

## Disclaimer

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

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

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

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

If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at [info@sentinelssystem.org](mailto:info@sentinelssystem.org).

### Overview for Request soc\_cdr\_wp001\_nsdp\_v02

**Request ID:** soc\_cdr\_wp001\_nsdp\_v02

**Request Description:** The goal of this project was to assess the demographic characteristics and length of enrollment of the individuals enrolled over time in the Sentinel Distributed Database (SDD).

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) tool, version 7.0.4

**Data Source:** Data from January 1, 2008 to August 31, 2018 from 17 Data Partners contributing to the SDD were included in this report. This request was distributed on February 11, 2019. See Appendix A for a list of the latest dates of available data for each Data Partner.

**Study Design:** This request was designed to identify lengths of insurance enrollment for health plan beneficiaries. This information was further stratified by year, age group, sex, geographical region and insurance coverage type.

**Cohorts of Interest:** The cohort of interest was identified by 1) the evidence of at least medical coverage during the query period, and/or 2) the evidence of medical and drug coverage during the query period. Individuals were categorized into groups of enrollment length spans ranging from 0 to 60+ months using the following enrollment span categories: 0 to < 6 months, 6 to < 12 months, 12 to < 18 months, 18 to < 24 months, 24 to < 30 months, 30 to < 36 months, 36 to < 42 months, 42 to < 48 months, 48 to < 54 months, 54 to < 60 months, and 60 months and longer.

**Cohort Eligibility Criteria:** Those included in the cohort were required to be continuously enrolled in health plans for at least one day, during which gaps of up to 45 days between enrollment spans were allowed. If the gap between enrollment spans was greater than 45 days, that individual's enrollment span ended prior to the gap.

**Please see Appendix B for the specifications of parameters used in the analyses for this request.**

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

## Table of Contents

<b><u>Glossary</u></b>	List of Terms Found in this Report and their Definitions
<b><u>Table 1</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type
<b><u>Table 2</u></b>	Descriptive Statistics of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Year
<b><u>Table 3</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Year
<b><u>Table 4</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Sex
<b><u>Table 5</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Age Group
<b><u>Table 6</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year
<b><u>Table 7</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Race
<b><u>Table 8</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Geographical Region
<b><u>Table 9</u></b>	Descriptive Statistics of Gaps in Enrollment of Individuals with Medical and Drug Coverage in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018
<b><u>Figure 1a</u></b>	Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type
<b><u>Figure 1b</u></b>	Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type
<b><u>Figure 2a</u></b>	Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Race and Coverage Type
<b><u>Figure 2b</u></b>	Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Race, Medical and Drug Coverage
<b><u>Appendix A</u></b>	Start and End Dates for Each Data Partner (DP) up to Request Date (February 11, 2019)
<b><u>Appendix B</u></b>	Specifications Defining Parameters for this Request
<b><u>Appendix C</u></b>	Health and Human Services (HHS) Region Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\*not all terms may be used in this report

**Table 1. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type**

Length of Enrollment (Months)	Number of Enrollment Records			
	Medical Coverage*		Medical and Drug Coverage	
	Number	Percent	Number	Percent
0-5	63,315,811	19.0%	41,138,507	19.8%
6-11	55,597,721	16.7%	39,846,669	19.2%
12-17	31,095,382	9.3%	20,398,077	9.8%
18-23	32,857,054	9.9%	22,320,140	10.7%
24-29	18,816,602	5.7%	12,124,584	5.8%
30-35	20,579,935	6.2%	13,241,628	6.4%
36-41	12,673,957	3.8%	7,641,264	3.7%
42-47	15,651,610	4.7%	9,729,191	4.7%
48-53	10,060,692	3.0%	5,762,294	2.8%
54-59	10,874,309	3.3%	5,950,833	2.9%
60+	61,489,259	18.5%	29,522,743	14.2%
Total	333,012,332	100.0%	207,675,930	100.0%

\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 2. Descriptive Statistics of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Year**

	Descriptive Statistics (Days), by Coverage Type	
	Medical Coverage*	Medical and Drug Coverage
Mean	983	875
Standard Deviation	903	822
Minimum	1	1
Q1	274	261
Median	689	580
Q3	1,461	1,277
Maximum	3,926	3,926

\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 3. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Year**

Length of Enrollment (Months)	Number of Enrollment Records (Year)				
	2008	2009	2010	2011	2012
	<b>Medical Coverage*</b>				
0-5	7,602,181	3,594,367	5,208,961	3,944,615	4,278,703
6-11	8,087,292	3,626,309	5,044,795	3,729,803	3,938,582
12-17	4,169,209	1,736,822	2,845,991	2,000,210	2,111,967
18-23	5,700,543	2,144,388	3,592,537	2,242,072	2,489,100
24-29	2,420,028	991,965	2,019,593	1,301,566	1,340,919
30-35	3,442,348	1,335,032	2,761,399	1,672,284	1,660,560
36-41	1,575,827	624,548	1,712,262	875,128	952,527
42-47	2,401,175	869,259	2,317,855	1,127,849	1,209,268
48-53	1,078,425	477,996	1,569,462	638,667	1,933,393
54-59	1,757,879	766,253	1,893,073	800,531	3,180,413
60+	14,046,632	4,377,064	27,357,411	7,468,401	5,552,770
<b>Total</b>	<b>52,281,539</b>	<b>20,544,003</b>	<b>56,323,339</b>	<b>25,801,126</b>	<b>28,648,202</b>
	<b>Medical and Drug Coverage</b>				
0-5	5,862,518	2,536,255	3,403,440	2,508,928	2,605,360
6-11	5,883,328	2,534,367	3,400,178	2,466,963	2,628,369
12-17	3,073,918	1,230,112	1,879,612	1,307,566	1,405,705
18-23	4,094,554	1,469,170	2,230,824	1,450,999	1,613,546
24-29	1,679,141	658,922	1,269,585	835,010	846,193
30-35	2,466,926	899,671	1,578,440	982,084	940,493
36-41	992,533	380,968	1,029,058	517,842	537,195
42-47	1,597,399	524,852	1,278,268	614,758	644,035
48-53	624,966	285,819	892,224	335,921	962,014
54-59	907,592	448,592	1,017,359	405,063	1,753,011
60+	6,184,196	2,150,795	13,317,269	3,552,966	2,601,349
<b>Total</b>	<b>33,367,071</b>	<b>13,119,523</b>	<b>31,296,257</b>	<b>14,978,100</b>	<b>16,537,270</b>



