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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_wp011

Request ID: cder_mpl1p_wp011

Query Description: The goal of this query was to estimate adequate initial prescription durations for opioid analgesics following 17 surgical procedures in the Sentinel Distributed Database (SDD). As of this posting, this preliminary analysis is currently undergoing refinement in a new request.

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis tool, version 5.0.5, with ad hoc programming.

Data Source: Data from October 5, 2009 to October 5, 2014 from 15 Data Partners contributing to the SDD were included in this report. This request was distributed on December 8, 2017. See Appendix A for a list of dates of available data for each Data Partner.

Study Design: This request was designed to identify exposure medication utilization and subsequent outcome occurrence. The number of eligible members with the exposures and outcomes of interest were calculated. Descriptive statistics were generated for exposures, and generalized additive models (GAMs) were used to estimate the probability of an outcome among patients with an exposure. Results were calculated for individual exposures and grouped by Drug Enforcement Administration (DEA) schedules.

Exposures of Interest: The exposures of interest were oral solid formulations of opioid analgesics identified using National Drug Codes (NDCs) recorded in outpatient pharmacy dispensings. Please see Appendix B for generic and brand names of products used to define exposures.

Cohort Eligibility Criteria: Patients included in the cohort were required to be continuously enrolled in medical and prescription drug plans for at least 183 days prior to the date of their first dispensing of the exposure medication and 45 days after, during which gaps in coverage of up to 45 days were allowed. Patients were included in the cohort if they had one of the 17 surgical procedures of interest in the 7 days before or on the date of their opioid analgesic dispensing and the days supply of their dispensing was less than or equal to 30 days. The surgical procedures of interest were selected based upon their frequency in the United States.^{1,2} Surgeries were identified using Healthcare Common Procedure Coding System (HCPCS) codes and International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) procedure codes recorded in health services claims of ambulatory visits or inpatient hospital stays (see Appendix C for specific codes). Only the first valid exposure episode within 7 days of a surgery per patient during the query period was included. Patients were excluded if they had a dispensing of an oral solid formulation of an opioid analgesic, a dispensing of fentanyl, or evidence of cancer or substance abuse history in the 183 days prior to their index date. Cancer and substance abuse history were defined using ICD-9-CM, HCPCS, and NDC codes; fentanyl use was defined using NDC codes (see Appendix D for diagnosis and procedure codes and Appendix E for generic and brand names). For each surgical procedure cohort, patients were excluded if they had a recorded history of any of the other study surgical procedures prior to their index date. The following age groups were included in the cohort: 18-64 and 65+ years.

Follow-Up Time: Follow-up time was determined by the length of the initial dispensing plus an extension period of 14 days following the end of the last day of supply.³ Follow-up began on the day on which the exposure of interest was dispensed and continued until the earliest occurrence of the following: 1) the end of the extension period, 2) the outcome of interest; or 3) an encounter for an institutional stay (IS).

Outcome of Interest: The outcome of interest was dispensing (hereafter called "refill") of an oral solid formulation of an opioid analgesic occurring during the exposure episode. The refill did not have to be for the same opioid analgesic product or moiety as the initial dispensing. See Appendix B for specific drugs.

Baseline Covariates: The following covariates were assessed during the baseline period: age (categorized as 18-64 and 65+ years), sex, benzodiazepines, gabapentinoids, sedative hypnotics, and Charlson/Elixhauser combined comorbidity score. Age was evaluated on the date of the initial dispensing. Occurrence of the other covariates was evaluated in the 183 to 7 days prior to the date of the initial dispensing. See Appendix F for a list of generic and brand names used to define benzodiazepines, gabapentinoids, and sedative hypnotics.

Descriptive Statistics: Descriptive statistics concerning the days supply of the initial dispensing, number of tablets dispensed, morphine milligram equivalents (MME), and time to first refill were generated. The MME was calculated by multiplying the number of tablets in the initial dispensing, the strength associated with the NDC, and a conversion factor (see Appendix G for conversions used).

Estimating Adequate Prescription Durations: For each surgery of interest, a generalized additive model (GAM) was fitted to estimate the probability of a refill among patients dispensed any opioid analgesic, patients dispensed hydrocodone, or patients dispensed oxycodone following their initial post-surgery dispensing. The model included the following terms: the days supply of the initial dispensing, age, sex, year, Charlson/Elixhauser combined comorbidity score, drug schedule, and comedication use during the baseline period. Days supply was modeled with a natural cubic spline to allow for a nonlinear relationship with probability of refill. Adequate opioid prescription durations were estimated in two ways: (1) as the first days supply value associated with a predicted probability of refill < 20%⁴, and (2) as the days supply value associated with the lowest probability of refill (LPR)³. All predicted probabilities refer to a hypothetical female reference patient 18-64 years of age, with a combined comorbidity score < 1, initiating a schedule II opioid in 2014 at a large reference Data Partner, except where subgroup analyses dictate a different reference level for a given covariate.

Redaction: Upon review of a draft of this report, the Sentinel Operations Center and FDA determined that code lists used to define four surgical procedure-based inclusion criteria were inadequate or incomplete. This affected 6 of the 17 scenarios related to the surgical procedure cohorts, whose results were redacted from this report. See Appendix H for details.

Limitations: Algorithms used to define the exposure (including the associated days supply), outcomes, exclusions, and covariates are imperfect; thus, it is possible that there may be misclassification. Opioid fills occurring within 7 days of a surgical procedure may be for indications unrelated to post-surgical pain. Estimates of adequate prescription duration only included patients who filled an opioid analgesic prescription within 7 days of a surgical procedure. Results may not generalize well to older patients (i.e., > 65 years). The definition of adequacy used in this analysis (a days supply value associated with a < 20% refill rate) may not be generalizable to all patient populations and indications.

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

Please contact the Sentinel Operations Center Query Fulfillment Team (qf@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

¹Steiner CA, et al. Surgeries in Hospital-Based Ambulatory Surgery and Hospital Inpatient Settings, 2014. Agency for Healthcare Research and Quality, 2017.

²McDermott KW, et al. Trends in Hospital Inpatient Stays in the United States, 2005–2014. Agency for Healthcare Research and Quality, 2017.

³Scully R, et al. Defining Optimal Length of Opioid Pain Medication Prescription After Common Surgical Procedures. JAMA Surgery, 2017.

⁴Hill M, et al. Guideline for Discharge Opioid Prescriptions after Inpatient General Surgical Procedures. Journal of the American College of Surgeons, 2017.

Table of Contents

<u>Glossary</u>	List of Terms Found in this Report and their Definitions
<u>Table 1</u>	Baseline Characteristics of Members Initiating Opioid Analgesics within 7 Days of Surgery in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Surgery
<u>Table 2</u>	Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery
<u>Table 3</u>	Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group
<u>Table 4</u>	Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery
<u>Table 5</u>	Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery and Age Group
<u>Table 6</u>	Total Days Supply, Amount Supplied, and Morphine Milligram Equivalents (MME) of Initial Opioid Analgesic Dispensings in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery
<u>Figure 1</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 2</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 3</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 4</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 5</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 6</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 7</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 8</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 9</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 10</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 11</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 12</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 13</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 14</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group
<u>Figure 15</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 16</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

<u>Figure 17</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 18</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 19</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 20</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Figure 21</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014
<u>Figure 22</u>	Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group
<u>Appendix A</u>	Dates of Available Data for Each Data Partner in the Sentinel Distributed Database (SDD) as of Request End Date (October 5, 2014)
<u>Appendix B</u>	List of Generic and Brand Names of Products Used to Define Exposures in this Request
<u>Appendix C</u>	List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request
<u>Appendix D</u>	List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request
<u>Appendix E</u>	List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request
<u>Appendix F</u>	List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request
<u>Appendix G</u>	List of Morphine Milligram Equivalent (MME) Conversion Factors
<u>Appendix H</u>	Specifications for Request ID: cder_mpl1p_wp011_nsdp_v01

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

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

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout

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

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital

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

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*all terms may not be used in this report

Table 1. Baseline Characteristics of Members Initiating Opioid Analgesics within 7 Days of Surgery in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Surgery

Characteristic ¹	Appendectomy (laparoscopic)		Appendectomy (nonspecific)		Bunionectomy		Cesarean section		Cholecystectomy (laparoscopic)	
	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²
Number of Initial Fills	59,131		7,561		38,747		291,566		131,371	
Sex (Female)	26,177	44.3%	3,157	41.8%	31,476	81.2%	291,256	99.9%	91,336	69.5%
Age (18-64 years)	56,449	95.5%	6,905	91.3%	32,984	85.1%	291,560	100.0%	112,202	85.4%
Age (65+ years)	2,682	4.5%	656	8.7%	5,763	14.9%	6	0.0%	19,169	14.6%
Baseline Medications										
Benzodiazepines	3,102	5.2%	397	5.3%	3,258	8.4%	1,855	0.6%	11,578	8.8%
Sedative Hypnotics	1,390	2.4%	216	2.9%	1,937	5.0%	4,465	1.5%	5,021	3.8%
Gabapentinoids	467	0.8%	77	1.0%	890	2.3%	125	0.0%	2,464	1.9%
Comorbidity Score (mean)	0.2	0.7	0.3	0.9	0.1	0.7	0.2	0.6	0.3	1.1
Index Opioid Schedule										
Schedule II	21,705	36.7%	3,059	40.5%	15,746	40.6%	177,708	60.9%	46,031	35.0%
Oxymorphone	0	0.0%	0	0.0%	0	0.0%	2	0.0%	1	0.0%
Hydromorphone	526	0.9%	114	1.5%	370	1.0%	3,262	1.1%	1,411	1.1%
Oxycodone	21,067	35.6%	2,931	38.8%	14,356	37.1%	173,594	59.5%	44,069	33.5%
Morphine	9	0.0%	2	0.0%	10	0.0%	240	0.1%	30	0.0%
Other	103	0.2%	12	0.2%	1,010	2.6%	611	0.2%	520	0.4%
Other Schedule	37,426	63.3%	4,502	59.5%	23,001	59.4%	113,858	39.1%	85,341	65.0%
Tramadol	736	1.2%	118	1.6%	624	1.6%	1,278	0.4%	2,316	1.8%
Codeine	987	1.7%	201	2.7%	1,440	3.7%	8,154	2.8%	2,373	1.8%
Hydrocodone	35,174	59.5%	4,058	53.7%	20,389	52.6%	101,138	34.7%	78,562	59.8%
Other	529	0.9%	125	1.7%	548	1.4%	3,289	1.1%	2,090	1.6%

¹All metrics are based on total number of episodes per group, except for sex which is based on total number of unique patients

²Value represents standard deviation where no % follows the value

Table 1. Baseline Characteristics of Members Initiating Opioid Analgesics within 7 Days of Surgery in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Surgery

Characteristic ¹	Cholecystectomy (open)		Coronary artery bypass graft		Hip replacement, total/partial		Hysterectomy (abdominal/ vaginal non-laparoscopic)		Hysterectomy (laparoscopic)	
	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²	N/Mean	%/Std Dev ²
Number of Initial Fills	2,513		19,966		28,405		11,030		12,879	
Sex (Female)	1,185	47.2%	3,280	16.4%	13,091	46.1%	10,993	99.7%	12,813	99.5%
Age (18-64 years)	1,610	64.1%	11,095	55.6%	18,636	65.6%	9,425	85.4%	12,258	95.2%
Age (65+ years)	903	35.9%	8,871	44.4%	9,769	34.4%	1,605	14.6%	621	4.8%
Baseline Medications										
Benzodiazepines	182	7.2%	1,583	7.9%	1,919	6.8%	1,160	10.5%	1,517	11.8%
Sedative Hypnotics	92	3.7%	645	3.2%	1,096	3.9%	480	4.4%	626	4.9%
Gabapentinoids	75	3.0%	568	2.8%	749	2.6%	187	1.7%	222	1.7%
Charlson Comorbidity Score (mean)	0.8	1.6	1.8	2	0.2	1.1	0.2	0.9	0.2	0.7
Index Opioid Schedule										
Schedule II	1,137	45.2%	7,988	40.0%	14,111	49.7%	5,957	54.0%	7,451	57.9%
Oxymorphone	0	0.0%	0	0.0%	1	0.0%	0	0.0%	0	0.0%
Hydromorphone	69	2.7%	378	1.9%	908	3.2%	271	2.5%	347	2.7%
Oxycodone	1,062	42.3%	7,601	38.1%	13,031	45.9%	5,598	50.8%	6,967	54.1%
Morphine	2	0.1%	4	0.0%	74	0.3%	5	0.0%	14	0.1%
Other	4	0.2%	5	0.0%	98	0.3%	83	0.8%	123	1.0%
Other Schedule	1,376	54.8%	11,978	60.0%	14,294	50.3%	5,073	46.0%	5,428	42.1%
Tramadol	47	1.9%	1,232	6.2%	1,376	4.8%	122	1.1%	214	1.7%
Codeine	39	1.6%	447	2.2%	213	0.7%	384	3.5%	297	2.3%
Hydrocodone	1,258	50.1%	9,630	48.2%	12,520	44.1%	4,288	38.9%	4,686	36.4%
Other	32	1.3%	669	3.4%	185	0.7%	279	2.5%	231	1.8%

¹All metrics are based on total number of episodes per group, except for sex which is based on total number of unique patients

²Value represents standard deviation where no % follows the value

Table 1. Baseline Characteristics of Members Initiating Opioid Analgesics within 7 Days of Surgery in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Surgery

Characteristic ¹	Tooth extraction	
	N/Mean	%/Std Dev ²
Number of Initial Fills	217,598	
Sex (Female)	106,855	49.1%
Age (18-64 years)	212,114	97.5%
Age (65+ years)	5,484	2.5%
Baseline Medications		
Benzodiazepines	9,985	4.6%
Sedative Hypnotics	3,698	1.7%
Gabapentinoids	1,465	0.7%
Charlson Comorbidity Score (mean)	0.0	0.5
Index Opioid Schedule		
Schedule II	45,103	20.7%
Oxymorphone	1	0.0%
Hydromorphone	115	0.1%
Oxycodone	44,072	20.3%
Morphine	5	0.0%
Other	910	0.4%
Other Schedule	172,496	79.3%
Tramadol	1,644	0.8%
Codeine	16,492	7.6%
Hydrocodone	152,834	70.2%
Other	1,526	0.7%

¹All metrics are based on total number of episodes per group, except for sex which is based on total number of unique patients

²Value represents standard deviation where no % follows the value

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Appendectomy (laparoscopic)	59,131	4.4 (2.4)	4 (2)	32 (10.6)	30 (10)	212.6 (106.5)	200 (75)	5,381 (9.1%)	6.5 (4.4)	5 (6)
Schedule II	21,705	4.4 (2.5)	4 (2)	32.9 (11.5)	30 (10)	255 (102.9)	225 (75)	1,685 (7.8%)	6.6 (4.4)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	526	4.5 (2.9)	4 (2)	32.1 (13.1)	30 (16)	274.6 (135.9)	240 (120)	72 (13.7%)	6.1 (4.7)	5 (4.5)
Oxycodone	21,067	4.4 (2.5)	4 (2)	32.9 (11.5)	30 (10)	253.7 (98.6)	225 (75)	1,599 (7.6%)	6.6 (4.4)	6 (6)
Morphine	9	7.1 (4.5)	5 (1)	33.9 (14.5)	30 (10)	583.3 (355.3)	450 (150)	2 (22.2%)	9.5 (6.4)	9.5 (9)
Other	103	4.7 (1.7)	5 (2)	29.8 (9.5)	30 (6)	376.4 (337.1)	150 (450)	12 (11.7%)	8.4 (6.3)	8 (12)
Other Schedule	37,426	4.5 (2.3)	4 (2)	31.5 (10)	30 (5)	188 (100.6)	150 (75)	3,696 (9.9%)	6.4 (4.3)	5 (6)
Tramadol	736	6.1 (3.6)	5 (3)	30 (12.3)	30 (10)	147.2 (62.6)	150 (50)	82 (11.1%)	4.8 (4.1)	3 (6)
Codeine	987	4.4 (2.6)	4 (2)	30.2 (10.6)	30 (6)	138.2 (52.9)	135 (27)	87 (8.8%)	5.3 (4.6)	4 (6)
Hydrocodone	35,174	4.4 (2.3)	4 (2)	31.6 (9.9)	30 (5)	183.3 (80.1)	150 (60)	3,480 (9.9%)	6.5 (4.3)	5 (6)
Other	529	5.2 (3)	5 (3)	28.7 (9.9)	30 (10)	653.4 (230.8)	690 (230)	47 (8.9%)	5.7 (5.3)	4 (7)
Appendectomy (nonspecific)	7,561	4.6 (2.5)	4 (2)	32.1 (11.3)	30 (10)	221.3 (124.3)	200 (100)	1,224 (16.2%)	6.8 (4.1)	6 (5)
Schedule II	3,059	4.5 (2.5)	4 (2)	33.4 (12.2)	30 (10)	261.7 (118.7)	225 (75)	481 (15.7%)	6.8 (4)	6 (5)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	114	4.9 (2.9)	5 (2)	35 (17.9)	30 (15)	304.5 (188.1)	240 (96)	23 (20.2%)	7.1 (4.7)	7 (7)
Oxycodone	2,931	4.5 (2.5)	4 (2)	33.3 (11.9)	30 (10)	258.9 (105)	225 (75)	456 (15.6%)	6.7 (3.9)	6 (5)
Morphine	2	11 (4.2)	11 (6)	57 (38.2)	57 (54)	1485 (1463.7)	1485 (2070)	1 (50.0%)	9 (.)	9 (0)
Other	12	5.5 (2.3)	5 (4)	31.1 (5.4)	30 (2.5)	326.3 (351.4)	150 (237.5)	1 (8.3%)	9 (.)	9 (0)
Other Schedule	4,502	4.7 (2.4)	4 (2)	31.2 (10.5)	30 (5)	193.8 (120.4)	150 (75)	743 (16.5%)	6.8 (4.1)	6 (5)
Tramadol	118	6.5 (4.1)	5 (4)	31.1 (13.7)	30 (5)	149.4 (69.9)	150 (37.5)	16 (13.6%)	9.1 (6.5)	10.5 (12)
Codeine	201	4.5 (2.9)	4 (2)	28.3 (10)	30 (10)	129.7 (54.8)	135 (45)	25 (12.4%)	5.9 (3.3)	6 (5)
Hydrocodone	4,058	4.6 (2.3)	4 (2)	31.4 (10.5)	30 (5)	183.8 (86.1)	150 (50)	680 (16.8%)	6.8 (4.1)	6 (5)
Other	125	5.4 (2.4)	5 (3)	29 (8.8)	30 (10)	661.8 (204.7)	690 (230)	22 (17.6%)	6.6 (4.1)	7 (6)

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Bunionectomy	38,747	5.4 (2.8)	5 (2)	38.2 (15)	35 (12)	289.2 (181.9)	225 (187.5)	9,559 (24.7%)	6.6 (4.7)	6 (6)
Schedule II	15,746	5.4 (2.8)	5 (2)	41.3 (16.1)	40 (20)	352.2 (194.6)	300 (225)	4,304 (27.3%)	6.5 (4.6)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	370	5.3 (3.2)	5 (3)	42.7 (17.6)	40 (20)	394.4 (206.4)	320 (240)	113 (30.5%)	6.3 (4.9)	6 (5)
Oxycodone	14,356	5.4 (2.8)	5 (2)	41.8 (16)	40 (20)	350.5 (166.4)	300 (225)	3,929 (27.4%)	6.5 (4.6)	6 (6)
Morphine	10	7.6 (4.9)	6.5 (8)	39.5 (16.7)	40 (20)	637.5 (262.8)	750 (450)	1 (10.0%)	4 (.)	4 (0)
Other	1,010	5.2 (3.1)	5 (3)	33.1 (14.1)	30 (16)	358.3 (423.9)	150 (275)	261 (25.8%)	6.4 (4.6)	6 (6)
Other Schedule	23,001	5.5 (2.8)	5 (3)	36 (13.8)	30 (10)	246.1 (158.8)	200 (150)	5,255 (22.8%)	6.7 (4.8)	6 (7)
Tramadol	624	7.5 (4.6)	6 (5)	36.8 (15.8)	30 (10)	185.3 (101.5)	150 (50)	105 (16.8%)	6.2 (5.2)	5 (7)
Codeine	1,440	4.6 (2.7)	4 (2)	30.5 (12.5)	30 (12)	141.7 (68)	135 (90)	255 (17.7%)	5.8 (4.6)	4 (6)
Hydrocodone	20,389	5.5 (2.7)	5 (3)	36.5 (13.7)	30 (10)	242.4 (134.8)	200 (150)	4,791 (23.5%)	6.7 (4.7)	6 (7)
Other	548	5.7 (3.5)	5 (2)	32.1 (13.4)	30 (16)	726.9 (307.6)	690 (460)	104 (19.0%)	6.1 (4.6)	5 (6.5)
Cesarean section	291,566	4.7 (2.5)	5 (2)	32.6 (9.5)	30 (10)	236.4 (106.2)	225 (150)	39,272 (13.5%)	6.8 (4)	6 (5)
Schedule II	177,708	4.6 (2.5)	4 (2)	32.9 (9.7)	30 (10)	252.1 (84.2)	225 (75)	21,389 (12.0%)	6.6 (3.8)	5 (4)
Oxymorphone	2	5 (0)	5 (0)	35 (7.1)	35 (10)	525 (106.1)	525 (150)	0 (0.0%)	-	-
Hydromorphone	3,262	4.6 (2.7)	4 (2)	32.6 (11)	30 (10)	278.8 (119.6)	240 (80)	466 (14.3%)	6.3 (3.9)	5 (5)
Oxycodone	173,594	4.6 (2.5)	4 (2)	32.9 (9.6)	30 (10)	251.4 (82)	225 (75)	20,832 (12.0%)	6.6 (3.8)	5 (4)
Morphine	239	5.9 (3.3)	5 (3)	32.8 (7.5)	30 (10)	506 (141.2)	450 (150)	23 (9.6%)	5.3 (2.5)	5 (4)
Other	611	5.1 (2.7)	5 (3)	32.9 (12.2)	30 (10)	201.9 (196.1)	150 (50)	68 (11.1%)	7.5 (4.3)	6 (6.5)
Other Schedule	113,858	4.9 (2.5)	5 (2)	32.1 (9.3)	30 (0)	212 (129.8)	150 (100)	17,883 (15.7%)	7 (4.1)	6 (5)
Tramadol	1,277	6.7 (4.2)	5 (4)	35.1 (15.1)	30 (10)	176.8 (83.1)	150 (50)	214 (16.8%)	6.5 (4.1)	6 (5)
Codeine	8,154	4.4 (2.3)	4 (2)	30.9 (10.2)	30 (0)	139.7 (48.9)	135 (0)	906 (11.1%)	6.1 (4.1)	5 (5)
Hydrocodone	101,138	4.9 (2.4)	5 (2)	32.2 (9.1)	30 (0)	202.4 (93.3)	150 (90)	16,291 (16.1%)	7.1 (4.1)	6 (5)
Other	3,289	5.3 (2.8)	5 (2)	30.9 (9.7)	30 (0)	700 (229.5)	690 (115)	472 (14.4%)	6.7 (4.2)	6 (4.5)

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Cholecystectomy (laparoscopic)	131,371	4.6 (2.5)	4 (2)	32 (10.3)	30 (10)	218 (117)	200 (100)	11,788 (9.0%)	6.6 (4.5)	6 (6)
Schedule II	46,030	4.5 (2.5)	4 (2)	33.2 (11.1)	30 (10)	261.8 (114.3)	225 (75)	3,422 (7.4%)	6.4 (4.6)	5 (6)
Oxymorphone	1	10 (.)	10 (0)	40 (.)	40 (0)	600 (.)	600 (0)	0 (0.0%)	-	-
Hydromorphone	1,411	4.6 (2.7)	4 (2)	32.6 (12.4)	30 (14)	278.5 (133.5)	240 (80)	134 (9.5%)	6.2 (5.1)	5 (7)
Oxycodone	44,069	4.5 (2.5)	4 (2)	33.2 (11.1)	30 (10)	260 (104.2)	225 (75)	3,227 (7.3%)	6.4 (4.5)	5 (6)
Morphine	29	6.6 (5.2)	5 (2)	35.3 (21.7)	30 (10)	725.7 (1263.3)	450 (150)	6 (20.7%)	10.8 (11.9)	6.5 (12)
Other	520	5.1 (3.2)	5 (3)	29.9 (9.3)	30 (6)	341.2 (289.1)	175 (450)	55 (10.6%)	6.1 (4.7)	5 (8)
Other Schedule	85,341	4.6 (2.4)	4 (2)	31.3 (9.8)	30 (5)	194.4 (111.5)	150 (75)	8,366 (9.8%)	6.6 (4.5)	6 (6)
Tramadol	2,316	6.1 (3.6)	5 (3)	30.6 (12.2)	30 (10)	149.2 (62.8)	150 (50)	228 (9.8%)	5.7 (4.3)	5 (6)
Codeine	2,373	4.4 (2.5)	4 (2)	29.8 (10.2)	30 (9)	136.1 (49.9)	135 (45)	203 (8.6%)	6.1 (5.9)	4 (6)
Hydrocodone	78,562	4.6 (2.4)	4 (2)	31.4 (9.8)	30 (5)	185.3 (79.5)	150 (75)	7,758 (9.9%)	6.7 (4.5)	6 (6)
Other	2,090	5 (2.6)	5 (2)	28.6 (9)	30 (10)	652.5 (208.7)	690 (230)	177 (8.5%)	6.5 (4.6)	5 (6)
Cholecystectomy (open)	2,513	5.1 (2.9)	5 (3)	35.1 (13.5)	30 (10)	247.5 (132)	225 (150)	542 (21.6%)	8.1 (4.5)	7 (6)
Schedule II	1,137	4.9 (2.7)	5 (3)	36.9 (14.4)	30 (10)	290.7 (128)	240 (112.5)	236 (20.8%)	8.1 (4.4)	7 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	69	4.8 (2.6)	5 (3)	36.3 (12.5)	30 (10)	301.8 (112.6)	240 (160)	15 (21.7%)	8.4 (4.7)	7 (7)
Oxycodone	1,062	4.9 (2.6)	5 (3)	37 (14.5)	30 (10)	290 (127.9)	228.8 (112.5)	219 (20.6%)	8 (4.4)	7 (6)
Morphine	2	16 (12.7)	16 (18)	40 (14.1)	40 (20)	600 (212.1)	600 (300)	0 (0.0%)	-	-
Other	4	4 (1.6)	4 (2)	23 (18.2)	16 (20)	115 (91.1)	80 (100)	2 (50.0%)	9.5 (2.1)	9.5 (3)
Other Schedule	1,376	5.3 (3.1)	5 (3)	33.7 (12.5)	30 (10)	211.9 (124.5)	180 (96.3)	306 (22.2%)	8.1 (4.6)	7 (6)
Tramadol	47	8.2 (5.2)	7 (5)	37.2 (20.1)	30 (10)	184.4 (101.3)	150 (75)	9 (19.1%)	9.6 (5.6)	7 (7)
Codeine	39	4.9 (1.9)	5 (3)	30.9 (11.9)	30 (20)	139 (53.7)	135 (90)	5 (12.8%)	6.6 (5)	5 (3)
Hydrocodone	1,258	5.2 (3)	5 (3)	33.8 (12.2)	30 (10)	203.9 (100.5)	180 (75)	287 (22.8%)	8.1 (4.6)	7 (7)
Other	32	5 (1.6)	5 (2)	28.4 (9.5)	30 (10)	653.3 (217.6)	690 (230)	5 (15.6%)	6.2 (2)	6 (2)

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Coronary artery bypass graft	19,966	6.7 (3.8)	5 (3)	46.2 (18.4)	40 (26)	326.1 (210.7)	300 (175)	5,257 (26.3%)	9.8 (5)	9 (7)
Schedule II	7,988	6.5 (3.7)	5 (4)	48.9 (19.8)	45 (20)	380.5 (183.7)	375 (150)	2,032 (25.4%)	9.8 (5)	9 (7)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	378	6.6 (4.1)	5 (4)	48.3 (19.4)	45 (30)	411.6 (183.5)	400 (160)	106 (28.0%)	10.2 (5.5)	9 (8)
Oxycodone	7,601	6.5 (3.7)	5 (4)	49 (19.8)	45 (20)	378.6 (182.9)	375 (150)	1,922 (25.3%)	9.8 (5)	9 (7)
Morphine	4	10.3 (4.5)	11.5 (6.5)	32.8 (14.7)	30.5 (24.5)	566.3 (181.8)	600 (217.5)	1 (25.0%)	1 (.)	1 (0)
Other	5	8 (6.9)	6 (3)	39.6 (6.4)	40 (0)	688 (568.1)	600 (560)	3 (60.0%)	8.3 (5.1)	7 (10)
Other Schedule	11,978	6.8 (3.9)	6 (3)	44.4 (17.2)	40 (20)	289.8 (219.5)	225 (140)	3,225 (26.9%)	9.8 (5)	9 (7)
Tramadol	1,232	9 (5.1)	8 (5)	45 (18.8)	40 (20)	219.7 (96.2)	200 (100)	269 (21.8%)	10.7 (6.2)	10 (9)
Codeine	447	6 (4.2)	5 (3)	42.4 (16.6)	40 (20)	191.6 (78.5)	180 (90)	86 (19.2%)	9.8 (5.1)	10 (8)
Hydrocodone	9,630	6.5 (3.6)	5 (4)	44.6 (17.1)	40 (20)	256.2 (124.9)	225 (150)	2,693 (28.0%)	9.7 (4.9)	9 (7)
Other	669	7.6 (3.9)	7 (5)	42.2 (15.4)	40 (20)	967.7 (355.1)	920 (460)	177 (26.5%)	10 (5)	9 (6)
Hip replacement, total/partial	28,405	7.9 (4.3)	7 (5)	67.9 (26.7)	60 (40)	519.5 (282.9)	450 (375)	9,115 (32.1%)	9.7 (5.2)	9 (7)
Schedule II	14,111	7.5 (4.2)	7 (4)	71 (27.3)	60 (40)	571.4 (255.2)	560 (225)	4,481 (31.8%)	9.5 (4.9)	9 (6)
Oxymorphone	1	15 (.)	15 (0)	30 (.)	30 (0)	900 (.)	900 (0)	0 (0.0%)	-	-
Hydromorphone	908	7.2 (4.2)	6 (3)	71.6 (26.6)	70 (40)	601 (254.7)	640 (340)	290 (31.9%)	8.7 (4.7)	8.5 (7)
Oxycodone	13,031	7.5 (4.1)	7 (4)	71.1 (27.3)	60 (40)	563.2 (240)	525 (225)	4,138 (31.8%)	9.5 (4.9)	9 (7)
Morphine	73	12.5 (9.1)	10 (9)	61 (33)	60 (60)	954.5 (521.5)	900 (1050)	20 (27.4%)	8.7 (8.4)	7 (13)
Other	98	8.8 (4.5)	8 (4)	61.7 (22.6)	60 (40)	1107.6 (714.1)	1100 (1100)	33 (33.7%)	10.2 (6)	10 (9)
Other Schedule	14,294	8.2 (4.3)	7 (5)	64.9 (25.7)	60 (45)	468.3 (299.2)	400 (300)	4,634 (32.4%)	9.9 (5.4)	9 (7)
Tramadol	1,376	10.5 (5.3)	10 (6)	61 (26)	60 (40)	308.1 (397.5)	300 (150)	365 (26.5%)	9.5 (6.2)	9 (8)
Codeine	213	6.8 (3.2)	6 (3)	58.9 (25.8)	60 (40)	269.3 (132.4)	270 (180)	47 (22.1%)	8.7 (5.7)	8 (9)
Hydrocodone	12,520	8 (4.2)	7 (5)	65.6 (25.7)	60 (40)	477.9 (262)	450 (300)	4,167 (33.3%)	10 (5.3)	9 (7)
Other	185	9.4 (4.5)	9 (3)	54.6 (21.4)	50 (20)	1241.2 (489.5)	1150 (460)	55 (29.7%)	9.7 (5)	10 (6)

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Hysterectomy (abdominal/vaginal non-laparoscopic)	11,030	4.8 (2.7)	5 (2)	32.7 (11.4)	30 (10)	239.4 (134.6)	225 (150)	1,748 (15.8%)	7.3 (4.6)	6 (6)
Schedule II	5,957	4.7 (2.7)	4 (2)	33.6 (12.1)	30 (10)	262.7 (115.7)	225 (75)	929 (15.6%)	7.2 (4.6)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	271	5.1 (2.7)	5 (3)	36.2 (13.8)	30 (10)	320.9 (169)	240 (160)	61 (22.5%)	7.4 (5)	6 (6)
Oxycodone	5,598	4.6 (2.7)	4 (2)	33.5 (12)	30 (10)	259.4 (106.4)	225 (75)	855 (15.3%)	7.3 (4.6)	6 (6)
Morphine	5	5.2 (1.8)	5 (0)	30 (0)	30 (0)	540 (201.2)	450 (0)	1 (20.0%)	1 (.)	1 (0)
Other	83	5.9 (4)	5 (3)	32.4 (10.8)	30 (10)	280.7 (292.8)	150 (100)	12 (14.5%)	5.7 (3.4)	5.5 (5.5)
Other Schedule	5,073	5 (2.6)	5 (2)	31.8 (10.3)	30 (5)	212 (149.3)	150 (75)	819 (16.1%)	7.3 (4.6)	6 (6)
Tramadol	122	7.1 (4.2)	6 (6)	35.3 (15.9)	30 (10)	175.4 (82.6)	150 (50)	16 (13.1%)	8.9 (6.6)	10.5 (11)
Codeine	384	4.6 (2.9)	4 (2)	30.6 (10.6)	30 (5)	138.8 (50.4)	135 (22.5)	47 (12.2%)	6.8 (4.5)	5 (6)
Hydrocodone	4,288	4.9 (2.4)	5 (2)	31.9 (10.1)	30 (5)	189.1 (85.1)	150 (75)	725 (16.9%)	7.3 (4.6)	6 (6)
Other	279	5.2 (2.6)	5 (2)	30.2 (9.6)	30 (6)	681.5 (225.9)	690 (230)	31 (11.1%)	7.7 (5.3)	6 (6)
Hysterectomy (laparoscopic)	12,879	4.7 (2.6)	4 (2)	32.1 (10.1)	30 (10)	234.4 (117.2)	225 (150)	1,876 (14.6%)	7.3 (4.6)	6 (6)
Schedule II	7,451	4.5 (2.4)	4 (2)	32.7 (10.6)	30 (10)	257.6 (100.6)	225 (75)	1,003 (13.5%)	7.1 (4.4)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	347	4.9 (3)	5 (3)	35.1 (13.7)	30 (10)	304.2 (147.4)	240 (80)	56 (16.1%)	6.7 (4.3)	6 (5.5)
Oxycodone	6,967	4.5 (2.4)	4 (2)	32.7 (10.4)	30 (10)	254.2 (92.1)	225 (75)	922 (13.2%)	7.1 (4.4)	6 (6)
Morphine	14	6.9 (3.2)	7 (3)	31.4 (10.8)	30 (20)	514.3 (252.8)	450 (300)	4 (28.6%)	6.5 (3.7)	6.5 (5)
Other	123	4.7 (2.3)	4 (2)	28.7 (9.2)	30 (10)	287.4 (223.3)	200 (250)	21 (17.1%)	6.2 (3.9)	6 (6)
Other Schedule	5,428	5 (2.7)	5 (2)	31.2 (9.4)	30 (0)	202.6 (130.3)	150 (75)	873 (16.1%)	7.7 (4.8)	7 (7)
Tramadol	214	6.7 (4.1)	5 (4)	32.4 (12.1)	30 (0)	161.8 (61.7)	150 (25)	22 (10.3%)	9.4 (5.6)	9.5 (10)
Codeine	297	4.1 (2.2)	4 (2)	29.2 (10.3)	30 (10)	132.3 (47.1)	135 (45)	30 (10.1%)	5.8 (4.3)	5 (6)
Hydrocodone	4,686	4.9 (2.6)	5 (2)	31.3 (9.3)	30 (0)	185.9 (78)	150 (75)	784 (16.7%)	7.7 (4.8)	7 (7)
Other	231	5.1 (3.1)	5 (2)	29.6 (7.9)	30 (5)	670.1 (192.2)	690 (138)	37 (16.0%)	6.7 (4.4)	6 (6)

