9
65 and older	0	4.4	5.1	4.8	5.9	6	7.1	6.2	3
All Ages	0	2.7	2.6	2.7	2.8	3.4	3.5	4.1	1.8
Urinary Bladder									
Younger than 45	0	0.7	0.8	1	1.1	0.9	1.1	0.6	0.3
45-64	0	3.4	3.2	4	3.8	3.4	3.8	4.2	1.8
65 and older	0	16.8	16.7	14.6	13.1	14.1	11.1	17.5	6.8
All Ages	0	3.6	3.6	3.7	3.5	3.5	3.3	3.9	1.6

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 3b.2. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Any Cancer Site									
Younger than 45	20.5	19.6	18.5	15.6	17.2	16.2	16.2	13.1	7.2
45-64	111.5	102.3	99.7	86.3	95.2	91.5	91.5	78	43.4
65 and older	270.7	233.4	217.5	184.1	201	189.7	184.6	163.2	97.3
All Ages ²	80.3	71.9	69.5	59.6	66.3	63.6	62.9	53.5	31.2
Site-Specific Cancer³									
Anus									
Younger than 45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	1.4	1.3	1.3	1.1	1.2	1.2	1.2	0.9	0.5
65 and older	3	2.9	2.5	2.3	2.2	2.2	2.1	1.7	1
All Ages	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.6	0.3
Breast, Female⁴									
Younger than 45	6.1	5.9	5.8	4.9	5.5	5.4	5.2	4.1	2.3
45-64	49.8	44.6	43.6	37.4	41.9	39.7	39.8	33.3	18.3
65 and older	109.5	88.7	80.2	67.4	73.6	68.1	66.1	56.7	33.5
All Ages	33.1	28.6	27.6	23.5	26.4	25.1	24.8	20.6	11.9
Breast, Male⁴									
Younger than 45	0	0	0	0	0	0	0	0	0
45-64	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.4	0.2
65 and older	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.4	0.2
All Ages	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1
Cervix									
Younger than 45	1.5	1.4	1.3	1.1	1.2	1.1	1.2	1	0.5
45-64	4.5	4.2	4	3.5	3.7	3.5	3.5	3	1.6
65 and older	5.8	5.7	5.6	4.7	5.1	4.7	4.5	3.9	2.3
All Ages	3	2.9	2.8	2.4	2.6	2.4	2.4	2	1.1

Table 3b.2. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Colon									
Younger than 45	1.1	1	1	0.8	0.8	0.8	0.8	0.7	0.4
45-64	9.6	9	8.3	7.4	7.7	7.5	7.5	6.6	3.6
65 and older	37.2	31.9	29.5	24.4	26	23.6	22.5	20.1	11.9
All Ages	8.5	7.6	7.2	6.2	6.7	6.3	6.1	5.4	3.2
Uterus									
Younger than 45	1	1	0.9	0.7	0.8	0.8	0.8	0.7	0.4
45-64	8.8	8.6	8.6	7.5	8.4	8.3	8.3	7.3	4.2
65 and older	16.4	15.1	14.8	12.8	14.5	14.3	13.7	13.5	7.5
All Ages	5.5	5.2	5.2	4.5	5.2	5.2	5.1	4.7	2.7
Esophagus									
Younger than 45	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0
45-64	0.9	1.1	0.8	0.7	0.8	0.7	0.7	0.6	0.4
65 and older	3	3	2.9	2.4	2.4	2.5	2.9	2.3	1.2
All Ages	0.8	0.9	0.7	0.6	0.7	0.7	0.7	0.6	0.3
Kidney and Pelvis									
Younger than 45	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.4	0.2
45-64	4.4	3.4	3.3	2.9	3	3	3.2	2.9	1.6
65 and older	12.7	9.7	9.3	8.1	8.4	8.2	8.5	8	4.6
All Ages	3.5	2.7	2.6	2.3	2.4	2.4	2.5	2.3	1.3
Leukemia									
Younger than 45	1.7	1.7	1.5	1.3	1.3	1.2	1.1	0.7	0.4
45-64	4.9	4.8	4.7	3.8	4.1	3.9	3.6	2.8	1.6
65 and older	14.6	14	13.8	11.3	12.2	11.3	10.8	9.1	5.2
All Ages	4.4	4.3	4.3	3.5	3.8	3.6	3.3	2.6	1.5
Liver and Intrahepatic Bile Duct									
Younger than 45	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0
45-64	2	2	2.1	1.8	2.1	2.2	1.9	0.9	0.5
65 and older	5.5	5.3	5.4	4.9	5.4	5.4	4.6	2.5	1.6
All Ages	1.6	1.5	1.6	1.4	1.6	1.6	1.4	0.7	0.4

Table 3b.2. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lung and Bronchus									
Younger than 45	1	1.1	0.8	0.6	0.6	0.6	0.6	0.5	0.3
45-64	10.7	10	9.6	8.2	8.6	8.7	8.4	7.4	4.1
65 and older	44.8	42.6	40	34.2	37.5	36	35.1	31.2	19
All Ages	9.9	9.3	9	7.7	8.5	8.4	8.2	7.1	4.4
Melanoma									
Younger than 45	3.3	3.1	2.8	2.5	2.6	2.4	2.5	2.3	1.2
45-64	12.2	11.7	11.3	10.2	11.3	10.7	11.3	10.4	5.7
65 and older	23.1	22	21.3	17.6	20.1	19.6	19.4	17.9	10.3
All Ages	8.8	8.3	8.1	7	7.9	7.6	7.8	7.1	4.1
Non-Hodgkin's Lymphoma									
Younger than 45	2.5	2.5	2.2	1.7	1.8	1.7	1.7	1.2	0.6
45-64	8.4	8	7.8	6.5	6.9	6.7	6.6	4.9	2.6
65 and older	21.7	20.5	19.1	16.1	17.1	15.8	15.4	12.5	7.5
All Ages	6.9	6.6	6.3	5.3	5.7	5.4	5.3	4	2.3
Other Endocrine									
Younger than 45	0.8	0.7	0.7	0.5	0.5	0.4	0.4	0.3	0.1
45-64	2.1	1.9	1.8	1.5	1.4	1.3	1.2	0.9	0.4
65 and older	3.6	3.3	3	2.2	2.4	2.2	1.9	1.6	0.7
All Ages	1.6	1.5	1.4	1.1	1.1	1	0.9	0.7	0.3
Pancreas									
Younger than 45	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1
45-64	2.6	2.5	2.5	2.2	2.4	2.4	2.3	2.1	1.2
65 and older	10.2	10.2	10	8.8	9.4	9	8.9	8	4.7
All Ages	2.3	2.3	2.3	2	2.3	2.2	2.2	1.9	1.2
Prostate⁴									
Younger than 45	0.3	0.4	0.2	0.1	0	0	0	0	0
45-64	0.9	1	0.8	0.4	0.4	0.4	0.3	0.3	0.2
65 and older	2.2	2.4	1.6	0.9	0.8	0.7	0.5	0.5	0.3
All Ages	0.8	0.9	0.6	0.3	0.3	0.2	0.2	0.2	0.1

Table 3b.2. Annual Rate Per 10,000 Eligible Members of New Female Cancer Cases in the Sentinel Distributed Database (SDD) from January 1, 2009 to August 31, 2017, by Cancer Site and Age Group

Age Group (Years)	Year of Diagnosis ¹								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rectum									
Younger than 45	0.6	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.2
45-64	5.6	5	4.4	3.6	3.8	3.8	3.6	3	1.6
65 and older	19.3	15.9	12.5	9.8	9.8	9.1	8	6.5	4
All Ages	4.6	4	3.3	2.7	2.8	2.7	2.5	2.1	1.2
Thyroid									
Younger than 45	2.5	2.4	2.4	2.1	2.4	2.2	2.2	1.9	1.1
45-64	7.1	6.9	6.6	5.8	6.5	6.1	5.9	5.2	2.8
65 and older	6.3	6.2	5.7	5.1	5.6	5.3	5.3	4.8	2.7
All Ages	4.5	4.4	4.2	3.7	4.2	3.9	3.9	3.4	1.9
Urinary Bladder									
Younger than 45	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.1
45-64	3.2	2.9	2.7	2.2	2.5	2.3	2	1.7	0.9
65 and older	13.3	11.8	11.2	9.2	9.8	9.3	8.7	7.3	4.2
All Ages	3	2.7	2.6	2.1	2.4	2.3	2.1	1.7	1

¹In leap years of 2000, 2004, 2008, 2012, and 2016, members have an additional day in the year that would qualify them as eligible

²Aggregated numbers represent the sums of patients with at least one of the incident site-specific cancers, and is not the sum of patients across all incident cancers sites; that is, each cancer patient is only counted once in the aggregated sums

³Cancer diagnoses based on ICD-9 codes for years 2000 through 2015 and ICD-10 codes for years 2016 through 2018

⁴Site-specific cancer diagnoses related to a particular sex are defined by the codes for which sex is explicit in the description of the code; use of these codes is not limited to a particular sex