**Table 3. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Year**

Length of Enrollment (Months)	Number of Enrollment Records (Year)					
	2013	2014	2015	2016	2017	2018
<b>Medical Coverage*</b>						
0-5	4,605,663	5,341,596	5,614,572	7,667,015	7,457,654	8,000,484
6-11	4,063,954	4,618,325	4,289,273	8,415,418	9,694,560	89,410
12-17	2,152,207	2,143,917	3,827,466	4,081,493	6,026,100	-
18-23	2,580,748	2,565,553	5,439,537	6,053,071	49,505	-
24-29	1,288,115	2,846,555	2,497,599	4,110,262	-	-
30-35	1,563,743	4,182,354	3,918,782	43,433	-	-
36-41	2,262,848	1,787,158	2,883,659	-	-	-
42-47	4,421,512	3,288,383	16,309	-	-	-
48-53	1,524,361	2,838,388	-	-	-	-
54-59	2,455,536	20,624	-	-	-	-
60+	2,686,981	-	-	-	-	-
<b>Total</b>	<b>29,605,668</b>	<b>29,632,853</b>	<b>28,487,197</b>	<b>30,370,692</b>	<b>23,227,819</b>	<b>8,089,894</b>
<b>Medical and Drug Coverage</b>						
0-5	2,780,715	3,231,186	3,586,042	4,749,805	5,114,571	4,759,687
6-11	3,098,109	3,410,797	3,352,971	6,338,281	6,644,006	89,300
12-17	1,482,705	1,529,872	2,533,579	2,769,797	3,185,211	-
18-23	1,813,394	1,883,516	3,913,387	3,801,367	49,383	-
24-29	880,171	1,737,289	1,724,899	2,493,374	-	-
30-35	1,097,595	2,811,687	2,422,126	42,606	-	-
36-41	1,267,960	1,208,850	1,706,858	-	-	-
42-47	3,226,427	1,827,813	15,639	-	-	-
48-53	894,604	1,766,746	-	-	-	-
54-59	1,398,870	20,346	-	-	-	-
60+	1,716,168	-	-	-	-	-
<b>Total</b>	<b>19,656,718</b>	<b>19,428,102</b>	<b>19,255,501</b>	<b>20,195,230</b>	<b>14,993,171</b>	<b>4,848,987</b>

\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 4. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Sex**

Length of Enrollment (Months)	Female		Male		Other	
	Number	Percent	Number	Percent	Number	Percent
<b>Medical Coverage*</b>						
0-5	31,229,827	18.3%	32,077,880	19.7%	8,104	39.3%
6-11	28,191,991	16.6%	27,401,284	16.8%	4,446	21.6%
12-17	15,766,940	9.3%	15,326,439	9.4%	2,003	9.7%
18-23	16,735,381	9.8%	16,120,248	9.9%	1,425	6.9%
24-29	9,563,262	5.6%	9,252,658	5.7%	682	3.3%
30-35	10,567,171	6.2%	10,012,165	6.2%	599	2.9%
36-41	6,506,157	3.8%	6,167,446	3.8%	354	1.7%
42-47	8,175,446	4.8%	7,475,744	4.6%	420	2.0%
48-53	5,195,529	3.1%	4,864,912	3.0%	251	1.2%
54-59	5,667,388	3.3%	5,206,668	3.2%	253	1.2%
60+	32,735,443	19.2%	28,751,751	17.7%	2,065	10.0%
<b>Total</b>	<b>170,334,535</b>	<b>100.0%</b>	<b>162,657,195</b>	<b>100.0%</b>	<b>20,602</b>	<b>100.0%</b>
<b>Medical and Drug Coverage</b>						
0-5	20,350,500	19.0%	20,782,839	20.6%	5,168	41.7%
6-11	20,252,610	18.9%	19,591,585	19.5%	2,474	20.0%
12-17	10,350,315	9.7%	10,046,739	10.0%	1,023	8.3%
18-23	11,424,499	10.7%	10,894,744	10.8%	897	7.2%
24-29	6,187,815	5.8%	5,936,384	5.9%	385	3.1%
30-35	6,843,786	6.4%	6,397,395	6.4%	447	3.6%
36-41	3,980,529	3.7%	3,660,554	3.6%	181	1.5%
42-47	5,123,262	4.8%	4,605,719	4.6%	210	1.7%
48-53	3,035,054	2.8%	2,727,122	2.7%	118	1.0%
54-59	3,162,137	3.0%	2,788,572	2.8%	124	1.0%
60+	16,238,140	15.2%	13,283,231	13.2%	1,372	11.1%
<b>Total</b>	<b>106,948,647</b>	<b>100.0%</b>	<b>100,714,884</b>	<b>100.0%</b>	<b>12,399</b>	<b>100.0%</b>

\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 5. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Age Group**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	< 1	1-4	5-9	10-14	15-18
	<b>Medical Coverage<sup>2</sup></b>				
0-5	2,297,554	2,480,835	2,956,387	2,924,670	2,872,146
6-11	1,419,527	2,258,399	2,773,130	2,765,291	2,783,224
12-17	1,003,384	1,252,826	1,525,313	1,507,005	1,339,111
18-23	840,876	1,277,498	1,617,487	1,641,690	1,562,052
24-29	612,772	729,482	910,464	906,276	787,434
30-35	548,691	757,657	973,863	996,148	910,888
36-41	419,843	466,199	588,215	592,983	487,620
42-47	382,883	510,499	667,199	700,114	652,293
48-53	308,225	349,570	454,952	475,739	385,576
54-59	275,907	356,961	467,720	501,334	413,396
60+	1,431,479	1,807,787	2,442,884	2,586,414	1,813,524
<b>Total</b>	<b>9,541,141</b>	<b>12,247,713</b>	<b>15,377,614</b>	<b>15,597,664</b>	<b>14,007,264</b>
	<b>Medical and Drug Coverage</b>				
0-5	1,590,651	1,707,034	2,015,150	1,944,660	1,760,607
6-11	996,849	1,608,431	1,989,105	1,988,822	1,834,176
12-17	688,375	837,149	1,015,312	996,170	850,873
18-23	564,352	863,075	1,099,796	1,121,688	1,014,739
24-29	399,506	470,915	589,364	586,691	503,880
30-35	353,967	489,160	631,267	643,624	564,792
36-41	260,689	279,292	352,753	355,495	291,269
42-47	235,102	303,792	396,882	415,885	371,383
48-53	185,884	201,805	262,669	276,446	220,965
54-59	161,663	191,508	248,373	264,106	213,819
60+	793,972	859,357	1,141,083	1,192,221	826,221
<b>Total</b>	<b>6,231,010</b>	<b>7,811,518</b>	<b>9,741,754</b>	<b>9,785,808</b>	<b>8,452,724</b>