Table 2. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery

	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Tooth extraction	217,598	3.4 (1.7)	3 (2)	19.4 (6.3)	20 (5)	128.4 (68.9)	112.5 (60)	20,193 (9.3%)	5.7 (3.6)	5 (4)
Schedule II	45,102	3.6 (1.8)	3 (1)	21.3 (7)	20 (7)	173.6 (85.1)	150 (90)	4,093 (9.1%)	5.6 (3.4)	5 (4)
Oxymorphone	1	30 (.)	30 (0)	60 (.)	60 (0)	2700 (.)	2700 (0)	0 (0.0%)	-	-
Hydromorphone	115	3.7 (3.2)	3 (3)	24.9 (21.4)	20 (9)	304.4 (559)	200 (128)	22 (19.1%)	7.5 (5.9)	5.5 (6)
Oxycodone	44,071	3.6 (1.8)	3 (1)	21.4 (6.9)	20 (7)	174.5 (78.7)	150 (75)	3,958 (9.0%)	5.6 (3.4)	5 (4)
Morphine	5	5.4 (4.4)	5 (5)	24.8 (18.8)	12 (28)	372 (281.9)	180 (420)	0 (0.0%)	-	-
Other	910	3.4 (1.7)	3 (2)	20 (6.4)	20 (4)	111.2 (74.8)	100 (20)	113 (12.4%)	4.7 (2.9)	4 (3)
Other Schedule	172,496	3.4 (1.6)	3 (2)	18.9 (6)	20 (5)	116.5 (58.4)	100 (70)	16,100 (9.3%)	5.8 (3.6)	5 (4)
Tramadol	1,644	4.2 (3.4)	3 (2)	21.9 (10.8)	20 (9)	104.4 (54.1)	100 (45)	143 (8.7%)	6.5 (4.8)	6 (6)
Codeine	16,492	3.2 (1.8)	3 (2)	17.7 (5.8)	18 (6)	80.5 (28.2)	81 (27)	966 (5.9%)	6.3 (4.2)	6 (5)
Hydrocodone	152,834	3.4 (1.6)	3 (2)	19 (6)	20 (5)	117.5 (49.6)	100 (70)	14,876 (9.7%)	5.7 (3.5)	5 (4)
Other	1,526	3.3 (1.7)	3 (2)	18.4 (6.4)	20 (5)	419.6 (147)	460 (115)	115 (7.5%)	5.6 (3.6)	4 (4)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Appendectomy (laparoscopic)	59,131	4.4 (2.4)	4 (2)	32 (10.6)	30 (10)	212.6 (106.5)	200 (75)	5,381 (9.1%)	6.5 (4.4)	5 (6)
<u>18-64 years</u>	56,449	4.4 (2.4)	4 (2)	32 (10.5)	30 (10)	213 (106.3)	200 (75)	5,233 (9.3%)	6.4 (4.3)	5 (6)
Schedule II	20,924	4.4 (2.5)	4 (2)	32.9 (11.5)	30 (10)	255.3 (103.3)	225 (75)	1,649 (7.9%)	6.6 (4.4)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	505	4.5 (2.8)	4 (2)	32.1 (13.2)	30 (16)	275.5 (137.7)	240 (120)	70 (13.9%)	5.8 (4)	5 (4)
Oxycodone	20,310	4.4 (2.5)	4 (2)	32.9 (11.5)	30 (10)	254.1 (98.8)	225 (75)	1,565 (7.7%)	6.6 (4.4)	6 (6)
Morphine	8	7.4 (4.8)	5 (5.5)	36.9 (12.2)	35 (12.5)	637.5 (337.8)	525 (300)	2 (25.0%)	9.5 (6.4)	9.5 (9)
Other	101	4.6 (1.6)	5 (2)	29.6 (9.5)	30 (6)	380.1 (339.4)	150 (450)	12 (11.9%)	8.4 (6.3)	8 (12)
Other Schedule	35,525	4.5 (2.3)	4 (2)	31.5 (9.9)	30 (5)	188.1 (100.1)	150 (75)	3,584 (10.1%)	6.4 (4.3)	5 (6)
Tramadol	686	6.1 (3.5)	5 (3)	29.9 (12.1)	30 (10)	146.5 (61.4)	150 (50)	76 (11.1%)	4.8 (4)	3 (6)
Codeine	928	4.4 (2.5)	4 (2)	30.2 (10.6)	30 (6)	137.6 (52.5)	135 (27)	85 (9.2%)	5.4 (4.6)	4 (6)
Hydrocodone	33,413	4.4 (2.2)	4 (2)	31.6 (9.8)	30 (5)	183.5 (80)	150 (60)	3,378 (10.1%)	6.4 (4.3)	5 (6)
Other	498	5.2 (3.1)	5 (3)	28.6 (9.8)	30 (10)	651.2 (227.9)	690 (230)	45 (9.0%)	5.6 (5.2)	4 (5)
<u>65+ years</u>	2,682	4.6 (2.7)	4 (2)	31.6 (11.1)	30 (10)	203.4 (108.6)	160 (75)	148 (5.5%)	8 (5)	7 (8)
Schedule II	781	4.6 (2.7)	4 (2)	31.9 (11.2)	30 (10)	244.9 (93.9)	225 (75)	36 (4.6%)	8.4 (5.7)	6.5 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	21	5.8 (3.6)	5 (3)	31.7 (10)	30 (15)	253.3 (80.3)	240 (120)	2 (9.5%)	17.5 (14.8)	17.5 (21)
Oxycodone	757	4.5 (2.7)	4 (2)	31.9 (11.3)	30 (10)	245 (94.3)	225 (75)	34 (4.5%)	7.9 (4.8)	6 (5)
Morphine	1	5 (.)	5 (0)	10 (.)	10 (0)	150 (.)	150 (0)	0 (0.0%)		
Other	2	7.5 (2.1)	7.5 (3)	37.5 (3.5)	37.5 (5)	187.5 (17.7)	187.5 (25)	0 (0.0%)		
Other Schedule	1,901	4.6 (2.7)	4 (2)	31.5 (11.1)	30 (2)	186.3 (109.6)	150 (50)	112 (5.9%)	7.8 (4.8)	7 (8)
Tramadol	50	6.7 (4.6)	5 (3)	31.7 (15.3)	30 (10)	156.7 (76.4)	150 (50)	6 (12.0%)	5 (5.5)	3.5 (2)
Codeine	59	4.8 (4)	4 (2)	31.3 (11.4)	30 (10)	147.6 (58.7)	135 (90)	2 (3.4%)	3 (1.4)	3 (2)
Hydrocodone	1,761	4.5 (2.6)	4 (2)	31.5 (10.9)	30 (2)	179.6 (82.7)	150 (50)	102 (5.8%)	8.1 (4.7)	7 (8)
Other	31	5.4 (2.4)	5 (4)	30.3 (11.5)	30 (20)	688.5 (274.8)	690 (460)	2 (6.5%)	8.5 (7.8)	8.5 (11)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Appendectomy (nonspecific)	7,561	4.6 (2.5)	4 (2)	32.1 (11.3)	30 (10)	221.3 (124.3)	200 (100)	1,224 (16.2%)	6.8 (4.1)	6 (5)
<u>18-64 years</u>	6,905	4.6 (2.4)	4 (2)	32.1 (11.2)	30 (10)	221.9 (124.8)	200 (112.5)	1,152 (16.7%)	6.7 (4)	6 (5)
Schedule II	2,827	4.5 (2.5)	4 (2)	33.4 (12.2)	30 (10)	261.6 (119.1)	225 (75)	452 (16.0%)	6.7 (3.9)	6 (5)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	101	4.9 (3.1)	5 (2)	35 (18.3)	30 (15)	304.7 (192.3)	240 (96)	20 (19.8%)	7.1 (4.9)	6 (7.5)
Oxycodone	2,714	4.5 (2.5)	4 (2)	33.3 (11.9)	30 (10)	258.9 (105)	225 (75)	430 (15.8%)	6.6 (3.9)	6 (5)
Morphine	2	11 (4.2)	11 (6)	57 (38.2)	57 (54)	1485 (1463.7)	1485 (2070)	1 (50.0%)	9 (.)	9 (0)
Other	10	6 (2.2)	5 (3)	30.3 (5)	30 (0)	296.5 (348.6)	150 (25)	1 (10.0%)	9 (.)	9 (0)
Other Schedule	4,078	4.7 (2.4)	4 (2)	31.1 (10.3)	30 (5)	194.4 (121.2)	150 (75)	700 (17.2%)	6.8 (4.1)	6 (5)
Tramadol	98	6.6 (4.4)	5 (4)	31.3 (14.7)	30 (5)	149.5 (75.4)	150 (40)	13 (13.3%)	8.2 (6.9)	8 (10)
Codeine	186	4.6 (2.9)	4 (2)	28.3 (10.2)	30 (10)	129.8 (55.9)	135 (45)	25 (13.4%)	5.9 (3.3)	6 (5)
Hydrocodone	3,677	4.6 (2.3)	4 (2)	31.3 (10.2)	30 (5)	184 (85.5)	150 (50)	640 (17.4%)	6.8 (4)	6 (5)
Other	117	5.4 (2.5)	5 (3)	28.9 (8.9)	30 (10)	661.3 (207.1)	690 (230)	22 (18.8%)	6.6 (4.1)	7 (6)
<u>65+ years</u>	656	4.8 (2.7)	5 (2)	32 (12.4)	30 (12)	214.7 (118.9)	187.5 (75)	72 (11.0%)	8.2 (4.4)	7 (6)
Schedule II	232	4.9 (2.9)	5 (2)	33.3 (12.8)	30 (10)	263.3 (114.1)	225 (75)	29 (12.5%)	8.1 (4.3)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	13	4.7 (1.8)	5 (1)	34.8 (15.2)	30 (20)	302.8 (157.9)	240 (160)	3 (23.1%)	7.7 (3.2)	9 (6)
Oxycodone	217	4.9 (3)	5 (2)	33.2 (12.7)	30 (10)	259 (105.1)	225 (75)	26 (12.0%)	8.2 (4.5)	6 (8)
Morphine	0	-	-	-	-	-	-	-	-	-
Other	2	3 (0)	3 (0)	35 (7.1)	35 (10)	475 (459.6)	475 (650)	0 (0.0%)		
Other Schedule	424	4.8 (2.5)	5 (2)	31.3 (12.1)	30 (10)	188.1 (113.1)	150 (50)	43 (10.1%)	8.3 (4.5)	8 (6)
Tramadol	20	5.9 (2.5)	5 (3)	30.3 (7)	30 (7.5)	148.8 (32.9)	150 (12.5)	3 (15.0%)	12.7 (2.3)	14 (4)
Codeine	15	3.7 (1.3)	4 (1)	28.5 (8.7)	30 (20)	128.4 (39.2)	135 (90)	0 (0.0%)		
Hydrocodone	381	4.8 (2.6)	5 (2)	31.6 (12.5)	30 (10)	182.4 (91.6)	150 (50)	40 (10.5%)	8 (4.5)	7 (6)
Other	8	5.5 (1.4)	5 (2)	29.1 (7.8)	29 (12.5)	669.9 (178.8)	667 (287.5)	0 (0.0%)		

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Bunionectomy	38,747	5.4 (2.8)	5 (2)	38.2 (15)	35 (12)	289.2 (181.9)	225 (187.5)	9,559 (24.7%)	6.6 (4.7)	6 (6)
<u>18-64 years</u>	32,984	5.4 (2.8)	5 (2)	38.2 (14.9)	35 (12)	291.7 (183.1)	225 (210)	8,521 (25.8%)	6.5 (4.6)	6 (6)
Schedule II	13,844	5.4 (2.8)	5 (2)	41.3 (16)	40 (20)	352.9 (195.9)	300 (225)	3,871 (28.0%)	6.4 (4.5)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	321	5.3 (3)	5 (2)	43 (17.6)	40 (20)	397.4 (207.1)	320 (240)	98 (30.5%)	5.9 (4.4)	5 (5)
Oxycodone	12,617	5.4 (2.8)	5 (2)	41.8 (15.9)	40 (20)	350.5 (165.9)	300 (225)	3,529 (28.0%)	6.4 (4.5)	6 (6)
Morphine	6	6.2 (4)	6.5 (5)	41.7 (18.3)	50 (20)	625 (275.2)	750 (300)	1 (16.7%)	4 (.)	4 (0)
Other	900	5.2 (2.9)	5 (3)	33 (13.9)	30 (16)	368.6 (433.2)	150 (355)	243 (27.0%)	6.2 (4.5)	5 (5)
Other Schedule	19,140	5.5 (2.8)	5 (3)	36 (13.6)	30 (10)	247.4 (159.2)	200 (150)	4,650 (24.3%)	6.5 (4.7)	6 (6)
Tramadol	478	7.3 (4.5)	6 (5)	36.6 (15)	30 (10)	184.8 (102.9)	150 (50)	83 (17.4%)	5.8 (5.1)	4 (6)
Codeine	1,187	4.5 (2.8)	4 (2)	30.2 (12.6)	30 (10)	140.9 (69.1)	135 (67.5)	222 (18.7%)	5.8 (4.7)	4 (6)
Hydrocodone	17,020	5.5 (2.7)	5 (3)	36.4 (13.6)	30 (10)	243.7 (135.3)	200 (150)	4,253 (25.0%)	6.6 (4.7)	6 (6)
Other	455	5.6 (3.3)	5 (2)	32.2 (13.2)	30 (15)	729.5 (302.6)	690 (368)	92 (20.2%)	5.9 (4.6)	5 (6)
<u>65+ years</u>	5,763	5.6 (3)	5 (3)	37.9 (15.4)	30 (10)	275 (174)	225 (150)	1,038 (18.0%)	7.6 (5.1)	7 (8)
Schedule II	1,902	5.5 (2.9)	5 (2)	41.1 (16.6)	40 (20)	346.9 (184.8)	300 (225)	433 (22.8%)	7.4 (5)	7 (8)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	49	5.2 (4.1)	5 (3)	40.4 (17.5)	40 (12)	374.9 (202.4)	320 (240)	15 (30.6%)	8.5 (6.9)	7 (10)
Oxycodone	1,739	5.5 (2.8)	5 (2)	41.6 (16.6)	40 (20)	350 (169.7)	300 (225)	400 (23.0%)	7.3 (4.9)	7 (7.5)
Morphine	4	9.8 (6.1)	10 (10.5)	36.3 (16)	30 (17.5)	656.3 (283.1)	675 (487.5)	0 (0.0%)		
Other	110	5.6 (4.1)	5 (4)	34.5 (15.7)	30 (15)	274.1 (327.2)	157.5 (150)	18 (16.4%)	8.9 (5.2)	10 (10)
Other Schedule	3,861	5.6 (3)	5 (3)	36.3 (14.4)	30 (10)	239.5 (156.8)	200 (150)	605 (15.7%)	7.7 (5.1)	7 (7)
Tramadol	146	8.2 (5)	7 (5)	37.5 (18.1)	30 (10)	186.7 (97)	150 (50)	22 (15.1%)	7.7 (5.5)	7 (7)
Codeine	253	4.6 (2.2)	4 (3)	31.8 (12.1)	30 (15)	145.4 (62.7)	135 (67.5)	33 (13.0%)	5.8 (4.2)	6 (6)
Hydrocodone	3,369	5.6 (2.9)	5 (3)	36.7 (14.4)	30 (10)	235.8 (132)	200 (150)	538 (16.0%)	7.9 (5.2)	7 (8)
Other	93	6 (4.4)	5 (2)	31.5 (14.5)	30 (20)	714.2 (332.7)	690 (280)	12 (12.9%)	7.8 (4.8)	7.5 (9)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Cesarean section	291,566	4.7 (2.5)	5 (2)	32.6 (9.5)	30 (10)	236.4 (106.2)	225 (150)	39,272 (13.5%)	6.8 (4)	6 (5)
<u>18-64 years</u>	291,560	4.7 (2.5)	5 (2)	32.6 (9.5)	30 (10)	236.4 (106.2)	225 (150)	39,269 (13.5%)	6.8 (4)	6 (5)
Schedule II	177,707	4.6 (2.5)	4 (2)	32.9 (9.7)	30 (10)	252.1 (84.2)	225 (75)	21,389 (12.0%)	6.6 (3.8)	5 (4)
Oxymorphone	2	5 (0)	5 (0)	35 (7.1)	35 (10)	525 (106.1)	525 (150)	0 (0.0%)		
Hydromorphone	3,262	4.6 (2.7)	4 (2)	32.6 (11)	30 (10)	278.8 (119.6)	240 (80)	466 (14.3%)	6.3 (3.9)	5 (5)
Oxycodone	173,593	4.6 (2.5)	4 (2)	32.9 (9.6)	30 (10)	251.4 (82)	225 (75)	20,832 (12.0%)	6.6 (3.8)	5 (4)
Morphine	239	5.9 (3.3)	5 (3)	32.8 (7.5)	30 (10)	506 (141.2)	450 (150)	23 (9.6%)	5.3 (2.5)	5 (4)
Other	611	5.1 (2.7)	5 (3)	32.9 (12.2)	30 (10)	201.9 (196.1)	150 (50)	68 (11.1%)	7.5 (4.3)	6 (6.5)
Other Schedule	113,853	4.9 (2.5)	5 (2)	32.1 (9.3)	30 (0)	212 (129.8)	150 (100)	17,880 (15.7%)	7 (4.1)	6 (5)
Tramadol	1,276	6.7 (4.2)	5 (4)	35.1 (15.1)	30 (10)	176.8 (83.1)	150 (50)	214 (16.8%)	6.5 (4.1)	6 (5)
Codeine	8,153	4.4 (2.3)	4 (2)	30.9 (10.2)	30 (0)	139.7 (48.8)	135 (0)	905 (11.1%)	6.1 (4.1)	5 (5)
Hydrocodone	101,135	4.9 (2.4)	5 (2)	32.2 (9.1)	30 (0)	202.4 (93.3)	150 (90)	16,289 (16.1%)	7.1 (4.1)	6 (5)
Other	3,289	5.3 (2.8)	5 (2)	30.9 (9.7)	30 (0)	700 (229.5)	690 (115)	472 (14.4%)	6.7 (4.2)	6 (4.5)
<u>65+ years</u>	6	6.7 (6.7)	5 (2)	36 (19)	28 (40)	233.3 (188.8)	150 (140)	3 (50.0%)	7.7 (6)	7 (12)
Schedule II	1	2 (.)	2 (0)	20 (.)	20 (0)	150 (.)	150 (0)	0 (0.0%)		
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	0	-	-	-	-	-	-	-	-	-
Oxycodone	1	2 (.)	2 (0)	20 (.)	20 (0)	150 (.)	150 (0)	0 (0.0%)		
Morphine	0	-	-	-	-	-	-	-	-	-
Other	0	-	-	-	-	-	-	-	-	-
Other Schedule	5	7.6 (7)	5 (0)	39.2 (19.3)	30 (34)	250 (206)	150 (140)	3 (60.0%)	7.7 (6)	7 (12)
Tramadol	1	5 (.)	5 (0)	30 (.)	30 (0)	150 (.)	150 (0)	0 (0.0%)		
Codeine	1	20 (.)	20 (0)	60 (.)	60 (0)	270 (.)	270 (0)	1 (100.0%)	7 (.)	7 (0)
Hydrocodone	3	4.3 (1.2)	5 (2)	35.3 (21.6)	26 (40)	276.7 (280.4)	130 (500)	2 (66.7%)	8 (8.5)	8 (12)
Other	0	-	-	-	-	-	-	-	-	-

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Cholecystectomy (laparoscopic)	131,371	4.6 (2.5)	4 (2)	32 (10.3)	30 (10)	218 (117)	200 (100)	11,788 (9.0%)	6.6 (4.5)	6 (6)
<u>18-64 years</u>	112,202	4.6 (2.5)	4 (2)	32.1 (10.2)	30 (10)	219.8 (115.1)	200 (100)	10,614 (9.5%)	6.4 (4.4)	5 (6)
Schedule II	40,195	4.5 (2.5)	4 (2)	33.4 (10.9)	30 (10)	263.5 (110)	225 (75)	3,099 (7.7%)	6.2 (4.5)	5 (6)
Oxymorphone	1	10 (.)	10 (0)	40 (.)	40 (0)	600 (.)	600 (0)	0 (0.0%)		
Hydromorphone	1,250	4.6 (2.7)	4 (2)	33 (12.7)	30 (12)	282.2 (137.2)	240 (80)	116 (9.3%)	5.9 (4.8)	4.5 (7)
Oxycodone	38,441	4.5 (2.5)	4 (2)	33.4 (10.9)	30 (10)	261.7 (104.1)	225 (75)	2,925 (7.6%)	6.3 (4.5)	5 (5)
Morphine	22	5.9 (2.8)	5 (3)	31.5 (11.9)	30 (10)	486.1 (175.7)	450 (150)	5 (22.7%)	6.4 (5.4)	6 (4)
Other	481	5 (3.2)	5 (3)	30 (9.3)	30 (6)	348.1 (291.3)	180 (450)	53 (11.0%)	6.3 (4.7)	5 (8)
Other Schedule	72,007	4.6 (2.4)	4 (2)	31.4 (9.6)	30 (5)	195.4 (110.6)	150 (75)	7,515 (10.4%)	6.5 (4.4)	5 (6)
Tramadol	1,844	6.1 (3.8)	5 (3)	31 (12.6)	30 (6)	151.3 (65.1)	150 (50)	196 (10.6%)	5.3 (4.2)	4 (6)
Codeine	1,933	4.3 (2.2)	4 (2)	29.7 (9.5)	30 (6)	135.6 (47.2)	135 (36)	177 (9.2%)	5.5 (4.9)	4 (6)
Hydrocodone	66,501	4.6 (2.4)	4 (2)	31.5 (9.5)	30 (6)	186.5 (79)	150 (75)	6,985 (10.5%)	6.5 (4.4)	6 (6)
Other	1,729	5 (2.7)	5 (2)	28.6 (9.1)	30 (10)	652 (210.5)	690 (230)	157 (9.1%)	6.1 (4.4)	5 (7)
<u>65+ years</u>	19,169	4.7 (2.6)	4 (2)	31.1 (11.3)	30 (10)	207.2 (127)	180 (75)	1,174 (6.1%)	8 (5)	7 (7)
Schedule II	5,835	4.7 (2.6)	4 (2)	31.8 (12)	30 (15)	249.6 (140)	225 (90)	323 (5.5%)	7.8 (5.3)	7 (8)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	161	4.7 (2.4)	4 (2)	29.4 (9.3)	30 (5)	249.5 (95.3)	240 (40)	18 (11.2%)	8.4 (6.4)	6.5 (9)
Oxycodone	5,628	4.7 (2.6)	4 (2)	31.9 (12)	30 (15)	248 (104.3)	225 (75)	302 (5.4%)	7.8 (5)	7 (8)
Morphine	7	8.9 (9.5)	5 (3)	47.1 (38.6)	30 (50)	1478.6 (2543.3)	450 (750)	1 (14.3%)	33 (.)	33 (0)
Other	39	5.7 (2.9)	5 (1)	28.9 (9.3)	30 (10)	256 (248.8)	150 (125)	2 (5.1%)	1.5 (0.7)	1.5 (1)
Other Schedule	13,334	4.8 (2.6)	4 (2)	30.8 (11)	30 (5)	188.7 (116.1)	150 (50)	851 (6.4%)	8.1 (4.9)	7 (7)
Tramadol	472	6.1 (3)	5 (3)	28.9 (10.4)	30 (10)	141 (52.4)	150 (50)	32 (6.8%)	8.1 (4.7)	8 (5.5)
Codeine	440	4.9 (3.6)	4 (2)	30.3 (13)	30 (10)	138.1 (60.2)	135 (45)	26 (5.9%)	10 (9.6)	7.5 (10)
Hydrocodone	12,061	4.7 (2.5)	4 (2)	30.9 (11)	30 (5)	178.5 (81.6)	150 (50)	773 (6.4%)	8 (4.7)	7 (7)
Other	361	5.3 (2.1)	5 (2)	28.7 (8.6)	30 (10)	655 (200.6)	690 (230)	20 (5.5%)	9.3 (5.3)	8.5 (8)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Cholecystectomy (open)	2,513	5.1 (2.9)	5 (3)	35.1 (13.5)	30 (10)	247.5 (132)	225 (150)	542 (21.6%)	8.1 (4.5)	7 (6)
<u>18-64 years</u>	1,610	5.1 (3)	5 (3)	36 (13.3)	30 (10)	256 (131.5)	225 (150)	403 (25.0%)	7.9 (4.4)	7 (6)
Schedule II	776	4.9 (2.6)	5 (3)	37.7 (14.3)	30 (10)	299 (130.8)	300 (150)	180 (23.2%)	7.8 (4.1)	7 (5.5)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	54	4.8 (2.3)	4.5 (3)	37.7 (12.8)	37.5 (20)	316.7 (115.9)	320 (160)	14 (25.9%)	7.7 (4)	6.5 (7)
Oxycodone	718	4.9 (2.6)	5 (3)	37.7 (14.4)	30 (10)	297.7 (130.6)	300 (135)	165 (23.0%)	7.8 (4.2)	7 (5)
Morphine	1	25 (.)	25 (0)	50 (.)	50 (0)	750 (.)	750 (0)	0 (0.0%)		
Other	3	4.7 (1.2)	4 (2)	27.3 (19.6)	16 (34)	136.7 (98.1)	80 (170)	1 (33.3%)	8 (.)	8 (0)
Other Schedule	834	5.3 (3.2)	5 (3)	34.3 (12.2)	30 (10)	216 (119)	200 (100)	223 (26.7%)	7.9 (4.6)	7 (7)
Tramadol	26	7.5 (4.2)	7 (5)	36 (15.4)	30 (10)	176.9 (79)	150 (50)	6 (23.1%)	8.7 (4.4)	7 (7)
Codeine	17	4.6 (1.7)	4 (2)	27.6 (10.5)	30 (10)	124.4 (47.1)	135 (45)	2 (11.8%)	9.5 (7.8)	9.5 (11)
Hydrocodone	777	5.2 (3.2)	5 (3)	34.5 (12.1)	30 (10)	211.1 (100.6)	200 (100)	214 (27.5%)	7.8 (4.6)	7 (7)
Other	14	4.8 (1.6)	5 (3)	29.3 (9.6)	30 (15)	673.6 (219.8)	690 (345)	1 (7.1%)	8 (.)	8 (0)
<u>65+ years</u>	903	5.2 (2.9)	5 (3)	33.7 (13.6)	30 (10)	232.4 (131.8)	200 (150)	139 (15.4%)	8.8 (4.8)	8 (8)
Schedule II	361	5 (2.8)	5 (3)	35.1 (14.5)	30 (10)	272.9 (120.2)	225 (75)	56 (15.5%)	8.8 (5)	7.5 (8)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	15	4.6 (3.3)	5 (3)	31 (10.3)	30 (13)	248 (82.2)	240 (104)	1 (6.7%)	18 (.)	18 (0)
Oxycodone	344	5 (2.8)	5 (3)	35.3 (14.6)	30 (10)	274.1 (120.9)	225 (75)	54 (15.7%)	8.6 (5)	7 (8)
Morphine	1	7 (.)	7 (0)	30 (.)	30 (0)	450 (.)	450 (0)	0 (0.0%)		
Other	1	2 (.)	2 (0)	10 (.)	10 (0)	50 (.)	50 (0)	1 (100.0%)	11 (.)	11 (0)
Other Schedule	542	5.4 (3)	5 (3)	32.8 (12.9)	30 (10)	205.5 (132.3)	150 (75)	83 (15.3%)	8.8 (4.7)	8 (7)
Tramadol	21	9 (6.2)	8 (5)	38.7 (25)	30 (15)	193.6 (125)	150 (75)	3 (14.3%)	11.3 (8.4)	7 (15)
Codeine	22	5.2 (2)	5 (2)	33.4 (12.6)	30 (10)	150.3 (56.7)	135 (45)	3 (13.6%)	4.7 (2.5)	5 (5)
Hydrocodone	481	5.2 (2.7)	5 (3)	32.7 (12.2)	30 (10)	192.3 (99.5)	150 (75)	73 (15.2%)	9 (4.6)	8 (6)
Other	18	5.2 (1.7)	5 (3)	27.7 (9.6)	30 (10)	637.6 (220.9)	690 (230)	4 (22.2%)	5.8 (2.1)	6 (2.5)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Coronary artery bypass graft	19,966	6.7 (3.8)	5 (3)	46.2 (18.4)	40 (26)	326.1 (210.7)	300 (175)	5,257 (26.3%)	9.8 (5)	9 (7)
<u>18-64 years</u>	11,095	6.7 (3.9)	5 (4)	47 (18.4)	40 (30)	336.9 (213.8)	300 (200)	3,728 (33.6%)	9.7 (5.1)	9 (7)
Schedule II	4,708	6.6 (3.8)	5 (4)	49.8 (19.9)	50 (20)	390.3 (194.1)	375 (150)	1,458 (31.0%)	9.7 (5.1)	9 (7)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	262	6.7 (4.5)	5 (4)	49 (19.4)	50 (20)	425.5 (193.2)	400 (160)	79 (30.2%)	9.6 (5.9)	8 (9)
Oxycodone	4,440	6.6 (3.8)	5 (4)	49.9 (19.9)	50 (20)	387.7 (193)	375 (150)	1,377 (31.0%)	9.7 (5.1)	9 (7)
Morphine	2	8.5 (6.4)	8.5 (9)	45 (7.1)	45 (10)	675 (106.1)	675 (150)	0 (0.0%)		
Other	4	8.5 (7.9)	5.5 (10)	39.5 (7.4)	40 (9)	810 (575.4)	700 (780)	2 (50.0%)	5.5 (2.1)	5.5 (3)
Other Schedule	6,387	6.7 (3.9)	6 (3)	44.9 (17)	40 (20)	297.6 (219.1)	250 (100)	2,270 (35.5%)	9.7 (5)	9 (7)
Tramadol	548	9.1 (5.2)	8 (4)	46.1 (19.2)	40 (20)	224.7 (98.2)	200 (100)	171 (31.2%)	10.9 (6.4)	10 (9)
Codeine	241	6 (4.5)	5 (3)	43.5 (18.8)	40 (20)	196.6 (87.5)	180 (90)	53 (22.0%)	9.1 (5.2)	8 (7)
Hydrocodone	5,235	6.5 (3.6)	5 (4)	45 (16.8)	40 (20)	263.9 (128.6)	250 (100)	1,923 (36.7%)	9.6 (4.9)	9 (7)
Other	363	7.2 (3.7)	6 (4)	41.9 (14.8)	40 (20)	960.8 (339.8)	920 (460)	123 (33.9%)	9.5 (4.8)	9 (6)
<u>65+ years</u>	8,871	6.7 (3.8)	6 (3)	45.2 (18.3)	40 (20)	312.5 (205.8)	250 (175)	1,529 (17.2%)	10.1 (4.9)	9 (7)
Schedule II	3,280	6.5 (3.6)	5 (4)	47.6 (19.7)	40 (30)	366.4 (166.5)	337.5 (221.3)	574 (17.5%)	9.9 (4.9)	9 (7)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	116	6.4 (2.9)	5 (2)	46.8 (19.4)	40 (30)	380.2 (155.9)	320 (240)	27 (23.3%)	12 (3.9)	11 (6)
Oxycodone	3,161	6.5 (3.6)	5 (4)	47.7 (19.7)	41 (30)	365.9 (166.9)	337.5 (225)	545 (17.2%)	9.8 (4.9)	9 (7)
Morphine	2	12 (2.8)	12 (4)	20.5 (0.7)	20.5 (1)	457.5 (201.5)	457.5 (285)	1 (50.0%)	1 (.)	1 (0)
Other	1	6 (.)	6 (0)	40 (.)	40 (0)	200 (.)	200 (0)	1 (100.0%)	14 (.)	14 (0)
Other Schedule	5,591	6.9 (3.9)	6 (3)	43.8 (17.3)	40 (20)	280.9 (219.7)	225 (150)	955 (17.1%)	10.3 (4.9)	10 (7)
Tramadol	684	8.9 (5)	8 (5)	44.1 (18.4)	40 (20)	215.7 (94.4)	200 (100)	98 (14.3%)	10.4 (5.8)	10 (9)
Codeine	206	6 (4)	5 (3)	41.1 (13.6)	40 (20)	185.9 (66.1)	180 (90)	33 (16.0%)	11 (4.8)	11 (6)
Hydrocodone	4,395	6.5 (3.6)	5 (3)	44 (17.3)	40 (20)	247.1 (119.6)	225 (150)	770 (17.5%)	10.2 (4.8)	10 (7)
Other	306	8.1 (4.1)	7 (5)	42.5 (16)	40 (20)	975.8 (372.8)	920 (460)	54 (17.6%)	11 (5.3)	10.5 (9)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Hip replacement, total/partial	28,405	7.9 (4.3)	7 (5)	67.9 (26.7)	60 (40)	519.5 (282.9)	450 (375)	9,115 (32.1%)	9.7 (5.2)	9 (7)
<u>18-64 years</u>	18,636	7.7 (4.2)	7 (5)	68.5 (26.2)	60 (40)	530.4 (270)	450 (337.5)	6,664 (35.8%)	9.5 (5.1)	9 (7)
Schedule II	9,954	7.4 (4.1)	7 (4)	71.7 (27)	60 (40)	580.2 (261.1)	562.5 (225)	3,446 (34.6%)	9.3 (4.8)	9 (6)
Oxymorphone	1	15 (.)	15 (0)	30 (.)	30 (0)	900 (.)	900 (0)	0 (0.0%)		
Hydromorphone	672	7.2 (4.1)	6 (3)	73.7 (26.7)	80 (40)	620 (261)	640 (320)	217 (32.3%)	8.6 (5)	8 (6)
Oxycodone	9,154	7.4 (4)	7 (3)	71.7 (27)	60 (40)	570.1 (242.7)	562.5 (225)	3,188 (34.8%)	9.3 (4.8)	9 (6)
Morphine	46	13.2 (9.2)	10 (8)	65.1 (34.4)	60 (50)	1015.1 (542.8)	900 (900)	15 (32.6%)	7.7 (7.2)	5 (13)
Other	81	8.9 (4.4)	8 (4)	63.1 (21.9)	60 (40)	1150.1 (735.9)	1200 (1100)	26 (32.1%)	9.8 (6.4)	8.5 (9)
Other Schedule	8,682	8.1 (4.3)	7 (5)	64.7 (24.8)	60 (34)	473.4 (268.8)	400 (300)	3,218 (37.1%)	9.7 (5.4)	9 (7)
Tramadol	794	10.2 (5.1)	10 (5)	62.3 (23.3)	60 (30)	303.8 (114.6)	300 (125)	228 (28.7%)	8.9 (6)	8 (9)
Codeine	128	6.6 (3.1)	6 (3.5)	60.2 (25.6)	60 (40)	277.3 (140)	270 (180)	36 (28.1%)	8.5 (5.9)	8 (8.5)
Hydrocodone	7,655	7.9 (4.1)	7 (5)	65.2 (24.9)	60 (40)	483.8 (256.8)	450 (300)	2,916 (38.1%)	9.8 (5.3)	9 (7)
Other	105	9 (3.6)	8 (3)	53.9 (19.3)	50 (20)	1230.2 (449.5)	1150 (460)	38 (36.2%)	9.9 (5.2)	10.5 (6)
<u>65+ years</u>	9,769	8.1 (4.4)	7 (5)	66.9 (27.5)	60 (40)	498.7 (305)	450 (300)	2,451 (25.1%)	10.2 (5.2)	10 (7)
Schedule II	4,157	7.8 (4.3)	7 (5)	69.4 (28)	60 (40)	550.4 (239.1)	450 (300)	1,035 (24.9%)	10.1 (5.2)	10 (7)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	236	7.3 (4.5)	6 (3)	65.8 (25.6)	60 (40)	547.1 (227.7)	480 (320)	73 (30.9%)	9.2 (3.7)	10 (5)
Oxycodone	3,877	7.8 (4.2)	7 (5)	69.8 (28)	60 (40)	546.9 (232.6)	450 (300)	950 (24.5%)	10.2 (5.2)	10 (7)
Morphine	27	11.4 (8.9)	8 (9)	54 (29.7)	60 (45)	851.1 (474.9)	900 (900)	5 (18.5%)	11.8 (11.8)	11 (13)
Other	17	8.5 (4.9)	8 (3)	54.9 (25.5)	60 (20)	904.7 (575.4)	800 (750)	7 (41.2%)	11.4 (4.4)	11 (7)
Other Schedule	5,612	8.4 (4.5)	8 (5)	65.1 (27.1)	60 (50)	460.5 (340.8)	400 (250)	1,416 (25.2%)	10.4 (5.3)	10 (7)
Tramadol	582	10.8 (5.7)	10 (7)	59.2 (29.2)	60 (35)	314 (596.6)	300 (150)	137 (23.5%)	10.5 (6.4)	10 (8)
Codeine	85	7.1 (3.4)	7 (5)	57 (26.1)	50 (20)	257.1 (119.8)	225 (90)	11 (12.9%)	9.5 (5.2)	11 (9)
Hydrocodone	4,865	8.1 (4.2)	7 (5)	66.1 (26.7)	60 (45)	468.5 (269.7)	400 (300)	1,251 (25.7%)	10.4 (5.2)	10 (7)
Other	80	10.1 (5.4)	10 (6)	55.4 (23.9)	55 (20)	1255.6 (540.2)	1150 (460)	17 (21.3%)	9.3 (4.8)	10 (5)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Hysterectomy (abdominal/vaginal non-laparoscopic)	11,030	4.8 (2.7)	5 (2)	32.7 (11.4)	30 (10)	239.4 (134.6)	225 (150)	1,748 (15.8%)	7.3 (4.6)	6 (6)
<u>18-64 years</u>	9,425	4.8 (2.6)	5 (2)	32.9 (11.4)	30 (10)	242.3 (136.4)	225 (150)	1,620 (17.2%)	7.3 (4.6)	6 (6)
Schedule II	5,183	4.7 (2.7)	4 (2)	33.7 (12.1)	30 (10)	264.4 (117)	225 (75)	871 (16.8%)	7.2 (4.6)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	239	5 (2.7)	5 (3)	36.2 (13.9)	30 (10)	324.1 (174.8)	240 (160)	57 (23.8%)	7.4 (5.1)	6 (5)
Oxycodone	4,860	4.6 (2.7)	4 (2)	33.6 (12)	30 (10)	261.2 (107.6)	225 (75)	801 (16.5%)	7.2 (4.6)	6 (6)
Morphine	5	5.2 (1.8)	5 (0)	30 (0)	30 (0)	540 (201.2)	450 (0)	1 (20.0%)	1 (.)	1 (0)
Other	79	5.9 (4)	5 (3)	32.5 (11)	30 (10)	262.7 (275.9)	150 (100)	12 (15.2%)	5.7 (3.4)	5.5 (5.5)
Other Schedule	4,242	4.9 (2.5)	5 (2)	31.9 (10.3)	30 (6)	215.3 (152.6)	150 (75)	749 (17.7%)	7.3 (4.7)	6 (6)
Tramadol	91	6.7 (3.7)	5 (4)	35.6 (16.1)	30 (10)	177.5 (84.6)	150 (68.8)	14 (15.4%)	7.9 (6.2)	7.5 (11)
Codeine	303	4.6 (3.2)	4 (2)	31.2 (11)	30 (5)	141.7 (52.1)	135 (22.5)	41 (13.5%)	7.1 (4.5)	5 (5)
Hydrocodone	3,605	4.9 (2.4)	5 (2)	31.9 (10.1)	30 (10)	190.6 (85.7)	150 (75)	666 (18.5%)	7.3 (4.6)	6 (6)
Other	243	5.2 (2.7)	5 (1)	30.3 (9.7)	30 (5)	686.7 (230)	690 (230)	28 (11.5%)	7.6 (5)	6 (4.5)
<u>65+ years</u>	1,605	5 (2.7)	5 (3)	31.9 (11.2)	30 (5)	222.5 (122.2)	200 (100)	128 (8.0%)	7.5 (4.5)	6 (7)
Schedule II	774	4.8 (2.7)	5 (2)	32.7 (12.1)	30 (10)	251.7 (105.7)	225 (75)	58 (7.5%)	7.6 (4.4)	7 (7)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	32	5.7 (2.1)	5.5 (2.5)	36 (13)	30 (11)	297.3 (115.8)	240 (128)	4 (12.5%)	8.5 (4.7)	8.5 (8)
Oxycodone	738	4.8 (2.7)	5 (2)	32.6 (12.1)	30 (10)	247.6 (97.3)	225 (75)	54 (7.3%)	7.5 (4.4)	7 (7)
Morphine	0	-	-	-	-	-	-	-	-	-
Other	4	7 (1.4)	7.5 (2)	30 (0)	30 (0)	637.5 (430.8)	600 (525)	0 (0.0%)	-	-
Other Schedule	831	5.2 (2.8)	5 (3)	31.2 (10.2)	30 (0)	195.4 (130.1)	150 (50)	70 (8.4%)	7.4 (4.6)	6 (7)
Tramadol	31	8.4 (5.2)	7 (5)	34.4 (15.4)	30 (10)	169.1 (77.5)	150 (0)	2 (6.5%)	16.5 (4.9)	16.5 (7)
Codeine	81	4.4 (1.8)	5 (2)	28.1 (8.5)	30 (10)	128 (41.5)	135 (45)	6 (7.4%)	5.2 (5)	3.5 (3)
Hydrocodone	683	5.1 (2.6)	5 (3)	31.5 (10.1)	30 (0)	180.8 (81.4)	150 (50)	59 (8.6%)	7.3 (4.1)	6 (5)
Other	36	5.6 (1.9)	5 (3)	29.1 (8.3)	30 (10)	646.6 (195.5)	690 (230)	3 (8.3%)	8.7 (9)	4 (16)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Hysterectomy (laparoscopic)	12,879	4.7 (2.6)	4 (2)	32.1 (10.1)	30 (10)	234.4 (117.2)	225 (150)	1,876 (14.6%)	7.3 (4.6)	6 (6)
<u>18-64 years</u>	12,258	4.7 (2.5)	4 (2)	32.1 (10.1)	30 (10)	235.3 (117.9)	225 (150)	1,843 (15.0%)	7.3 (4.6)	6 (6)
Schedule II	7,119	4.5 (2.4)	4 (2)	32.8 (10.6)	30 (10)	258.2 (101.1)	225 (75)	985 (13.8%)	7.1 (4.4)	6 (6)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	334	4.9 (3)	5 (3)	34.6 (13.3)	30 (10)	300.9 (146.7)	240 (80)	55 (16.5%)	6.5 (4.2)	6 (6)
Oxycodone	6,650	4.5 (2.4)	4 (2)	32.8 (10.4)	30 (10)	255.1 (92.6)	225 (75)	905 (13.6%)	7.1 (4.4)	6 (6)
Morphine	14	6.9 (3.2)	7 (3)	31.4 (10.8)	30 (20)	514.3 (252.8)	450 (300)	4 (28.6%)	6.5 (3.7)	6.5 (5)
Other	121	4.7 (2.3)	4 (2)	28.6 (9.3)	30 (10)	286 (223)	200 (250)	21 (17.4%)	6.2 (3.9)	6 (6)
Other Schedule	5,139	5 (2.7)	5 (2)	31.2 (9.4)	30 (0)	203.5 (131.4)	150 (75)	858 (16.7%)	7.6 (4.8)	7 (7)
Tramadol	200	6.7 (4.2)	5 (4)	32.4 (12.1)	30 (0)	161.8 (61.7)	150 (0)	22 (11.0%)	9.4 (5.6)	9.5 (10)
Codeine	282	4.1 (2)	4 (2)	29 (9.7)	30 (10)	131.5 (44.8)	135 (45)	29 (10.3%)	5.8 (4.4)	5 (6)
Hydrocodone	4,436	4.9 (2.5)	5 (2)	31.3 (9.3)	30 (0)	186.5 (78.6)	150 (75)	771 (17.4%)	7.7 (4.8)	7 (7)
Other	221	5.1 (3.1)	5 (2)	29.8 (7.9)	30 (5)	672.9 (193.6)	690 (138)	36 (16.3%)	6.6 (4.4)	6 (6.5)
<u>65+ years</u>	621	5 (2.9)	5 (3)	31.8 (10.5)	30 (0)	218 (101.2)	225 (75)	33 (5.3%)	8.2 (4.9)	8 (9)
Schedule II	332	4.7 (2.5)	5 (2)	31.9 (10.9)	30 (10)	244 (88.3)	225 (75)	18 (5.4%)	7.6 (5.1)	5.5 (9)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	13	5.3 (2.4)	5 (4)	48.8 (18.2)	50 (30)	390.2 (145.3)	400 (240)	1 (7.7%)	15 (.)	15 (0)
Oxycodone	317	4.7 (2.5)	4 (2)	31.2 (9.9)	30 (4)	237.2 (77.5)	225 (75)	17 (5.4%)	7.2 (5)	5 (6)
Morphine	0	-	-	-	-	-	-	-	-	-
Other	2	5 (0)	5 (0)	30 (0)	30 (0)	375 (318.2)	375 (450)	0 (0.0%)	-	-
Other Schedule	289	5.4 (3.3)	5 (3)	31.6 (10)	30 (0)	188.2 (107)	150 (50)	15 (5.2%)	8.9 (4.6)	9 (7)
Tramadol	14	6.5 (2.4)	6 (4)	32.9 (12.7)	30 (10)	161.6 (64.8)	150 (87.5)	0 (0.0%)	-	-
Codeine	15	5.5 (4.6)	4 (2)	32.5 (17.6)	30 (20)	146.4 (79.3)	135 (90)	1 (6.7%)	6 (.)	6 (0)
Hydrocodone	250	5.4 (3.3)	5 (3)	31.7 (9.3)	30 (0)	175.4 (66.2)	150 (50)	13 (5.2%)	9.1 (4.9)	9 (7)
Other	10	4.3 (1.6)	4.5 (2)	26.5 (6.6)	27 (10)	609.5 (152.3)	621 (230)	1 (10.0%)	10 (.)	10 (0)