Table 4. Pre-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Prior to Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Any Cancer Site²									
Any Cancer Site	3,980,407	3,980,407	2,854,021	2,119,695	1,580,148	1497.7 (1059.4)	1,175	366	6,452
Site Specific Cancer									
Anus	46,670	46,670	34,376	25,786	19,310	1532.1 (1057.8)	1,226	366	6,433
Breast, Female	907,460	907,460	644,424	478,142	357,502	1485.9 (1049.5)	1,164	366	6,451
Breast, Male	16,274	16,274	12,312	9,385	7,139	1579.9 (1065.1)	1,279	366	6,405
Cervix	85,020	85,020	59,092	42,297	30,551	1392.7 (971.9)	1,089	366	6,431
Colon	462,431	462,431	343,116	259,930	197,536	1562.0 (1066.2)	1,254	366	6,450
Uterus	166,069	166,069	122,775	93,120	70,786	1585.1 (1125.3)	1,249	366	6,452
Esophagus	78,491	78,491	60,482	46,894	36,240	1644.7 (1102.9)	1,352	366	6,418
Kidney and Pelvis	218,240	218,240	163,001	125,470	97,000	1601.3 (1087.2)	1,295	366	6,446
Leukemia	274,935	274,935	206,751	158,749	121,404	1590.9 (1068.2)	1,294	366	6,439
Liver and Intrahepatic Bile Duct	102,250	102,250	77,976	59,833	45,721	1626.6 (1129.8)	1,311	366	6,438
Lung and Bronchus	606,009	606,009	470,592	369,078	287,774	1679.9 (1116.0)	1,386	366	6,451
Melanoma	520,614	520,614	386,859	292,668	219,745	1560.8 (1082.0)	1,251	366	6,452
Non-Hodgkin's Lymphoma	389,120	389,120	284,819	212,559	158,333	1508.3 (1041.0)	1,208	366	6,443
Other Endocrine	62,146	62,146	43,916	31,565	22,569	1400.2 (960.4)	1,114	366	6,419
Pancreas	147,094	147,094	114,931	90,075	70,119	1683.4 (1126.7)	1,393	366	6,450
Prostate	738,511	738,511	522,298	384,719	283,299	1461.1 (1031.3)	1,145	366	6,452
Rectum	221,164	221,164	158,753	116,122	85,487	1457.3 (1007.5)	1,155	366	6,452
Thyroid	169,058	169,058	116,360	84,131	61,175	1398.5 (990.4)	1,088	366	6,443
Urinary Bladder	264,765	264,765	196,513	149,532	113,547	1572.7 (1093.4)	1,256	366	6,452
Male									
Any Cancer Site ²	1,861,651	1,861,651	1,338,993	994,923	740,309	1498.3 (1057.2)	1,178	366	6,452
Site Specific Cancer									
Anus	22,204	22,204	16,239	12,080	9,058	1506.1 (1033.9)	1,209	366	6,433
Breast, Female	45,108	45,108	35,435	28,228	22,831	1659.9 (961.3)	1,481	366	6,411
Breast, Male	12,213	12,213	9,178	6,970	5,265	1550.4 (1043.0)	1,260	366	6,405
Cervix	2,350	2,350	1,684	1,179	849	1362.2 (872.0)	1,100	366	6,402

Table 4. Pre-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Prior to Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Colon	224,570	224,570	165,090	123,895	93,215	1528.5 (1045.8)	1,223	366	6,450
Uterus	3,596	3,596	2,629	1,983	1,538	1505.1 (980.4)	1,238	366	6,199
Esophagus	52,004	52,004	39,828	30,731	23,608	1633.6 (1109.3)	1,330	366	6,418
Kidney and Pelvis	126,658	126,658	93,782	71,453	54,601	1573.5 (1083.4)	1,261	366	6,432
Leukemia	140,082	140,082	104,830	80,049	60,896	1574.7 (1066.6)	1,277	366	6,437
Liver and Intrahepatic Bile Duct	58,487	58,487	44,593	34,209	26,140	1627.2 (1131.3)	1,311	366	6,438
Lung and Bronchus	293,631	293,631	226,462	176,222	136,094	1650.4 (1102.6)	1,355	366	6,451
Melanoma	277,258	277,258	208,754	159,542	120,595	1591.2 (1094.4)	1,284	366	6,444
Non-Hodgkin's Lymphoma	198,884	198,884	145,218	108,332	80,483	1506.1 (1044.5)	1,203	366	6,429
Other Endocrine	26,250	26,250	18,634	13,465	9,659	1409.2 (962.4)	1,125	366	6,418
Pancreas	73,527	73,527	57,253	44,631	34,489	1663.8 (1114.4)	1,373	366	6,450
Prostate	708,537	708,537	499,229	366,771	269,238	1455.4 (1034.1)	1,137	366	6,452
Rectum	112,161	112,161	80,160	58,428	42,850	1448.2 (1006.6)	1,145	366	6,452
Thyroid	44,486	44,486	31,668	23,225	17,088	1444.5 (1003.3)	1,145	366	6,443
Urinary Bladder	184,329	184,329	136,556	103,696	78,790	1571.2 (1098.2)	1,251	366	6,452
Female									
Any Cancer Site ²	2,118,756	2,118,756	1,515,028	1,124,772	839,839	1497.3 (1061.3)	1,172	366	6,452
Site Specific Cancer									
Anus	24,466	24,466	18,137	13,706	10,252	1555.8 (1078.5)	1,240	366	6,412
Breast, Female	862,352	862,352	608,989	449,914	334,671	1476.8 (1053.1)	1,150	366	6,451
Breast, Male	4,061	4,061	3,134	2,415	1,874	1668.4 (1124.6)	1,351	366	6,397
Cervix	82,670	82,670	57,408	41,118	29,702	1393.6 (974.6)	1,088	366	6,431
Colon	237,861	237,861	178,026	136,035	104,321	1593.5 (1084.2)	1,283	366	6,445
Uterus	162,473	162,473	120,146	91,137	69,248	1586.8 (1128.3)	1,249	366	6,452
Esophagus	26,487	26,487	20,654	16,163	12,632	1666.6 (1089.8)	1,391	366	6,417
Kidney and Pelvis	91,582	91,582	69,219	54,017	42,399	1639.8 (1091.2)	1,346	366	6,446
Leukemia	134,853	134,853	101,921	78,700	60,508	1607.7 (1069.6)	1,313	366	6,439
Liver and Intrahepatic Bile Duct	43,763	43,763	33,383	25,624	19,581	1625.8 (1127.7)	1,311	366	6,422
Lung and Bronchus	312,378	312,378	244,130	192,856	151,680	1707.5 (1127.8)	1,417	366	6,438

Table 4. Pre-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Prior to Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Melanoma	243,356	243,356	178,105	133,126	99,150	1526.1 (1066.5)	1,214	366	6,452
Non-Hodgkin's Lymphoma	190,236	190,236	139,601	104,227	77,850	1510.6 (1037.3)	1,213	366	6,443
Other Endocrine	35,896	35,896	25,282	18,100	12,910	1393.6 (958.9)	1,106	366	6,419
Pancreas	73,567	73,567	57,678	45,444	35,630	1702.9 (1138.6)	1,413	366	6,425
Prostate	29,974	29,974	23,069	17,948	14,061	1594.5 (953.1)	1,378	366	6,265
Rectum	109,003	109,003	78,593	57,694	42,637	1466.7 (1008.3)	1,165	366	6,430
Thyroid	124,572	124,572	84,692	60,906	44,087	1382.1 (985.2)	1,071	366	6,422
Urinary Bladder	80,436	80,436	59,957	45,836	34,757	1576.1 (1082.4)	1,270	366	6,438

¹Prediagnostic duration of follow-up based on date of entry to date of first diagnosis of site-specific cancer

²Based on date of first incident diagnosis of a listed site-specific cancer

Table 5. Post-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Post Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Any Cancer Site²									
Any Cancer Site	3,980,407	2,762,017	2,037,487	1,520,961	1,140,551	1100.2 (1057.0)	761	1	6,086
Site Specific Cancer									
Anus	46,670	31,354	21,986	15,514	11,042	971.3 (945.0)	668	1	6,036
Breast, Female	907,460	689,367	526,487	400,954	306,111	1260.9 (1119.5)	933	1	6,086
Breast, Male	16,274	10,656	7,325	5,318	3,729	939.2 (924.7)	621	1	6,020
Cervix	85,020	57,656	40,913	29,542	21,708	1029.1 (1019.5)	690	1	6,078
Colon	462,431	312,114	227,512	169,147	127,112	1064.2 (1048.0)	711	1	6,084
Uterus	166,069	116,533	83,875	61,747	45,468	1082.4 (1040.4)	743	1	6,085
Esophagus	78,491	41,622	26,551	18,610	13,761	778.1 (931.1)	410	1	6,045
Kidney and Pelvis	218,240	148,610	109,006	80,521	59,933	1068.5 (1030.0)	729	1	6,077
Leukemia	274,935	182,429	134,599	100,416	75,283	1048.8 (1036.5)	706	1	6,054
Liver and Intrahepatic Bile Duct	102,250	43,801	27,520	17,516	11,385	570.4 (740.3)	267	1	6,056
Lung and Bronchus	606,009	296,399	192,176	136,414	101,441	737.7 (933.9)	350	1	6,063
Melanoma	520,614	382,513	282,056	208,242	152,429	1118.3 (998.3)	829	1	6,085
Non-Hodgkin's Lymphoma	389,120	264,248	192,711	141,917	105,286	1048.6 (1017.6)	719	1	6,084
Other Endocrine	62,146	41,593	30,604	22,764	16,713	1030.2 (990.1)	711	1	6,054
Pancreas	147,094	62,436	38,313	26,452	19,109	605.4 (814.5)	270	1	6,055
Prostate	738,511	557,026	427,170	329,066	253,337	1250.3 (1098.0)	934	1	6,080
Rectum	221,164	149,037	108,160	79,777	59,847	1054.8 (1038.0)	705	1	6,063
Thyroid	169,058	122,649	90,084	66,521	48,880	1108.5 (1004.8)	809	1	6,084
Urinary Bladder	264,765	185,959	136,761	101,438	75,022	1087.1 (1018.2)	770	1	6,086
Male									
Any Cancer Site ²	1,861,651	1,269,790	930,839	692,283	517,551	1069.8 (1037.7)	731	1	6,085
Site Specific Cancer									
Anus	22,204	14,616	10,085	7,005	4,896	929.2 (913.1)	636	1	5,999
Breast, Female	45,108	35,697	28,921	23,364	19,230	1519.6 (1253.8)	1,165	1	6,052
Breast, Male	12,213	8,138	5,743	4,114	2,883	964.5 (934.6)	662	1	6,020
Cervix	2,350	1,664	1,261	949	708	1128.9 (1057.7)	818	1	5,827