**Table 5. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Age Group**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	19-21	22-44	45-64	65-74	≥ 75
	<b>Medical Coverage<sup>2</sup></b>				
0-5	3,316,593	24,944,443	14,995,995	4,266,442	2,260,746
6-11	2,870,857	21,513,606	13,436,881	3,581,974	2,194,832
12-17	1,380,341	11,528,912	7,849,297	2,179,537	1,529,656
18-23	1,497,967	11,425,540	8,446,542	2,746,199	1,801,203
24-29	730,666	6,400,488	5,115,315	1,513,181	1,110,524
30-35	794,138	6,403,599	5,501,893	2,199,303	1,493,755
36-41	416,614	3,853,101	3,640,818	1,253,700	954,864
42-47	481,948	4,064,022	4,177,862	2,371,314	1,643,476
48-53	395,872	2,638,600	3,067,684	1,139,434	845,040
54-59	376,438	2,637,582	3,183,216	1,570,780	1,090,975
60+	975,162	12,552,029	15,749,021	13,385,920	8,745,039
<b>Total</b>	<b>13,236,596</b>	<b>107,961,922</b>	<b>85,164,524</b>	<b>36,207,784</b>	<b>23,670,110</b>
	<b>Medical and Drug Coverage</b>				
0-5	2,038,980	17,176,223	9,187,348	2,262,344	1,455,510
6-11	1,872,737	15,632,642	9,755,175	2,613,727	1,555,005
12-17	846,149	7,832,786	5,029,923	1,356,093	945,247
18-23	938,851	7,918,617	5,751,180	1,896,455	1,151,387
24-29	459,201	4,240,071	3,198,446	978,557	697,953
30-35	471,567	4,204,301	3,467,413	1,475,455	940,082
36-41	243,432	2,373,581	2,091,312	814,100	579,341
42-47	272,743	2,474,911	2,409,052	1,707,219	1,142,222
48-53	214,499	1,573,856	1,684,047	678,420	463,703
54-59	189,182	1,469,234	1,607,723	975,643	629,582
60+	465,875	6,392,452	7,482,884	6,381,846	3,986,832
<b>Total</b>	<b>8,013,216</b>	<b>71,288,674</b>	<b>51,664,503</b>	<b>21,139,859</b>	<b>13,546,864</b>

<sup>1</sup>Individuals that cross into the next age group during enrollment in a health plan will be counted in both age groups, therefore, there is likely overlap among age groups.

<sup>2</sup>Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	< 1	1-4	5-9	10-14	15-18
	<b>Medical Coverage<sup>2</sup></b>				
	<b>Female</b>				
0-5	1,113,574	1,210,127	1,446,011	1,432,309	1,413,758
6-11	689,579	1,102,071	1,357,243	1,355,442	1,391,499
12-17	488,210	611,970	745,786	737,714	654,692
18-23	409,230	623,159	789,681	804,167	756,517
24-29	298,435	355,709	445,967	443,359	384,938
30-35	267,563	369,820	475,937	487,316	450,229
36-41	204,875	227,339	287,936	291,028	240,901
42-47	186,606	249,124	326,066	342,896	327,197
48-53	150,254	171,209	223,158	232,944	191,201
54-59	134,356	173,879	228,947	245,221	204,179
60+	698,506	883,234	1,197,172	1,268,195	902,956
<b>Total</b>	<b>4,641,188</b>	<b>5,977,641</b>	<b>7,523,904</b>	<b>7,640,591</b>	<b>6,918,067</b>
	<b>Male</b>				
0-5	1,183,493	1,270,370	1,510,006	1,492,005	1,458,094
6-11	729,802	1,156,167	1,415,671	1,409,623	1,391,513
12-17	515,095	640,772	779,409	769,202	684,335
18-23	431,597	654,258	827,699	837,438	805,451
24-29	314,314	373,738	464,438	462,873	402,456
30-35	281,111	387,819	497,885	508,779	460,616
36-41	214,958	238,837	300,240	301,925	246,698
42-47	196,266	261,352	341,113	357,184	325,066
48-53	157,959	178,352	231,780	242,784	194,359
54-59	141,541	183,066	238,759	256,100	209,203
60+	732,961	924,523	1,245,658	1,318,135	910,497
<b>Total</b>	<b>4,899,097</b>	<b>6,269,254</b>	<b>7,852,658</b>	<b>7,956,048</b>	<b>7,088,288</b>

**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	< 1	1-4	5-9	10-14	15-18
	<b>Medical Coverage<sup>2</sup></b>				
	<b>Other</b>				
0-5	487	338	370	356	294
6-11	146	161	216	226	212
12-17	79	84	118	89	84
18-23	49	81	107	85	84
24-29	23	35	59	44	40
30-35	17	18	41	53	43
36-41	*****	23	39	30	21
42-47	*****	23	20	34	30
48-53	12	*****	14	11	16
54-59	*****	*****	14	13	14
60+	12	30	54	84	71
Total	856	818	1,052	1,025	909
	<b>Medical and Drug Coverage</b>				
	<b>Female</b>				
0-5	770,113	833,437	987,407	950,719	847,075
6-11	484,198	785,057	974,246	975,035	904,967
12-17	335,264	409,135	496,603	488,015	415,686
18-23	275,057	420,566	536,763	549,368	497,762
24-29	195,003	229,331	288,720	287,089	247,102
30-35	172,829	238,691	308,906	314,973	278,906
36-41	127,207	136,033	172,911	174,507	143,408
42-47	114,731	148,255	193,827	203,650	185,933
48-53	90,510	99,026	128,964	135,787	109,680
54-59	78,470	93,461	121,609	129,028	105,271
60+	387,786	419,962	558,871	585,355	411,260
Total	3,031,168	3,812,954	4,768,827	4,793,526	4,147,050