Table 3. Descriptive Statistics for the Initial Dispensing of an Opioid Analgesic within 7 Days of Surgery, by Surgery and Age Group

Surgery	Number of Initial Fills	Initial days supply dispensed		Initial quantity (tablets) dispensed		Initial Morphine Milligram Equivalent (MME) dispensed		N, % (first refills/index fills)	Initial time to first refill in days	
		Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)
Tooth extraction	217,598	3.4 (1.7)	3 (2)	19.4 (6.3)	20 (5)	128.4 (68.9)	112.5 (60)	20,193 (9.3%)	5.7 (3.6)	5 (4)
<u>18-64 years</u>	212,114	3.5 (1.7)	3 (2)	19.5 (6.3)	20 (5)	128.8 (68.8)	112.5 (60)	19,920 (9.4%)	5.7 (3.5)	5 (4)
Schedule II	44,645	3.6 (1.8)	3 (1)	21.4 (7)	20 (7)	173.8 (85.1)	150 (90)	4,075 (9.1%)	5.6 (3.4)	5 (4)
Oxymorphone	1	30 (.)	30 (0)	60 (.)	60 (0)	2700 (.)	2700 (0)	0 (0.0%)	-	-
Hydromorphone	109	3.8 (3.2)	3 (3)	25.2 (21.8)	20 (9)	309.1 (573.2)	200 (128)	21 (19.3%)	7.1 (5.8)	5 (5)
Oxycodone	43,631	3.6 (1.8)	3 (1)	21.4 (6.9)	20 (7)	174.7 (78.8)	150 (75)	3,942 (9.0%)	5.6 (3.4)	5 (4)
Morphine	4	3.8 (2.8)	3.5 (4.5)	18.5 (14.4)	12 (15)	277.5 (215.5)	180 (225)	0 (0.0%)	-	-
Other	900	3.4 (1.7)	3 (2)	20 (6.4)	20 (4)	111.5 (75.1)	100 (22.5)	112 (12.4%)	4.6 (2.8)	4 (3)
Other Schedule	167,469	3.4 (1.6)	3 (2)	19 (6)	20 (5)	116.8 (58.1)	100 (70)	15,845 (9.5%)	5.7 (3.6)	5 (4)
Tramadol	1,537	4.2 (3.3)	3 (2)	21.9 (10.8)	20 (9)	104.8 (54)	100 (45)	136 (8.8%)	6 (4)	5 (5)
Codeine	15,441	3.2 (1.8)	3 (2)	17.8 (5.8)	18 (6)	80.7 (28.2)	81 (27)	928 (6.0%)	6.3 (4.2)	6 (5)
Hydrocodone	149,101	3.4 (1.6)	3 (2)	19.1 (5.9)	20 (5)	117.8 (49.6)	100 (70)	14,674 (9.8%)	5.7 (3.5)	5 (4)
Other	1,390	3.3 (1.7)	3 (2)	18.5 (6.5)	20 (5)	422.4 (149.3)	460 (115)	107 (7.7%)	5.5 (3.6)	4 (4)
<u>65+ years</u>	5,484	3.3 (1.8)	3 (2)	17.6 (6.7)	16 (8)	111.9 (70.9)	100 (60)	273 (5.0%)	7.7 (4.5)	7 (6)
Schedule II	457	3.5 (1.8)	3 (2)	19.6 (7.2)	20 (5)	157.8 (74.8)	150 (75)	18 (3.9%)	7.3 (4.5)	7 (8)
Oxymorphone	0	-	-	-	-	-	-	-	-	-
Hydromorphone	6	2.7 (1.5)	3 (2)	19.5 (10.2)	20 (20)	220 (138.5)	176 (88)	1 (16.7%)	15 (.)	15 (0)
Oxycodone	440	3.5 (1.7)	3 (2)	19.5 (7)	20 (5)	157.2 (67.9)	150 (75)	16 (3.6%)	6.6 (4.1)	6.5 (7)
Morphine	1	12 (.)	12 (0)	50 (.)	50 (0)	750 (.)	750 (0)	0 (0.0%)	-	-
Other	10	2.9 (1)	3 (1)	17.5 (5.6)	15.5 (8)	87.5 (28.1)	77.5 (40)	1 (10.0%)	11 (.)	11 (0)
Other Schedule	5,027	3.3 (1.8)	3 (2)	17.5 (6.6)	16 (8)	107.7 (69.1)	90 (48)	255 (5.1%)	7.7 (4.5)	7 (6)
Tramadol	107	4.8 (5)	3 (2)	21.2 (11.6)	20 (12)	99.4 (56)	90 (45)	7 (6.5%)	14.4 (10.4)	11 (21)
Codeine	1,051	3.2 (1.6)	3 (2)	17.3 (5.8)	16 (8)	77.7 (27.5)	72 (36)	38 (3.6%)	7.3 (4.2)	7 (6)
Hydrocodone	3,733	3.3 (1.6)	3 (2)	17.4 (6.7)	16 (8)	106 (49.5)	100 (45)	202 (5.4%)	7.6 (4.1)	7 (5)
Other	136	3.3 (1.8)	3 (2)	17.1 (4.9)	16 (8)	391.1 (117)	368 (184)	8 (5.9%)	6.5 (3.4)	6 (3.5)

Table 4. Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery*

Surgery	All Opioid Analgesics					Schedule II			Other Schedule		
	Observed days supply (DS)		Estimated DS associated with LPR (% with refill)	Lowest DS associated with 20% probability of refill**	Estimated probability of refill associated with DS of 7	Observed DS		Estimated DS associated with LPR (% with refill)	Observed DS		Estimated DS associated with LPR (% with refill)
	Mean (standard deviation)	Median (interquartile range)				Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)	
Appendectomy (laparoscopic)	4.4 (2.4)	4 (2)	10 (5.6%)	1	5.76%	4.4 (2.5)	4 (2)	9 (6.2%)	4.5 (2.3)	4 (2)	12 (7.0%)
Appendectomy (nonspecific)	4.6 (2.5)	4 (2)	24 (12.7%)	1	15.69%	4.5 (2.5)	4 (2)	30 (7.8%)	4.7 (2.4)	4 (2)	19 (15.0%)
Bunionectomy	5.4 (2.8)	5 (2)	30 (21.6%)	-	25.79%	5.4 (2.8)	5 (2)	17 (22.3%)	5.5 (2.8)	5 (3)	30 (13.4%)
Cesarean section	4.7 (2.5)	5 (2)	15 (8.0%)	1	9.38%	4.6 (2.5)	4 (2)	14 (8.4%)	4.9 (2.5)	5 (2)	17 (10.5%)
Cholecystectomy (laparoscopic)	4.6 (2.5)	4 (2)	13 (5.1%)	1	5.78%	4.5 (2.5)	4 (2)	12 (4.8%)	4.6 (2.4)	4 (2)	13 (7.1%)
Cholecystectomy (open)	5.1 (2.9)	5 (3)	21 (13.5%)	10	22.36%	4.9 (2.7)	5 (3)	30 (0.8%)	5.3 (3.1)	5 (3)	19 (19.7%)
Coronary artery bypass graft	6.7 (3.8)	5 (3)	30 (23.7%)	-	32.16%	6.5 (3.7)	5 (4)	15 (26.2%)	6.8 (3.9)	6 (3)	30 (19.3%)
Hip replacement, total/partial	7.9 (4.3)	7 (5)	20 (25.5%)	-	33.31%	7.5 (4.2)	7 (4)	20 (27.0%)	8.2 (4.3)	7 (5)	19 (27.7%)
Hysterectomy (abdominal/vaginal non-laparoscopic)	4.8 (2.6)	5 (2)	30 (8.2%)	1	12.82%	4.7 (2.7)	4 (2)	22 (8.3%)	5 (2.5)	5 (2)	30 (4.1%)
Hysterectomy (laparoscopic)	4.7 (2.6)	4 (2)	30 (6.5%)	1	11.45%	4.5 (2.4)	4 (2)	30 (5.9%)	5 (2.7)	5 (2)	30 (8.9%)
Tooth extraction	3.4 (1.7)	3 (2)	10 (7.6%)	1	8.07%	3.6 (1.8)	3 (1)	11 (7.8%)	3.4 (1.6)	3 (2)	10 (7.9%)

LPR: Lowest probability of refill

*Some modeled curves were non-convex and days supply associated with the lowest probability of refill should be interpreted with caution. See corresponding figures.

**For some surgeries, the probability of refill associated with all days supply was greater than 20%. These are noted in the table with a "-".

Table 4. Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery*

Surgery	Hydrocodone			Oxycodone		
	Observed DS		Estimated DS associated with LPR (% with refill)	Observed DS		DS associated with LPR (% with refill)
	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)	
Appendectomy (laparoscopic)	4.4 (2.3)	4 (2)	13 (6.6%)	4.4 (2.5)	4 (2)	14 (5.8%)
Appendectomy (nonspecific)	4.6 (2.3)	4 (2)	23 (15.0%)	4.5 (2.5)	4 (2)	30 (7.3%)
Bunionectomy	5.5 (2.7)	5 (3)	30 (17.3%)	5.4 (2.8)	5 (2)	16 (22.8%)
Cesarean section	4.9 (2.4)	5 (2)	18 (10.7%)	4.6 (2.5)	4 (2)	14 (8.4%)
Cholecystectomy (laparoscopic)	4.6 (2.4)	4 (2)	15 (6.8%)	4.5 (2.5)	4 (2)	12 (4.6%)
Cholecystectomy (open)	5.2 (3)	5 (3)	18 (20.5%)	4.9 (2.6)	5 (3)	30 (0.4%)
Coronary artery bypass graft	6.5 (3.6)	5 (4)	30 (22.8%)	6.5 (3.7)	5 (4)	15 (26.7%)
Hip replacement, total/partial	8 (4.2)	7 (5)	18 (29.5%)	7.5 (4.1)	7 (4)	22 (26.8%)
Hysterectomy (abdominal/	4.9 (2.4)	5 (2)	30 (5.6%)	4.6 (2.7)	4 (2)	24 (7.6%)
Hysterectomy (laparoscopic)	4.9 (2.6)	5 (2)	30 (10.5%)	4.5 (2.4)	4 (2)	30 (6.5%)
Tooth extraction	3.4 (1.6)	3 (2)	11 (7.7%)	3.6 (1.8)	3 (1)	11 (7.6%)

LPR: Lowest probability of refill

*Some modeled curves were non-convex and days supply associated with the lowest probability of refill should be interpreted with caution. See corresponding figures.

**For some surgeries, the probability of refill associated with all days supply was greater than 20%. These are noted in the table with a "-".

Table 5. Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery and Age Group*

Surgery	All Opioid Analgesics					Schedule II			Other Schedule		
	Observed days supply (DS)		Estimated DS associated with LPR (% with refill)	Lowest DS associated with 20% probability of refill**	Estimated probability of refill associated with DS of 7	Observed DS		Estimated DS associated with LPR (% with refill)	Observed DS		Estimated DS associated with LPR (% with refill)
	Mean (standard deviation)	Median (interquartile range)				Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)	
Appendectomy (laparoscopic)											
18-64	4.4 (2.4)	4 (2)	11 (5.5%)	1	5.76%	4.4 (2.5)	4 (2)	10 (6.2%)	4.5 (2.3)	4 (2)	12 (6.9%)
65+	4.6 (2.7)	4 (2)	30 (1.1%)	1	2.43%	4.6 (2.7)	4 (2)	8 (0.0%)	4.6 (2.7)	4 (2)	30 (0.2%)
Appendectomy (nonspecific)											
18-64	4.6 (2.4)	4 (2)	22 (12.0%)	1	14.09%	4.5 (2.5)	4 (2)	30 (8.5%)	4.7 (2.4)	4 (2)	18 (12.7%)
65+	4.8 (2.7)	5 (2)	30 (1.4%)	16	33.89%	4.9 (2.9)	5 (2)	30 (0.0%)	4.8 (2.5)	5 (2)	4 (21.6%)
Bunionectomy											
18-64	5.4 (2.8)	5 (2)	30 (20.1%)	-	25.55%	5.4 (2.8)	5 (2)	17 (22.7%)	5.5 (2.8)	5 (3)	30 (13.3%)
65+	5.6 (3)	5 (3)	14 (17.3%)	-	20.16%	5.5 (2.9)	5 (2)	15 (12.8%)	5.6 (3)	5 (3)	30 (9.3%)
Cesarean section											
18-64	4.7 (2.5)	5 (2)	15 (8.0%)	1	9.38%	4.6 (2.5)	4 (2)	14 (8.4%)	4.9 (2.5)	5 (2)	17 (10.5%)
65+	2 (.)	2 (0)	-	-	-	2 (.)	2 (0)	-	-	-	-
Cholecystectomy (laparoscopic)											
18-64	4.6 (2.5)	4 (2)	13 (5.0%)	1	5.64%	4.5 (2.5)	4 (2)	12 (4.6%)	4.6 (2.4)	4 (2)	13 (7.1%)
65+	4.7 (2.6)	4 (2)	19 (3.6%)	1	4.18%	4.7 (2.6)	4 (2)	7 (4.0%)	4.8 (2.6)	4 (2)	23 (3.5%)
Cholecystectomy (open)											
18-64	5.1 (3)	5 (3)	23 (7.4%)	10	22.38%	4.9 (2.6)	5 (3)	30 (0.0%)	5.3 (3.2)	5 (3)	22 (16.4%)
65+	5.2 (2.9)	5 (3)	10 (9.2%)	2	11.19%	5 (2.8)	5 (3)	30 (9.8%)	5.4 (3)	5 (3)	11 (11.2%)
Coronary artery bypass graft											
18-64	6.7 (3.9)	5 (4)	20 (23.4%)	-	31.93%	6.6 (3.8)	5 (4)	15 (25.4%)	6.7 (3.9)	6 (3)	30 (20.9%)
65+	6.7 (3.8)	6 (3)	30 (11.8%)	6	18.73%	6.5 (3.6)	5 (4)	17 (15.4%)	6.9 (3.9)	6 (3)	30 (8.2%)
Hip replacement, total/partial											
18-64	7.7 (4.2)	7 (5)	20 (24.1%)	-	32.37%	7.4 (4.1)	7 (4)	25 (24.8%)	8.1 (4.3)	7 (5)	19 (26.4%)
65+	8.1 (4.4)	7 (5)	18 (22.8%)	-	28.98%	7.8 (4.3)	7 (5)	18 (23.5%)	8.4 (4.5)	8 (5)	30 (23.4%)
Hysterectomy (abdominal/vaginal non-laparoscopic)											
18-64	4.8 (2.6)	5 (2)	30 (6.1%)	1	7.20%	4.6 (2.7)	4 (2)	30 (7.0%)	4.9 (2.5)	5 (2)	30 (2.7%)
65+	5 (2.7)	5 (3)	5 (7.0%)	1	12.57%	4.8 (2.7)	5 (2)	15 (4.0%)	5.1 (2.6)	5 (3)	30 (8.7%)
Hysterectomy (laparoscopic)											
18-64	4.7 (2.5)	4 (2)	30 (6.6%)	1	11.32%	4.5 (2.4)	4 (2)	30 (5.9%)	5 (2.7)	5 (2)	30 (9.2%)
65+	5 (2.9)	5 (3)	30 (0.6%)	1	8.56%	4.7 (2.5)	5 (2)	30 (0.0%)	5.4 (3.3)	5 (3)	30 (0.4%)
Tooth extraction											
18-64	3.5 (1.7)	3 (2)	11 (7.5%)	1	4.06%	3.6 (1.8)	3 (1)	11 (7.8%)	3.4 (1.6)	3 (2)	11 (7.8%)
65+	3.3 (1.8)	3 (2)	6 (4.0%)	1	8.04%	3.5 (1.8)	3 (2)	20 (6.2%)	3.3 (1.8)	3 (2)	5 (4.6%)

LPR: Lowest probability of refill

*Some modeled curves were non-convex and days supply associated with the lowest probability of refill should be interpreted with caution. See corresponding figures.

**For some surgeries, the probability of refill associated with all days supply was greater than 20%. These are noted in the table with a "-".

Table 5. Analysis of Estimated Adequate Prescription Durations for Opioid Analgesics in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery and Age Group*

Surgery	Hydrocodone			Oxycodone		
	Observed DS		Estimated DS associated with LPR (% with refill)	Observed DS		Estimated DS associated with LPR (% with refill)
	Mean (standard deviation)	Median (interquartile range)		Mean (standard deviation)	Median (interquartile range)	
Age (Years)						
Appendectomy (laparoscopic)						
18-64	4.4 (2.2)	4 (2)	13 (6.5%)	4.4 (2.5)	4 (2)	14 (5.7%)
65+	4.5 (2.6)	4 (2)	30 (0.2%)	4.5 (2.7)	4 (2)	30 (0.0%)
Appendectomy (nonspecific)						
18-64	4.6 (2.3)	4 (2)	22 (13.1%)	4.5 (2.5)	4 (2)	30 (7.9%)
65+	4.8 (2.6)	5 (2)	10 (23.1%)	4.9 (3)	5 (2)	30 (0.0%)
Bunionectomy						
18-64	5.5 (2.7)	5 (3)	30 (17.0%)	5.4 (2.8)	5 (2)	16 (23.4%)
65+	5.6 (2.9)	5 (3)	30 (12.5%)	5.5 (2.8)	5 (2)	15 (12.8%)
Cesarean section						
18-64	4.9 (2.4)	5 (2)	18 (10.7%)	4.6 (2.5)	4 (2)	14 (8.4%)
65+	-	-	-	2 (.)	2 (0)	-
Cholecystectomy (laparoscopic)						
18-64	4.6 (2.4)	4 (2)	14 (6.9%)	4.5 (2.5)	4 (2)	12 (4.4%)
65+	4.7 (2.5)	4 (2)	30 (0.5%)	4.7 (2.6)	4 (2)	27 (3.5%)
Cholecystectomy (open)						
18-64	5.2 (3.2)	5 (3)	22 (19.0%)	4.9 (2.6)	5 (3)	30 (0.0%)
65+	5.2 (2.7)	5 (3)	11 (7.3%)	5 (2.8)	5 (3)	30 (4.9%)
Coronary artery bypass graft						
18-64	6.5 (3.6)	5 (4)	25 (24.2%)	6.6 (3.8)	5 (4)	15 (25.4%)
65+	6.5 (3.6)	5 (3)	30 (11.0%)	6.5 (3.6)	5 (4)	17 (16.0%)
Hip replacement, total/partial						
18-64	7.9 (4.1)	7 (5)	17 (29.1%)	7.4 (4)	7 (3)	30 (23.5%)
65+	8.1 (4.2)	7 (5)	30 (21.8%)	7.8 (4.2)	7 (5)	19 (22.3%)
Hysterectomy (abdominal/						
18-64	4.9 (2.4)	5 (2)	30 (3.6%)	4.6 (2.7)	4 (2)	30 (5.3%)
65+	5.1 (2.6)	5 (3)	30 (7.0%)	4.8 (2.7)	5 (2)	15 (4.6%)
Hysterectomy (laparoscopic)						
18-64	4.9 (2.5)	5 (2)	30 (11.0%)	4.5 (2.4)	4 (2)	30 (6.6%)
65+	5.4 (3.3)	5 (3)	30 (0.4%)	4.7 (2.5)	4 (2)	30 (0.0%)
Tooth extraction						
18-64	3.4 (1.6)	3 (2)	11 (7.6%)	3.6 (1.8)	3 (1)	11 (7.6%)
65+	3.3 (1.6)	3 (2)	4 (5.0%)	3.5 (1.7)	3 (2)	20 (1.9%)

LPR: Lowest probability of refill

*Some modeled curves were non-convex and days supply associated with the lowest probability of refill should be interpreted with caution. See corresponding figures.

**For some surgeries, the probability of refill associated with all days supply was greater than 20%. These are noted in the table with a "-".

Table 6. Total Days Supply, Amount Supplied, and Morphine Milligram Equivalents (MME) of Initial Opioid Analgesic Dispensings in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Surgery

Surgery	All Opioid Analgesics		
	Days Supply	Number of Tablets	Morphine Milligram Equivalents (MME)
Appendectomy (laparoscopic)	262,488	1,890,619	12,570,387.0
Appendectomy (nonspecific)	34,964	242,419	1,672,973.5
Bunionectomy	210,968	1,478,308	11,205,540.3
Cesarean section	1,372,568	9,495,007	68,936,519.5
Cholecystectomy (laparoscopic)	602,504	4,197,635	28,639,020.2
Cholecystectomy (open)	12,940	88,318	622,056.0
Coronary artery bypass graft	133,837	922,569	6,510,277.1
Hip replacement, total/partial	223,792	1,929,675	14,757,580.5
Hysterectomy (abdominal/vaginal non-laparoscopic)	53,023	361,181	2,640,532.9
Hysterectomy (laparoscopic)	60,642	413,258	3,019,410.1
Tooth extraction	750,630	4,224,701	27,929,149.4

Figure 1. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

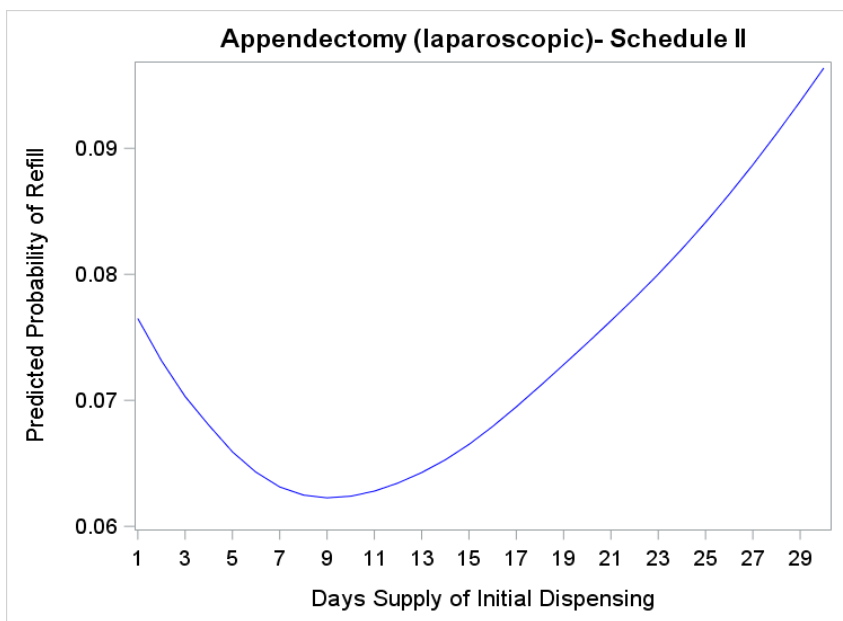
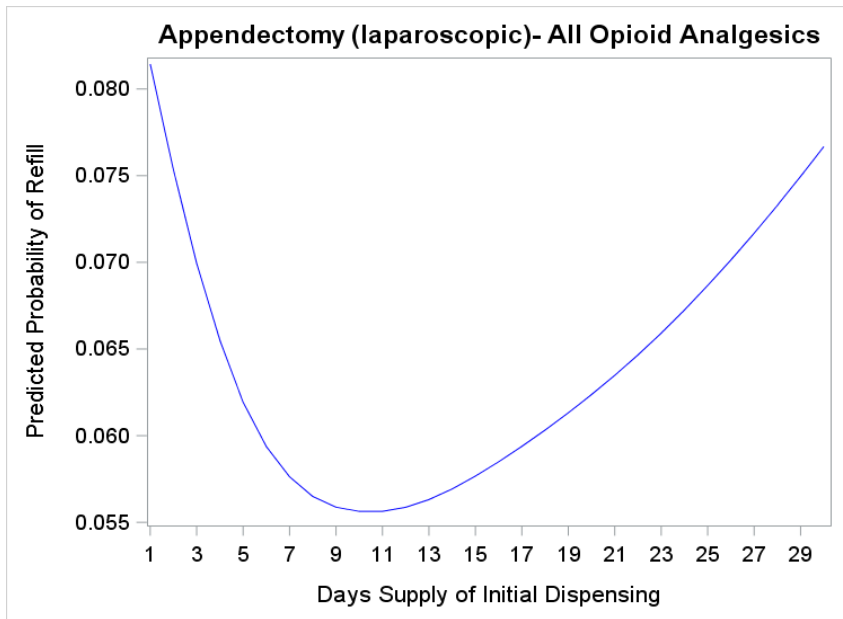


Figure 1. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

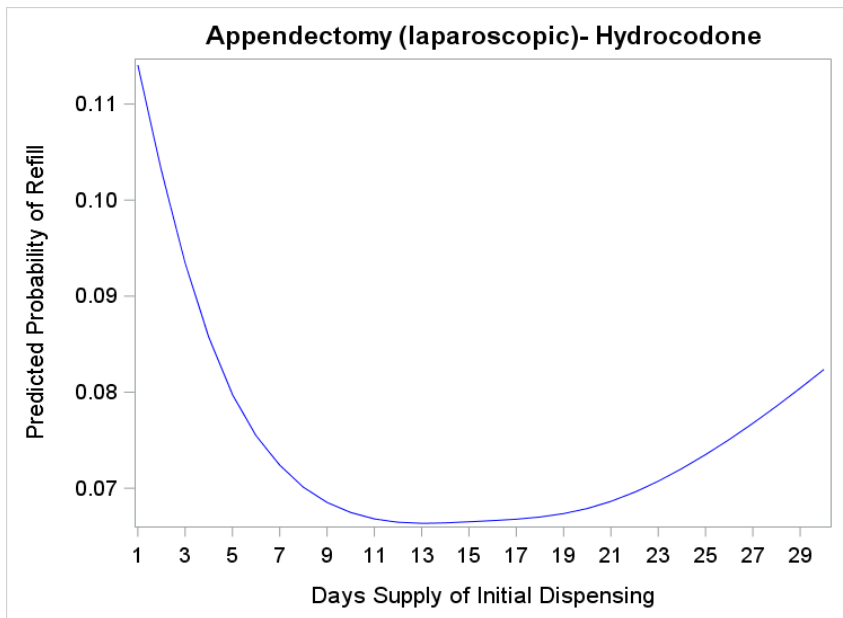
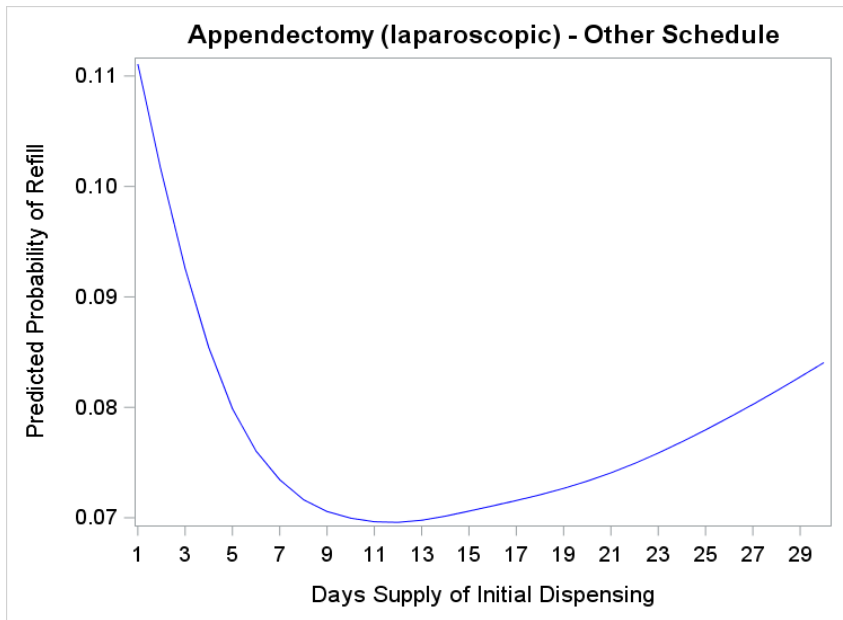


Figure 1. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

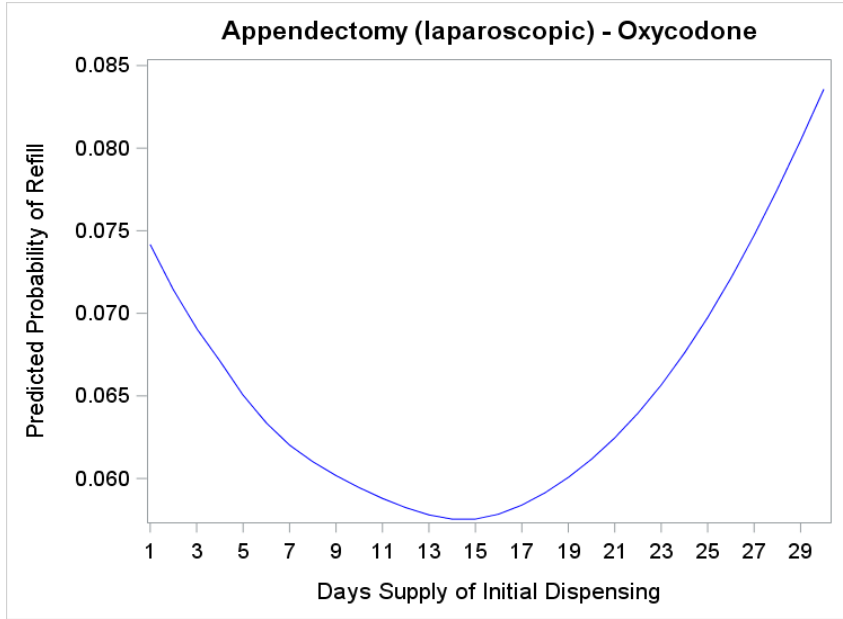


Figure 2. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

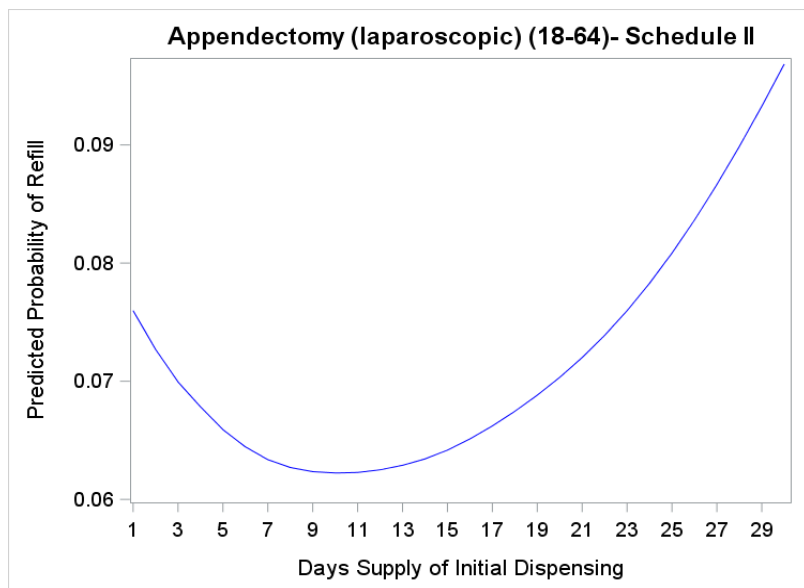
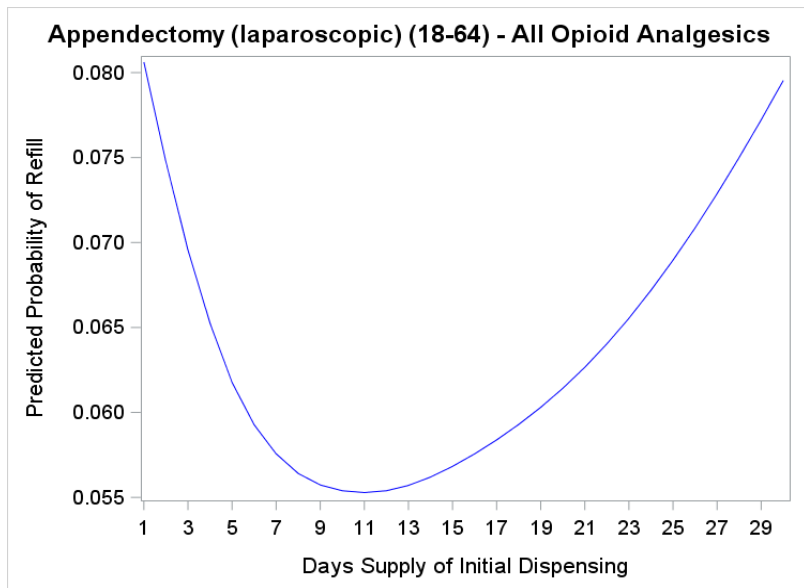