Table 5. Post-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Post Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Colon	224,570	149,275	107,178	78,241	57,902	1018.8 (1015.4)	678	1	6,073
Uterus	3,596	2,669	2,096	1,695	1,375	1315.9 (1162.9)	983	1	5,860
Esophagus	52,004	25,945	15,559	10,437	7,392	689.2 (846.4)	364	1	6,045
Kidney and Pelvis	126,658	85,167	61,563	44,684	32,572	1019.5 (987.2)	699	1	6,063
Leukemia	140,082	90,166	65,037	47,411	34,820	979.4 (990.1)	649	1	6,054
Liver and Intrahepatic Bile Duct	58,487	24,202	14,953	9,317	5,907	542.9 (717.3)	249	1	5,936
Lung and Bronchus	293,631	131,240	81,322	55,868	40,585	647.2 (857.5)	297	1	6,049
Melanoma	277,258	203,339	149,491	109,680	79,518	1102.2 (980.2)	820	1	6,085
Non-Hodgkin's Lymphoma	198,884	132,111	95,076	68,973	50,363	1001.2 (984.7)	682	1	6,057
Other Endocrine	26,250	16,800	12,119	8,892	6,449	969.1 (971.5)	640	1	6,039
Pancreas	73,527	29,991	17,884	11,996	8,478	564.7 (768.6)	253	1	6,020
Prostate	708,537	532,474	406,553	311,775	238,683	1231.9 (1084.0)	921	1	6,080
Rectum	112,161	74,179	53,016	38,481	28,390	1009.2 (1007.2)	667	1	6,063
Thyroid	44,486	31,878	23,281	17,063	12,399	1077.4 (978.8)	787	1	6,055
Urinary Bladder	184,329	129,592	94,439	69,471	50,787	1067.7 (995.4)	759	1	6,086
Female									
Any Cancer Site ²	2,118,756	1,492,227	1,106,648	828,678	623,000	1126.9 (1072.9)	787	1	6,086
Site Specific Cancer									
Anus	24,466	16,738	11,901	8,509	6,146	1009.5 (971.4)	701	1	6,036
Breast, Female	862,352	653,670	497,566	377,590	286,881	1247.3 (1110.4)	923	1	6,086
Breast, Male	4,061	2,518	1,582	1,204	846	862.9 (890.2)	529	1	5,844
Cervix	82,670	55,992	39,652	28,593	21,000	1026.3 (1018.2)	687	1	6,078
Colon	237,861	162,839	120,334	90,906	69,210	1107.1 (1076.1)	746	1	6,084
Uterus	162,473	113,864	81,779	60,052	44,093	1077.2 (1036.9)	739	1	6,085
Esophagus	26,487	15,677	10,992	8,173	6,369	952.7 (1056.5)	529	1	5,836
Kidney and Pelvis	91,582	63,443	47,443	35,837	27,361	1136.3 (1082.8)	779	1	6,077
Leukemia	134,853	92,263	69,562	53,005	40,463	1120.9 (1077.9)	773	1	6,049
Liver and Intrahepatic Bile Duct	43,763	19,599	12,567	8,199	5,478	607.2 (768.4)	293	1	6,056
Lung and Bronchus	312,378	165,159	110,854	80,546	60,856	822.9 (992.8)	412	1	6,063

Table 5. Post-diagnostic Patient Follow-up in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017, by Cancer Site

Cancer Site	Number of Patients by Follow-Up Years Available Post Cancer					Days			
	Diagnosis ¹					Mean (Standard Deviation)	Median	Minimum	Maximum
	>0 Years	>1 Years	>2 Years	>3 Years	>4 Years				
Melanoma	243,356	179,174	132,565	98,562	72,911	1136.7 (1018.1)	838	1	6,085
Non-Hodgkin's Lymphoma	190,236	132,137	97,635	72,944	54,923	1098.3 (1048.5)	765	1	6,084
Other Endocrine	35,896	24,793	18,485	13,872	10,264	1074.9 (1001.1)	770	1	6,054
Pancreas	73,567	32,445	20,429	14,456	10,631	646.1 (856.1)	286	1	6,055
Prostate	29,974	24,552	20,617	17,291	14,654	1684.8 (1314.5)	1,417	1	6,046
Rectum	109,003	74,858	55,144	41,296	31,457	1101.6 (1066.7)	745	1	6,055
Thyroid	124,572	90,771	66,803	49,458	36,481	1119.6 (1013.7)	816	1	6,084
Urinary Bladder	80,436	56,367	42,322	31,967	24,235	1131.6 (1067.3)	798	1	6,077

¹Duration of follow-up based on date of entry to date of first occurrence of any of the following: 1.) disenrollment; 2.) death; 3.) the end of Data Partner availability; or 4.) the end of the query period.

²Based on date of first incident diagnosis of a listed site-specific cancer

Table 6a. Counts of Patients by Pre and Post Index Follow-up Time for Any Cancer Site in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	3,980,407	2,762,017	2,037,487	1,520,961	1,140,551
>1 Year	3,980,407	2,762,017	2,037,487	1,520,961	1,140,551
>2 Year	2,854,021	1,972,270	1,444,756	1,072,240	794,641
>3 Year	2,119,695	1,451,518	1,057,371	776,702	566,162
>4 Year	1,580,148	1,072,774	772,567	557,666	396,750
Males¹					
>0 Year	1,861,651	1,269,790	930,839	692,283	517,551
>1 Year	1,861,651	1,269,790	930,839	692,283	517,551
>2 Year	1,338,993	907,697	659,359	486,743	359,112
>3 Year	994,923	667,367	481,428	351,207	254,607
>4 Year	740,309	491,281	349,612	250,316	176,982
Females¹					
>0 Year	2,118,756	1,492,227	1,106,648	828,678	623,000
>1 Year	2,118,756	1,492,227	1,106,648	828,678	623,000
>2 Year	1,515,028	1,064,573	785,397	585,497	435,529
>3 Year	1,124,772	784,151	575,943	425,495	311,555
>4 Year	839,839	581,493	422,955	307,350	219,768

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6b. Counts of Patients by Pre and Post Index Follow-up Time for Anal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	46,670	31,354	21,986	15,514	11,042
>1 Year	46,670	31,354	21,986	15,514	11,042
>2 Year	34,376	23,244	16,269	11,467	8,034
>3 Year	25,786	17,370	12,080	8,403	5,783
>4 Year	19,310	12,971	8,913	6,089	4,068
Males¹					
>0 Year	22,204	14,616	10,085	7,005	4,896
>1 Year	22,204	14,616	10,085	7,005	4,896
>2 Year	16,239	10,748	7,428	5,127	3,522
>3 Year	12,080	7,937	5,442	3,730	2,522
>4 Year	9,058	5,914	3,988	2,688	1,748
Females¹					
>0 Year	24,466	16,738	11,901	8,509	6,146
>1 Year	24,466	16,738	11,901	8,509	6,146
>2 Year	18,137	12,496	8,841	6,340	4,512
>3 Year	13,706	9,433	6,638	4,673	3,261
>4 Year	10,252	7,057	4,925	3,401	2,320

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6c. Counts of Patients by Pre and Post Index Follow-up Time for Female Breast Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	907,460	689,367	526,487	400,954	306,111
>1 Year	907,460	689,367	526,487	400,954	306,111
>2 Year	644,424	491,122	373,917	283,479	214,549
>3 Year	478,142	363,197	275,878	207,622	154,960
>4 Year	357,502	270,913	204,127	151,393	110,678
Males¹					
>0 Year	45,108	35,697	28,921	23,364	19,230
>1 Year	45,108	35,697	28,921	23,364	19,230
>2 Year	35,435	28,442	23,272	18,775	15,486
>3 Year	28,228	22,860	18,803	15,201	12,546
>4 Year	22,831	18,567	15,293	12,368	10,190
Females¹					
>0 Year	862,352	653,670	497,566	377,590	286,881
>1 Year	862,352	653,670	497,566	377,590	286,881
>2 Year	608,989	462,680	350,645	264,704	199,063
>3 Year	449,914	340,337	257,075	192,421	142,414
>4 Year	334,671	252,346	188,834	139,025	100,488

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6d. Counts of Patients by Pre and Post Index Follow-up Time for Male Breast Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	16,274	10,656	7,325	5,318	3,729
>1 Year	16,274	10,656	7,325	5,318	3,729
>2 Year	12,312	8,015	5,441	3,933	2,732
>3 Year	9,385	6,060	4,044	2,879	1,933
>4 Year	7,139	4,554	2,975	2,076	1,339
Males¹					
>0 Year	12,213	8,138	5,743	4,114	2,883
>1 Year	12,213	8,138	5,743	4,114	2,883
>2 Year	9,178	6,080	4,229	3,015	2,093
>3 Year	6,970	4,579	3,156	2,210	1,484
>4 Year	5,265	3,437	2,324	1,595	1,029
Females¹					
>0 Year	4,061	2,518	1,582	1,204	846
>1 Year	4,061	2,518	1,582	1,204	846
>2 Year	3,134	1,935	1,212	918	639
>3 Year	2,415	1,481	888	669	449
>4 Year	1,874	1,117	651	481	310

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6e. Counts of Patients by Pre and Post Index Follow-up Time for Cervical Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	85,020	57,656	40,913	29,542	21,708
>1 Year	85,020	57,656	40,913	29,542	21,708
>2 Year	59,092	40,267	28,464	20,414	14,809
>3 Year	42,297	28,694	20,124	14,318	10,178
>4 Year	30,551	20,600	14,320	9,995	6,893
Males¹					
>0 Year	2,350	1,664	1,261	949	708
>1 Year	2,350	1,664	1,261	949	708
>2 Year	1,684	1,213	921	694	514
>3 Year	1,179	842	625	466	334
>4 Year	849	597	438	321	222
Females¹					
>0 Year	82,670	55,992	39,652	28,593	21,000
>1 Year	82,670	55,992	39,652	28,593	21,000
>2 Year	57,408	39,054	27,543	19,720	14,295
>3 Year	41,118	27,852	19,499	13,852	9,844
>4 Year	29,702	20,003	13,882	9,674	6,671