**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	< 1	1-4	5-9	10-14	15-18
<b>Medical and Drug Coverage</b>					
<b>Male</b>					
0-5	820,224	873,361	1,027,476	993,675	913,328
6-11	512,558	823,251	1,014,686	1,013,621	929,075
12-17	353,062	427,952	518,622	508,090	435,128
18-23	289,262	442,458	562,952	572,253	516,917
24-29	204,486	241,556	300,613	299,574	256,760
30-35	181,127	250,445	322,324	328,605	285,852
36-41	133,478	143,247	179,820	180,973	147,848
42-47	120,364	155,526	203,047	212,215	185,436
48-53	95,367	102,773	133,698	140,654	111,277
54-59	83,188	98,040	126,755	135,068	108,543
60+	406,180	439,384	582,190	606,842	414,940
<b>Total</b>	<b>3,199,296</b>	<b>3,997,993</b>	<b>4,972,183</b>	<b>4,991,570</b>	<b>4,305,104</b>
<b>Other</b>					
0-5	314	236	267	266	204
6-11	93	123	173	166	134
12-17	49	62	87	65	59
18-23	33	51	81	67	60
24-29	*****	28	31	28	18
30-35	*****	24	37	46	34
36-41	*****	12	22	15	13
42-47	*****	11	*****	20	14
48-53	*****	*****	*****	*****	*****
54-59	*****	*****	*****	*****	*****
60+	*****	*****	22	24	21
<b>Total</b>	<b>546</b>	<b>571</b>	<b>744</b>	<b>712</b>	<b>570</b>

**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	19-21	22-44	45-64	65-74	≥ 75
	<b>Medical Coverage<sup>2</sup></b>				
	<b>Female</b>				
0-5	1,624,033	12,047,279	7,484,626	2,153,239	1,304,871
6-11	1,446,262	10,902,376	6,849,299	1,828,657	1,269,563
12-17	697,129	5,833,576	4,000,717	1,101,869	895,277
18-23	740,843	5,826,099	4,328,498	1,403,777	1,053,410
24-29	361,875	3,240,286	2,622,172	758,618	651,903
30-35	395,722	3,271,616	2,827,417	1,140,128	881,423
36-41	204,704	1,967,250	1,882,920	633,800	565,404
42-47	236,736	2,110,481	2,182,937	1,238,958	974,445
48-53	193,212	1,351,602	1,592,066	586,026	503,857
54-59	183,317	1,360,057	1,658,853	824,385	654,194
60+	475,155	6,396,919	8,137,726	7,315,743	5,459,837
<b>Total</b>	<b>6,558,988</b>	<b>54,307,541</b>	<b>43,567,231</b>	<b>18,985,200</b>	<b>14,214,184</b>
	<b>Male</b>				
0-5	1,692,004	12,893,026	7,509,990	2,113,115	955,777
6-11	1,424,318	10,609,031	6,586,708	1,753,241	925,210
12-17	683,107	5,694,331	3,848,206	1,077,634	634,348
18-23	757,027	5,598,850	4,117,763	1,342,391	747,774
24-29	368,747	3,159,934	2,492,996	754,551	458,611
30-35	398,381	3,131,761	2,674,334	1,059,163	612,316
36-41	211,892	1,885,734	1,757,812	619,897	389,453
42-47	245,198	1,953,411	1,994,809	1,132,324	669,021
48-53	202,649	1,286,914	1,475,546	553,398	341,171
54-59	193,098	1,277,455	1,524,307	746,388	436,751
60+	499,971	6,154,471	7,610,411	6,070,045	3,285,079
<b>Total</b>	<b>6,676,392</b>	<b>53,644,918</b>	<b>41,592,882</b>	<b>17,222,147</b>	<b>9,455,511</b>



**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	19-21	22-44	45-64	65-74	≥ 75
	<b>Medical Coverage<sup>2</sup></b>				
	<b>Other</b>				
0-5	556	4,138	1,379	88	98
6-11	277	2,199	874	76	59
12-17	105	1,005	374	34	31
18-23	97	591	281	31	19
24-29	44	268	147	*****	*****
30-35	35	222	142	12	16
36-41	18	117	86	*****	*****
42-47	14	130	116	32	*****
48-53	11	84	72	*****	12
54-59	23	70	56	*****	30
60+	36	639	884	132	123
Total	1,216	9,463	4,411	437	415
	<b>Medical and Drug Coverage</b>				
	<b>Female</b>				
0-5	973,351	8,321,978	4,593,129	1,191,732	881,559
6-11	934,588	7,899,201	4,988,091	1,375,166	932,061
12-17	419,863	3,933,036	2,562,957	708,258	581,498
18-23	467,262	4,023,661	2,953,250	999,854	700,956
24-29	226,315	2,125,524	1,646,087	508,949	433,695
30-35	232,525	2,130,104	1,795,464	789,956	581,432
36-41	119,113	1,209,502	1,101,064	430,687	366,097
42-47	132,883	1,263,503	1,266,739	911,897	701,844
48-53	104,953	808,337	896,359	363,328	298,110
54-59	91,925	753,157	853,206	534,757	401,253
60+	228,306	3,247,628	3,959,420	3,708,031	2,731,521
Total	3,931,084	35,715,631	26,615,766	11,522,615	8,610,026