Figure 2. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

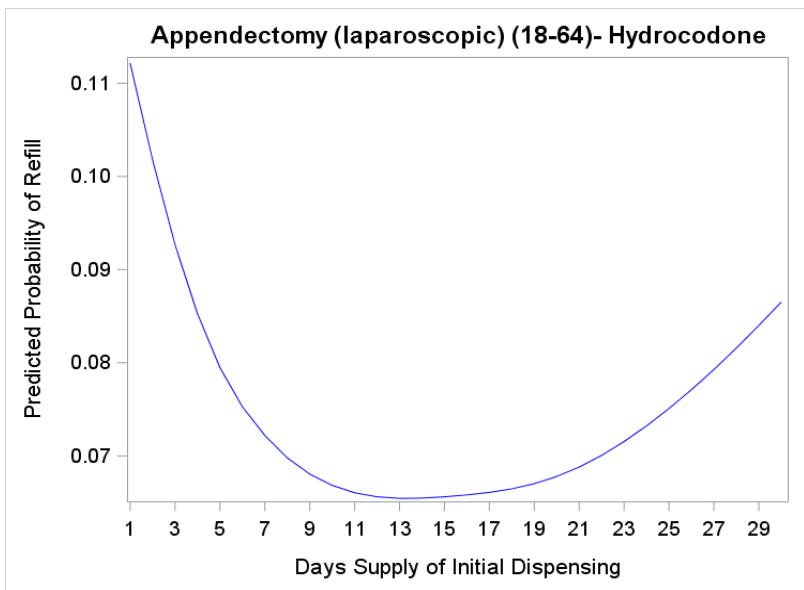
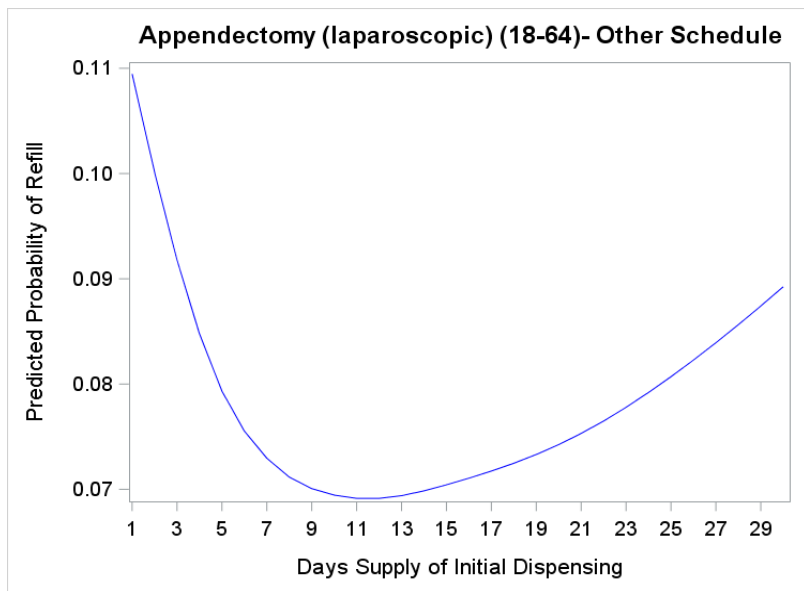


Figure 2. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

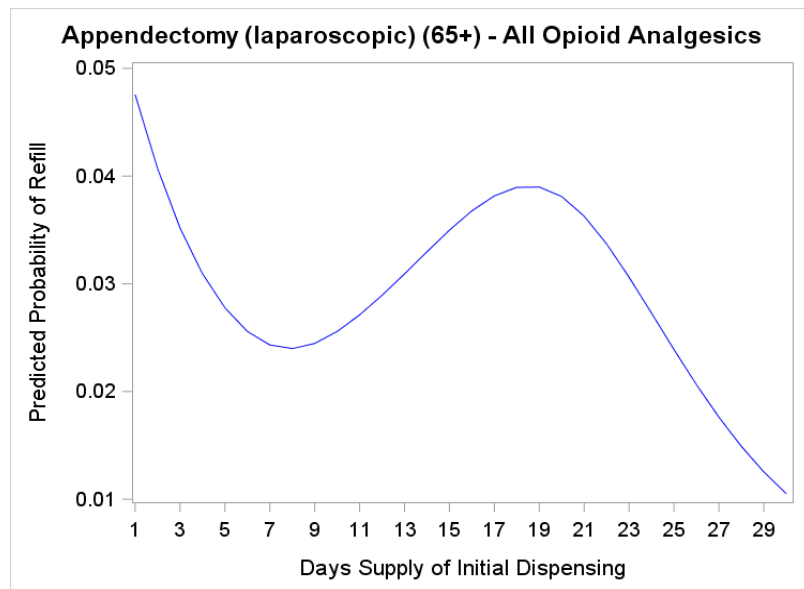
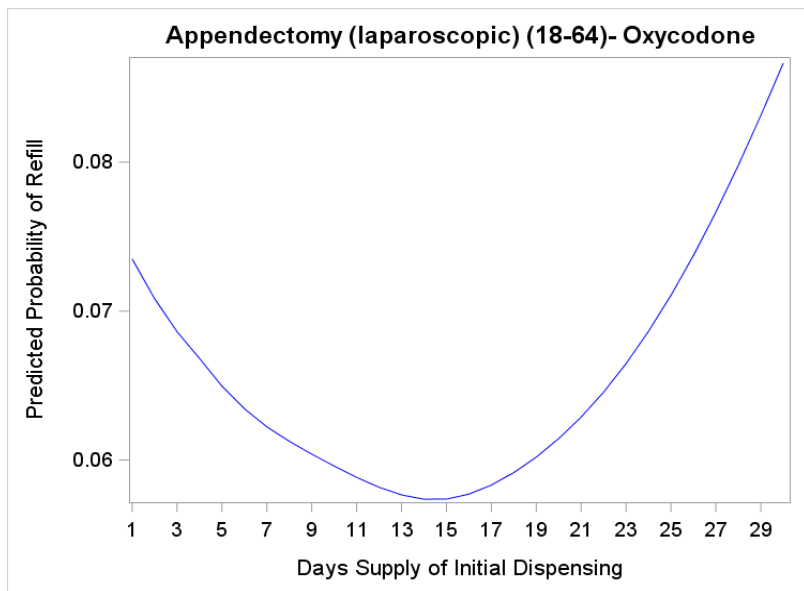


Figure 2. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

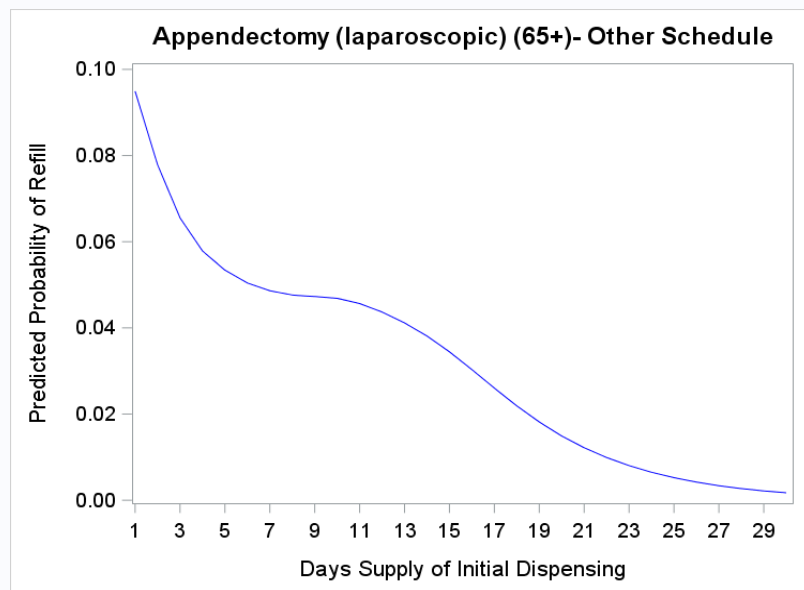
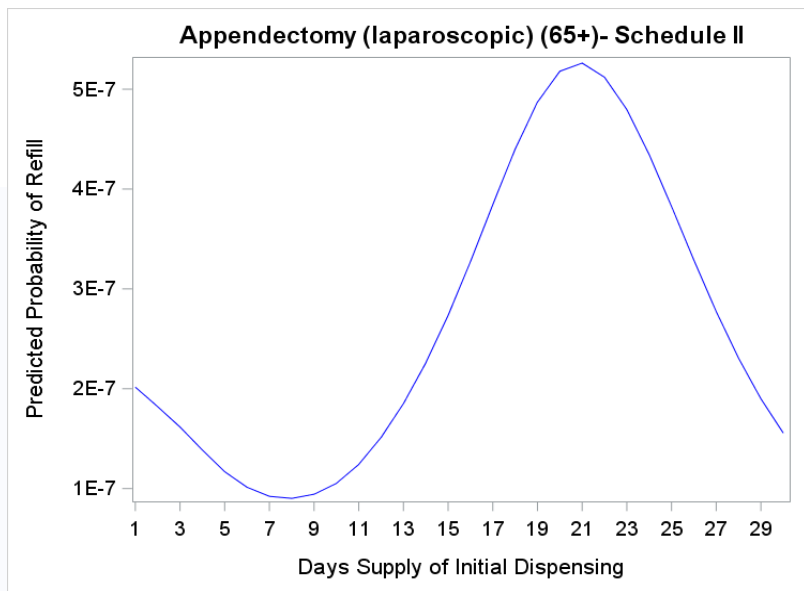


Figure 2. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

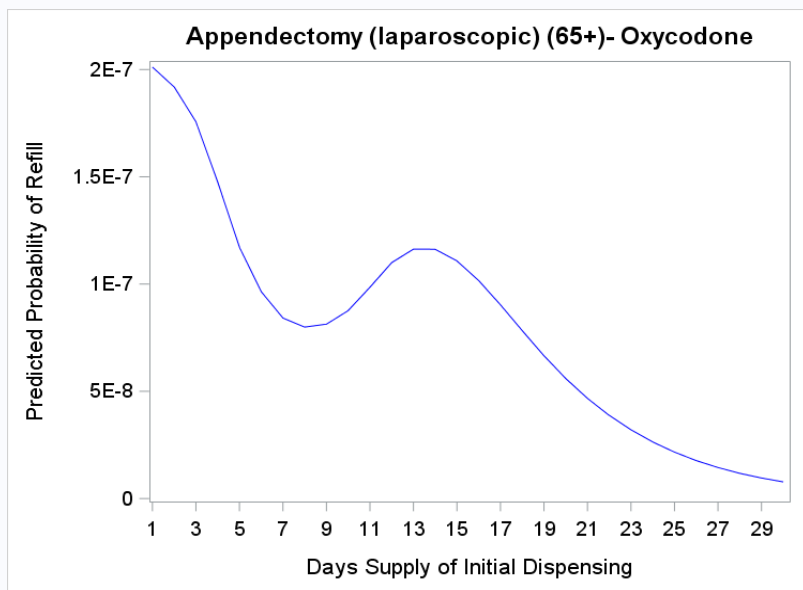
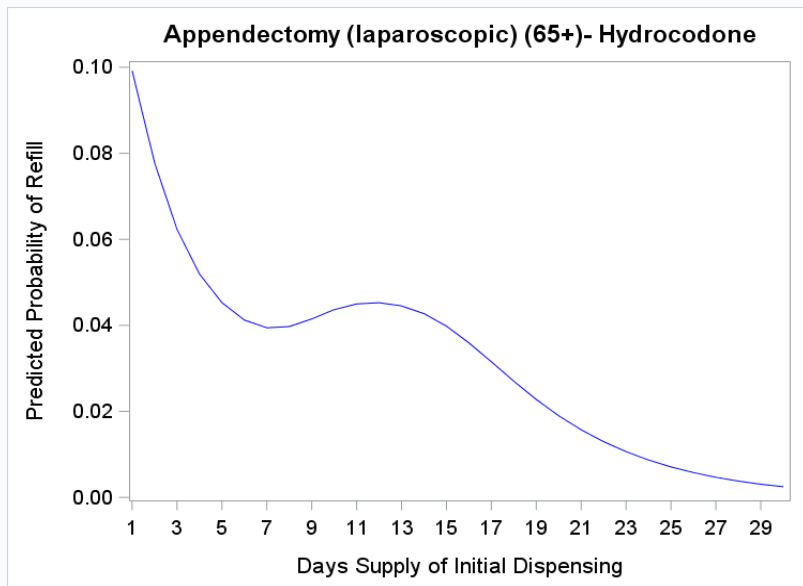


Figure 3. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

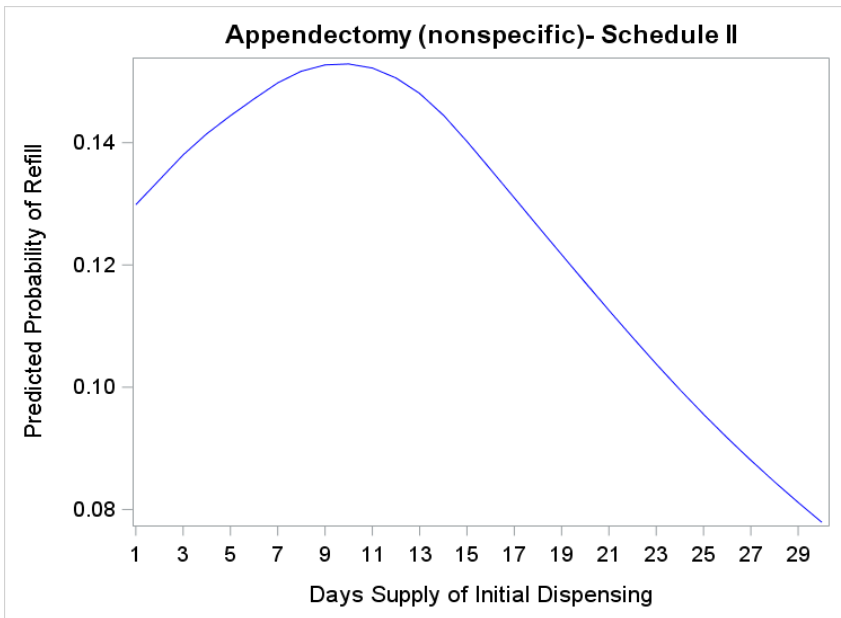
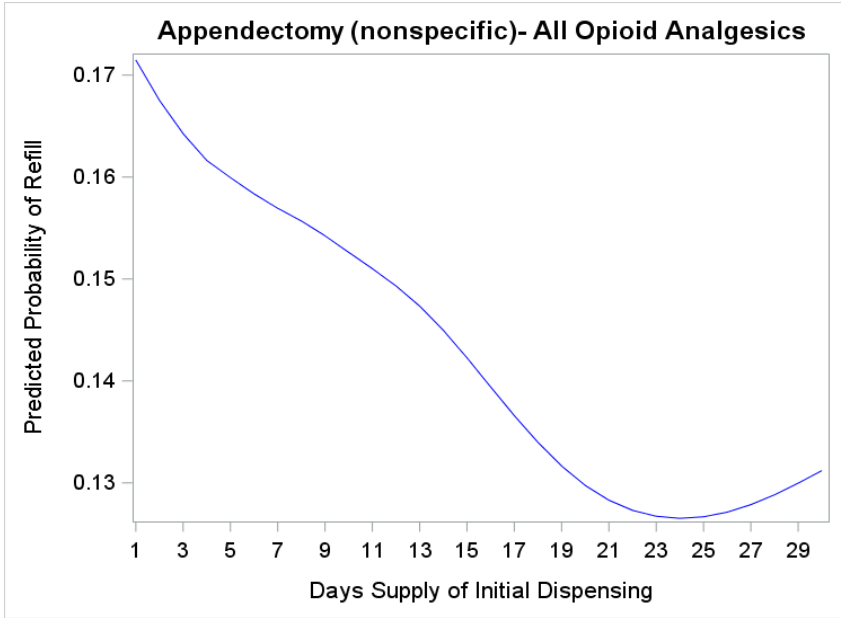


Figure 3. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

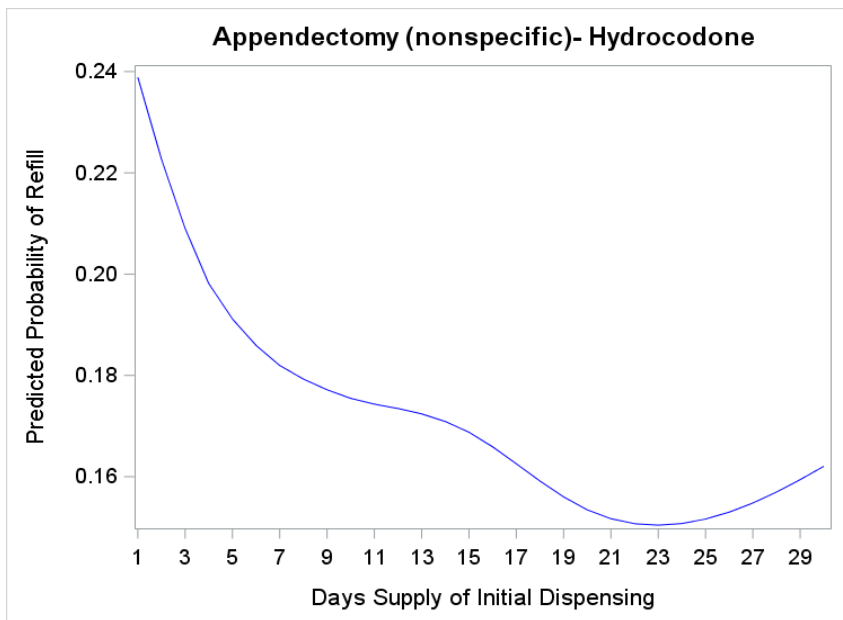
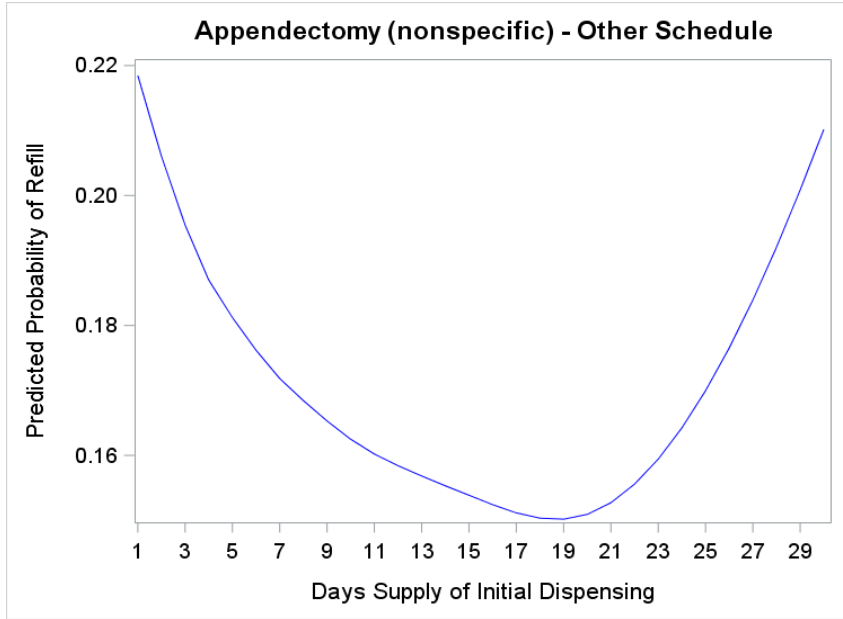


Figure 3. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

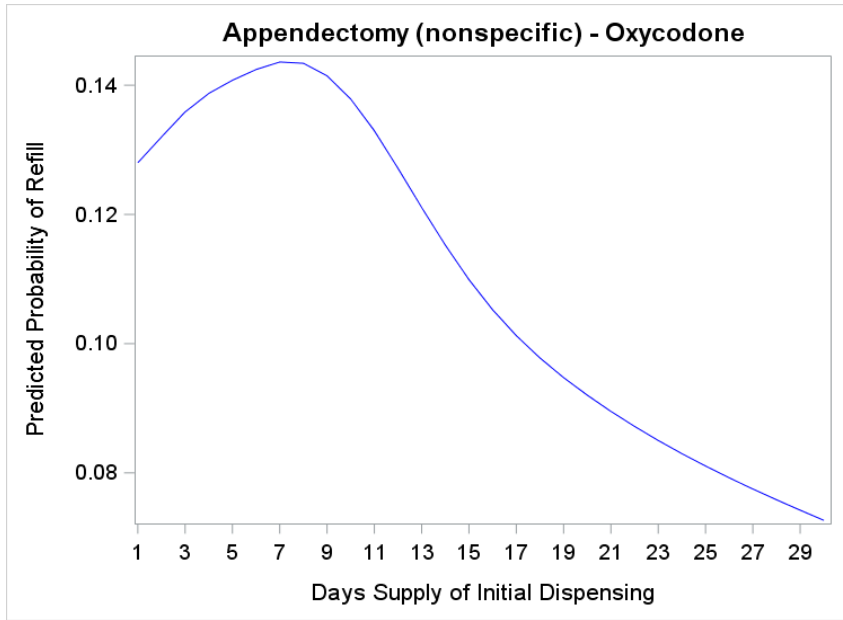


Figure 4. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

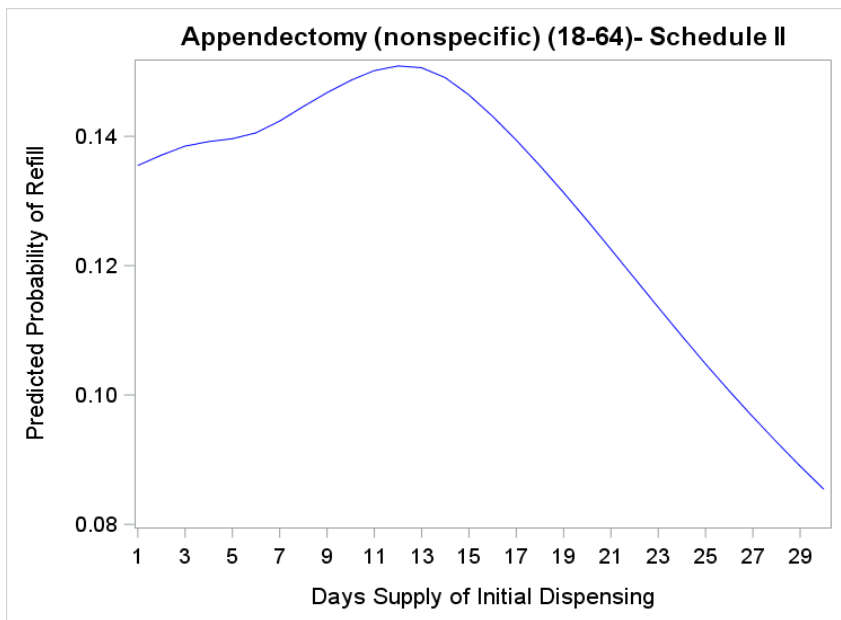
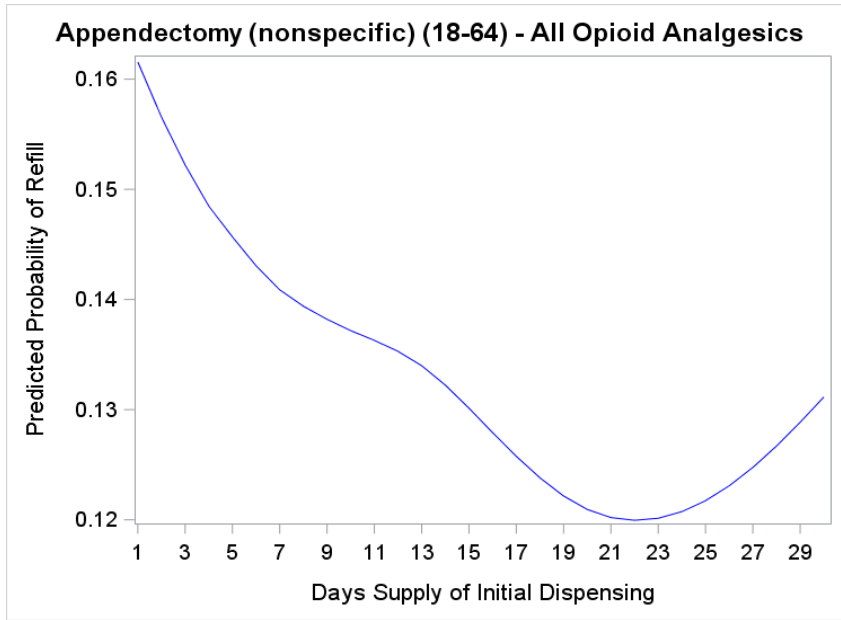


Figure 4. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

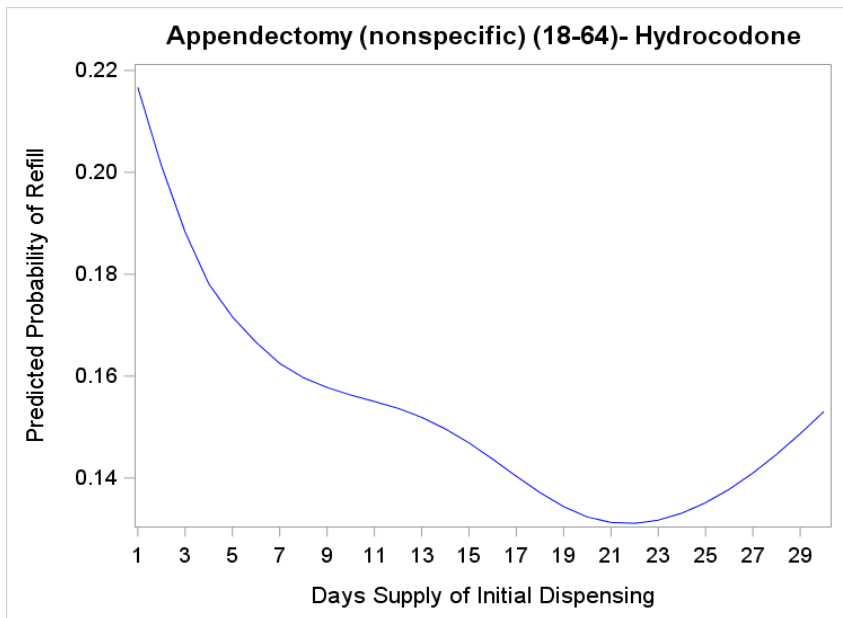
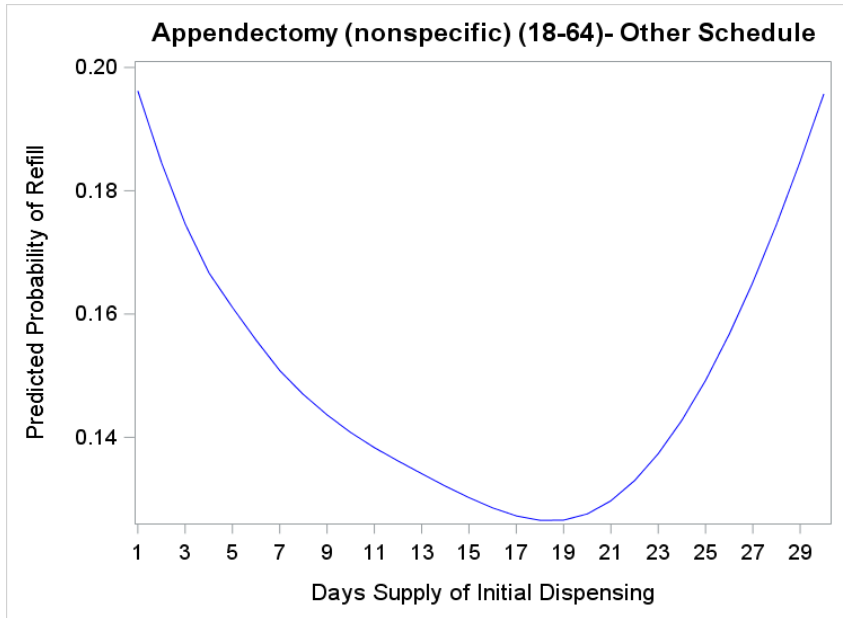


Figure 4. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

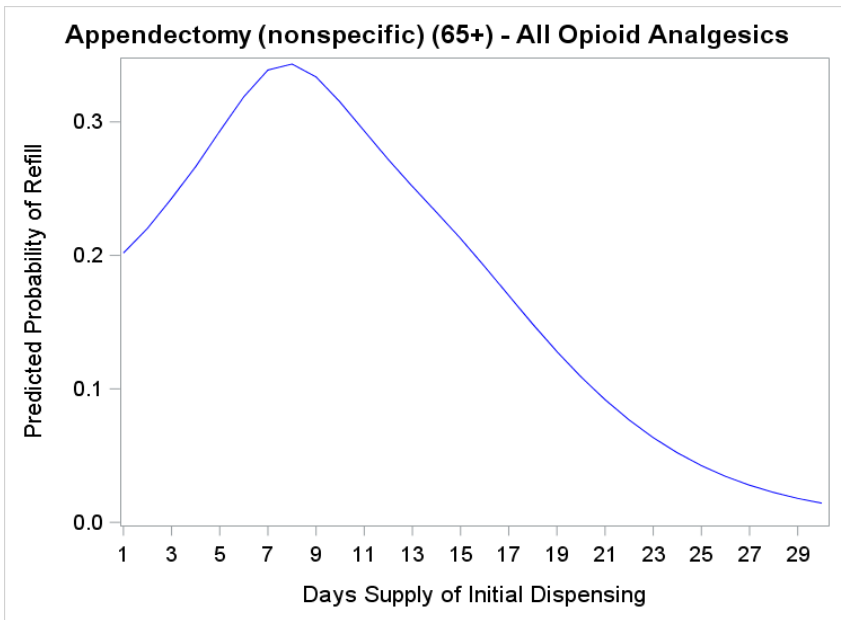
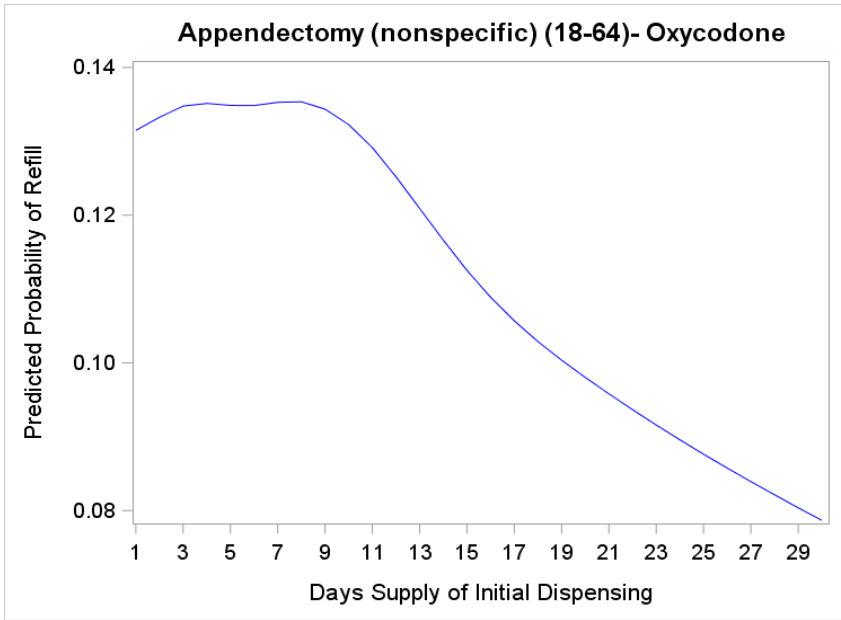


Figure 4. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

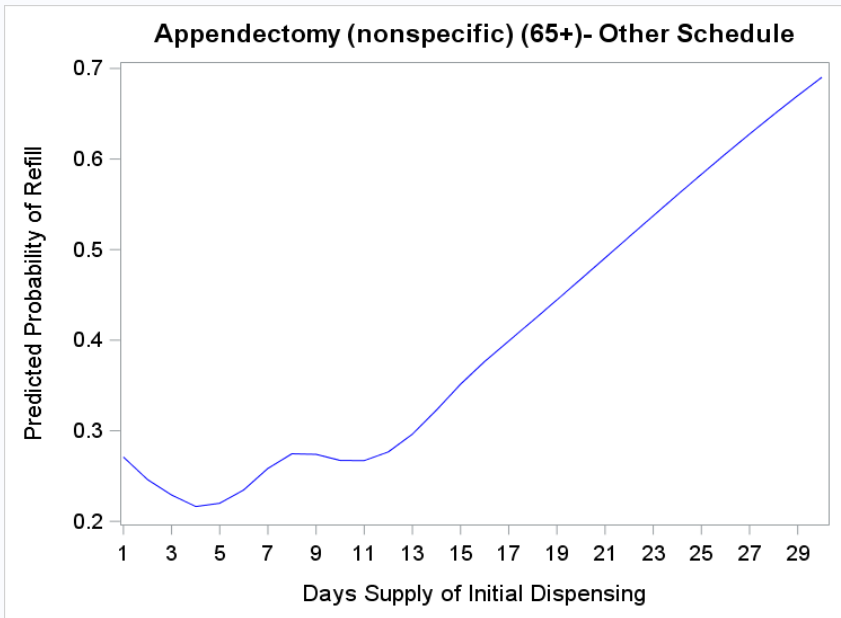
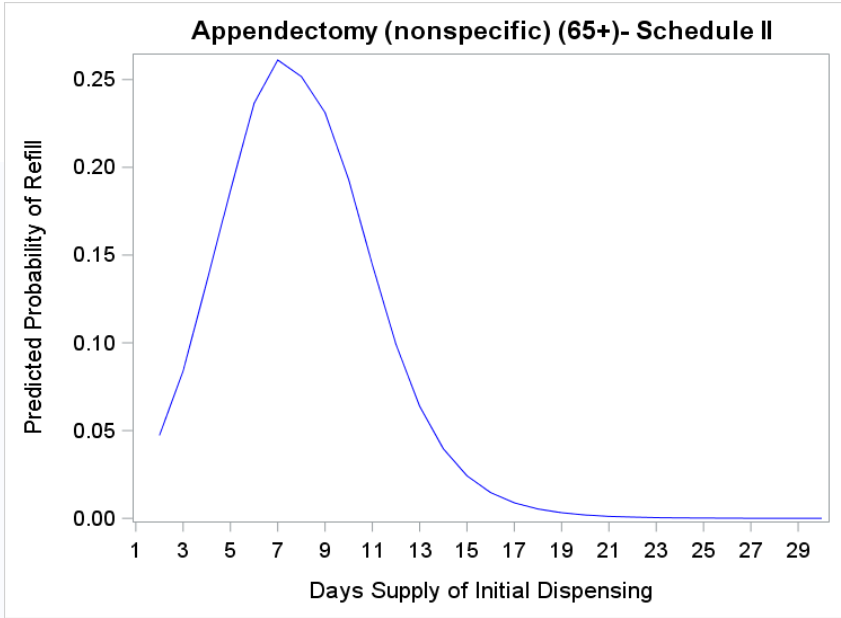


Figure 4. Graph of Refill Probability by Days Supply of Initial Dispensing for Nonspecific Appendectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

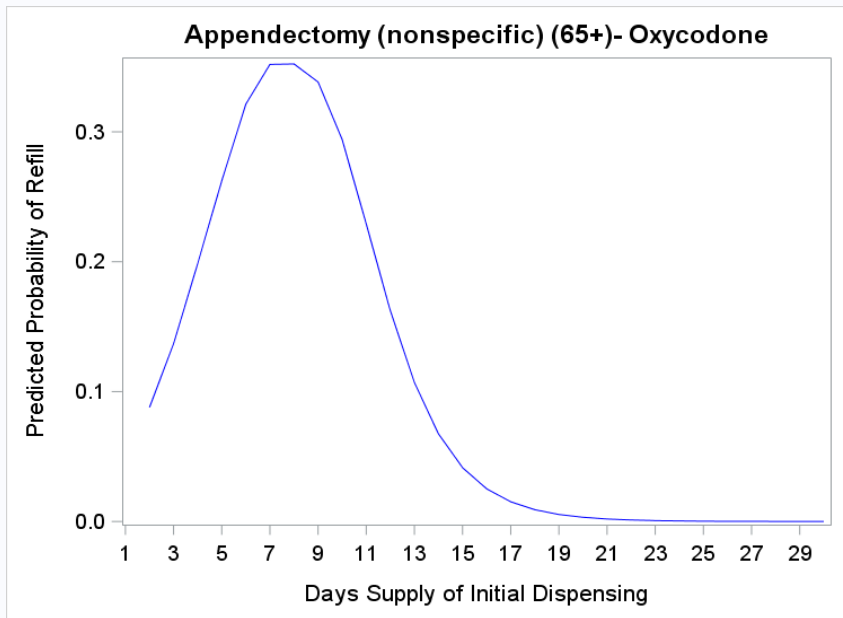
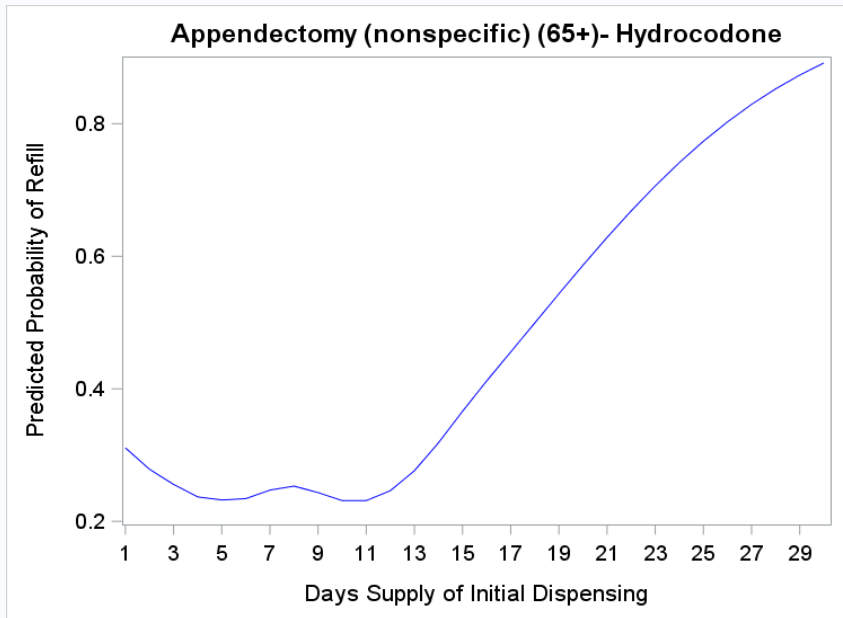