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6f. Counts of Patients by Pre and Post Index Follow-up Time for Colon Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	462,431	312,114	227,512	169,147	127,112
>1 Year	462,431	312,114	227,512	169,147	127,112
>2 Year	343,116	230,812	167,300	123,853	92,314
>3 Year	259,930	173,529	125,176	91,897	67,633
>4 Year	197,536	131,095	93,590	68,000	49,276
Males¹					
>0 Year	224,570	149,275	107,178	78,241	57,902
>1 Year	224,570	149,275	107,178	78,241	57,902
>2 Year	165,090	109,223	77,881	56,515	41,309
>3 Year	123,895	81,263	57,530	41,355	29,740
>4 Year	93,215	60,649	42,362	30,109	21,243
Females¹					
>0 Year	237,861	162,839	120,334	90,906	69,210
>1 Year	237,861	162,839	120,334	90,906	69,210
>2 Year	178,026	121,589	89,419	67,338	51,005
>3 Year	136,035	92,266	67,646	50,542	37,893
>4 Year	104,321	70,446	51,228	37,891	28,033

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6g. Counts of Patients by Pre and Post Index Follow-up Time for Endometrial Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	166,069	116,533	83,875	61,747	45,468
>1 Year	166,069	116,533	83,875	61,747	45,468
>2 Year	122,775	86,269	61,677	45,232	32,913
>3 Year	93,120	65,132	46,312	33,716	24,135
>4 Year	70,786	49,197	34,631	24,796	17,289
Males¹					
>0 Year	3,596	2,669	2,096	1,695	1,375
>1 Year	3,596	2,669	2,096	1,695	1,375
>2 Year	2,629	1,982	1,578	1,283	1,040
>3 Year	1,983	1,493	1,178	961	777
>4 Year	1,538	1,151	906	733	581
Females¹					
>0 Year	162,473	113,864	81,779	60,052	44,093
>1 Year	162,473	113,864	81,779	60,052	44,093
>2 Year	120,146	84,287	60,099	43,949	31,873
>3 Year	91,137	63,639	45,134	32,755	23,358
>4 Year	69,248	48,046	33,725	24,063	16,708

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6h. Counts of Patients by Pre and Post Index Follow-up Time for Esophageal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	78,491	41,622	26,551	18,610	13,761
>1 Year	78,491	41,622	26,551	18,610	13,761
>2 Year	60,482	32,064	20,440	14,347	10,609
>3 Year	46,894	24,763	15,855	11,123	8,154
>4 Year	36,240	19,038	12,078	8,375	6,071
Males¹					
>0 Year	52,004	25,945	15,559	10,437	7,392
>1 Year	52,004	25,945	15,559	10,437	7,392
>2 Year	39,828	19,806	11,802	7,909	5,566
>3 Year	30,731	15,191	9,069	6,074	4,209
>4 Year	23,608	11,563	6,808	4,482	3,053
Females¹					
>0 Year	26,487	15,677	10,992	8,173	6,369
>1 Year	26,487	15,677	10,992	8,173	6,369
>2 Year	20,654	12,258	8,638	6,438	5,043
>3 Year	16,163	9,572	6,786	5,049	3,945
>4 Year	12,632	7,475	5,270	3,893	3,018

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6i. Counts of Patients by Pre and Post Index Follow-up Time for Kidney and Pelvic Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	218,240	148,610	109,006	80,521	59,933
>1 Year	218,240	148,610	109,006	80,521	59,933
>2 Year	163,001	110,989	81,199	59,811	44,244
>3 Year	125,470	85,025	62,179	45,479	33,297
>4 Year	97,000	65,541	47,692	34,440	24,877
Males¹					
>0 Year	126,658	85,167	61,563	44,684	32,572
>1 Year	126,658	85,167	61,563	44,684	32,572
>2 Year	93,782	62,842	45,142	32,505	23,401
>3 Year	71,453	47,450	33,957	24,222	17,164
>4 Year	54,601	35,979	25,508	17,821	12,396
Females¹					
>0 Year	91,582	63,443	47,443	35,837	27,361
>1 Year	91,582	63,443	47,443	35,837	27,361
>2 Year	69,219	48,147	36,057	27,306	20,843
>3 Year	54,017	37,575	28,222	21,257	16,133
>4 Year	42,399	29,562	22,184	16,619	12,481

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6j. Counts of Patients by Pre and Post Index Follow-up Time for Leukemia in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	274,935	182,429	134,599	100,416	75,283
>1 Year	274,935	182,429	134,599	100,416	75,283
>2 Year	206,751	137,062	101,191	75,528	56,320
>3 Year	158,749	104,502	77,005	57,183	42,271
>4 Year	121,404	79,359	58,166	42,816	31,250
Males¹					
>0 Year	140,082	90,166	65,037	47,411	34,820
>1 Year	140,082	90,166	65,037	47,411	34,820
>2 Year	104,830	67,181	48,296	35,130	25,577
>3 Year	80,049	50,882	36,427	26,302	18,877
>4 Year	60,896	38,343	27,187	19,395	13,687
Females¹					
>0 Year	134,853	92,263	69,562	53,005	40,463
>1 Year	134,853	92,263	69,562	53,005	40,463
>2 Year	101,921	69,881	52,895	40,398	30,743
>3 Year	78,700	53,620	40,578	30,881	23,394
>4 Year	60,508	41,016	30,979	23,421	17,563

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6k. Counts of Patients by Pre and Post Index Follow-up Time for Liver and Intrahepatic Bile Duct Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	102,250	43,801	27,520	17,516	11,385
>1 Year	102,250	43,801	27,520	17,516	11,385
>2 Year	77,976	33,165	20,781	13,098	8,313
>3 Year	59,833	25,098	15,766	9,736	5,930
>4 Year	45,721	19,129	12,014	7,292	4,227
Males¹					
>0 Year	58,487	24,202	14,953	9,317	5,907
>1 Year	58,487	24,202	14,953	9,317	5,907
>2 Year	44,593	18,372	11,374	7,032	4,350
>3 Year	34,209	13,930	8,630	5,218	3,094
>4 Year	26,140	10,658	6,618	3,963	2,248
Females¹					
>0 Year	43,763	19,599	12,567	8,199	5,478
>1 Year	43,763	19,599	12,567	8,199	5,478
>2 Year	33,383	14,793	9,407	6,066	3,963
>3 Year	25,624	11,168	7,136	4,518	2,836
>4 Year	19,581	8,471	5,396	3,329	1,979

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6I. Counts of Patients by Pre and Post Index Follow-up Time for Lung and Bronchus Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	606,009	296,399	192,176	136,414	101,441
>1 Year	606,009	296,399	192,176	136,414	101,441
>2 Year	470,592	230,522	149,389	106,396	79,432
>3 Year	369,078	180,840	117,594	83,871	62,582
>4 Year	287,774	141,659	92,202	65,637	48,873
Males¹					
>0 Year	293,631	131,240	81,322	55,868	40,585
>1 Year	293,631	131,240	81,322	55,868	40,585
>2 Year	226,462	101,116	62,413	42,940	31,232
>3 Year	176,222	78,350	48,441	33,303	24,119
>4 Year	136,094	60,488	37,289	25,487	18,369
Females¹					
>0 Year	312,378	165,159	110,854	80,546	60,856
>1 Year	312,378	165,159	110,854	80,546	60,856
>2 Year	244,130	129,406	86,976	63,456	48,200
>3 Year	192,856	102,490	69,153	50,568	38,463
>4 Year	151,680	81,171	54,913	40,150	30,504

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6m. Counts of Patients by Pre and Post Index Follow-up Time for Melanoma in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	520,614	382,513	282,056	208,242	152,429
>1 Year	520,614	382,513	282,056	208,242	152,429
>2 Year	386,859	284,264	207,438	151,800	109,269
>3 Year	292,668	213,126	154,022	111,029	77,884
>4 Year	219,745	158,555	112,627	79,006	53,222
Males¹					
>0 Year	277,258	203,339	149,491	109,680	79,518
>1 Year	277,258	203,339	149,491	109,680	79,518
>2 Year	208,754	152,834	111,011	80,544	57,361
>3 Year	159,542	115,702	83,143	59,351	41,121
>4 Year	120,595	86,568	61,036	42,341	28,107
Females¹					
>0 Year	243,356	179,174	132,565	98,562	72,911
>1 Year	243,356	179,174	132,565	98,562	72,911
>2 Year	178,105	131,430	96,427	71,256	51,908
>3 Year	133,126	97,424	70,879	51,678	36,763
>4 Year	99,150	71,987	51,591	36,665	25,115

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6n. Counts of Patients by Pre and Post Index Follow-up Time for Non-Hodgkin's Lymphoma in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	389,120	264,248	192,711	141,917	105,286
>1 Year	389,120	264,248	192,711	141,917	105,286
>2 Year	284,819	193,242	140,364	102,872	75,539
>3 Year	212,559	143,191	103,328	75,096	54,171
>4 Year	158,333	105,674	75,376	53,698	37,747
Males¹					
>0 Year	198,884	132,111	95,076	68,973	50,363
>1 Year	198,884	132,111	95,076	68,973	50,363
>2 Year	145,218	96,257	68,946	49,707	35,874
>3 Year	108,332	71,216	50,656	36,140	25,537
>4 Year	80,483	52,378	36,772	25,633	17,528
Females¹					
>0 Year	190,236	132,137	97,635	72,944	54,923
>1 Year	190,236	132,137	97,635	72,944	54,923
>2 Year	139,601	96,985	71,418	53,165	39,665
>3 Year	104,227	71,975	52,672	38,956	28,634
>4 Year	77,850	53,296	38,604	28,065	20,219

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6o. Counts of Patients by Pre and Post Index Follow-up Time for Other Endocrine Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	62,146	41,593	30,604	22,764	16,713
>1 Year	62,146	41,593	30,604	22,764	16,713
>2 Year	43,916	29,357	21,518	15,883	11,439
>3 Year	31,565	20,941	15,292	11,153	7,803
>4 Year	22,569	14,688	10,518	7,481	5,010
Males¹					
>0 Year	26,250	16,800	12,119	8,892	6,449
>1 Year	26,250	16,800	12,119	8,892	6,449
>2 Year	18,634	11,868	8,507	6,185	4,392
>3 Year	13,465	8,467	6,021	4,331	2,972
>4 Year	9,659	5,924	4,106	2,853	1,892
Females¹					
>0 Year	35,896	24,793	18,485	13,872	10,264
>1 Year	35,896	24,793	18,485	13,872	10,264
>2 Year	25,282	17,489	13,011	9,698	7,047
>3 Year	18,100	12,474	9,271	6,822	4,831
>4 Year	12,910	8,764	6,412	4,628	3,118