**Table 6. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type, Sex and Year**

Length of Enrollment (Months)	Number of Enrollment Records by Age Group (Years) <sup>1</sup>				
	19-21	22-44	45-64	65-74	≥ 75
<b>Medical and Drug Coverage</b>					
<b>Male</b>					
0-5	1,065,274	8,851,607	4,593,384	1,070,586	573,924
6-11	938,014	7,732,318	4,766,594	1,238,540	622,928
12-17	426,233	3,899,291	2,466,804	647,818	363,739
18-23	471,538	3,894,625	2,797,723	896,589	450,427
24-29	232,861	2,114,401	1,552,277	469,601	264,255
30-35	239,020	2,074,032	1,671,849	685,496	358,645
36-41	124,314	1,164,017	990,204	383,412	213,241
42-47	139,854	1,211,343	1,142,246	795,315	440,373
48-53	109,542	765,473	787,657	315,090	165,591
54-59	97,247	716,034	754,484	440,885	228,328
60+	237,557	3,144,445	3,522,773	2,673,708	1,255,212
<b>Total</b>	<b>4,081,454</b>	<b>35,567,586</b>	<b>25,045,995</b>	<b>9,617,040</b>	<b>4,936,663</b>
<b>Other</b>					
0-5	355	2,638	835	26	27
6-11	135	1,123	490	21	16
12-17	53	459	162	*****	*****
18-23	51	331	207	*****	*****
24-29	25	146	82	*****	*****
30-35	22	165	100	*****	*****
36-41	*****	62	44	*****	*****
42-47	*****	65	67	*****	*****
48-53	*****	46	31	*****	*****
54-59	*****	43	33	*****	*****
60+	12	379	691	107	99
<b>Total</b>	<b>678</b>	<b>5,457</b>	<b>2,742</b>	<b>204</b>	<b>175</b>

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

<sup>1</sup>Individuals that cross into the next age group during enrollment in a health plan will be counted in both age groups, therefore, there is likely overlap among age groups.

<sup>2</sup>Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 7. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Race**

Length of Enrollment (Months)	Number of Enrollment Records (Race)					
	Unknown	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White
<b>Medical Coverage*</b>						
0-5	50,146,972	92,525	725,865	2,224,902	80,665	10,044,882
6-11	44,276,884	81,395	662,358	1,616,670	66,349	8,894,065
12-17	23,736,485	51,156	423,075	1,065,263	42,770	5,776,633
18-23	24,611,044	53,830	444,965	1,061,618	37,553	6,648,044
24-29	13,440,833	36,929	289,554	728,669	27,296	4,293,321
30-35	14,135,833	40,135	303,638	792,752	24,703	5,282,874
36-41	8,343,842	28,486	204,143	564,972	22,176	3,510,338
42-47	9,494,928	33,606	226,715	718,964	17,583	5,159,814
48-53	6,347,384	24,602	157,446	467,029	14,693	3,049,538
54-59	6,426,855	27,347	168,721	532,711	11,890	3,706,785
60+	29,876,407	199,430	976,883	3,180,849	72,106	27,183,584
<b>Total</b>	<b>230,837,467</b>	<b>669,441</b>	<b>4,583,363</b>	<b>12,954,399</b>	<b>417,784</b>	<b>83,549,878</b>
<b>Medical and Drug Coverage</b>						
0-5	32,654,417	69,812	554,512	1,497,310	72,808	6,289,648
6-11	31,313,893	63,768	564,444	1,211,484	60,507	6,632,573
12-17	15,148,073	38,364	338,332	777,294	38,455	4,057,559
18-23	16,328,365	39,610	371,637	760,813	34,376	4,785,339
24-29	8,537,418	25,778	224,935	506,169	24,567	2,805,717
30-35	8,787,162	27,921	247,345	537,776	22,986	3,618,438
36-41	4,895,737	18,632	154,378	379,625	20,239	2,172,653
42-47	5,404,088	23,146	179,885	499,067	16,156	3,606,849
48-53	3,555,692	16,106	117,931	304,518	12,900	1,755,147
54-59	3,265,922	17,303	126,393	335,932	10,123	2,195,160
60+	13,053,979	115,577	679,901	1,770,031	59,967	13,843,288
<b>Total</b>	<b>142,944,746</b>	<b>456,017</b>	<b>3,559,693</b>	<b>8,580,019</b>	<b>373,084</b>	<b>51,762,371</b>

\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 8. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Geographical Region**

Length of Enrollment (Months)	Number of Enrollment Records (Region <sup>1</sup> )						
	Region 01	Region 02	Region 03	Region 04	Region 05	Region 06	Region 07
	<b>Medical Coverage<sup>2</sup></b>						
0-5	3,238,950	3,953,662	5,727,285	11,718,352	9,101,377	7,173,718	2,239,106
6-11	3,107,807	3,823,826	4,472,312	10,689,841	8,733,589	6,843,610	2,148,219
12-17	1,753,743	2,283,826	2,590,816	6,498,896	4,947,500	3,521,716	1,191,243
18-23	1,924,730	2,532,256	2,792,889	6,179,239	5,171,190	3,828,613	1,295,204
24-29	1,222,072	1,634,955	1,720,172	3,795,640	3,068,197	2,188,954	719,687
30-35	1,285,514	1,840,135	1,903,774	4,058,639	3,376,788	2,531,219	865,173
36-41	811,794	1,038,238	1,187,118	2,754,443	2,135,058	1,395,178	470,818
42-47	976,875	1,507,990	1,409,682	3,143,148	2,637,207	1,977,995	607,113
48-53	633,719	990,822	888,639	2,241,191	1,661,778	1,068,747	355,999
54-59	708,214	973,032	1,186,356	2,124,459	1,749,294	1,432,871	444,702
60+	4,350,184	5,455,180	6,196,909	12,573,854	10,293,949	7,184,274	2,799,425
<b>Total</b>	<b>20,013,602</b>	<b>26,033,922</b>	<b>30,075,952</b>	<b>65,777,702</b>	<b>52,875,927</b>	<b>39,146,895</b>	<b>13,136,689</b>
	<b>Medical and Drug Coverage</b>						
0-5	2,248,205	2,271,737	3,861,191	7,909,859	6,545,493	4,867,540	1,587,475
6-11	2,288,466	2,539,869	3,254,567	7,822,921	6,291,276	4,857,060	1,538,540
12-17	1,223,303	1,281,701	1,690,908	4,006,019	3,352,775	2,326,074	784,429
18-23	1,406,666	1,551,105	1,972,300	4,266,091	3,562,166	2,468,597	872,624
24-29	817,623	917,343	1,108,182	2,381,582	2,054,353	1,301,126	479,371
30-35	883,468	998,337	1,248,811	2,647,848	2,179,555	1,448,112	582,461
36-41	504,745	545,740	680,116	1,742,489	1,324,422	757,142	279,564
42-47	609,811	850,187	889,834	1,956,477	1,711,877	1,020,127	359,716
48-53	372,977	457,702	473,242	1,411,402	955,690	556,789	206,608
54-59	439,755	488,635	675,442	1,186,488	963,580	583,793	249,082
60+	2,154,083	2,078,141	2,923,090	6,145,731	4,951,284	3,138,181	1,458,984
<b>Total</b>	<b>12,949,102</b>	<b>13,980,497</b>	<b>18,777,683</b>	<b>41,476,907</b>	<b>33,892,471</b>	<b>23,324,541</b>	<b>8,398,854</b>