Figure 5. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

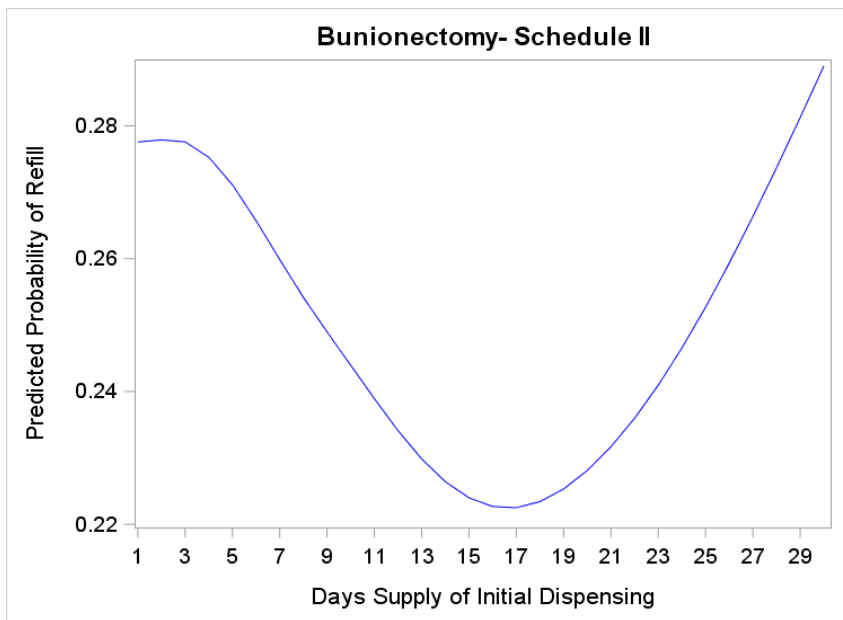
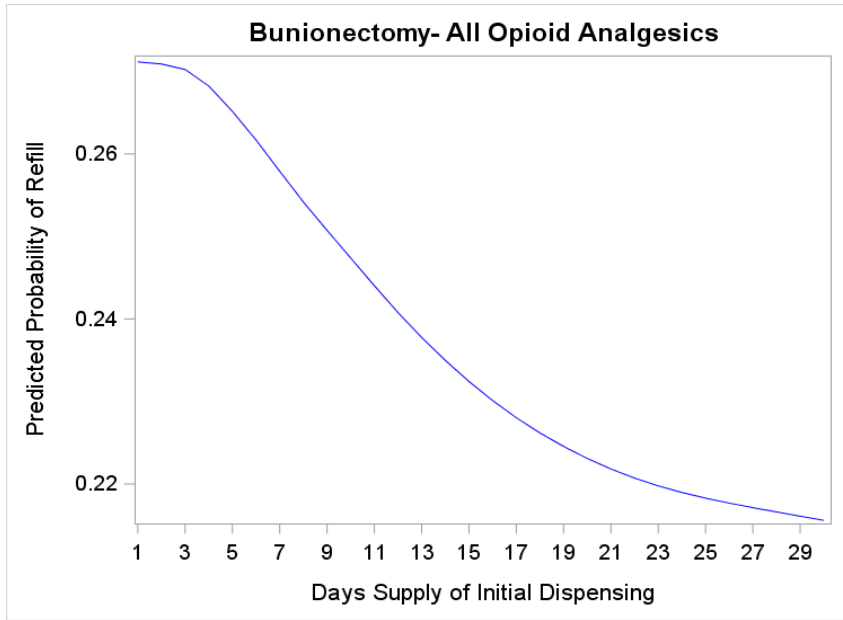


Figure 5. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

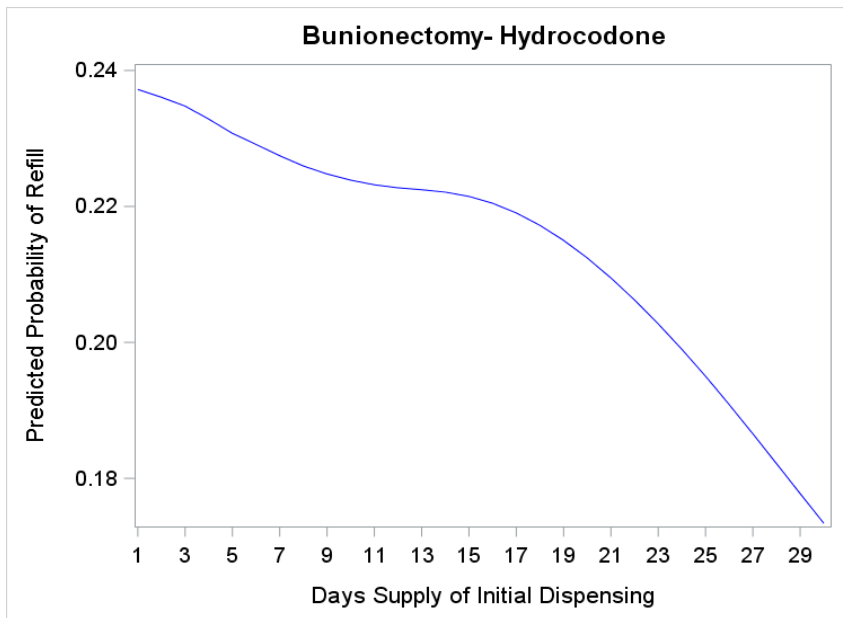
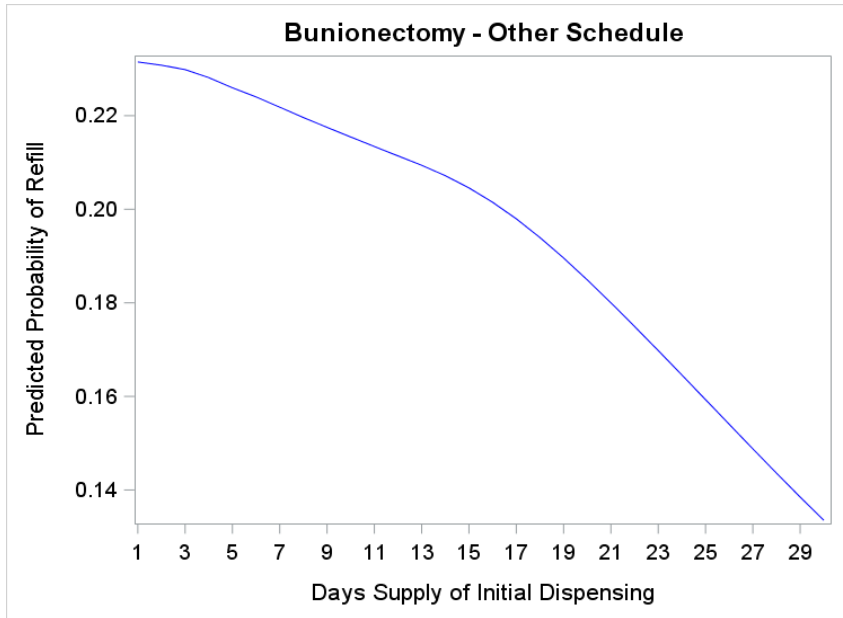


Figure 5. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

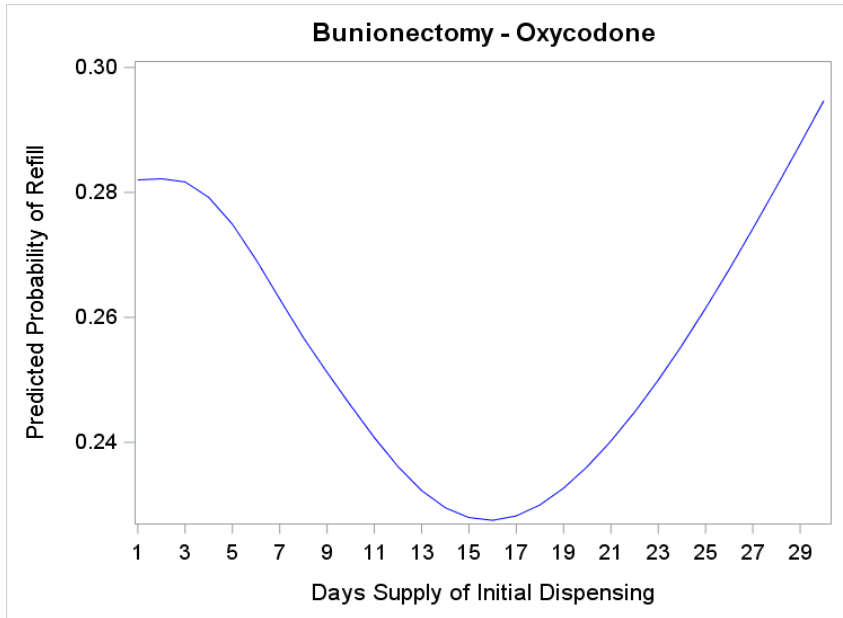


Figure 6. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

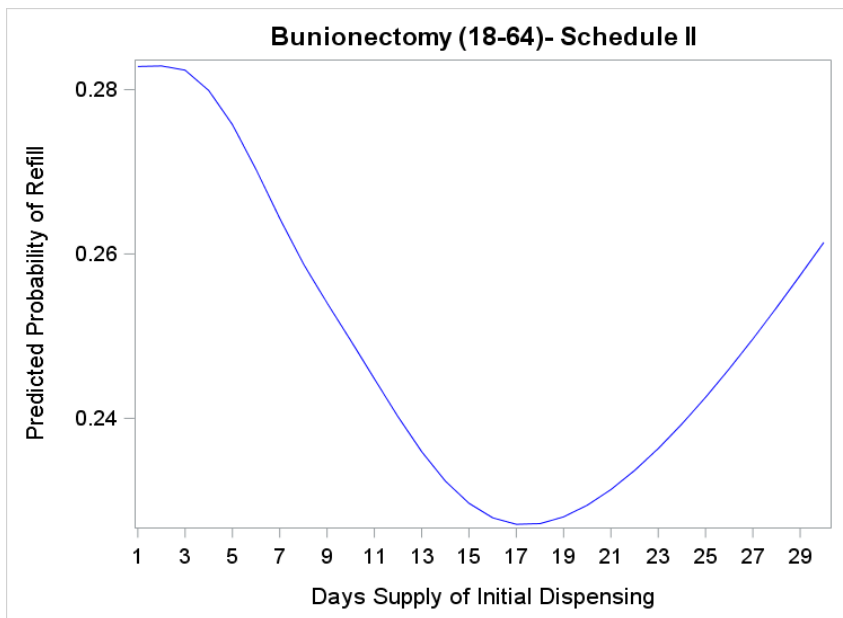
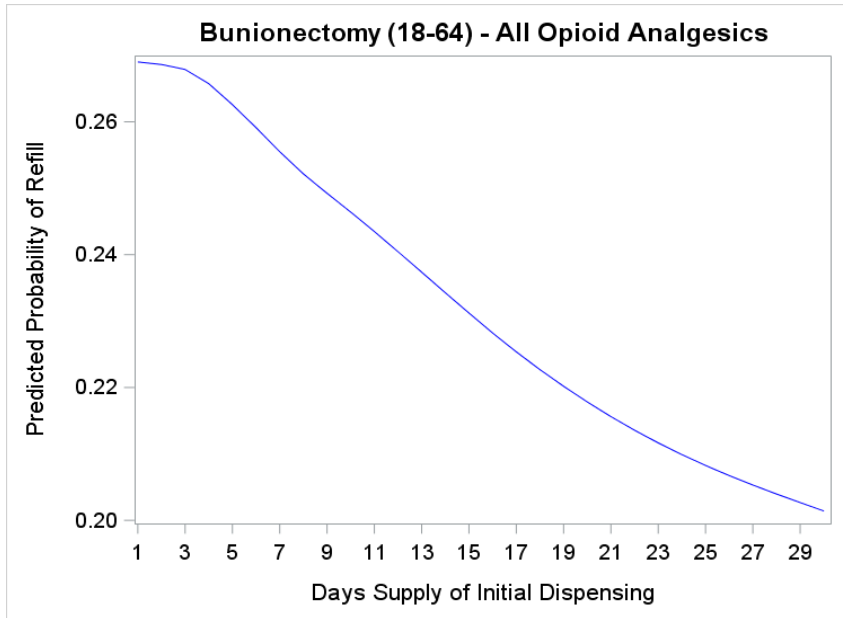


Figure 6. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

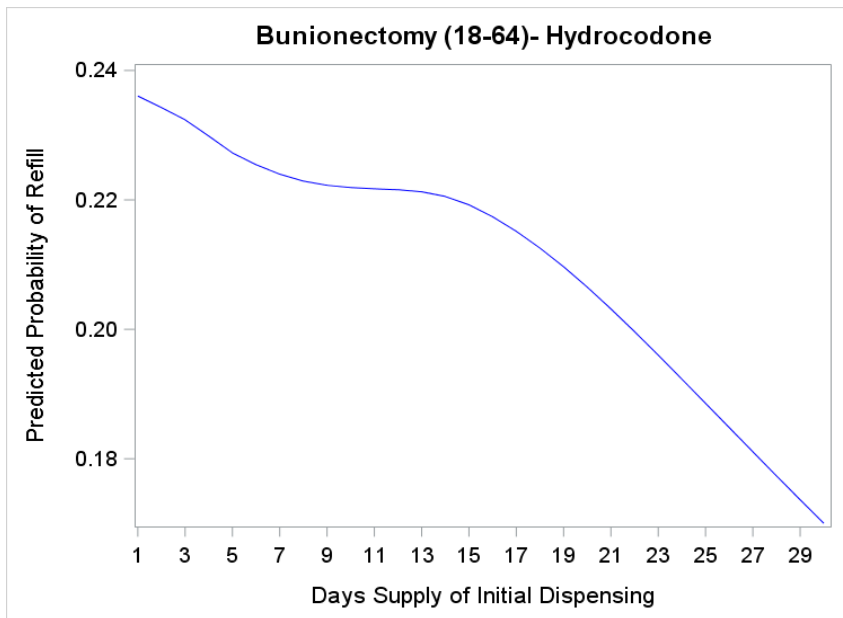
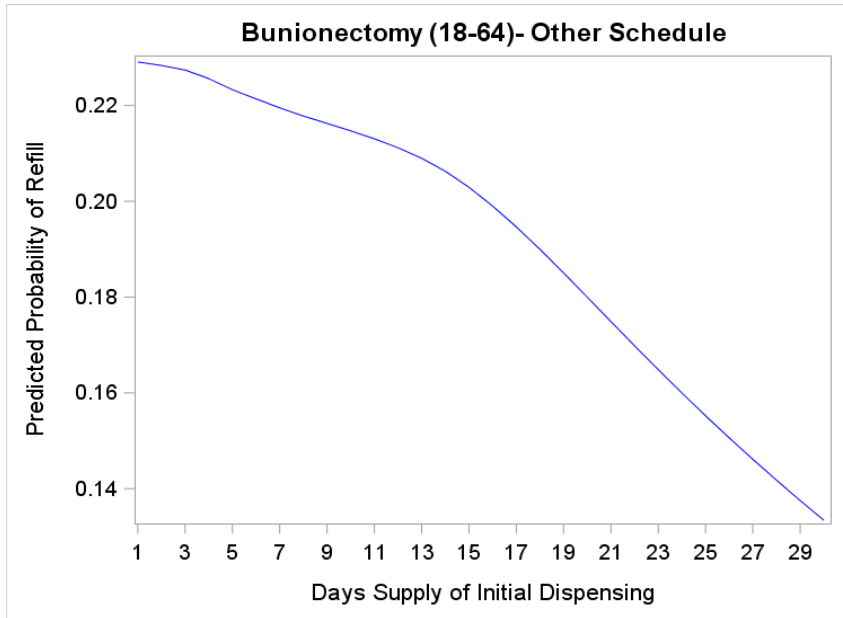


Figure 6. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

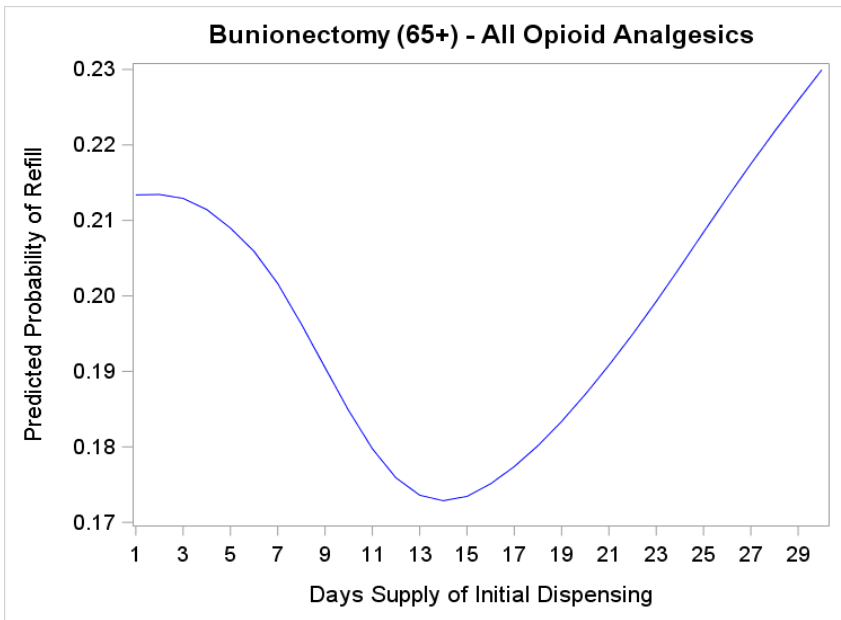
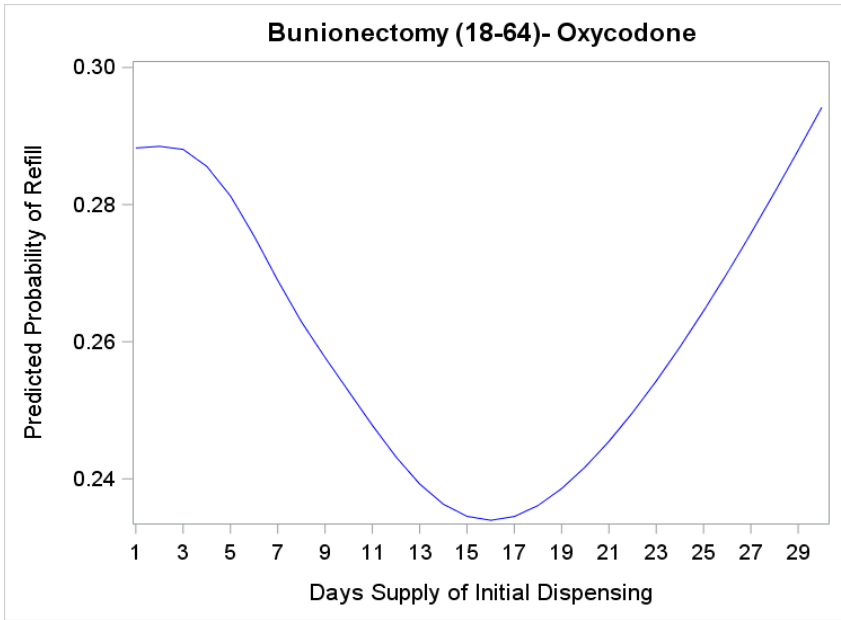


Figure 6. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

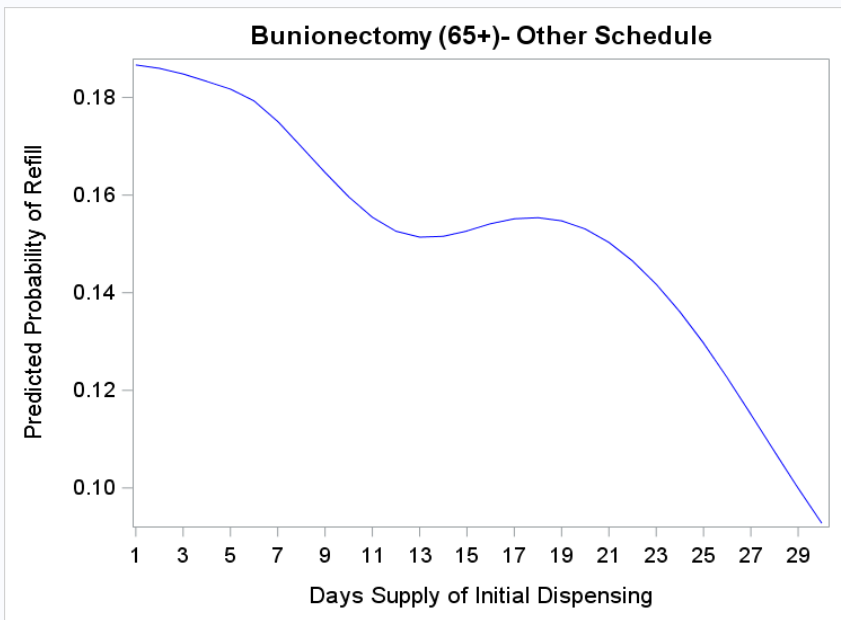
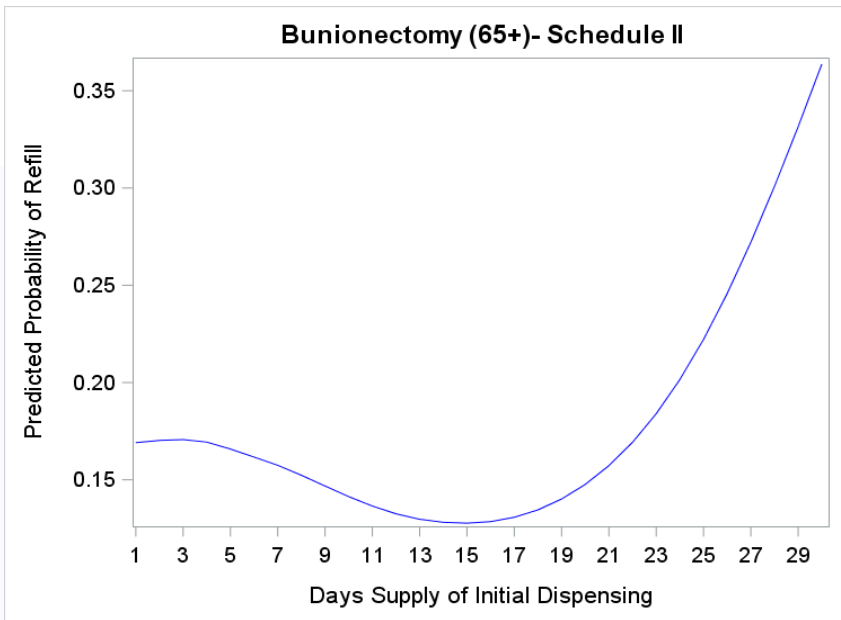


Figure 6. Graph of Refill Probability by Days Supply of Initial Dispensing for Bunionectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

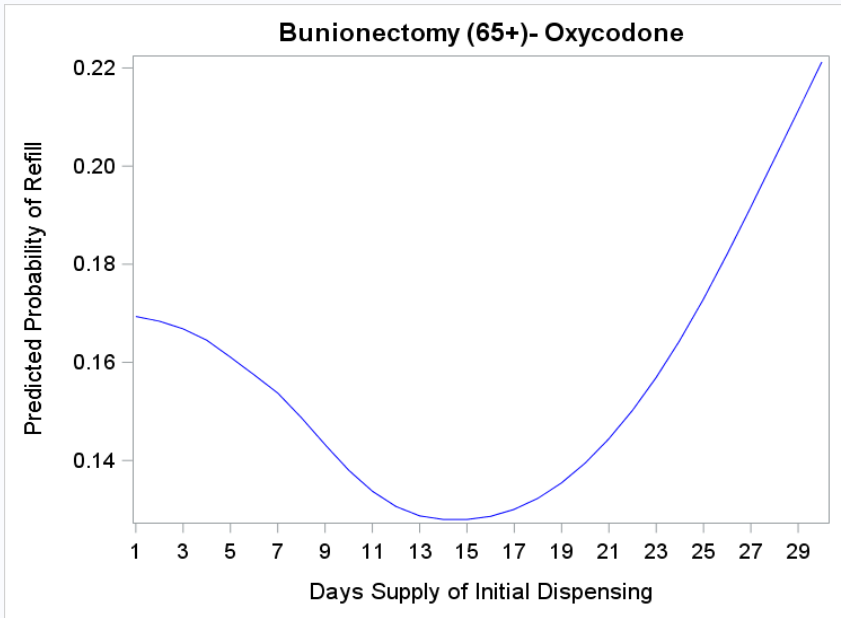
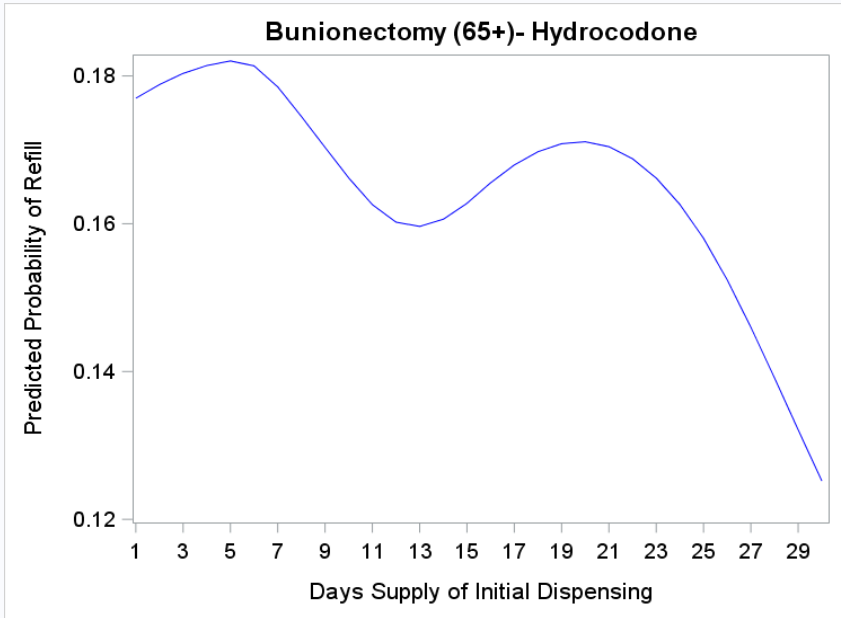


Figure 7. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

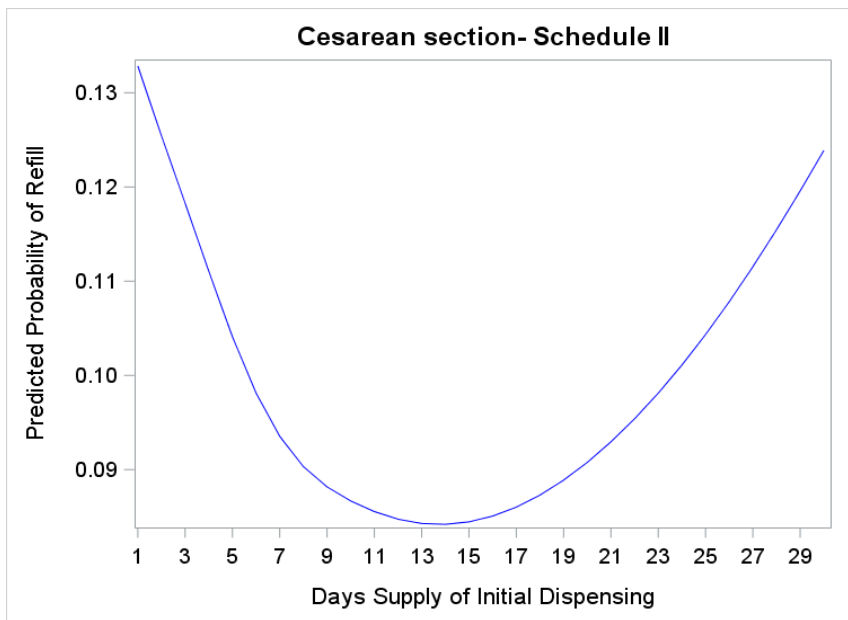
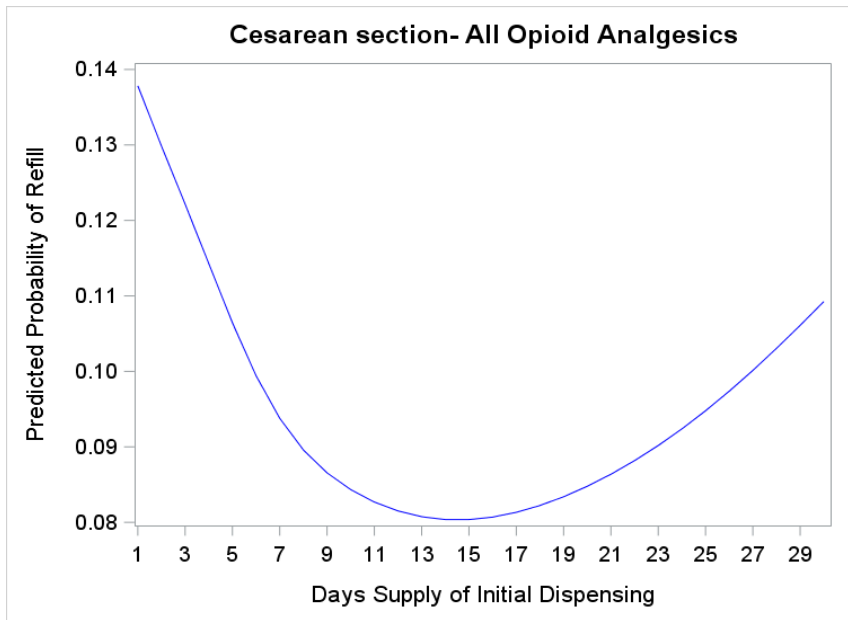


Figure 7. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

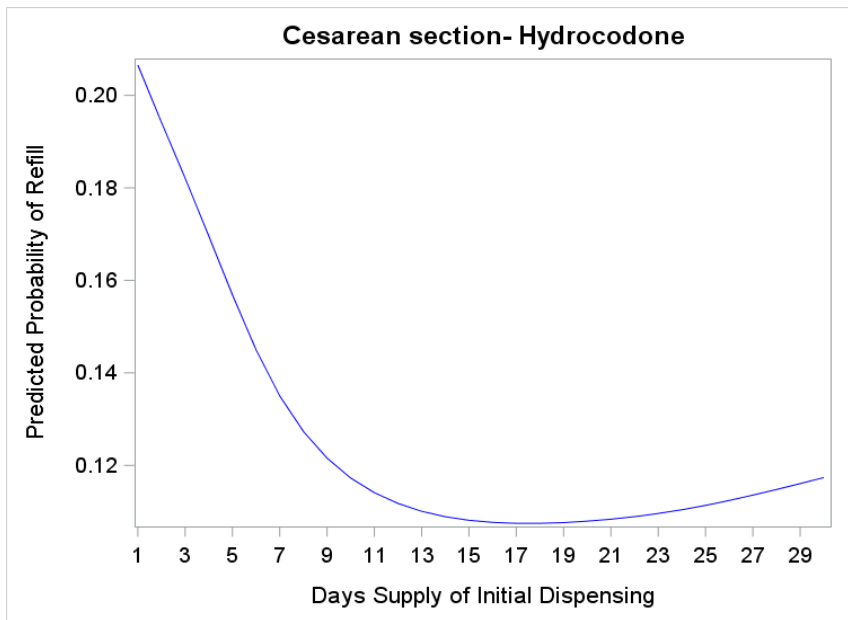
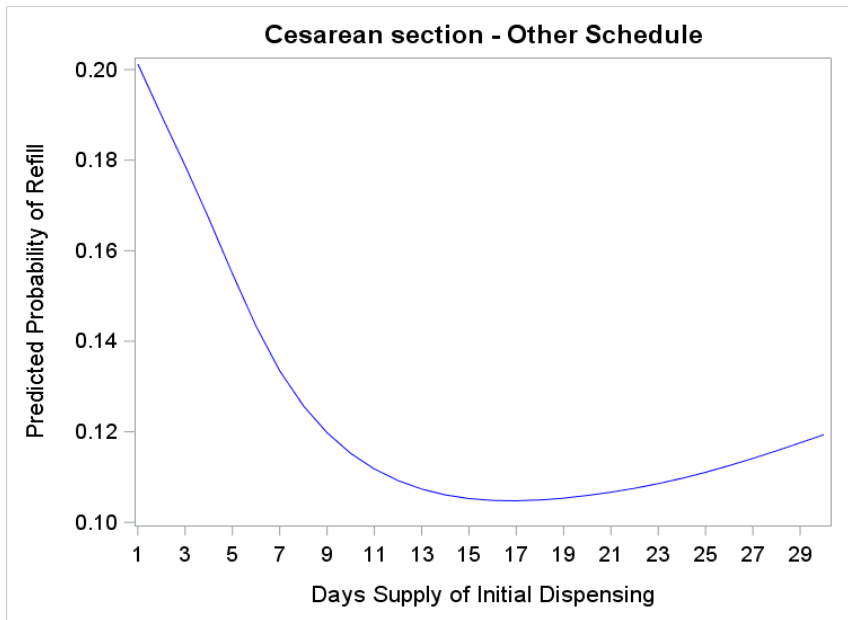


Figure 7. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

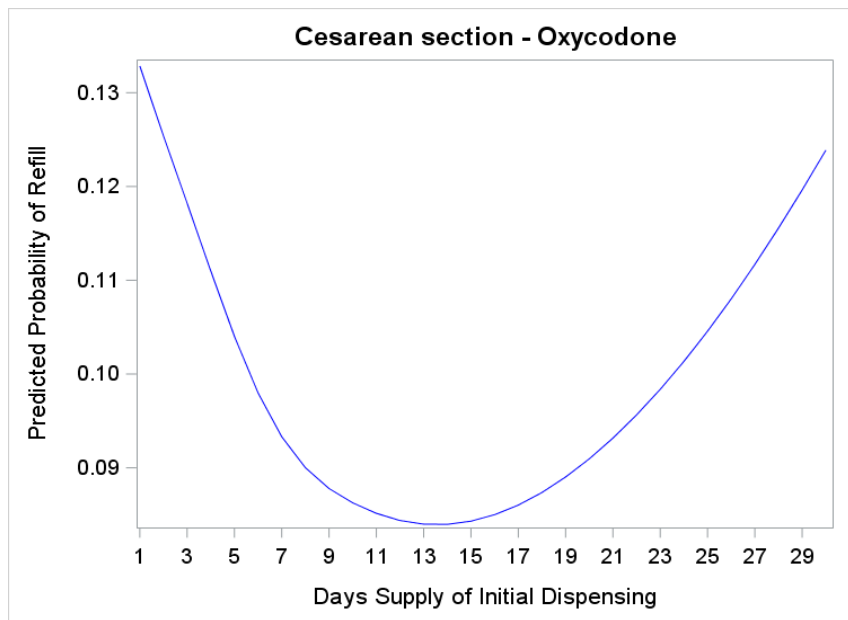


Figure 8. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

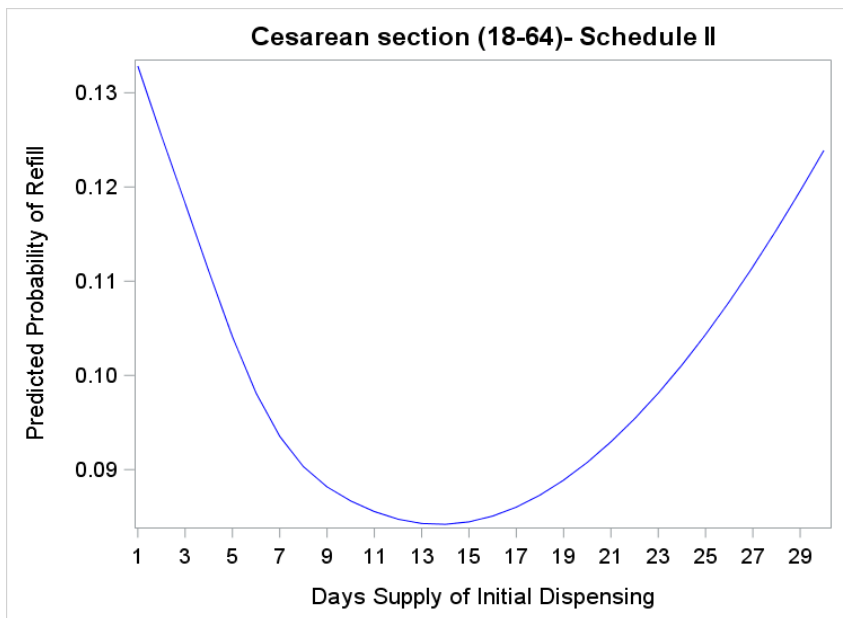
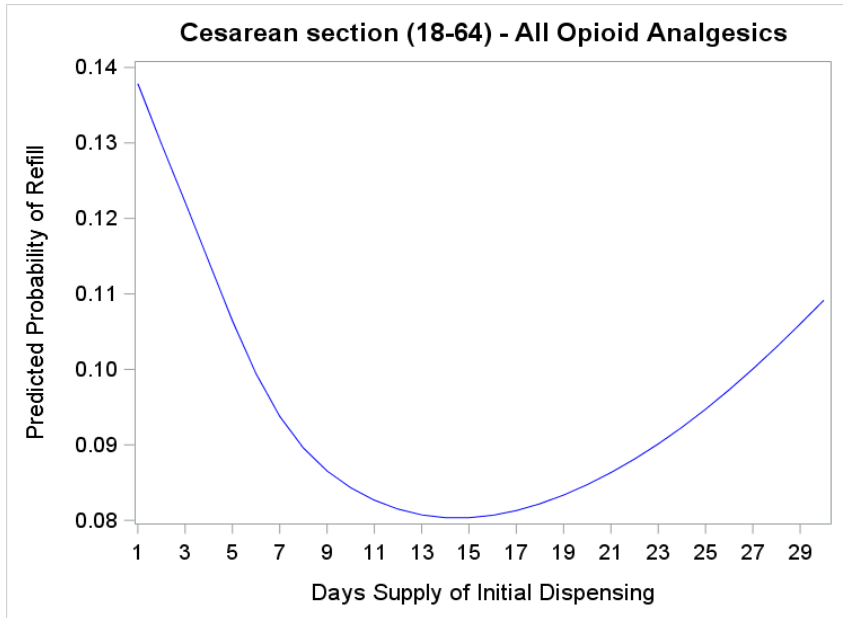