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6p. Counts of Patients by Pre and Post Index Follow-up Time for Pancreatic Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	147,094	62,436	38,313	26,452	19,109
>1 Year	147,094	62,436	38,313	26,452	19,109
>2 Year	114,931	47,947	29,111	19,954	14,277
>3 Year	90,075	36,915	22,262	15,126	10,681
>4 Year	70,119	28,193	16,728	11,273	7,812
Males¹					
>0 Year	73,527	29,991	17,884	11,996	8,478
>1 Year	73,527	29,991	17,884	11,996	8,478
>2 Year	57,253	22,940	13,547	9,004	6,288
>3 Year	44,631	17,540	10,269	6,704	4,590
>4 Year	34,489	13,284	7,637	4,934	3,288
Females¹					
>0 Year	73,567	32,445	20,429	14,456	10,631
>1 Year	73,567	32,445	20,429	14,456	10,631
>2 Year	57,678	25,007	15,564	10,950	7,989
>3 Year	45,444	19,375	11,993	8,422	6,091
>4 Year	35,630	14,909	9,091	6,339	4,524

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6q. Counts of Patients by Pre and Post Index Follow-up Time for Prostate Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	738,511	557,026	427,170	329,066	253,337
>1 Year	738,511	557,026	427,170	329,066	253,337
>2 Year	522,298	392,982	298,816	228,762	174,256
>3 Year	384,719	287,005	216,908	164,267	123,483
>4 Year	283,299	209,267	156,008	116,165	85,619
Males¹					
>0 Year	708,537	532,474	406,553	311,775	238,683
>1 Year	708,537	532,474	406,553	311,775	238,683
>2 Year	499,229	373,855	282,611	215,188	162,680
>3 Year	366,771	271,963	204,113	153,524	114,286
>4 Year	269,238	197,436	145,895	107,690	78,357
Females¹					
>0 Year	29,974	24,552	20,617	17,291	14,654
>1 Year	29,974	24,552	20,617	17,291	14,654
>2 Year	23,069	19,127	16,205	13,574	11,576
>3 Year	17,948	15,042	12,795	10,743	9,197
>4 Year	14,061	11,831	10,113	8,475	7,262

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6r. Counts of Patients by Pre and Post Index Follow-up Time for Rectal Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	221,164	149,037	108,160	79,777	59,847
>1 Year	221,164	149,037	108,160	79,777	59,847
>2 Year	158,753	106,856	77,119	56,404	41,825
>3 Year	116,122	77,629	55,566	40,203	29,272
>4 Year	85,487	56,606	40,018	28,543	20,359
Males¹					
>0 Year	112,161	74,179	53,016	38,481	28,390
>1 Year	112,161	74,179	53,016	38,481	28,390
>2 Year	80,160	52,929	37,614	27,011	19,650
>3 Year	58,428	38,231	26,913	19,083	13,631
>4 Year	42,850	27,734	19,244	13,411	9,346
Females¹					
>0 Year	109,003	74,858	55,144	41,296	31,457
>1 Year	109,003	74,858	55,144	41,296	31,457
>2 Year	78,593	53,927	39,505	29,393	22,175
>3 Year	57,694	39,398	28,653	21,120	15,641
>4 Year	42,637	28,872	20,774	15,132	11,013

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6s. Counts of Patients by Pre and Post Index Follow-up Time for Thyroid Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	169,058	122,649	90,084	66,521	48,880
>1 Year	169,058	122,649	90,084	66,521	48,880
>2 Year	116,360	85,295	62,664	46,281	33,594
>3 Year	84,131	61,548	45,117	33,003	23,473
>4 Year	61,175	44,554	32,230	23,140	15,912
Males¹					
>0 Year	44,486	31,878	23,281	17,063	12,399
>1 Year	44,486	31,878	23,281	17,063	12,399
>2 Year	31,668	22,819	16,603	12,131	8,676
>3 Year	23,225	16,681	12,074	8,734	6,126
>4 Year	17,088	12,206	8,723	6,209	4,189
Females¹					
>0 Year	124,572	90,771	66,803	49,458	36,481
>1 Year	124,572	90,771	66,803	49,458	36,481
>2 Year	84,692	62,476	46,061	34,150	24,918
>3 Year	60,906	44,867	33,043	24,269	17,347
>4 Year	44,087	32,348	23,507	16,931	11,723

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Table 6t. Counts of Patients by Pre and Post Index Follow-up Time for Urinary Bladder Cancer in the Sentinel Distributed Database (SDD) from January 1, 2000 to August 31, 2017

Pre-Index Enrollment	Post-Index Enrollment				
	>0 Year	>1 Year	>2 Year	>3 Year	>4 Year
Total¹					
>0 Year	264,765	185,959	136,761	101,438	75,022
>1 Year	264,765	185,959	136,761	101,438	75,022
>2 Year	196,513	136,902	99,476	73,102	53,251
>3 Year	149,532	102,982	74,074	53,603	38,198
>4 Year	113,547	77,191	54,747	38,735	26,850
Males¹					
>0 Year	184,329	129,592	94,439	69,471	50,787
>1 Year	184,329	129,592	94,439	69,471	50,787
>2 Year	136,556	95,194	68,396	49,739	35,738
>3 Year	103,696	71,352	50,727	36,267	25,433
>4 Year	78,790	53,482	37,425	26,129	17,798
Females¹					
>0 Year	80,436	56,367	42,322	31,967	24,235
>1 Year	80,436	56,367	42,322	31,967	24,235
>2 Year	59,957	41,708	31,080	23,363	17,513
>3 Year	45,836	31,630	23,347	17,336	12,765
>4 Year	34,757	23,709	17,322	12,606	9,052

¹Durations across patients with at least one of the incident site-specific cancers of interest, based on the first incident cancer diagnosis

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (March 29, 2018)

DP ID	Start Date ¹	End Date ¹
DP01	1/1/2008	6/30/2017
DP02	1/1/2012	6/30/2016
DP03	1/1/2006	7/31/2017
DP04	1/1/2000	6/30/2017
DP05	1/1/2000	1/31/2017
DP06	1/1/2000	3/31/2015
DP07	1/1/2000	3/31/2016
DP08	1/1/2007	7/31/2017
DP09	1/1/2000	7/31/2017
DP10	1/1/2000	7/31/2017
DP11	1/1/2005	6/30/2017
DP12	1/1/2000	7/31/2017
DP13	1/1/2000	8/31/2017
DP14	1/1/2004	10/31/2015
DP15	1/1/2008	3/31/2017
DP16	1/1/2000	12/31/2016

¹The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.

Appendix B. List of 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 Exposures in this Report