**Table 8. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type and Geographical Region**

Length of Enrollment (Months)	Number of Enrollment Records (Region <sup>1</sup> )						
	Region 08	Region 09	Region 10	Region 11	Invalid	Missing	Other
	<b>Medical Coverage<sup>2</sup></b>						
0-5	2,279,066	9,170,787	2,013,483	1,357	3,169,373	3,529,295	-
6-11	1,965,242	8,245,527	1,782,969	586	604,300	3,179,893	-
12-17	1,111,704	4,534,490	976,103	1,013	392,262	1,292,070	-
18-23	1,169,854	4,822,336	983,930	590	409,741	1,746,482	-
24-29	686,217	2,858,148	581,808	1,039	220,656	119,057	-
30-35	730,024	3,012,251	656,870	379	179,720	139,449	-
36-41	427,662	1,831,393	408,383	351	142,418	71,103	-
42-47	536,386	2,149,676	477,142	354	147,081	80,961	-
48-53	317,718	1,359,410	396,375	334	100,641	45,319	-
54-59	360,676	1,433,227	363,458	281	42,175	55,564	-
60+	1,926,942	8,274,343	2,004,635	3,536	238,346	187,682	-
<b>Total</b>	<b>11,511,491</b>	<b>47,691,588</b>	<b>10,645,156</b>	<b>9,820</b>	<b>5,646,713</b>	<b>10,446,875</b>	<b>-</b>
	<b>Medical and Drug Coverage</b>						
0-5	1,661,707	6,196,514	1,352,089	1,073	235,823	2,399,801	-
6-11	1,517,179	6,065,659	1,291,381	442	238,337	2,140,972	-
12-17	805,169	3,232,407	667,399	851	136,463	890,579	-
18-23	864,155	3,457,796	684,417	457	185,291	1,028,475	-
24-29	470,018	2,017,274	380,324	909	109,188	87,291	-
30-35	526,301	2,143,349	435,645	262	43,616	103,863	-
36-41	285,910	1,211,496	233,099	226	27,730	48,585	-
42-47	387,771	1,526,618	335,955	216	24,305	56,297	-
48-53	195,996	834,299	230,357	222	36,186	30,824	-
54-59	234,474	896,420	181,923	175	13,084	37,982	-
60+	1,056,217	4,443,684	974,262	2,560	67,192	129,334	-
<b>Total</b>	<b>8,004,897</b>	<b>32,025,516</b>	<b>6,766,851</b>	<b>7,393</b>	<b>1,117,215</b>	<b>6,954,003</b>	<b>-</b>

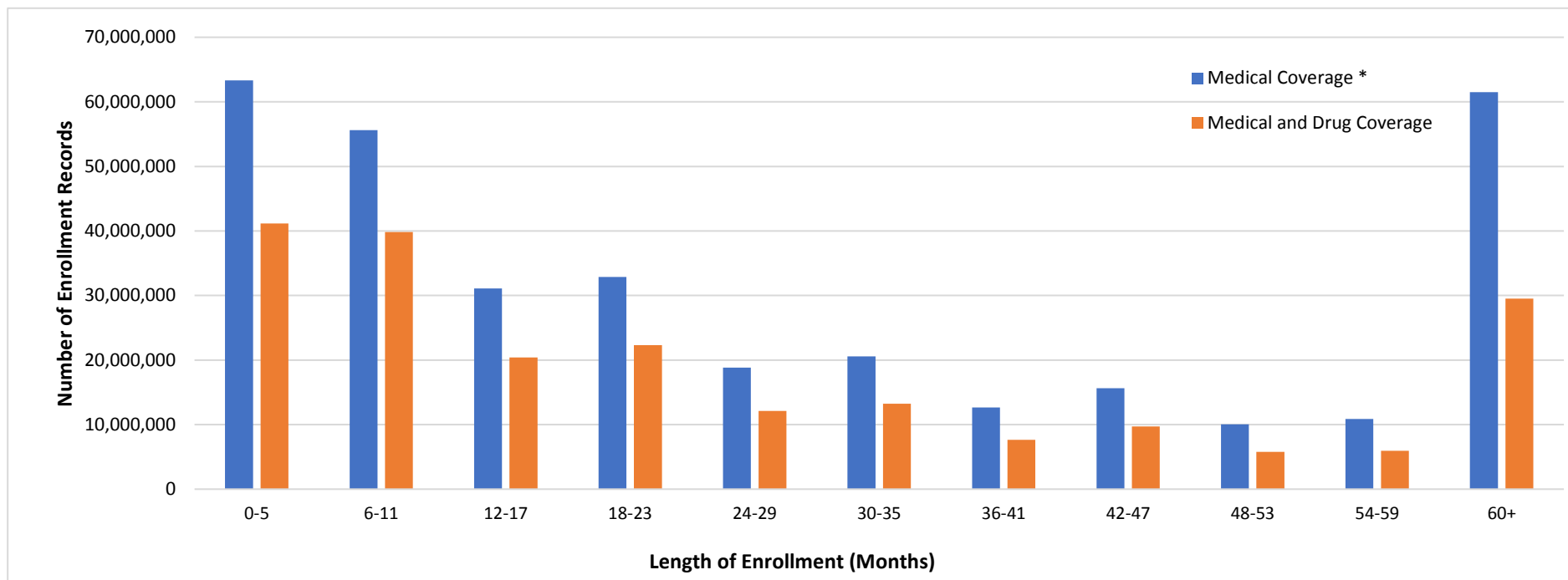
<sup>1</sup> Regions are mapped according to the Health and Human Services (HHS) Region Descriptions; see Appendix C

<sup>2</sup> Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage. Therefore, there is overlap between the two coverage groups.