Figure 8. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

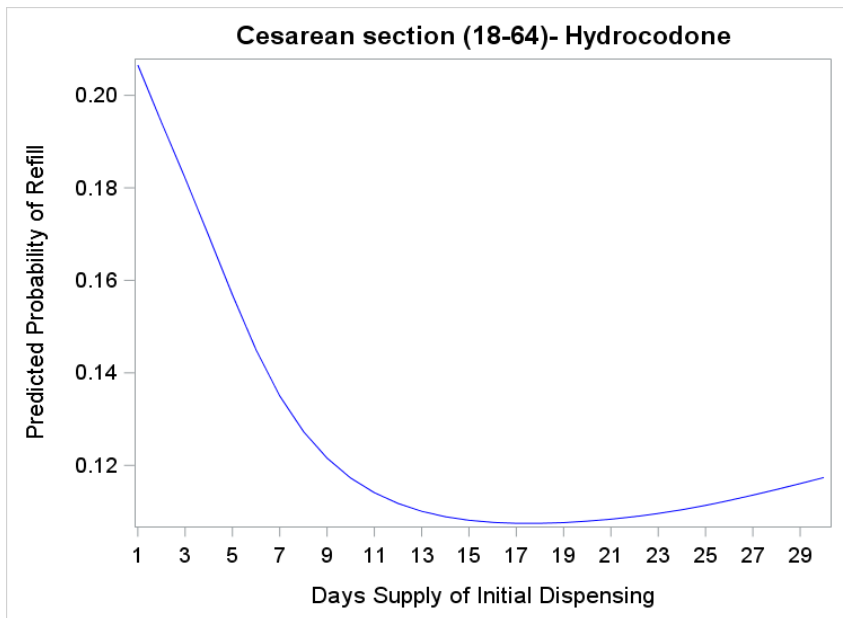
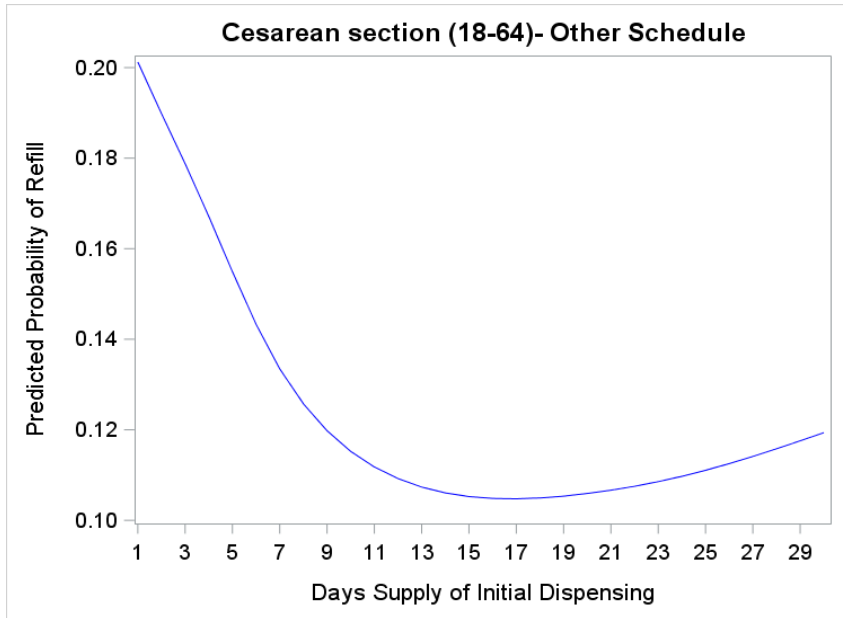


Figure 8. Graph of Refill Probability by Days Supply of Initial Dispensing for Cesarean Section in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

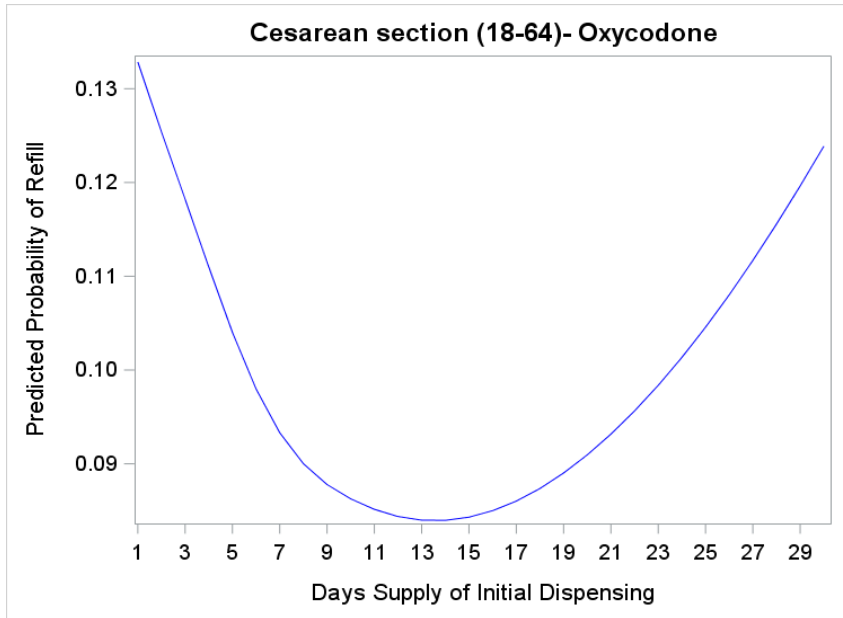


Figure 9. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

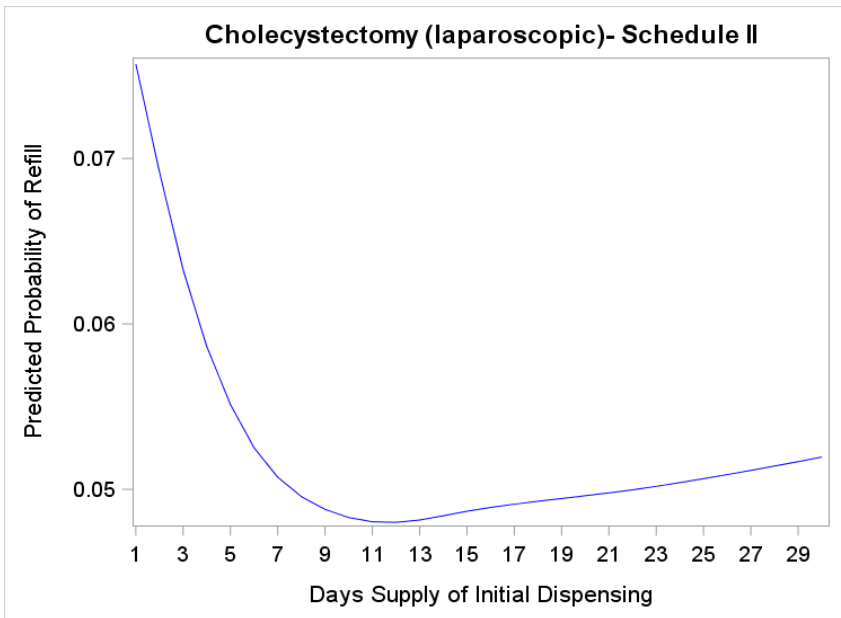
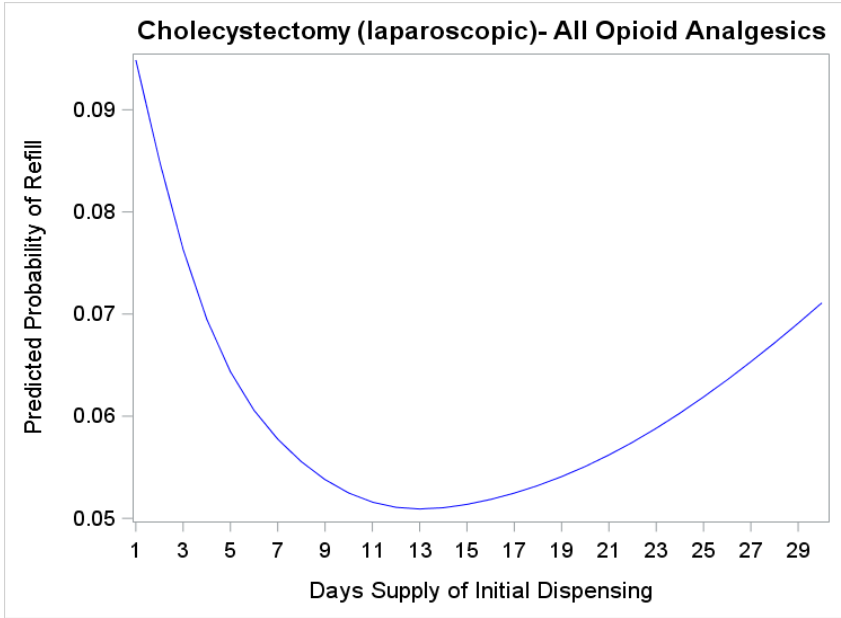


Figure 9. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

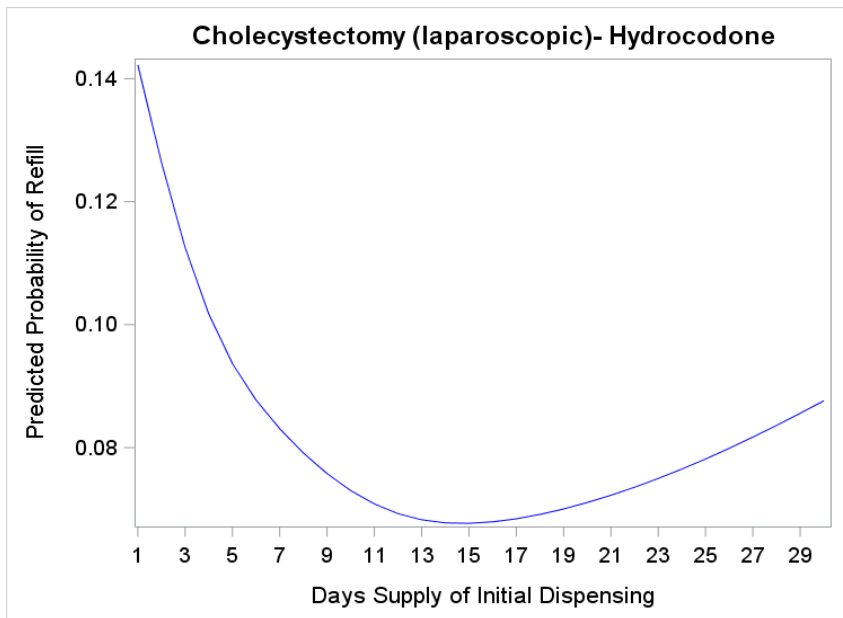
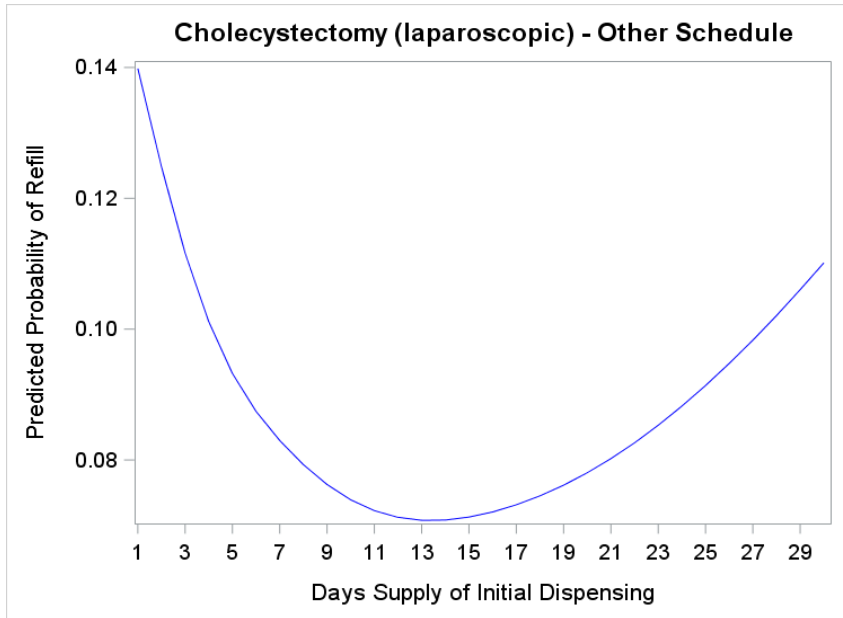


Figure 9. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

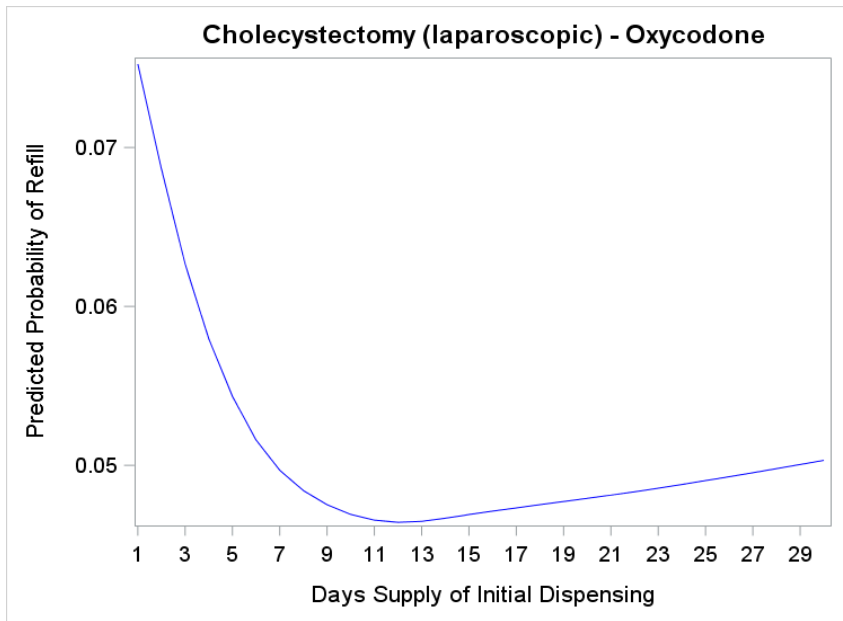


Figure 10. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

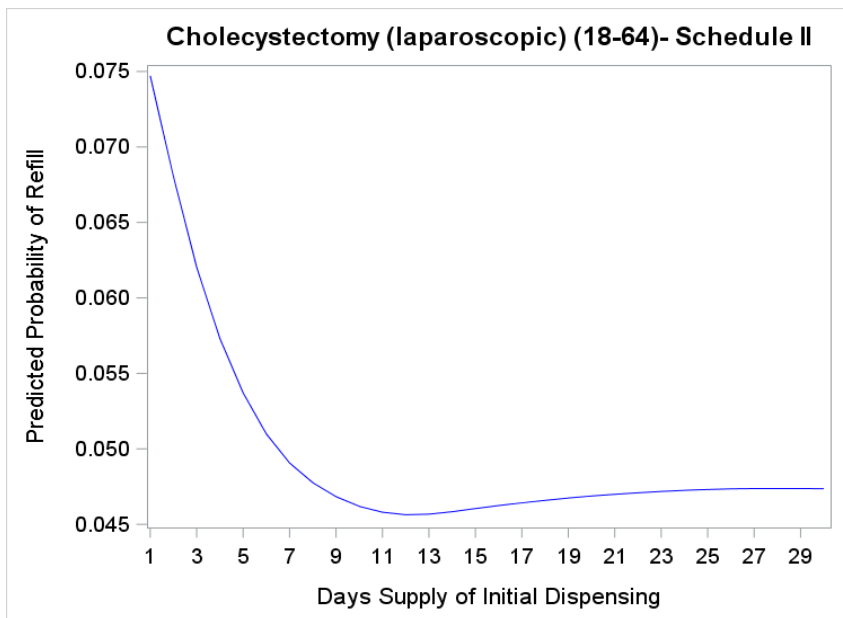
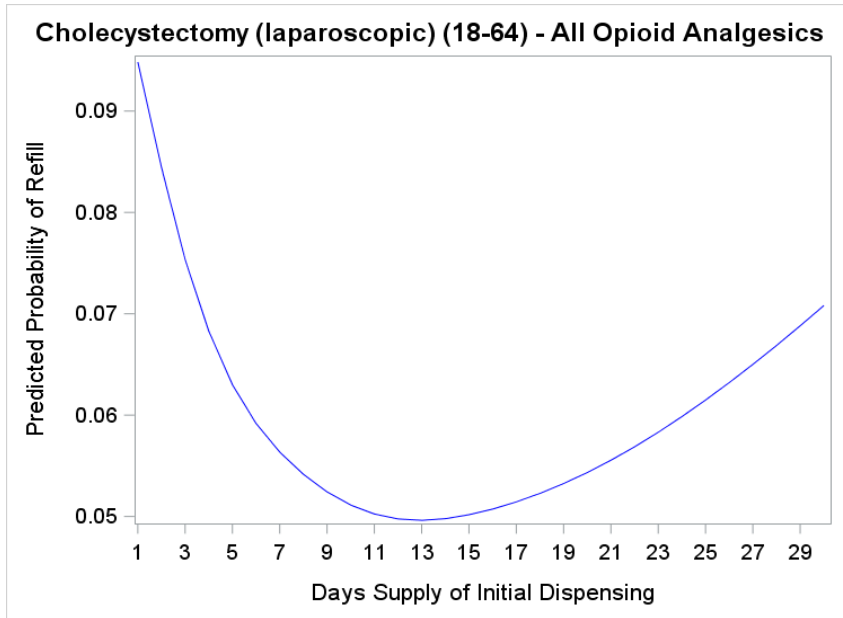


Figure 10. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

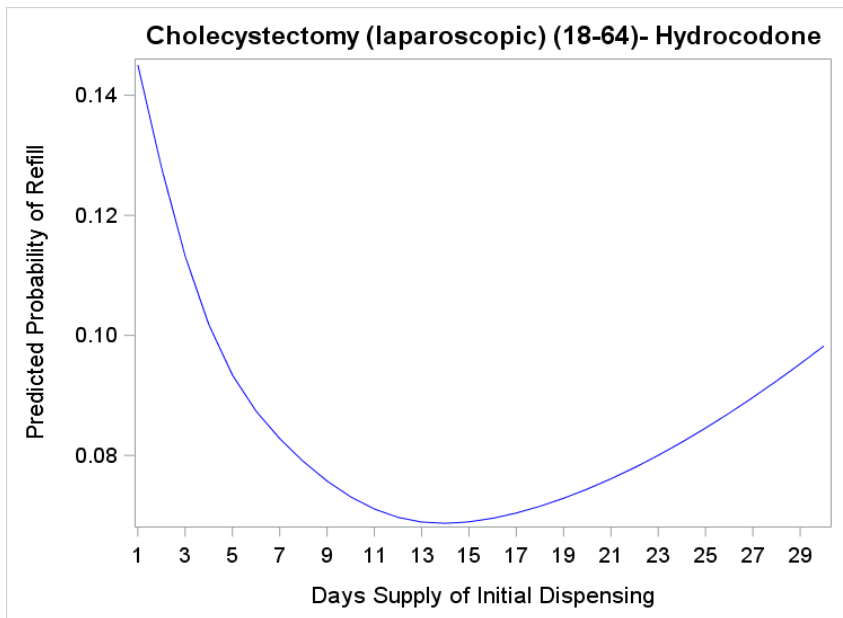
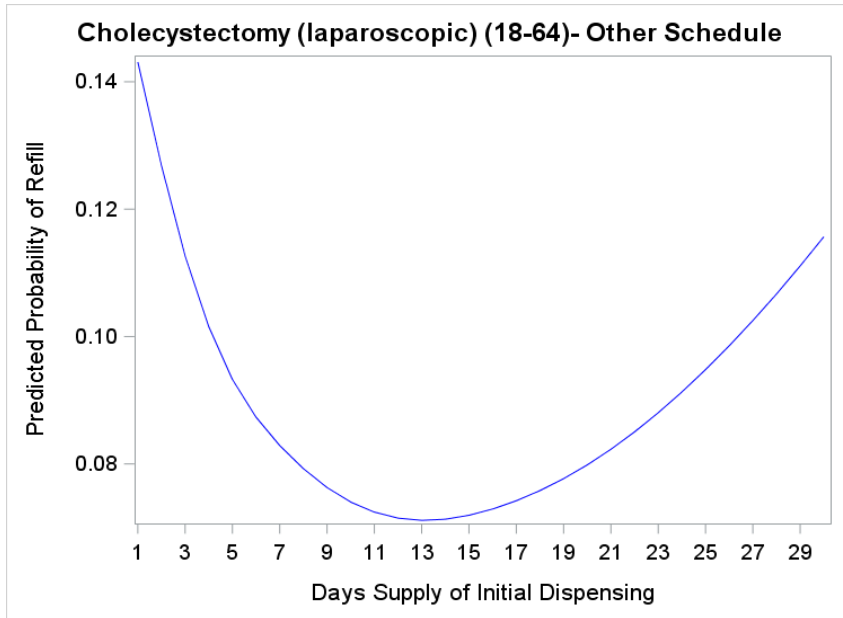


Figure 10. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

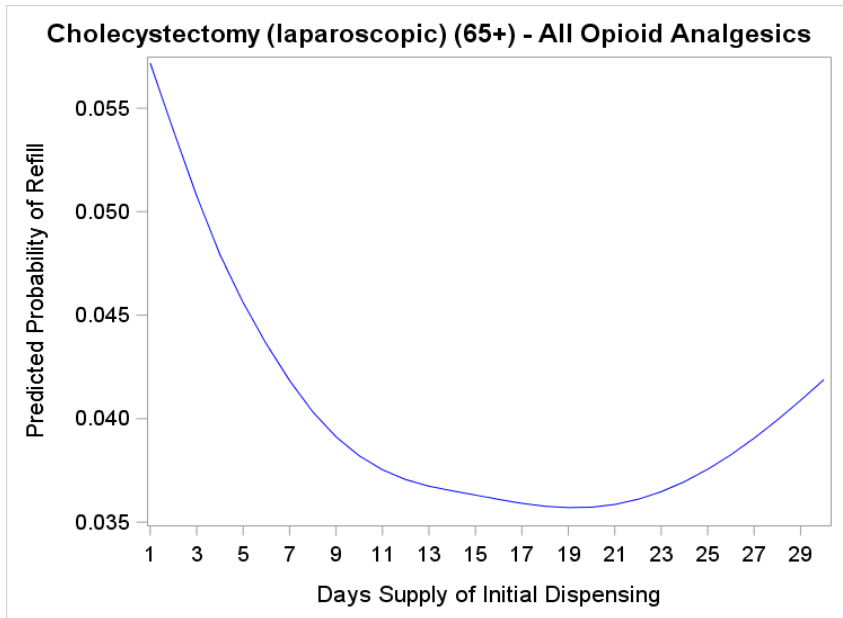
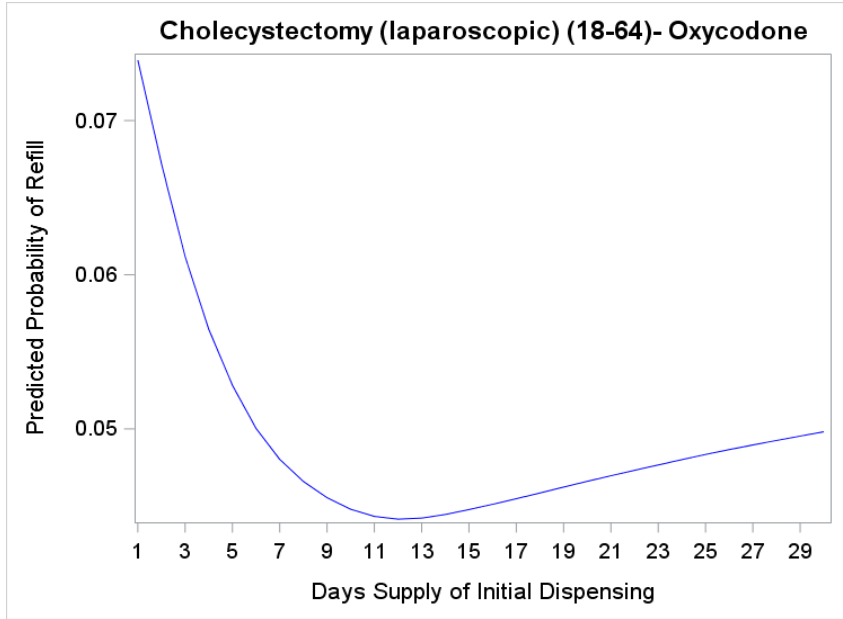


Figure 10. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

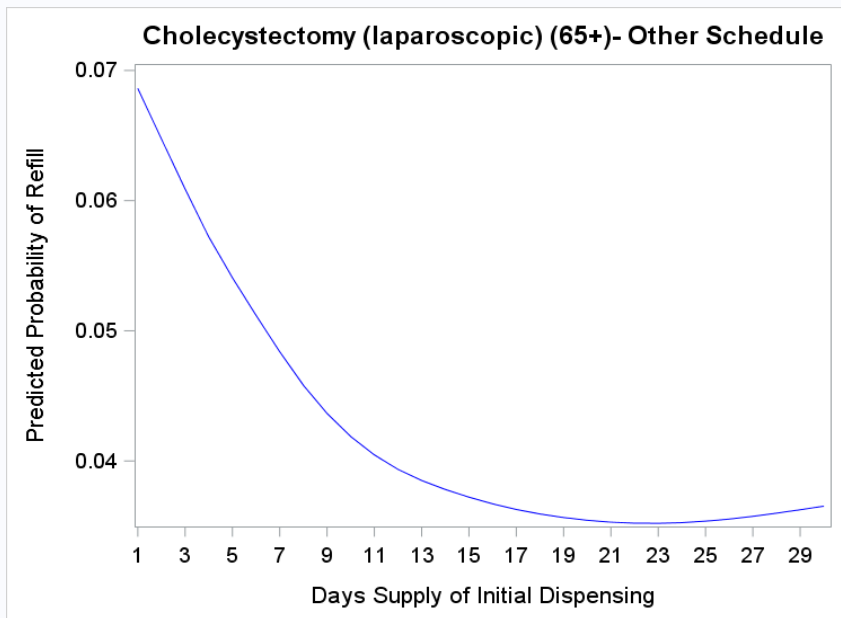
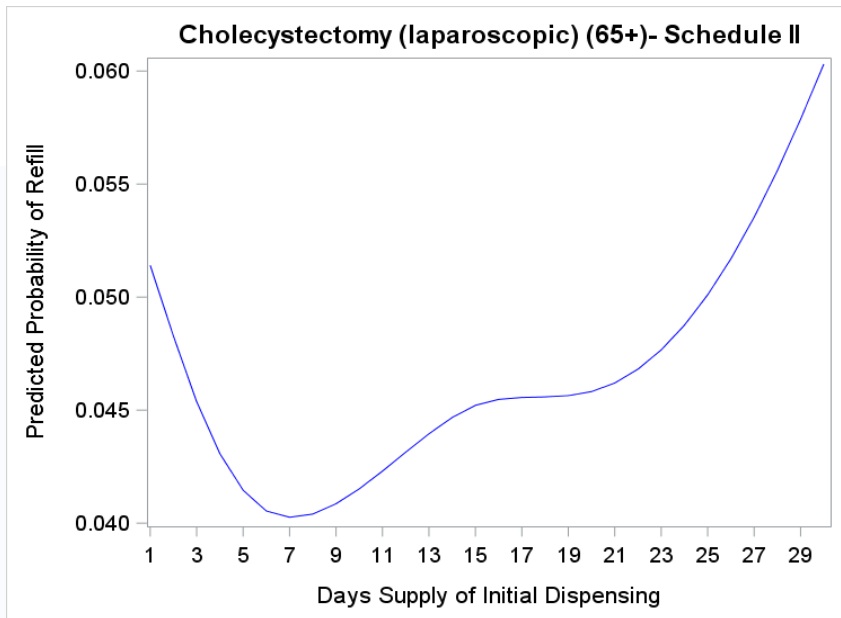


Figure 10. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

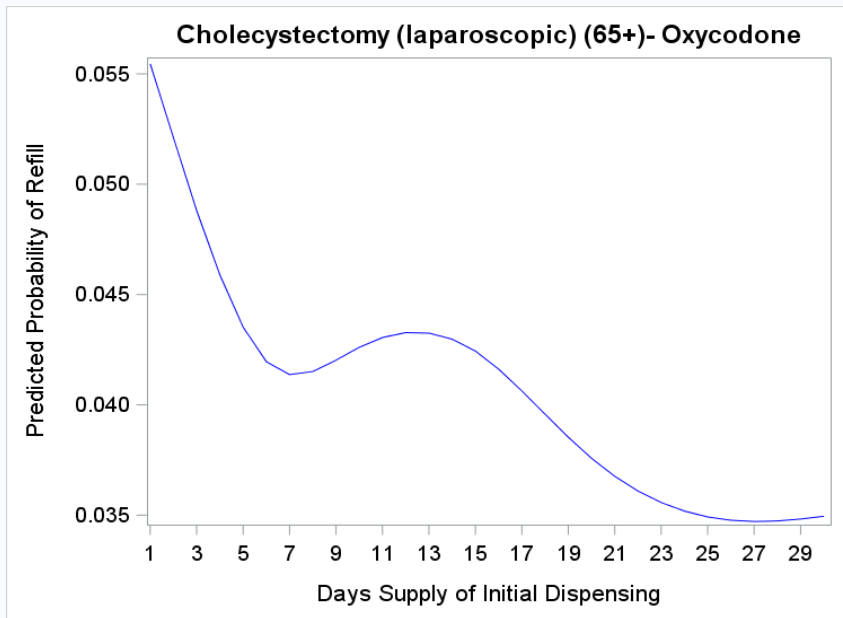
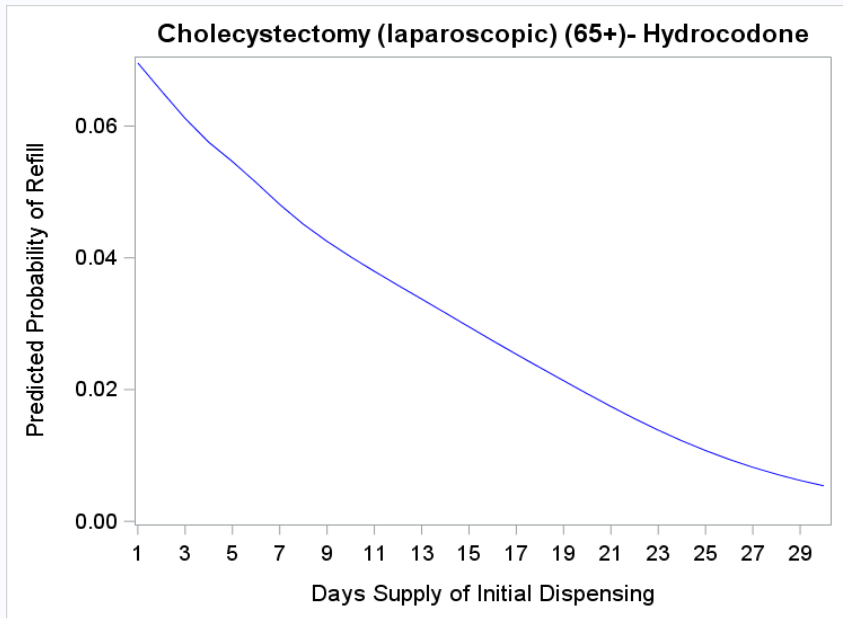


Figure 11. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

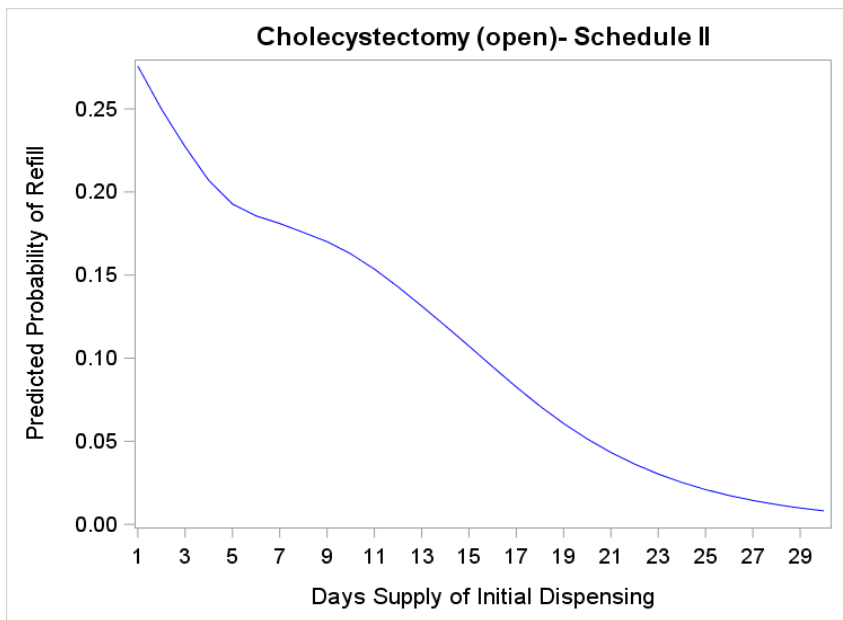
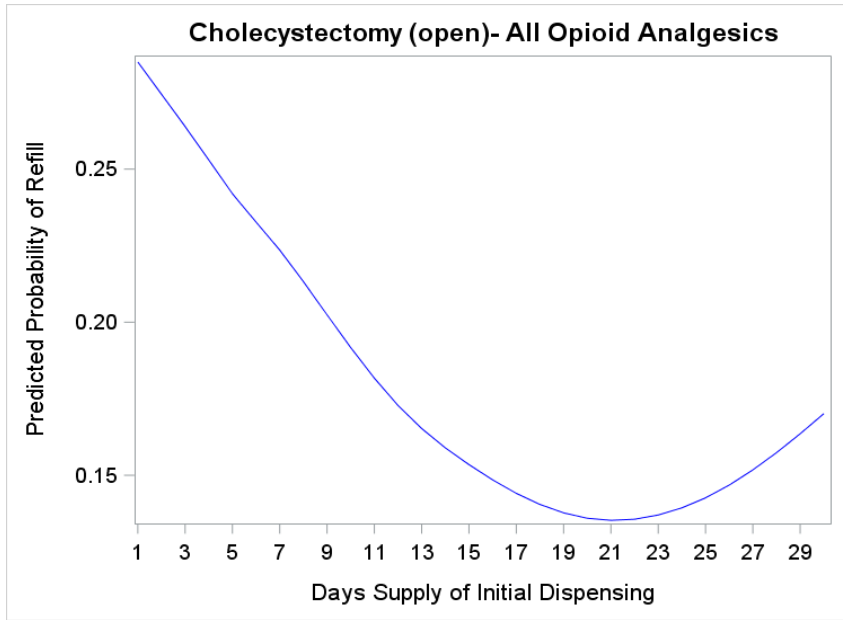


Figure 11. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

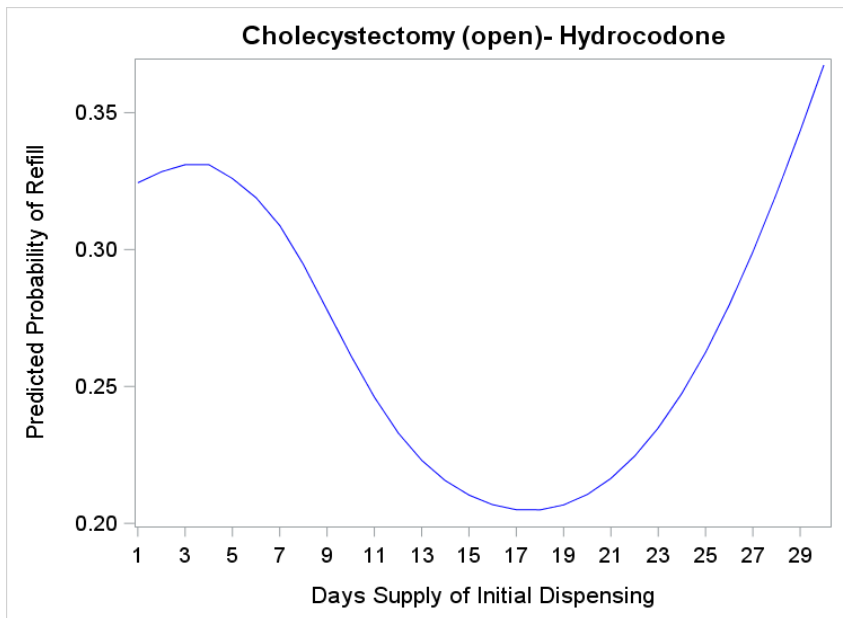
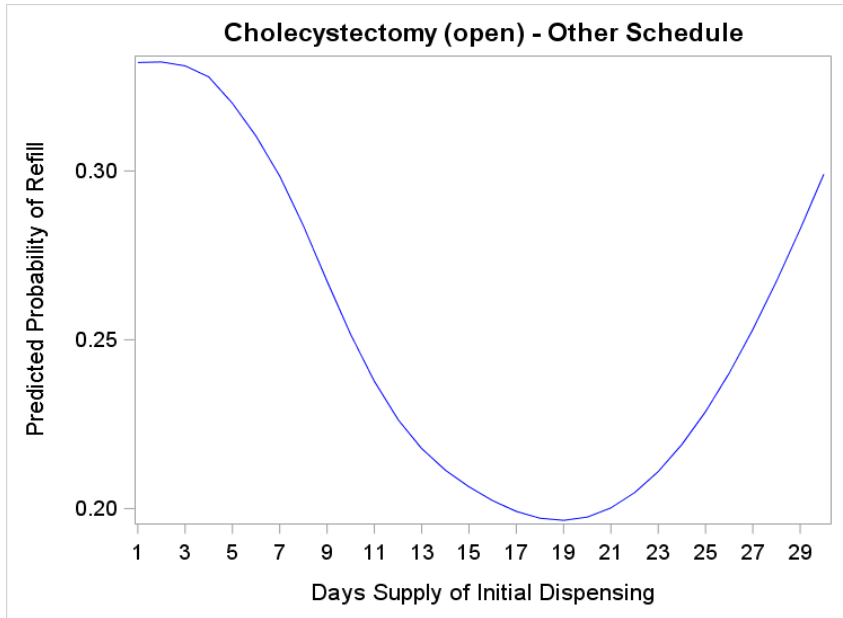