Code	Description	Code Type	Code Category
Anal Cancer			
154.2	Malignant neoplasm of anal canal	Diagnosis	ICD-9-CM
154.3	Malignant neoplasm of anus, unspecified site	Diagnosis	ICD-9-CM
154.8	Malignant neoplasm of other sites of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-9-CM
C21.1	Malignant neoplasm of anal canal	Diagnosis	ICD-10-CM
C21.0	Malignant neoplasm of anus, unspecified	Diagnosis	ICD-10-CM
C21.2	Malignant neoplasm of cloacogenic zone	Diagnosis	ICD-10-CM
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM
Breast Cancer, Female			
174	Malignant neoplasm of female breast	Diagnosis	ICD-9-CM
174.0	Malignant neoplasm of nipple and areola of female breast	Diagnosis	ICD-9-CM
174.1	Malignant neoplasm of central portion of female breast	Diagnosis	ICD-9-CM
174.2	Malignant neoplasm of upper-inner quadrant of female breast	Diagnosis	ICD-9-CM
174.3	Malignant neoplasm of lower-inner quadrant of female breast	Diagnosis	ICD-9-CM
174.4	Malignant neoplasm of upper-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.5	Malignant neoplasm of lower-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.6	Malignant neoplasm of axillary tail of female breast	Diagnosis	ICD-9-CM
174.8	Malignant neoplasm of other specified sites of female breast	Diagnosis	ICD-9-CM
174.9	Malignant neoplasm of breast (female), unspecified site	Diagnosis	ICD-9-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
Breast Cancer, Male			
175	Malignant neoplasm of male breast	Diagnosis	ICD-9-CM
175.0	Malignant neoplasm of nipple and areola of male breast	Diagnosis	ICD-9-CM
175.9	Malignant neoplasm of other and unspecified sites of male breast	Diagnosis	ICD-9-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
C50.622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
Cervical Cancer			
180	Malignant neoplasm of cervix uteri	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
180.0	Malignant neoplasm of endocervix	Diagnosis	ICD-9-CM
180.1	Malignant neoplasm of exocervix	Diagnosis	ICD-9-CM
180.8	Malignant neoplasm of other specified sites of cervix	Diagnosis	ICD-9-CM
180.9	Malignant neoplasm of cervix uteri, unspecified site	Diagnosis	ICD-9-CM
C53.0	Malignant neoplasm of endocervix	Diagnosis	ICD-10-CM
C53.1	Malignant neoplasm of exocervix	Diagnosis	ICD-10-CM
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C53.9	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
Colon Cancer			
153	Malignant neoplasm of colon	Diagnosis	ICD-9-CM
153.0	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-9-CM
153.1	Malignant neoplasm of transverse colon	Diagnosis	ICD-9-CM
153.2	Malignant neoplasm of descending colon	Diagnosis	ICD-9-CM
153.3	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-9-CM
153.4	Malignant neoplasm of cecum	Diagnosis	ICD-9-CM
153.5	Malignant neoplasm of appendix	Diagnosis	ICD-9-CM
153.6	Malignant neoplasm of ascending colon	Diagnosis	ICD-9-CM
153.7	Malignant neoplasm of splenic flexure	Diagnosis	ICD-9-CM
153.8	Malignant neoplasm of other specified sites of large intestine	Diagnosis	ICD-9-CM
153.9	Malignant neoplasm of colon, unspecified site	Diagnosis	ICD-9-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
Endometrial Cancer			
179	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-9-CM
182	Malignant neoplasm of body of uterus	Diagnosis	ICD-9-CM
182.0	Malignant neoplasm of corpus uteri, except isthmus	Diagnosis	ICD-9-CM
182.1	Malignant neoplasm of isthmus	Diagnosis	ICD-9-CM
182.8	Malignant neoplasm of other specified sites of body of uterus	Diagnosis	ICD-9-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
Esophageal Cancer			
150	Malignant neoplasm of esophagus	Diagnosis	ICD-9-CM
150.0	Malignant neoplasm of cervical esophagus	Diagnosis	ICD-9-CM
150.1	Malignant neoplasm of thoracic esophagus	Diagnosis	ICD-9-CM
150.2	Malignant neoplasm of abdominal esophagus	Diagnosis	ICD-9-CM
150.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-9-CM
150.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-9-CM
150.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-9-CM
150.8	Malignant neoplasm of other specified part of esophagus	Diagnosis	ICD-9-CM
150.9	Malignant neoplasm of esophagus, unspecified site	Diagnosis	ICD-9-CM
C15.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-10-CM
C15.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-10-CM
C15.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-10-CM
C15.8	Malignant neoplasm of overlapping sites of esophagus	Diagnosis	ICD-10-CM
C15.9	Malignant neoplasm of esophagus, unspecified	Diagnosis	ICD-10-CM
Kidney, Renal, and Pelvic Cancer			
189	Malignant neoplasm of kidney and other and unspecified urinary organs	Diagnosis	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
189.1	Malignant neoplasm of renal pelvis	Diagnosis	ICD-9-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.1	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C65.2	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C65.9	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM
Leukemia			
202.4	Leukemic reticuloendotheliosis	Diagnosis	ICD-9-CM
202.40	Leukemic reticuloendotheliosis, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.41	Leukemic reticuloendotheliosis of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.42	Leukemic reticuloendotheliosis of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.43	Leukemic reticuloendotheliosis of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.44	Leukemic reticuloendotheliosis of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.45	Leukemic reticuloendotheliosis of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.46	Leukemic reticuloendotheliosis of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.47	Leukemic reticuloendotheliosis of spleen	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
202.48	Leukemic reticuloendotheliosis of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
203.1	Plasma cell leukemia	Diagnosis	ICD-9-CM
203.10	Plasma cell leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
203.11	Plasma cell leukemia in remission	Diagnosis	ICD-9-CM
204.0	Acute lymphoid leukemia	Diagnosis	ICD-9-CM
204.00	Acute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.01	Acute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.1	Chronic lymphoid leukemia	Diagnosis	ICD-9-CM
204.10	Chronic lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.11	Chronic lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.2	Subacute lymphoid leukemia	Diagnosis	ICD-9-CM
204.20	Subacute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.21	Subacute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.8	Other lymphoid leukemia	Diagnosis	ICD-9-CM
204.80	Other lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.81	Other lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.9	Unspecified lymphoid leukemia	Diagnosis	ICD-9-CM
204.90	Unspecified lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.91	Unspecified lymphoid leukemia in remission	Diagnosis	ICD-9-CM
205	Myeloid leukemia	Diagnosis	ICD-9-CM
205.0	Acute myeloid leukemia	Diagnosis	ICD-9-CM
205.00	Acute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.01	Acute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.1	Chronic myeloid leukemia	Diagnosis	ICD-9-CM
205.10	Chronic myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.11	Chronic myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.2	Subacute myeloid leukemia	Diagnosis	ICD-9-CM
205.20	Subacute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.21	Subacute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.3	Myeloid sarcoma	Diagnosis	ICD-9-CM
205.30	Myeloid sarcoma, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.31	Myeloid sarcoma in remission	Diagnosis	ICD-9-CM
205.8	Other myeloid leukemia	Diagnosis	ICD-9-CM
205.80	Other myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.81	Other myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.9	Unspecified myeloid leukemia	Diagnosis	ICD-9-CM
205.90	Unspecified myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.91	Unspecified myeloid leukemia in remission	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
206	Monocytic leukemia	Diagnosis	ICD-9-CM
206.0	Acute monocytic leukemia	Diagnosis	ICD-9-CM
206.00	Acute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.01	Acute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.1	Chronic monocytic leukemia	Diagnosis	ICD-9-CM
206.10	Chronic monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.11	Chronic monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.2	Subacute monocytic leukemia	Diagnosis	ICD-9-CM
206.20	Subacute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.21	Subacute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.8	Other monocytic leukemia	Diagnosis	ICD-9-CM
206.80	Other monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.81	Other monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.9	Unspecified monocytic leukemia	Diagnosis	ICD-9-CM
206.90	Unspecified monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.91	Unspecified monocytic leukemia in remission	Diagnosis	ICD-9-CM
207	Other specified leukemia	Diagnosis	ICD-9-CM
207.0	Acute erythremia and erythroleukemia	Diagnosis	ICD-9-CM
207.00	Acute erythremia and erythroleukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.01	Acute erythremia and erythroleukemia in remission	Diagnosis	ICD-9-CM
207.1	Chronic erythremia	Diagnosis	ICD-9-CM
207.10	Chronic erythremia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.11	Chronic erythremia in remission	Diagnosis	ICD-9-CM
207.2	Megakaryocytic leukemia	Diagnosis	ICD-9-CM
207.20	Megakaryocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.21	Megakaryocytic leukemia in remission	Diagnosis	ICD-9-CM
207.8	Other specified leukemia	Diagnosis	ICD-9-CM
207.80	Other specified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.81	Other specified leukemia in remission	Diagnosis	ICD-9-CM
208.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.00	Acute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.01	Acute leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.10	Chronic leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.11	Chronic leukemia of unspecified cell type in remission	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
208.2	Subacute leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.20	Subacute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.21	Subacute leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.8	Other leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.80	Other leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.81	Other leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.9	Unspecified leukemia	Diagnosis	ICD-9-CM
208.90	Unspecified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.91	Unspecified leukemia in remission	Diagnosis	ICD-9-CM
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.11	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.01	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C91.10	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.11	Chronic lymphocytic leukemia of B-cell type in remission	Diagnosis	ICD-10-CM
C91.30	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.31	Prolymphocytic leukemia of B-cell type, in remission	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.41	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C91.50	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM
C91.51	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C91.60	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.61	Prolymphocytic leukemia of T-cell type, in remission	Diagnosis	ICD-10-CM
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.91	Lymphoid leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C91.A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91.A1	Mature B-cell leukemia Burkitt-type, in remission	Diagnosis	ICD-10-CM
C91.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z1	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C92.00	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.01	Acute myeloblastic leukemia, in remission	Diagnosis	ICD-10-CM
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C92.11	Chronic myeloid leukemia, BCR/ABL-positive, in remission	Diagnosis	ICD-10-CM
C92.20	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C92.21	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission	Diagnosis	ICD-10-CM
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C92.31	Myeloid sarcoma, in remission	Diagnosis	ICD-10-CM
C92.40	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.41	Acute promyelocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.51	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.60	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM
C92.61	Acute myeloid leukemia with 11q23-abnormality in remission	Diagnosis	ICD-10-CM
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.91	Myeloid leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C92.A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92.A1	Acute myeloid leukemia with multilineage dysplasia, in remission	Diagnosis	ICD-10-CM
C92.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92.Z1	Other myeloid leukemia, in remission	Diagnosis	ICD-10-CM
C93.00	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.01	Acute monoblastic/monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.11	Chronic myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.30	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.31	Juvenile myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.91	Monocytic leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C93.Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.Z1	Other monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.01	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.21	Acute megakaryoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C94.30	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.31	Mast cell leukemia, in remission	Diagnosis	ICD-10-CM
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.81	Other specified leukemias, in remission	Diagnosis	ICD-10-CM
C95.00	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.01	Acute leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.10	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.11	Chronic leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM

Liver and Intrahepatic Bile Duct Cancer

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 Exposures in this Report

Code	Description	Code Type	Code Category
155	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-9-CM
155.0	Malignant neoplasm of liver, primary	Diagnosis	ICD-9-CM
155.1	Malignant neoplasm of intrahepatic bile ducts	Diagnosis	ICD-9-CM
C22.3	Angiosarcoma of liver	Diagnosis	ICD-10-CM
C22.4	Other sarcomas of liver	Diagnosis	ICD-10-CM
C22.7	Other specified carcinomas of liver	Diagnosis	ICD-10-CM
C22.8	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
Lung and Bronchial Cancer			
162	Malignant neoplasm of trachea, bronchus, and lung	Diagnosis	ICD-9-CM
162.2	Malignant neoplasm of main bronchus	Diagnosis	ICD-9-CM
162.3	Malignant neoplasm of upper lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.4	Malignant neoplasm of middle lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.5	Malignant neoplasm of lower lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.8	Malignant neoplasm of other parts of bronchus or lung	Diagnosis	ICD-9-CM
162.9	Malignant neoplasm of bronchus and lung, unspecified site	Diagnosis	ICD-9-CM
C34.00	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
Melanoma			
172	Malignant melanoma of skin	Diagnosis	ICD-9-CM
172.0	Malignant melanoma of skin of lip	Diagnosis	ICD-9-CM
172.1	Malignant melanoma of skin of eyelid, including canthus	Diagnosis	ICD-9-CM
172.2	Malignant melanoma of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
172.3	Malignant melanoma of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
172.4	Malignant melanoma of skin of scalp and neck	Diagnosis	ICD-9-CM
172.5	Malignant melanoma of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
172.6	Malignant melanoma of skin of upper limb, including shoulder	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
172.7	Malignant melanoma of skin of lower limb, including hip	Diagnosis	ICD-9-CM
172.8	Malignant melanoma of other specified sites of skin	Diagnosis	ICD-9-CM
172.9	Melanoma of skin, site unspecified	Diagnosis	ICD-9-CM
C43.0	Malignant melanoma of lip	Diagnosis	ICD-10-CM
C43.10	Malignant melanoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C43.11	Malignant melanoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C43.12	Malignant melanoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C43.20	Malignant melanoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C43.21	Malignant melanoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C43.22	Malignant melanoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C43.30	Malignant melanoma of unspecified part of face	Diagnosis	ICD-10-CM
C43.31	Malignant melanoma of nose	Diagnosis	ICD-10-CM
C43.39	Malignant melanoma of other parts of face	Diagnosis	ICD-10-CM
C43.4	Malignant melanoma of scalp and neck	Diagnosis	ICD-10-CM
C43.51	Malignant melanoma of anal skin	Diagnosis	ICD-10-CM
C43.52	Malignant melanoma of skin of breast	Diagnosis	ICD-10-CM
C43.59	Malignant melanoma of other part of trunk	Diagnosis	ICD-10-CM
C43.60	Malignant melanoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.61	Malignant melanoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.62	Malignant melanoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.70	Malignant melanoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C43.71	Malignant melanoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C43.72	Malignant melanoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C43.8	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C43.9	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
D03.0	Melanoma in situ of lip	Diagnosis	ICD-10-CM
D03.10	Melanoma in situ of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D03.11	Melanoma in situ of right eyelid, including canthus	Diagnosis	ICD-10-CM
D03.12	Melanoma in situ of left eyelid, including canthus	Diagnosis	ICD-10-CM
D03.20	Melanoma in situ of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D03.21	Melanoma in situ of right ear and external auricular canal	Diagnosis	ICD-10-CM
D03.22	Melanoma in situ of left ear and external auricular canal	Diagnosis	ICD-10-CM
D03.30	Melanoma in situ of unspecified part of face	Diagnosis	ICD-10-CM
D03.39	Melanoma in situ of other parts of face	Diagnosis	ICD-10-CM
D03.4	Melanoma in situ of scalp and neck	Diagnosis	ICD-10-CM
D03.51	Melanoma in situ of anal skin	Diagnosis	ICD-10-CM
D03.52	Melanoma in situ of breast (skin) (soft tissue)	Diagnosis	ICD-10-CM
D03.59	Melanoma in situ of other part of trunk	Diagnosis	ICD-10-CM
D03.60	Melanoma in situ of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.61	Melanoma in situ of right upper limb, including shoulder	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
D03.62	Melanoma in situ of left upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.70	Melanoma in situ of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D03.71	Melanoma in situ of right lower limb, including hip	Diagnosis	ICD-10-CM
D03.72	Melanoma in situ of left lower limb, including hip	Diagnosis	ICD-10-CM
D03.8	Melanoma in situ of other sites	Diagnosis	ICD-10-CM
D03.9	Melanoma in situ, unspecified	Diagnosis	ICD-10-CM
Non-Hodgkin's Lymphoma			
	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue		ICD-9-CM
200	lymphatic tissue	Diagnosis	ICD-9-CM
200.00	Reticulosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.0	Reticulosarcoma	Diagnosis	ICD-9-CM
200.01	Reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.02	Reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.03	Reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.04	Reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.05	Reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.06	Reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.07	Reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.08	Reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.1	Lymphosarcoma	Diagnosis	ICD-9-CM
200.10	Lymphosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.11	Lymphosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.12	Lymphosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.13	Lymphosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.14	Lymphosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.15	Lymphosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.16	Lymphosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.17	Lymphosarcoma of spleen	Diagnosis	ICD-9-CM
200.18	Lymphosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.20	Burkitt's tumor or lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.2	Burkitt's tumor or lymphoma	Diagnosis	ICD-9-CM
200.21	Burkitt's tumor or lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.22	Burkitt's tumor or lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.23	Burkitt's tumor or lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.24	Burkitt's tumor or lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.25	Burkitt's tumor or lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.26	Burkitt's tumor or lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.27	Burkitt's tumor or lymphoma of spleen	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
200.28	Burkitt's tumor or lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.3	Marginal zone lymphoma	Diagnosis	ICD-9-CM
200.30	Marginal zone lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.31	Marginal zone lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.32	Marginal zone lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.33	Marginal zone lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.34	Marginal zone lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.35	Marginal zone lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.36	Marginal zone lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.37	Marginal zone lymphoma, spleen	Diagnosis	ICD-9-CM
200.38	Marginal zone lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.40	Mantle cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.4	Mantle cell lymphoma	Diagnosis	ICD-9-CM
200.41	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.42	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.43	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.44	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.45	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.46	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.47	Mantle cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.48	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.50	Primary central nervous system lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.5	Primary central nervous system lymphoma	Diagnosis	ICD-9-CM
200.51	Primary central nervous system lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.52	Primary central nervous system lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.53	Primary central nervous system lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.54	Primary central nervous system lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.55	Primary central nervous system lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.56	Primary central nervous system lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.57	Primary central nervous system lymphoma, spleen	Diagnosis	ICD-9-CM
200.58	Primary central nervous system lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.60	Anaplastic large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.6	Anaplastic large cell lymphoma	Diagnosis	ICD-9-CM
200.61	Anaplastic large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.62	Anaplastic large cell lymphoma, intrathoracic lymph nodes	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
200.63	Anaplastic large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.64	Anaplastic large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.65	Anaplastic large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.66	Anaplastic large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.67	Anaplastic large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.68	Anaplastic large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.7	Large cell lymphoma	Diagnosis	ICD-9-CM
200.70	Large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.71	Large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.72	Large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.73	Large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.74	Large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.75	Large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.76	Large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.77	Large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.78	Large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.80	Other named variants, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.8	Other named variants of lymphosarcoma and reticulosarcoma	Diagnosis	ICD-9-CM
200.81	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.82	Other named variants of lymphosarcoma and reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.83	Other named variants of lymphosarcoma and reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.84	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.85	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.86	Other named variants of lymphosarcoma and reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.87	Other named variants of lymphosarcoma and reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.88	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.00	Nodular lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.0	Nodular lymphoma	Diagnosis	ICD-9-CM
202.01	Nodular lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.02	Nodular lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.03	Nodular lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.04	Nodular lymphoma of lymph nodes of axilla and upper limb	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
202.05	Nodular lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.06	Nodular lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.07	Nodular lymphoma of spleen	Diagnosis	ICD-9-CM
202.08	Nodular lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.10	Mycosis fungoides, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.1	Mycosis fungoides	Diagnosis	ICD-9-CM
202.11	Mycosis fungoides of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.12	Mycosis fungoides of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.13	Mycosis fungoides of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.14	Mycosis fungoides of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.15	Mycosis fungoides of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.16	Mycosis fungoides of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.17	Mycosis fungoides of spleen	Diagnosis	ICD-9-CM
202.18	Mycosis fungoides of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.20	Sezary's disease, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.2	Sezary's disease	Diagnosis	ICD-9-CM
202.21	Sezary's disease of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.22	Sezary's disease of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.23	Sezary's disease of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.24	Sezary's disease of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.25	Sezary's disease of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.26	Sezary's disease of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.27	Sezary's disease of spleen	Diagnosis	ICD-9-CM
202.28	Sezary's disease of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.8	Other malignant lymphomas	Diagnosis	ICD-9-CM
202.80	Other malignant lymphomas, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.81	Other malignant lymphomas of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.82	Other malignant lymphomas of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.83	Other malignant lymphomas of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.84	Other malignant lymphomas of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.85	Other malignant lymphomas of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.86	Other malignant lymphomas of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.87	Other malignant lymphomas of spleen	Diagnosis	ICD-9-CM
202.88	Other malignant lymphomas of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.90	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.9	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
202.91	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.92	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.93	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.94	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.95	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.96	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.97	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of spleen	Diagnosis	ICD-9-CM
202.98	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
C82.00	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C82.01	Follicular lymphoma grade I, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.03	Follicular lymphoma grade I, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.04	Follicular lymphoma grade I, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.05	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.06	Follicular lymphoma grade I, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.07	Follicular lymphoma grade I, spleen	Diagnosis	ICD-10-CM
C82.08	Follicular lymphoma grade I, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.09	Follicular lymphoma grade I, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.10	Follicular lymphoma grade II, unspecified site	Diagnosis	ICD-10-CM
C82.11	Follicular lymphoma grade II, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.13	Follicular lymphoma grade II, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.14	Follicular lymphoma grade II, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.15	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.16	Follicular lymphoma grade II, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.17	Follicular lymphoma grade II, spleen	Diagnosis	ICD-10-CM
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.20	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.27	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.30	Follicular lymphoma grade IIIa, unspecified site	Diagnosis	ICD-10-CM
C82.31	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.33	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.34	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.35	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.36	Follicular lymphoma grade IIIa, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.37	Follicular lymphoma grade IIIa, spleen	Diagnosis	ICD-10-CM
C82.38	Follicular lymphoma grade IIIa, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.39	Follicular lymphoma grade IIIa, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.40	Follicular lymphoma grade IIIb, unspecified site	Diagnosis	ICD-10-CM
C82.41	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.43	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.44	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.45	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.46	Follicular lymphoma grade IIIb, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.47	Follicular lymphoma grade IIIb, spleen	Diagnosis	ICD-10-CM
C82.48	Follicular lymphoma grade IIIb, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.49	Follicular lymphoma grade IIIb, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.50	Diffuse follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.51	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.53	Diffuse follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.54	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.55	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.56	Diffuse follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.57	Diffuse follicle center lymphoma, spleen	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C82.58	Diffuse follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.59	Diffuse follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.60	Cutaneous follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.61	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.63	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.64	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.67	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.80	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.87	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.90	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.93	Follicular lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.94	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.95	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.96	Follicular lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.97	Follicular lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C82.98	Follicular lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.99	Follicular lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.00	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.01	Small cell B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.03	Small cell B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.04	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C83.05	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.07	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.10	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.11	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.17	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.19	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.30	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.37	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.57	Lymphoblastic (diffuse) lymphoma, spleen	Diagnosis	ICD-10-CM
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.70	Burkitt lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.71	Burkitt lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.72	Burkitt lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.73	Burkitt lymphoma, intra-abdominal lymph nodes	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C83.74	Burkitt lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.75	Burkitt lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.76	Burkitt lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.77	Burkitt lymphoma, spleen	Diagnosis	ICD-10-CM
C83.78	Burkitt lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.79	Burkitt lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.80	Other non-follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.81	Other non-follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.84	Other non-follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.85	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.86	Other non-follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.87	Other non-follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C83.88	Other non-follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.89	Other non-follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.90	Non-follicular (diffuse) lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C83.91	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.93	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.94	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.95	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.96	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.97	Non-follicular (diffuse) lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C83.98	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.99	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.00	Mycosis fungoides, unspecified site	Diagnosis	ICD-10-CM
C84.01	Mycosis fungoides, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.02	Mycosis fungoides, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.03	Mycosis fungoides, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.04	Mycosis fungoides, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.05	Mycosis fungoides, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.06	Mycosis fungoides, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.07	Mycosis fungoides, spleen	Diagnosis	ICD-10-CM
C84.08	Mycosis fungoides, lymph nodes of multiple sites	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C84.09	Mycosis fungoides, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.10	Sezary disease, unspecified site	Diagnosis	ICD-10-CM
C84.11	Sezary disease, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.12	Sezary disease, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.13	Sezary disease, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.14	Sezary disease, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.15	Sezary disease, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.16	Sezary disease, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.17	Sezary disease, spleen	Diagnosis	ICD-10-CM
C84.18	Sezary disease, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.19	Sezary disease, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.60	Anaplastic large cell lymphoma, ALK-positive, unspecified site	Diagnosis	ICD-10-CM
C84.61	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.63	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.64	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.65	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.66	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.67	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C84.68	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.69	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.70	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C84.71	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.73	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.74	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.75	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.76	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.77	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C84.78	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.90	Mature T/NK-cell lymphomas, unspecified, unspecified site	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C84.91	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.93	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.94	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.95	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.96	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.97	Mature T/NK-cell lymphomas, unspecified, spleen	Diagnosis	ICD-10-CM
C84.98	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.99	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.A0	Cutaneous T-cell lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.A7	Cutaneous T-cell lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C84.A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.Z0	Other mature T/NK-cell lymphomas, unspecified site	Diagnosis	ICD-10-CM
C84.Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.Z7	Other mature T/NK-cell lymphomas, spleen	Diagnosis	ICD-10-CM
C84.Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.10	Unspecified B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.11	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.13	Unspecified B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C85.14	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.15	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.16	Unspecified B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.17	Unspecified B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.18	Unspecified B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.19	Unspecified B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.20	Mediastinal (thymic) large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.23	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.24	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.87	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.97	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C86.0	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C86.1	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.2	Enteropathy-type (intestinal) T-cell lymphoma	Diagnosis	ICD-10-CM
C86.3	Subcutaneous panniculitis-like T-cell lymphoma	Diagnosis	ICD-10-CM
C86.4	Blastic NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.5	Angioimmunoblastic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.6	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM
C96.4	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
Other Endocrine Cancer			
194	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.0	Malignant neoplasm of adrenal gland	Diagnosis	ICD-9-CM
194.1	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-9-CM
194.3	Malignant neoplasm of pituitary gland and craniopharyngeal duct	Diagnosis	ICD-9-CM
194.4	Malignant neoplasm of pineal gland	Diagnosis	ICD-9-CM
194.5	Malignant neoplasm of carotid body	Diagnosis	ICD-9-CM
194.6	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-9-CM
194.8	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.9	Malignant neoplasm of endocrine gland, site unspecified	Diagnosis	ICD-9-CM
C74.00	Malignant neoplasm of cortex of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.01	Malignant neoplasm of cortex of right adrenal gland	Diagnosis	ICD-10-CM
C74.02	Malignant neoplasm of cortex of left adrenal gland	Diagnosis	ICD-10-CM
C74.10	Malignant neoplasm of medulla of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.11	Malignant neoplasm of medulla of right adrenal gland	Diagnosis	ICD-10-CM
C74.12	Malignant neoplasm of medulla of left adrenal gland	Diagnosis	ICD-10-CM
C74.90	Malignant neoplasm of unspecified part of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.91	Malignant neoplasm of unspecified part of right adrenal gland	Diagnosis	ICD-10-CM
C74.92	Malignant neoplasm of unspecified part of left adrenal gland	Diagnosis	ICD-10-CM
C75.0	Malignant neoplasm of parathyroid gland	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
C75.1	Malignant neoplasm of pituitary gland	Diagnosis	ICD-10-CM
C75.2	Malignant neoplasm of craniopharyngeal duct	Diagnosis	ICD-10-CM
C75.3	Malignant neoplasm of pineal gland	Diagnosis	ICD-10-CM
C75.4	Malignant neoplasm of carotid body	Diagnosis	ICD-10-CM
C75.5	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-10-CM
C75.8	Malignant neoplasm with pluriglandular involvement, unspecified	Diagnosis	ICD-10-CM
C75.9	Malignant neoplasm of endocrine gland, unspecified	Diagnosis	ICD-10-CM
Pancreatic Cancer			
157	Malignant neoplasm of pancreas	Diagnosis	ICD-9-CM
157.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-9-CM
157.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-9-CM
157.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-9-CM
157.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-9-CM
157.4	Malignant neoplasm of islets of Langerhans	Diagnosis	ICD-9-CM
157.8	Malignant neoplasm of other specified sites of pancreas	Diagnosis	ICD-9-CM
157.9	Malignant neoplasm of pancreas, part unspecified	Diagnosis	ICD-9-CM
C25.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-10-CM
C25.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-10-CM
C25.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-10-CM
C25.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-10-CM
C25.4	Malignant neoplasm of endocrine pancreas	Diagnosis	ICD-10-CM
C25.7	Malignant neoplasm of other parts of pancreas	Diagnosis	ICD-10-CM
C25.8	Malignant neoplasm of overlapping sites of pancreas	Diagnosis	ICD-10-CM
C25.9	Malignant neoplasm of pancreas, unspecified	Diagnosis	ICD-10-CM
Prostate Cancer			
185	Malignant neoplasm of prostate	Diagnosis	ICD-9-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
Rectal Cancer			
154.0	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-9-CM
154.1	Malignant neoplasm of rectum	Diagnosis	ICD-9-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
Thyroid Cancer			
193	Malignant neoplasm of thyroid gland	Diagnosis	ICD-9-CM
C73	Malignant neoplasm of thyroid gland	Diagnosis	ICD-10-CM
Urinary Bladder Cancer			
188	Malignant neoplasm of bladder	Diagnosis	ICD-9-CM
188.0	Malignant neoplasm of trigone of urinary bladder	Diagnosis	ICD-9-CM
188.1	Malignant neoplasm of dome of urinary bladder	Diagnosis	ICD-9-CM
188.2	Malignant neoplasm of lateral wall of urinary bladder	Diagnosis	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 Exposures in this Report