**Table 9. Descriptive Statistics of Gaps in Enrollment of Individuals with Medical and Drug Coverage in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018**

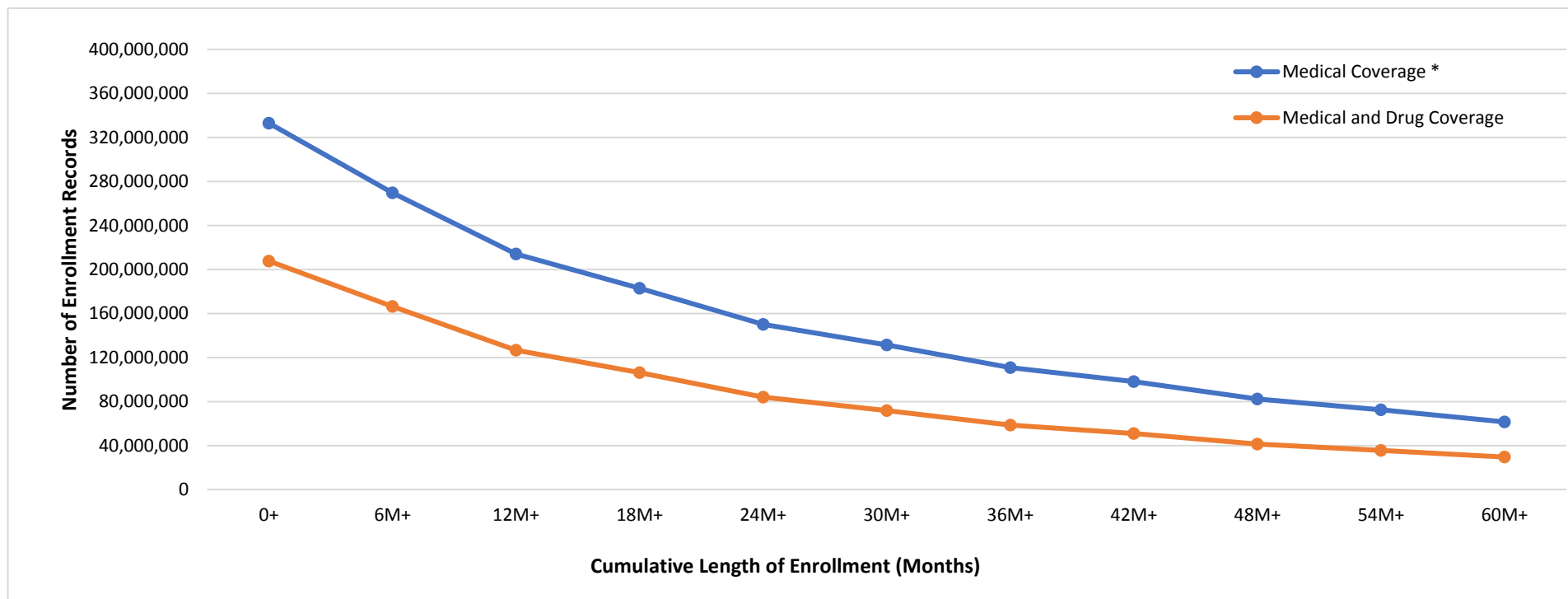
	Descriptive Statistics (Days), by Gap Number					
	Gap 1	Gap 2	Gap 3	Gap 4	Gap 5	Gap 6
Mean	671	438	291	208	172	150
Standard Deviation	702	514	395	320	291	262
Minimum	1	1	1	1	1	1
Q1	122	61	31	31	30	30
Median	367	245	122	89	61	61
Q3	1,005	639	365	243	182	152
Maximum	3,836	3,714	3,634	3,635	3,461	3,508

**Figure 1a. Summary of Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type**



\* Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage.

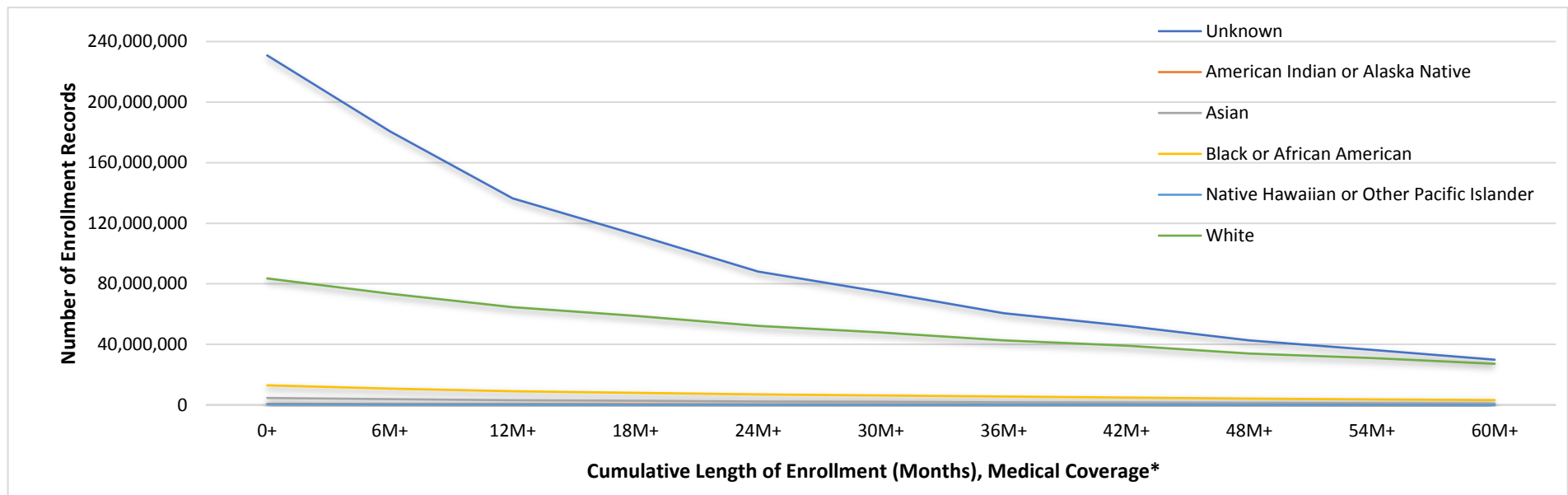
**Figure 1b. Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Coverage Type**



\* Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage.