Figure 11. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

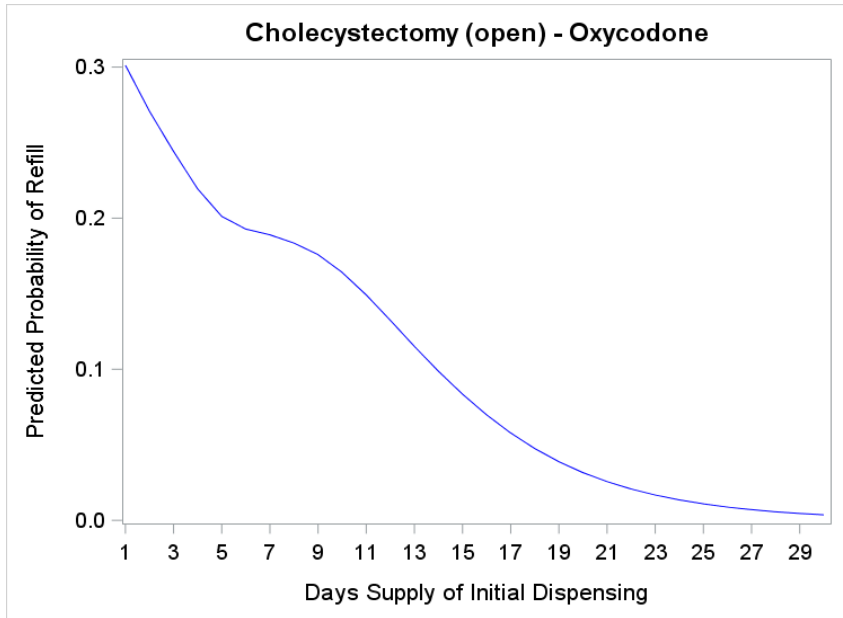


Figure 12. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

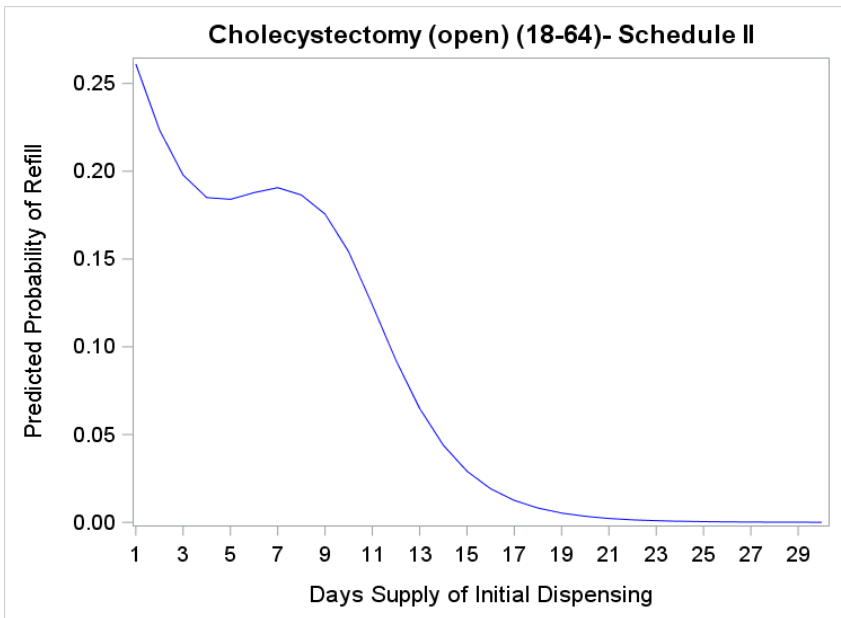
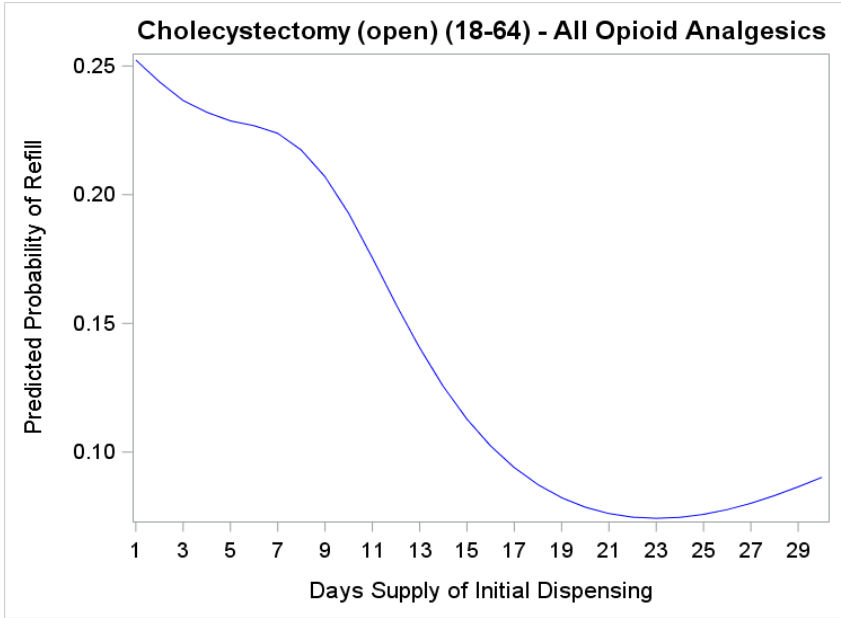


Figure 12. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

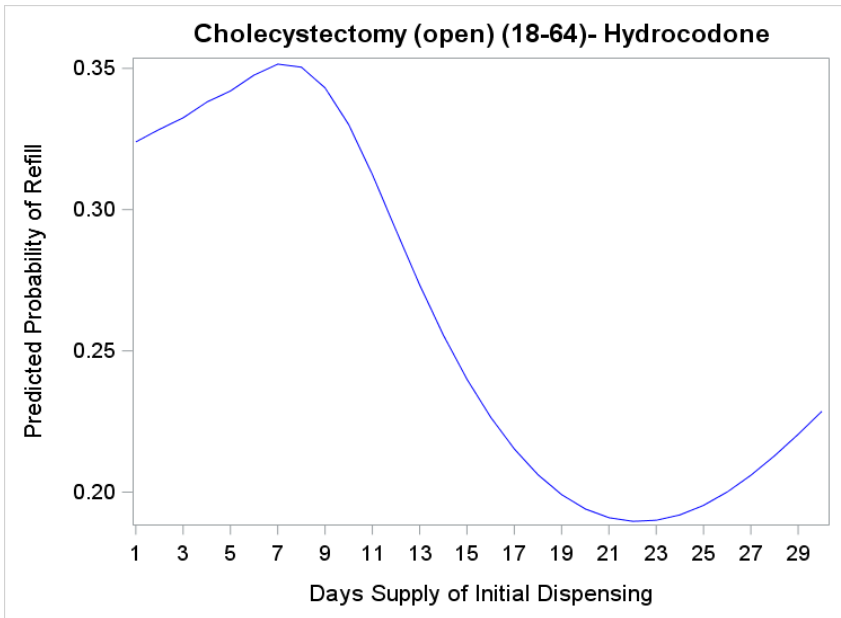
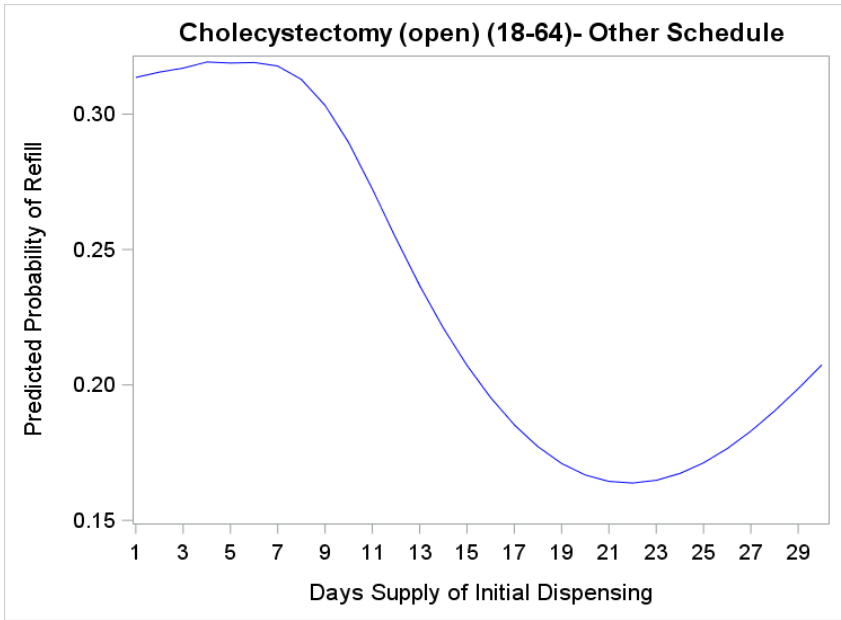


Figure 12. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

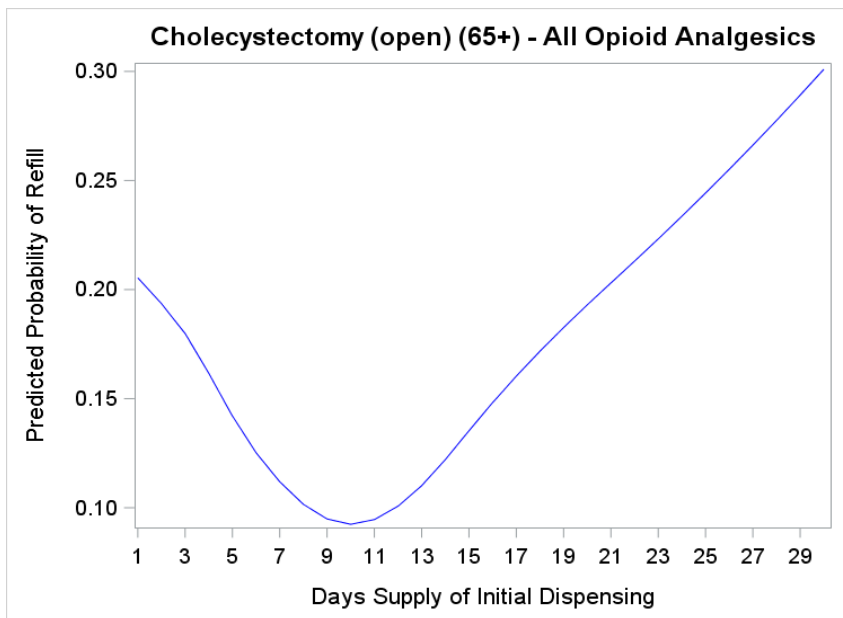
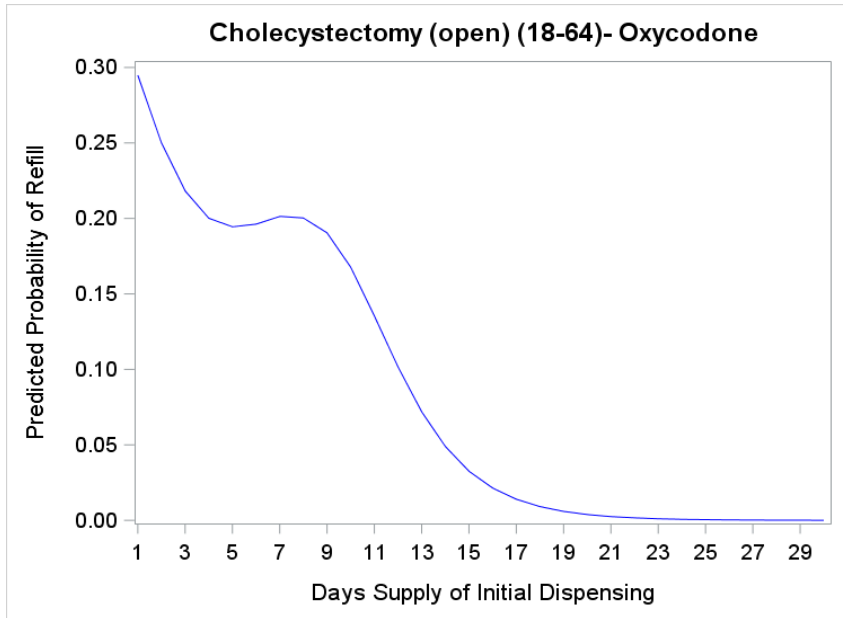


Figure 12. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

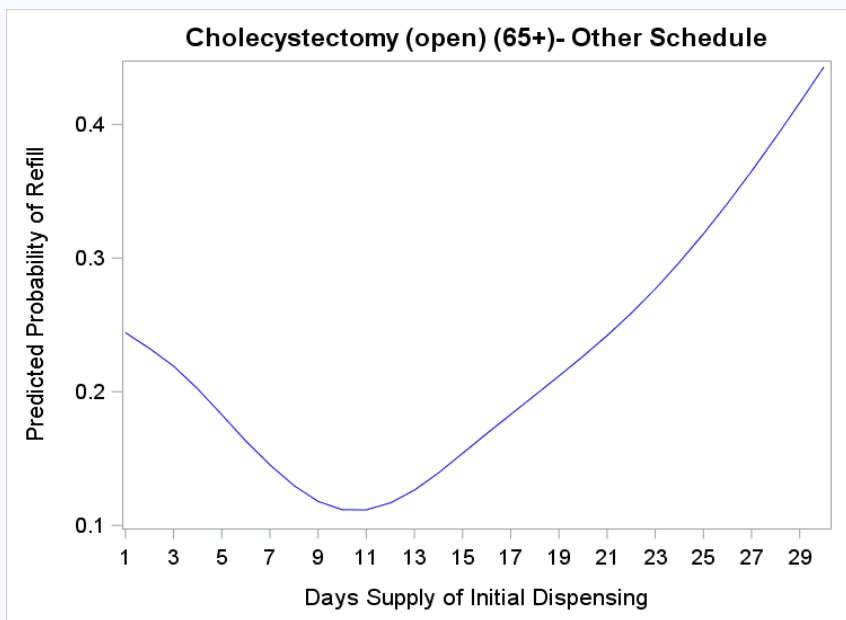
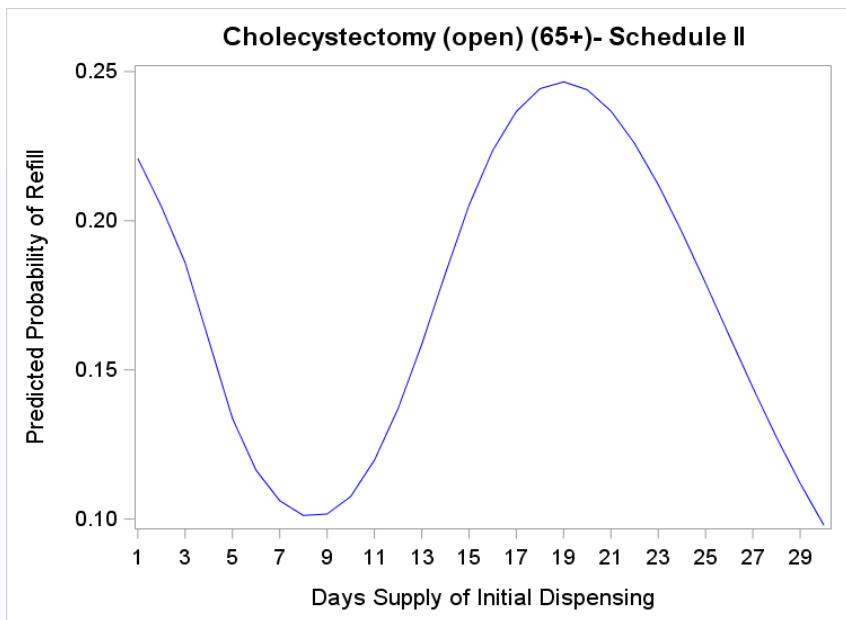


Figure 12. Graph of Refill Probability by Days Supply of Initial Dispensing for Open Cholecystectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

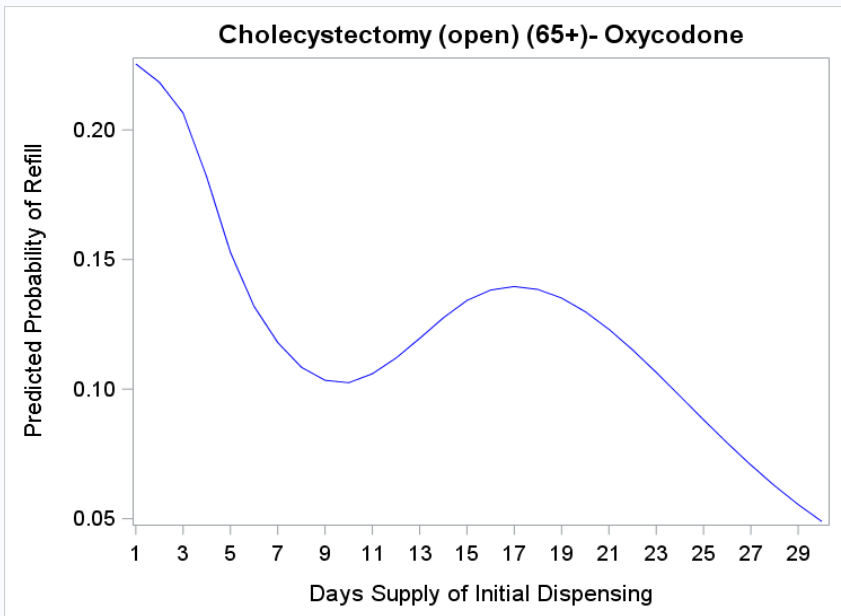
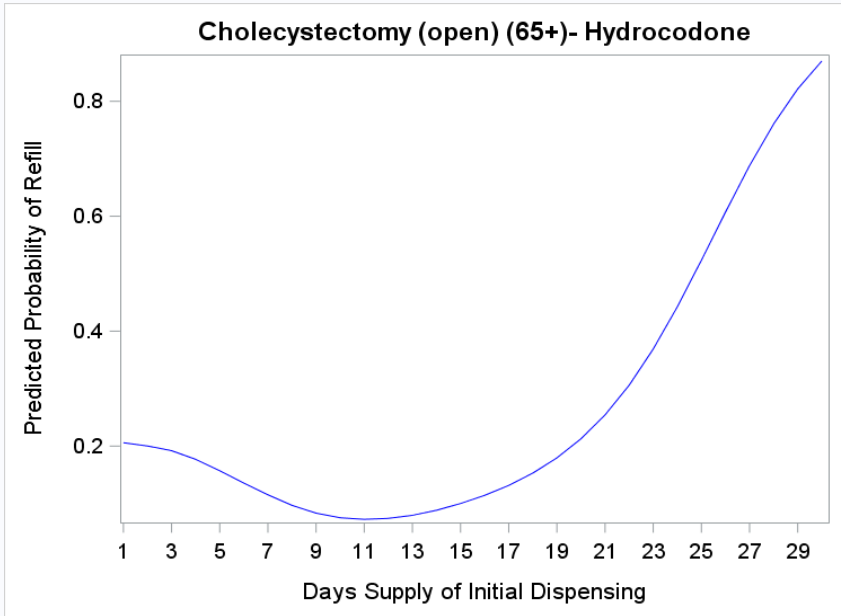


Figure 13. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

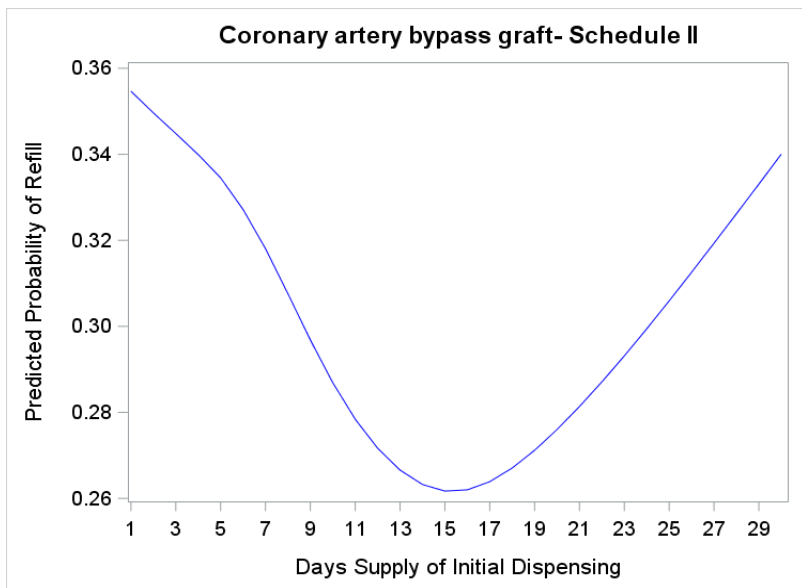
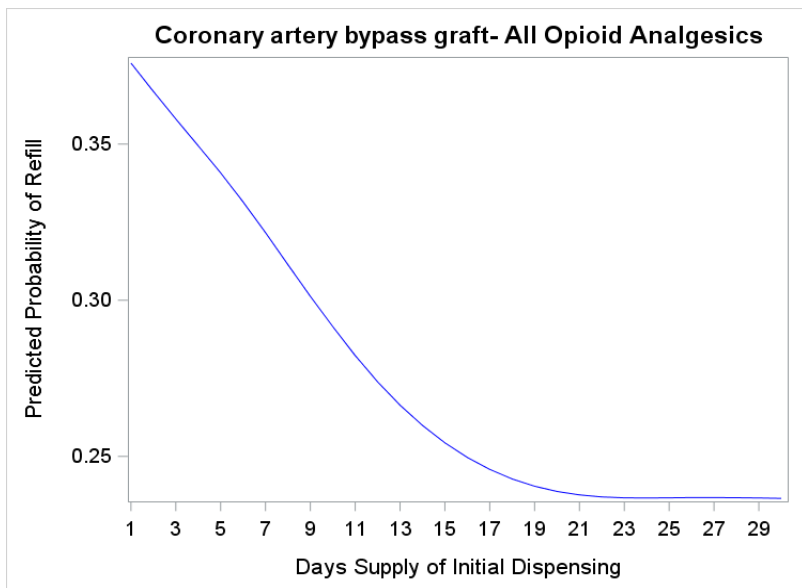


Figure 13. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

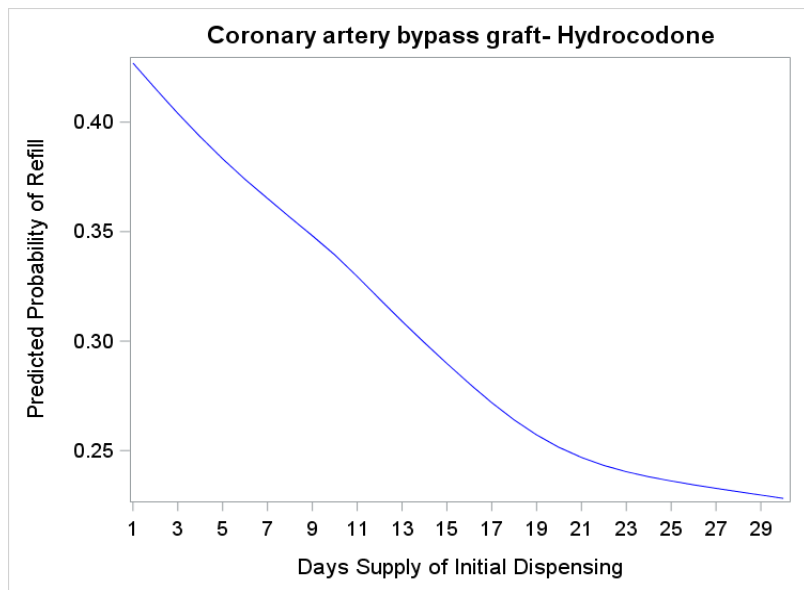
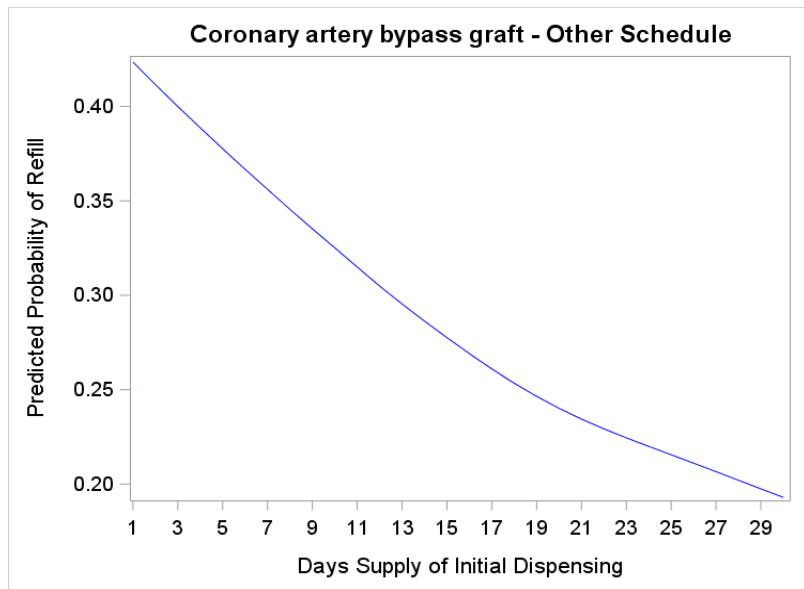


Figure 13. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

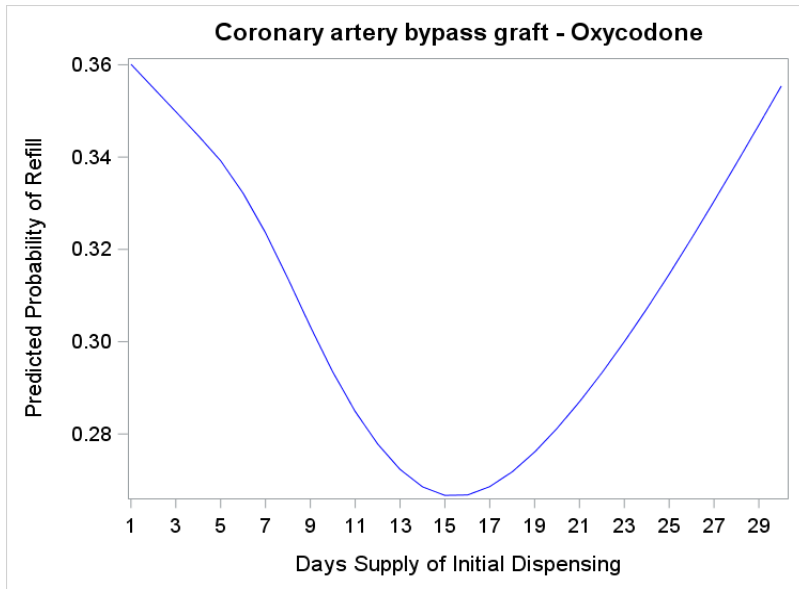


Figure 14. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group

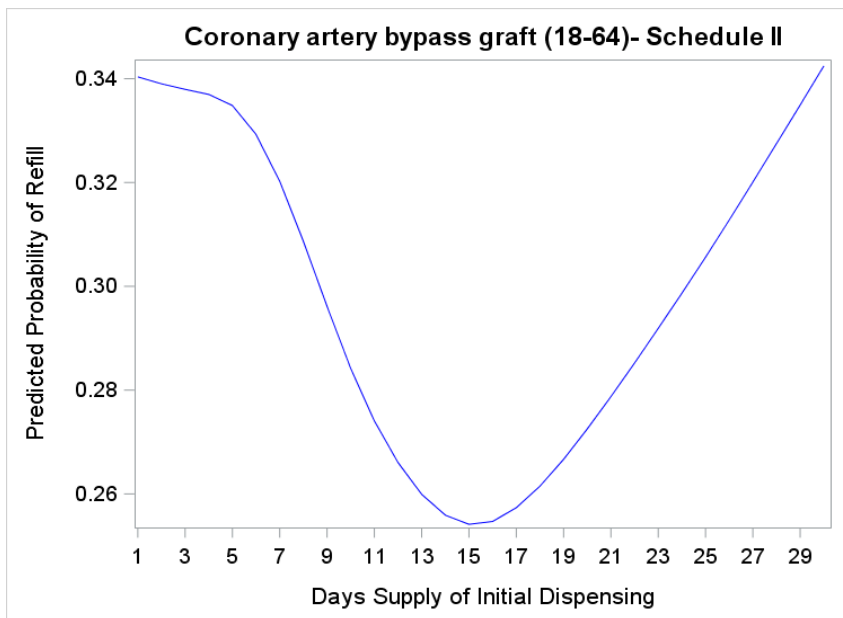
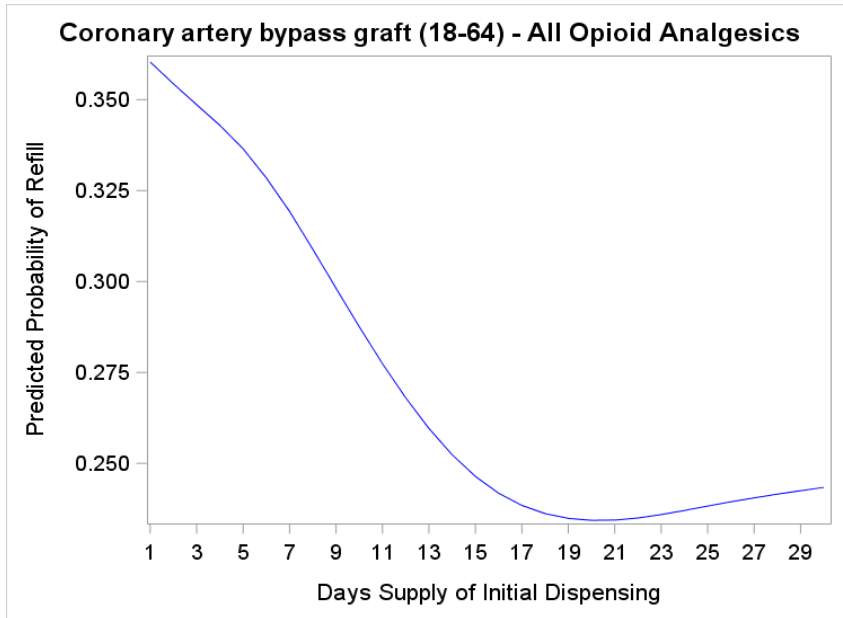


Figure 14. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group

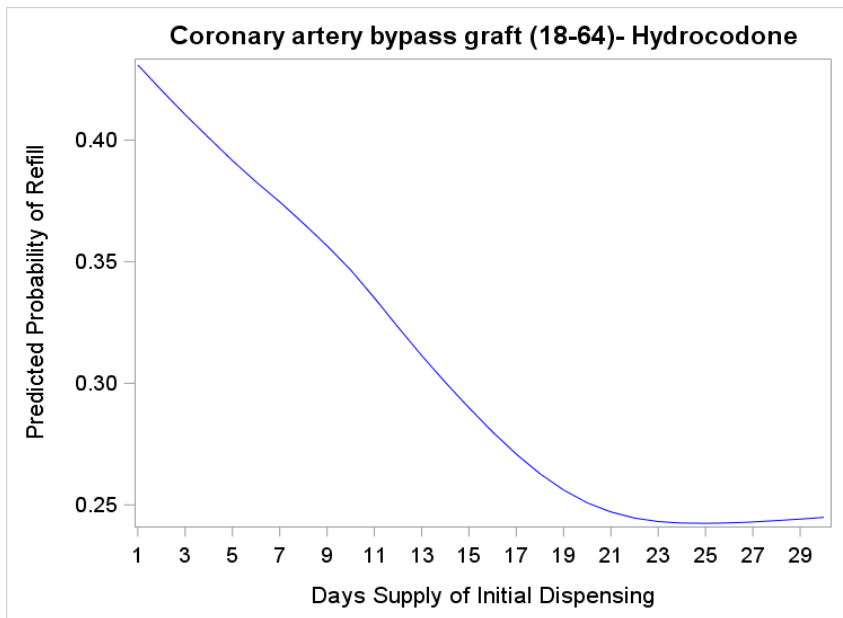
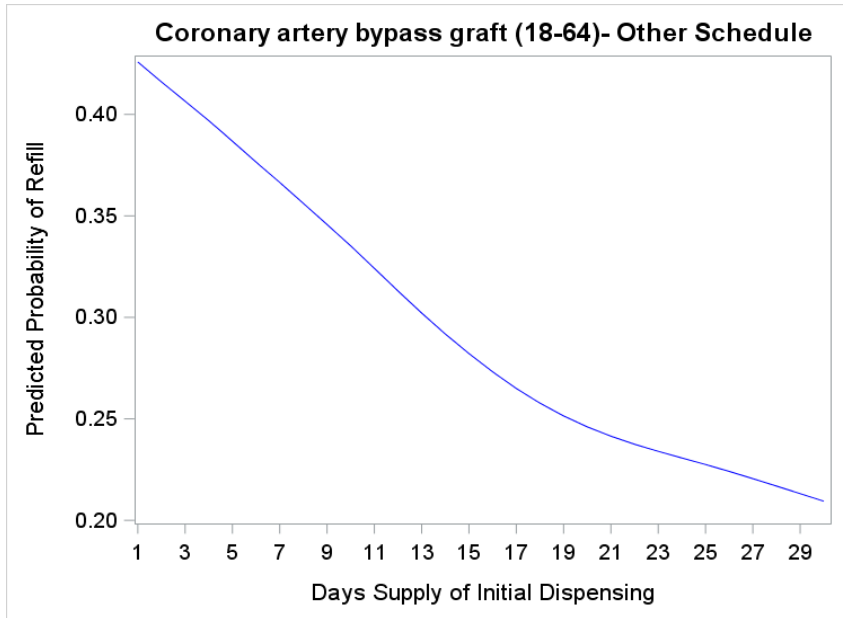


Figure 14. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group

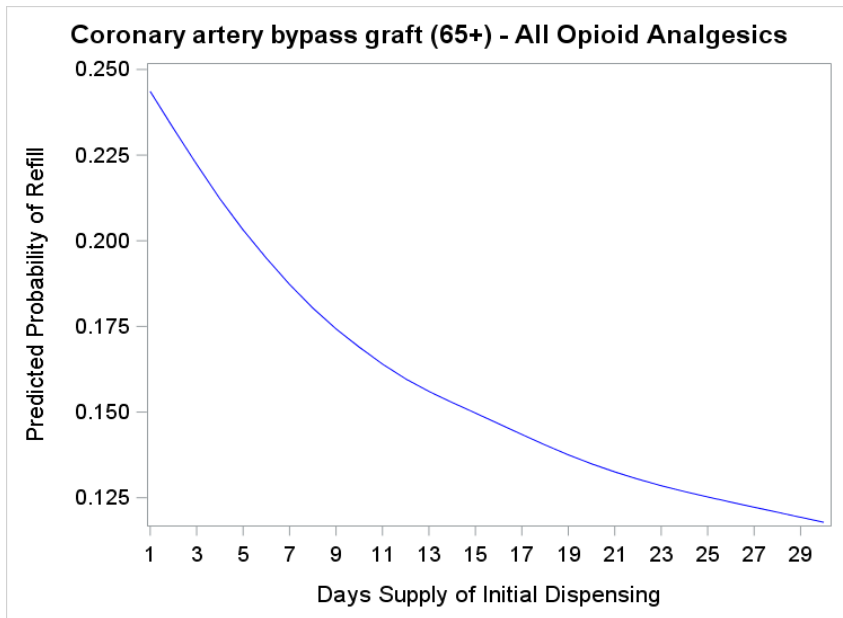
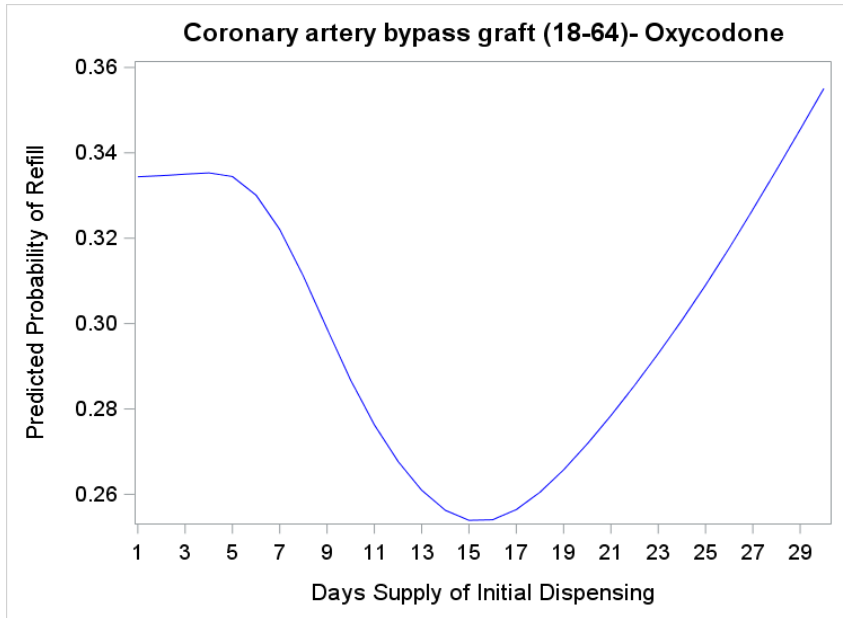


Figure 14. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group

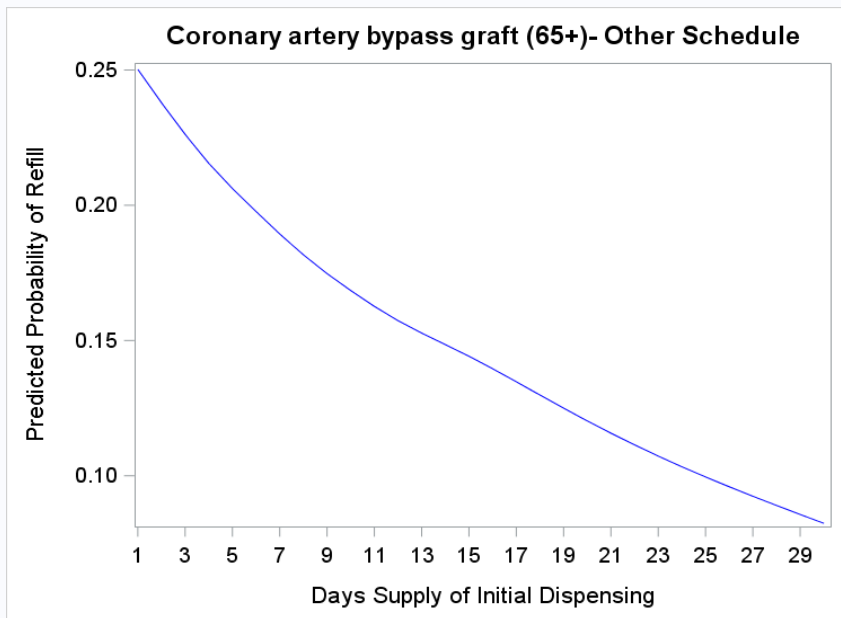
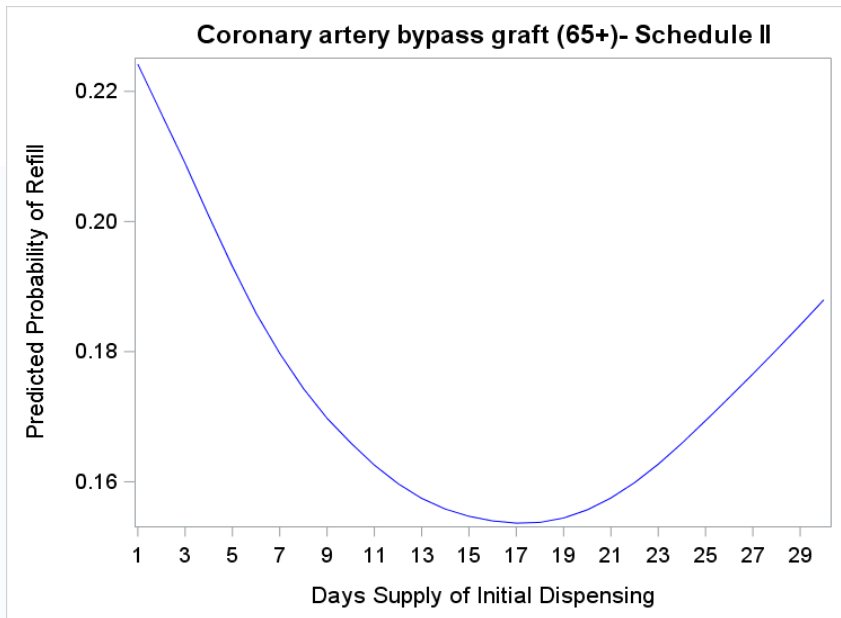