Code	Description	Code Type	Code Category
188.3	Malignant neoplasm of anterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.4	Malignant neoplasm of posterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-9-CM
188.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-9-CM
188.7	Malignant neoplasm of urachus	Diagnosis	ICD-9-CM
188.8	Malignant neoplasm of other specified sites of bladder	Diagnosis	ICD-9-CM
188.9	Malignant neoplasm of bladder, part unspecified	Diagnosis	ICD-9-CM
C67.0	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C67.1	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C67.2	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C67.3	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C67.4	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C67.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C67.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-10-CM
C67.7	Malignant neoplasm of urachus	Diagnosis	ICD-10-CM
C67.8	Malignant neoplasm of overlapping sites of bladder	Diagnosis	ICD-10-CM
C67.9	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM

Appendix C. Specifications Defining Parameters Used in this Request

This request executed Sentinel's Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.0.3 with additional ad hoc programming, to describe the duration of follow-up among patients prior to and after the first cancer diagnosis observed in the Sentinel Distributed Database (SDD).

Query Period: 1/1/2000 - Most Recent available Data
Enrollment Gap: 45 days
Enrollment Requirement: 365 days
Age Groups: 0-44, 45-64, 65+ years
Coverage Requirement: Medical Coverage
Enrollment (Pre and Post Index) Categories: All, >1 year, >2 years, >3 years, >4 years

Scenario	Event						Outcome		
	Incident Exposure	Care Setting	Incident with Respect to	Incidence Care Setting	Washout (Days)	Cohort Definition	ITT (Intent to Treat) Days	Censor due to Evidence of Death	
1	All Listed Cancer Sites	Any	All Cancer Sites	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
2	Anal Cancer	Any	Anus Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
3	Breast Cancer, Female	Any	Breast Cancer, Female	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
4	Breast Cancer, Male	Any	Breast Cancer, Male	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
5	Cervical Cancer	Any	Cervical Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
6	Colon Cancer	Any	Colon Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
7	Endometrial Cancer	Any	Endometrial Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)

Appendix C. Specifications Defining Parameters Used in this Request

Scenario	Event							Outcome	
	Incident Exposure	Care Setting	Incident with Respect to	Incidence Care Setting	Washout (Days)	Cohort Definition	ITT (Intent to Treat) Days	Censor due to Evidence of Death	
8	Esophagus Cancer	Any	Esophagus Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
9	Kidney and Renal Pelvis Cancer	Any	Kidney and Renal Pelvis Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
10	Leukemia	Any	Leukemia	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
11	Liver and Intrahepatic Bile Duct Cancer	Any	Liver and Intrahepatic Bile Duct Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
12	Lung and Bronchus Cancer	Any	Lung and Bronchus Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
13	Melanoma	Any	Melanoma	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
14	Non-Hodgkin's Lymphoma	Any	Non-Hodgkin's Lymphoma	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
15	Other Endocrine Cancer	Any	Other Endocrine Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
16	Pancreatic Cancer	Any	Pancreatic Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)

Appendix C. Specifications Defining Parameters Used in this Request

Scenario	Event							Outcome	
	Incident Exposure	Care Setting	Incident with Respect to	Incidence Care Setting	Washout (Days)	Cohort Definition	ITT (Intent to Treat) Days	Censor due to Evidence of Death	
17	Prostate Cancer	Any	Prostate Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
18	Rectal Cancer	Any	Rectal Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
19	Thyroid Cancer	Any	Thyroid Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)
20	Urinary Bladder Cancer	Any	Urinary Bladder Cancer	Any	365	01 : Include the first valid event only	8,000	Yes	Dummy (for follow-up)

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes are provided by Optum360.