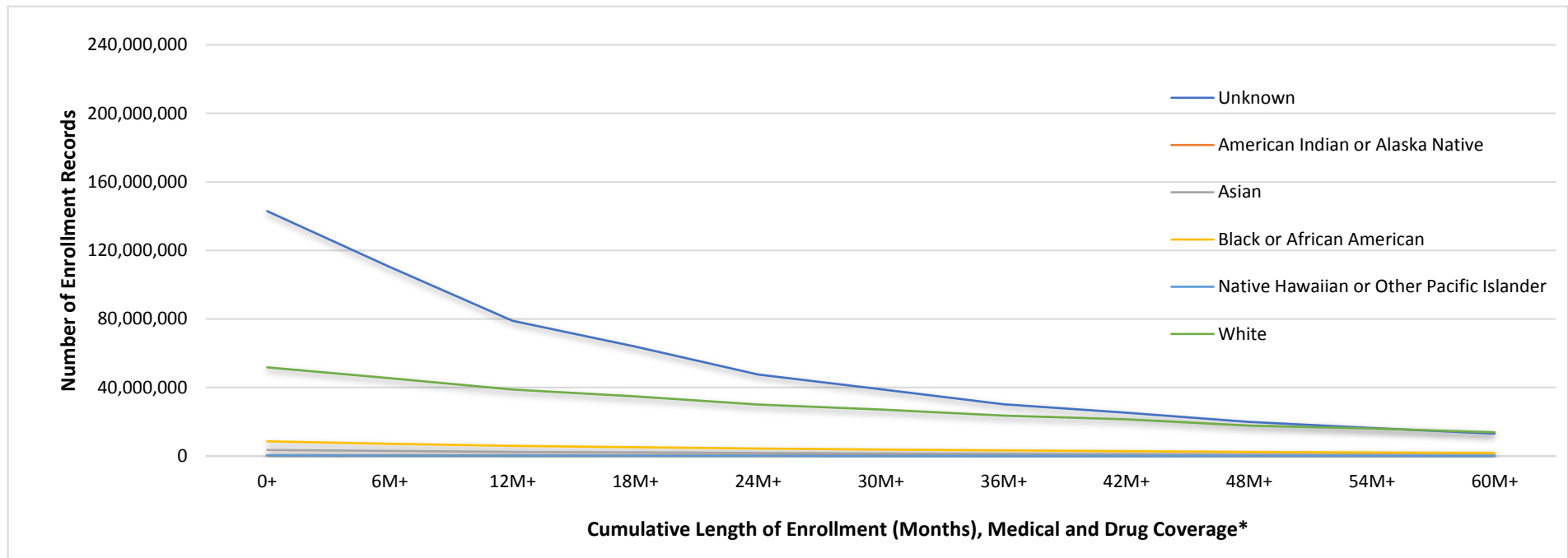


**Figure 2a. Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Race and Medical Coverage**



\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage.

**Figure 2b. Summary of Cumulative Length of Enrollment in the Sentinel Distributed Database (SDD) between January 1, 2008 and August 31, 2018, by Race, Medical and Drug Coverage**



\*Medical coverage includes health plan enrollees who meet the minimum requirement of medical insurance. This includes eligible enrollees with either medical coverage or medical and drug coverage.

**Appendix A. Dates of Available Data for Each Data Partner (DP) up to Request End Date (February 11, 2019)**

DP ID	DP Start Date*	DP End Date*
DP01	01/01/2008	06/30/2018
DP02	01/01/2012	06/30/2017
DP03	01/01/2010	12/31/2016
DP04	01/01/2006	05/31/2018
DP05	01/01/2000	06/30/2018
DP06	01/01/2000	03/31/2018
DP07	01/01/2000	05/31/2015
DP08	01/01/2000	03/31/2016
DP09	06/01/2007	04/30/2018
DP10	01/01/2000	10/31/2017
DP11	01/01/2000	03/31/2018
DP12	01/01/2005	12/17/2017
DP13	01/01/2000	12/31/2017
DP14	01/01/2000	06/30/2018
DP15	01/01/2004	08/31/2018
DP16	01/01/2008	09/30/2017
DP17	01/01/2000	12/31/2017

\*The 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. Specifications Defining Parameters for this Request

This request assessed the demographic characteristics and length of enrollment of the individuals enrolled in the Sentinel Distributed Database (SDD).

**Query Period:** January 1, 2008 - August 31, 2018

**Pre-Index Enrollment Requirement:** 0 Days

**Care Setting:** Any

**Stratifications** Calendar year, sex, age group, sex and age group, race, geographic region

**Age Groups:** 0-<1, 1-4, 5-9, 10-14, 15-18, 19-21, 22-44, 45-64, 65-74, 75+ Months

**Data Source:** Sentinel Distributed Database (SDD)

### Exposure

Scenario	Exposure/Coverage Requirement	Exposure Washout (Days)	Enrollment Gap	Censoring Criteria	Cohort Definition
1	Medical and drug coverage	0	45	Death; Query End Date	All valid enrollment spans
2	At least medical coverage	0	45	Death; Query End Date	All valid enrollment spans
3	Medical and drug coverage	0	0	Death; Query End Date	All valid enrollment spans

**Appendix C. Health and Human Services (HHS) Region Descriptions**

HHS Region	State Mapping
Region 01	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
Region 02	New Jersey, New York, Puerto Rico, Virgin Islands
Region 03	Delaware, Maryland, Pennsylvania, Virginia, West Virginia, District of Columbia
Region 04	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
Region 05	Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
Region 06	Arkansas, Louisiana, New Mexico, Oklahoma, Texas
Region 07	Iowa, Kansas, Missouri, Nebraska
Region 08	Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
Region 09	Arizona, California, Hawaii, Nevada, American Samoa, Federated States of Micronesia, Guam, Palau
Region 10	Alaska, Idaho, Oregon, Washington
Region 11	Northern Mariana Islands, Marshall Islands
Region (Invalid)	Invalid Regions
Region (Missing)	Missing Regions
Region (Other)	Other Regions (not listed above)