Figure 14. Graph of Refill Probability by Days Supply of Initial Dispensing for Coronary Artery Bypass Graft in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014 by Age Group

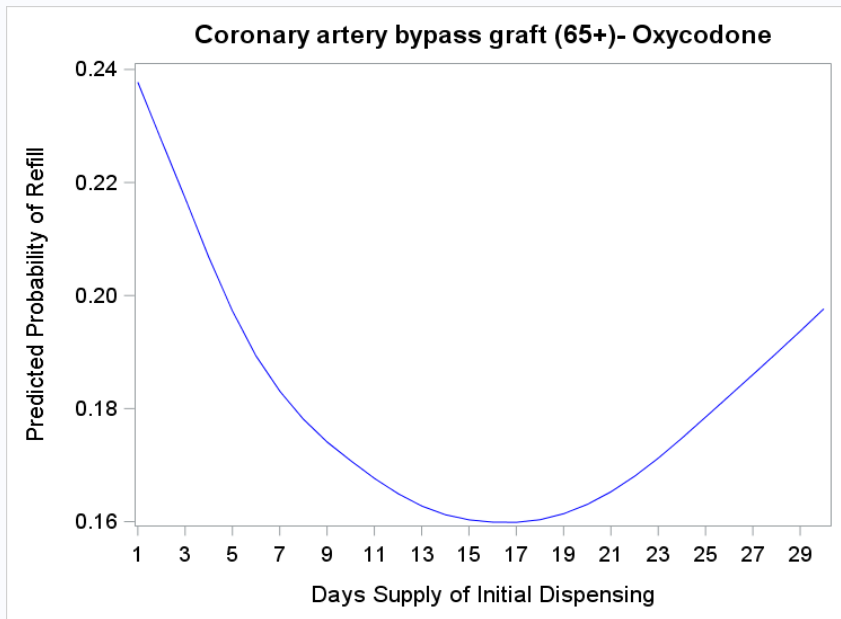
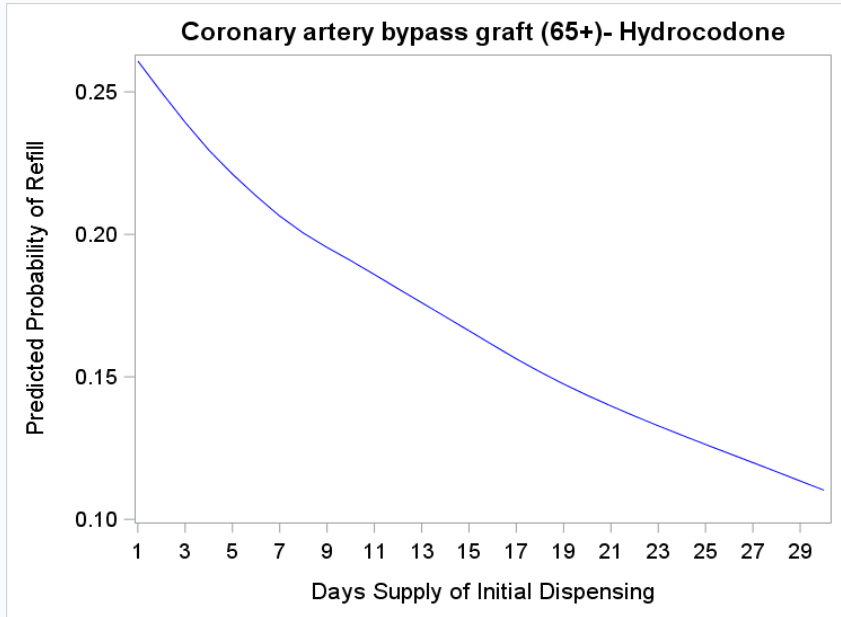


Figure 15. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

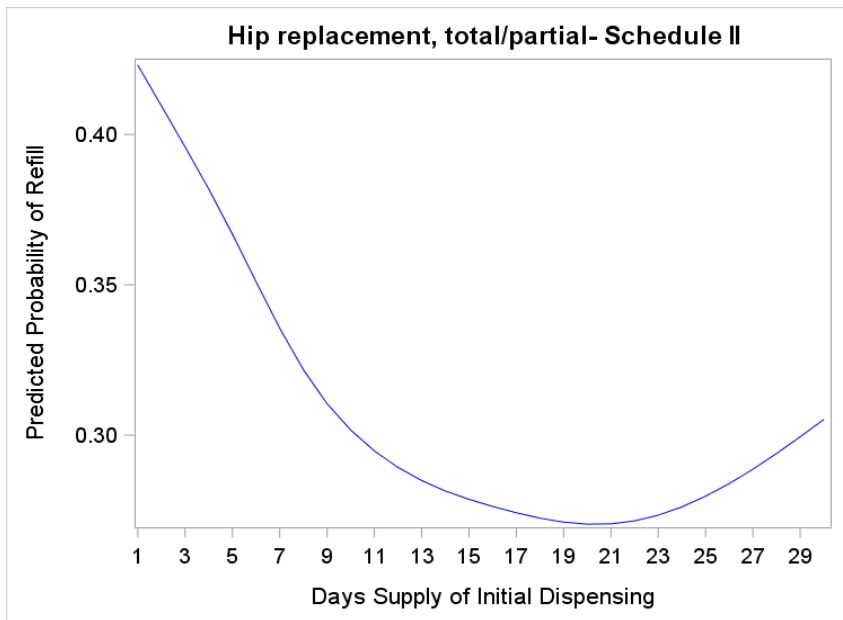
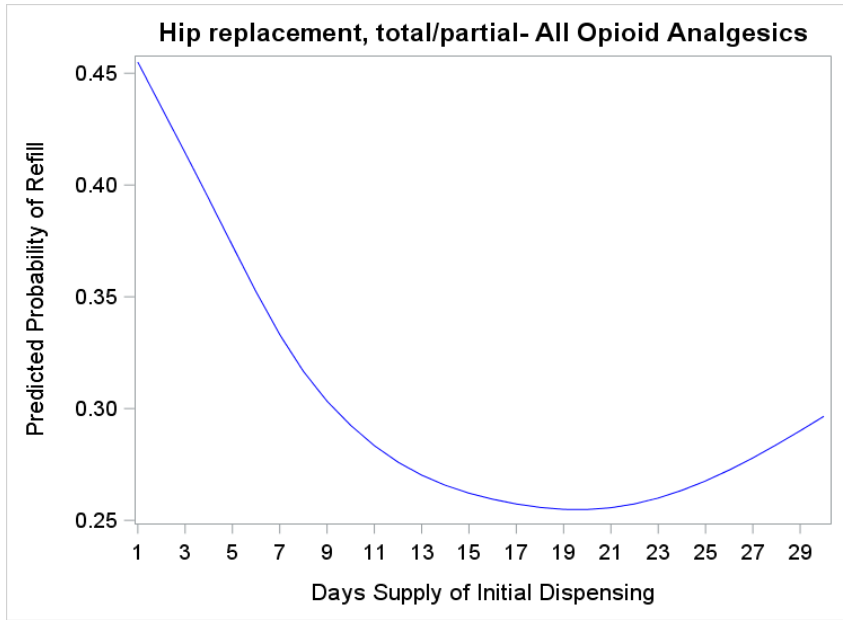


Figure 15. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

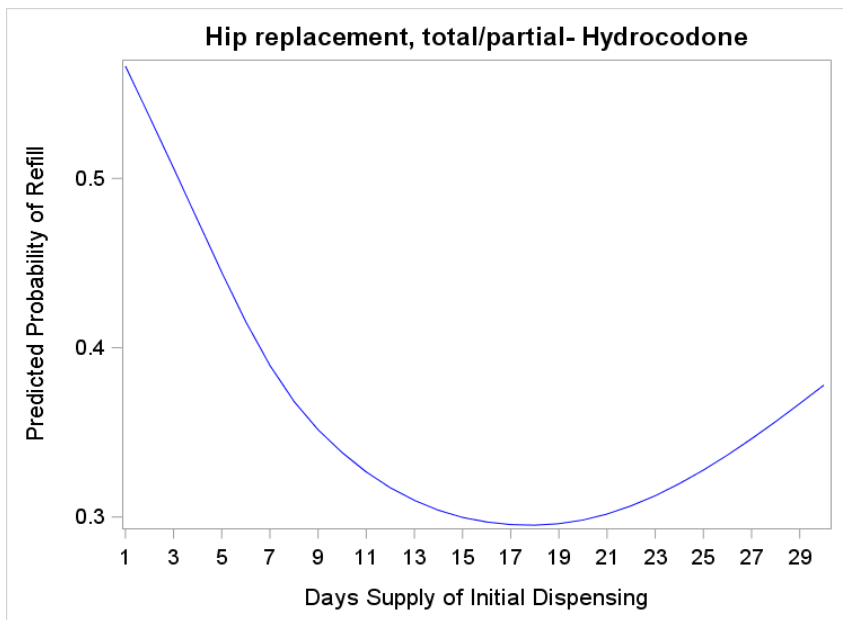
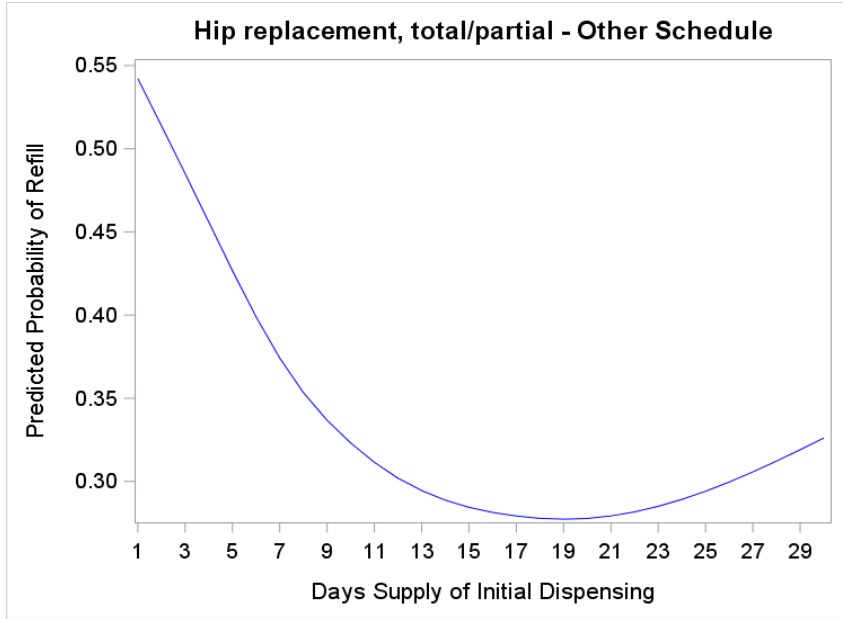


Figure 15. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

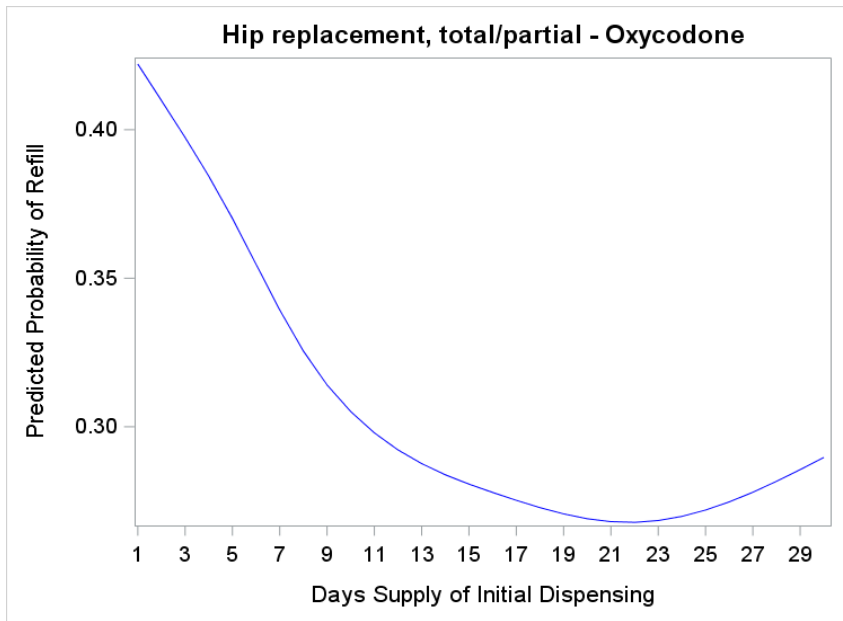


Figure 16. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

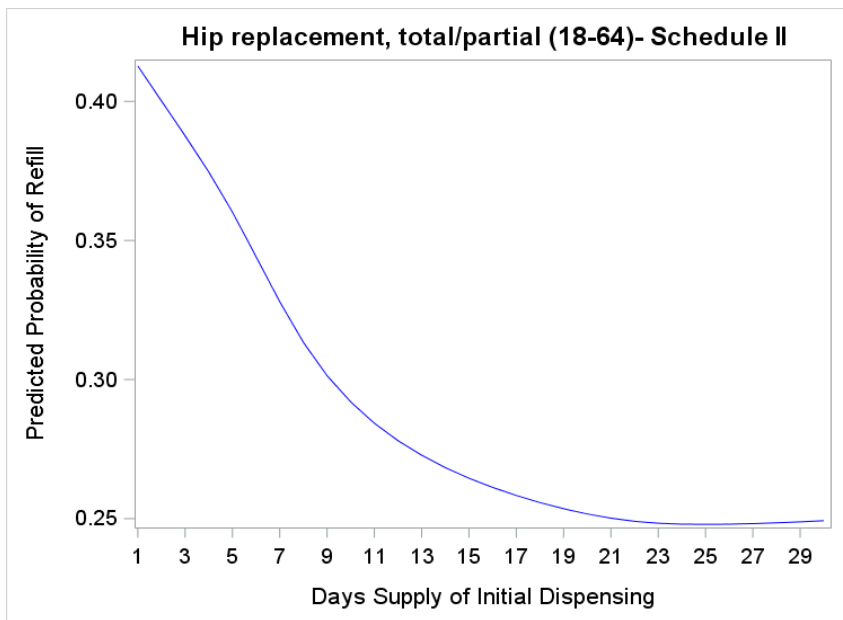
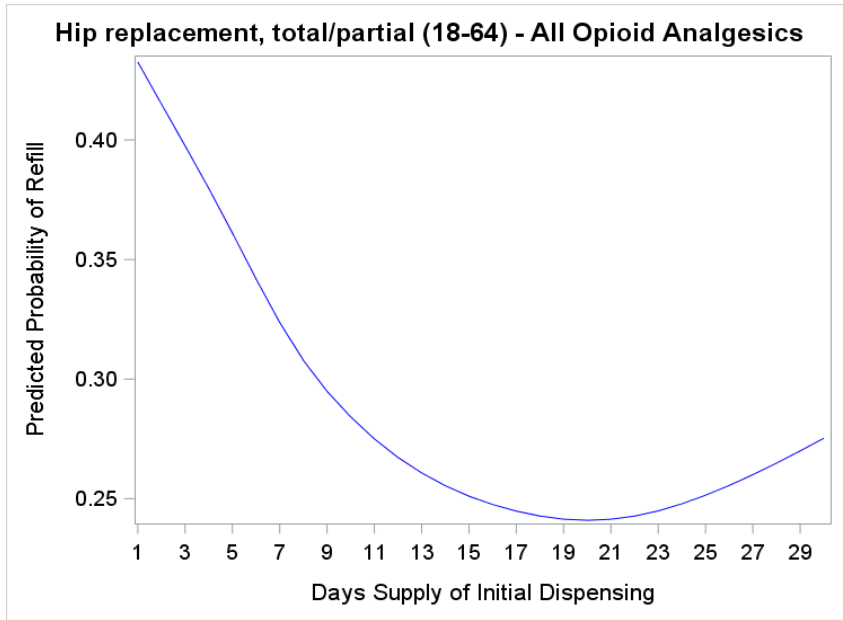


Figure 16. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

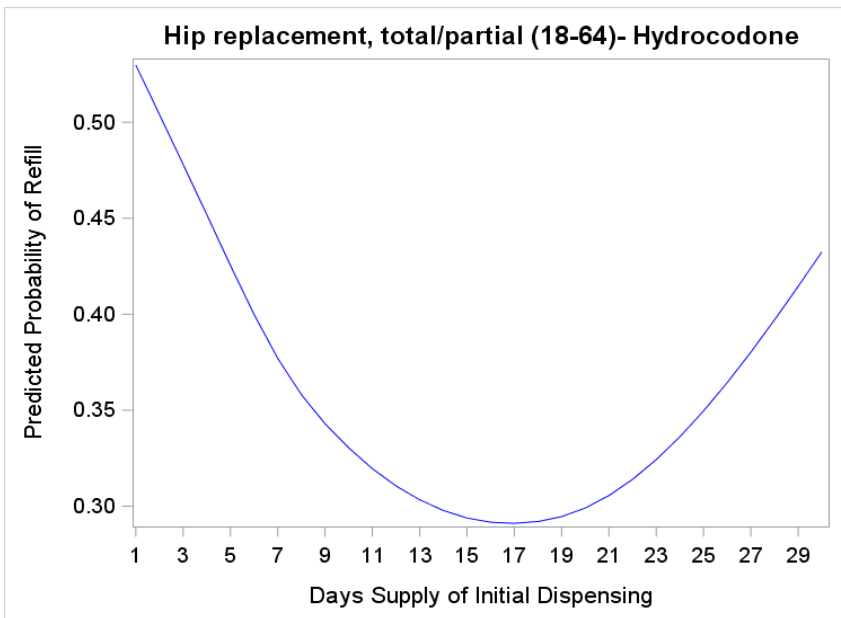
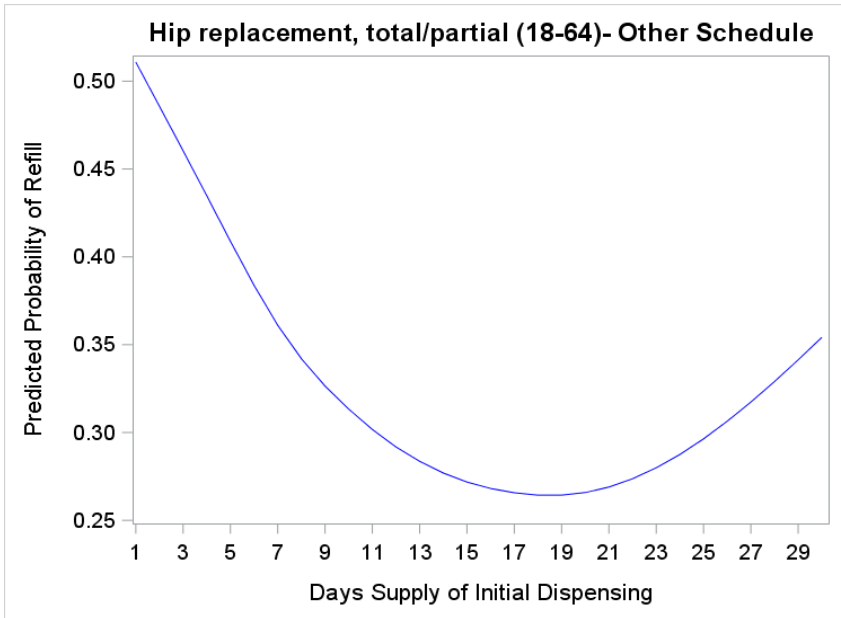


Figure 16. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

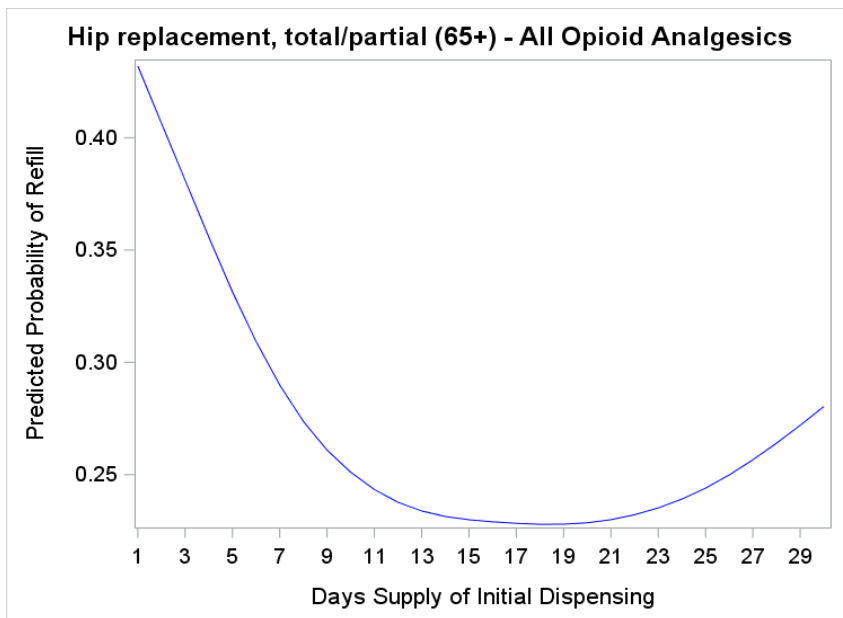
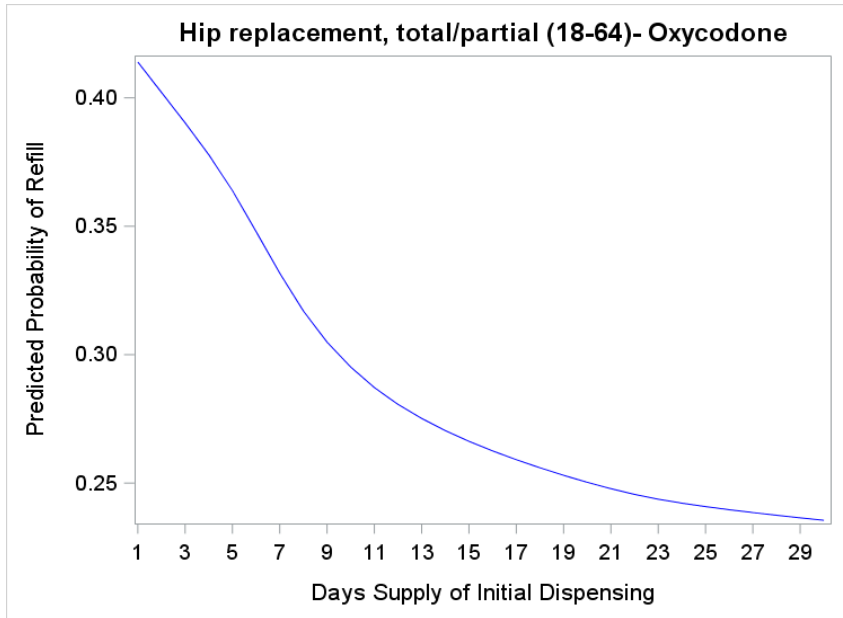


Figure 16. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

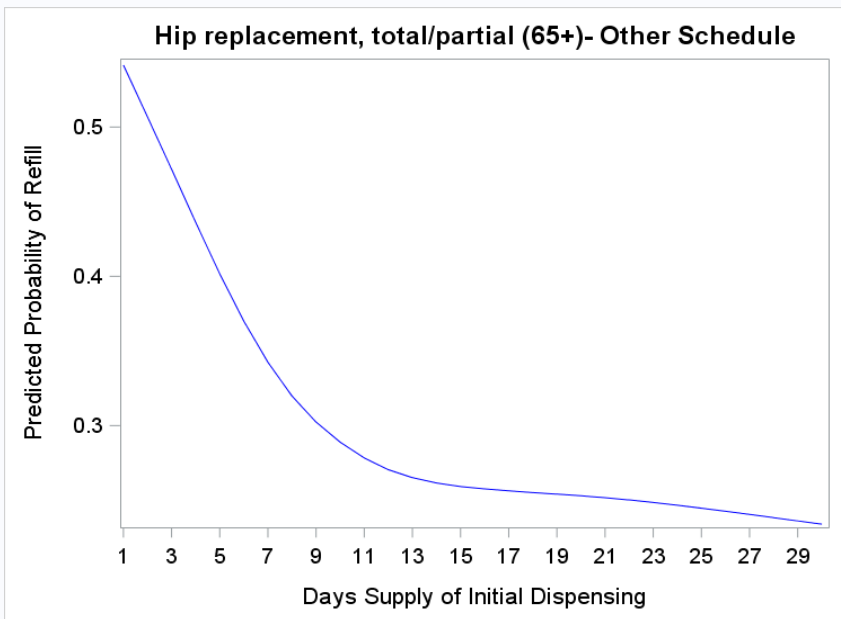
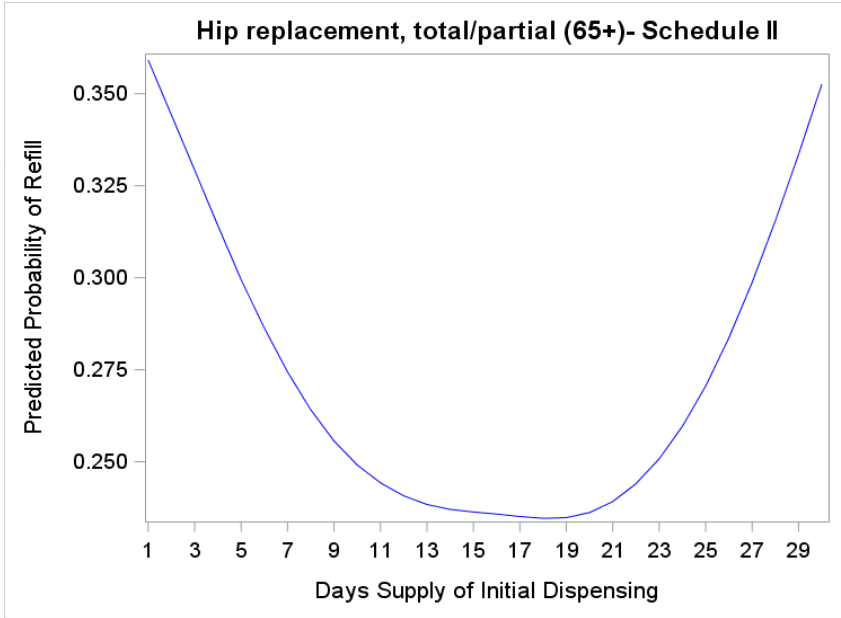


Figure 16. Graph of Refill Probability by Days Supply of Initial Dispensing for Total or Partial Hip Replacement in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

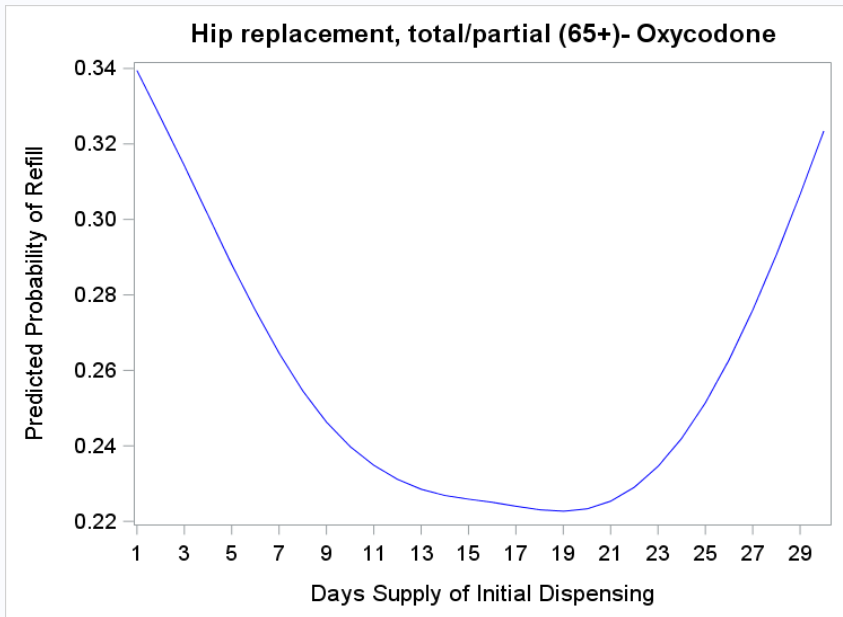
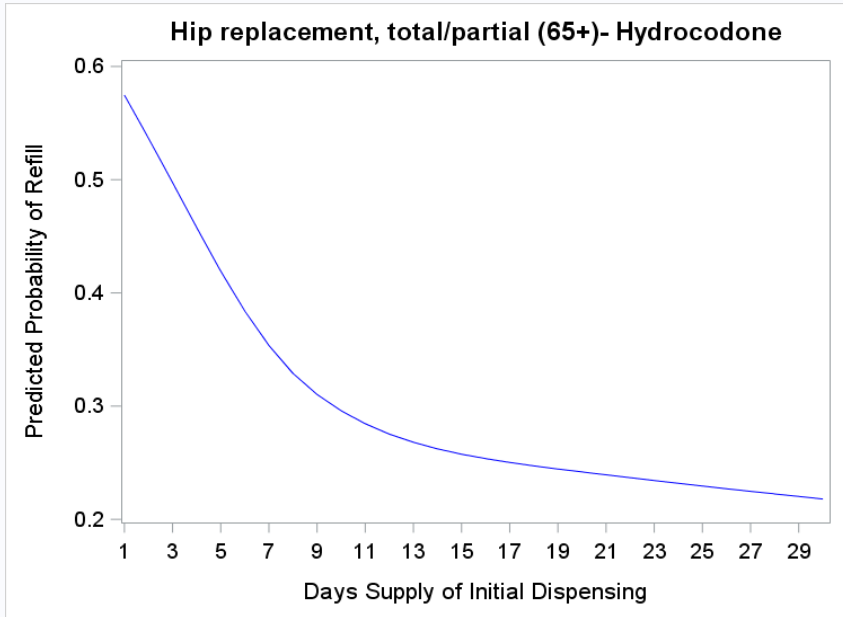


Figure 17. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

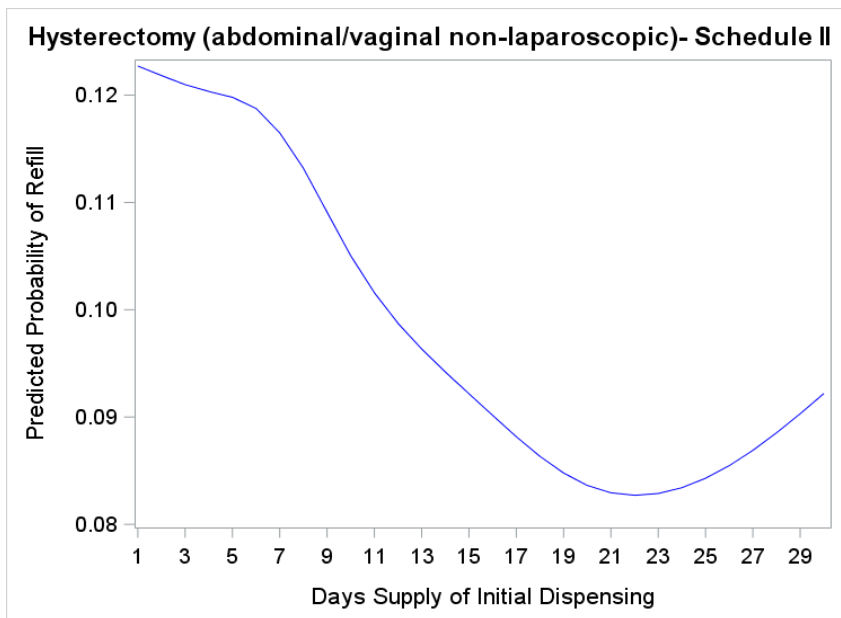
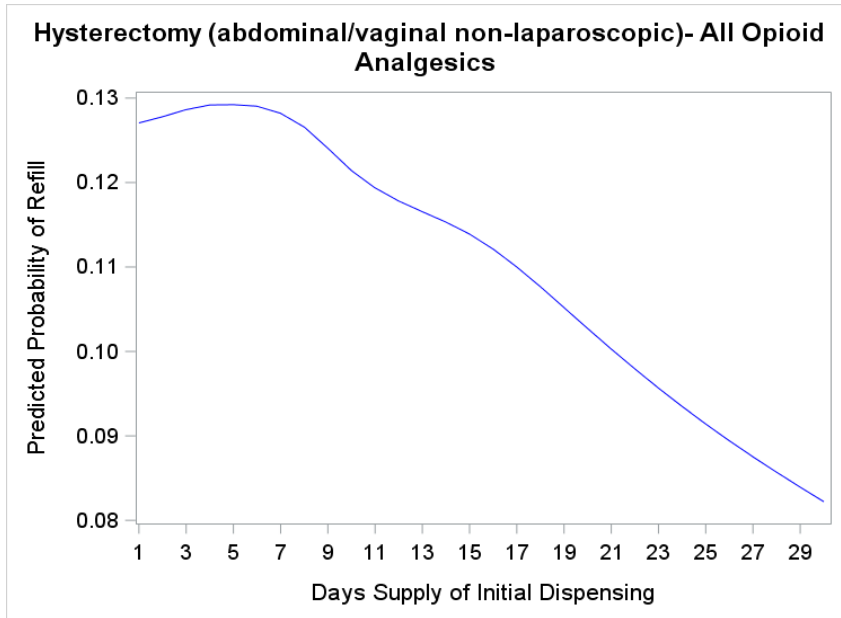


Figure 17. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

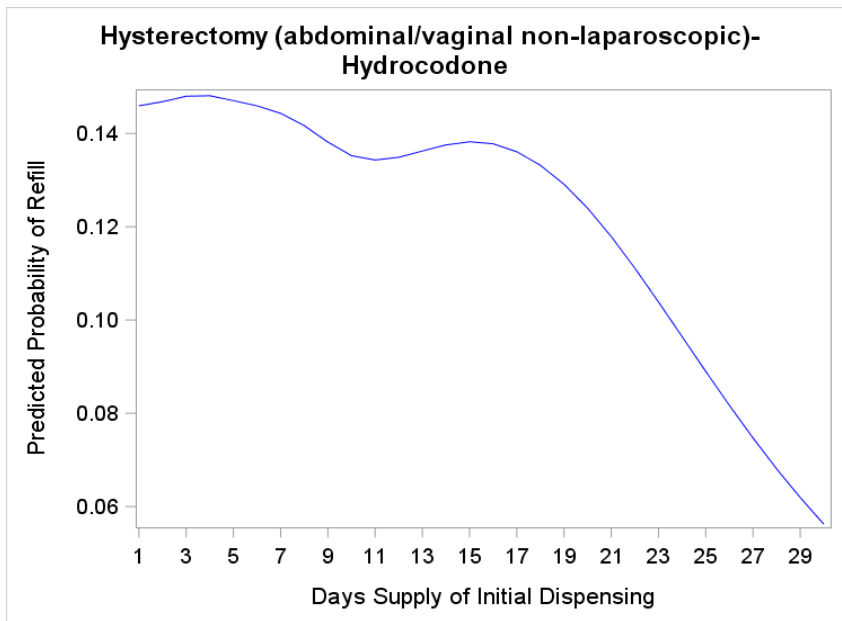
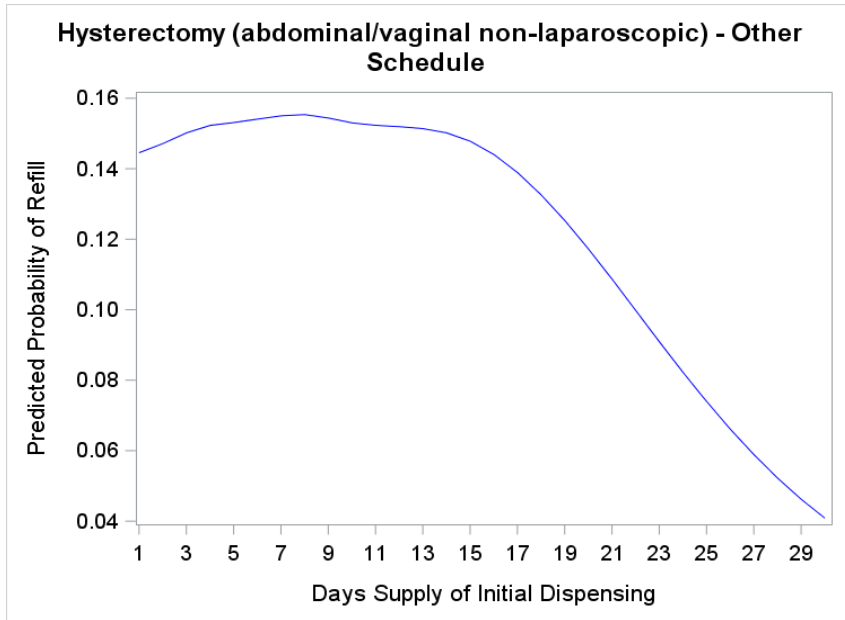


Figure 17. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

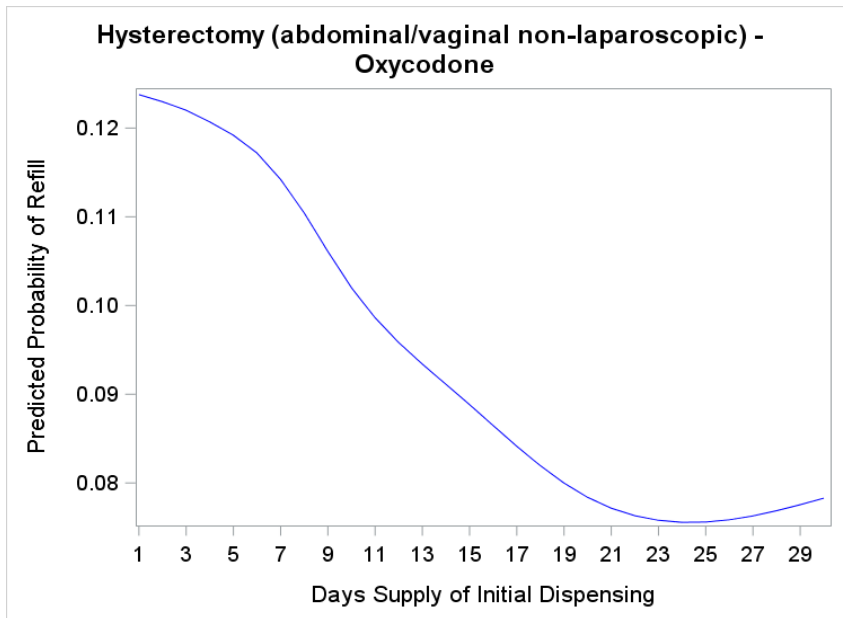


Figure 18. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

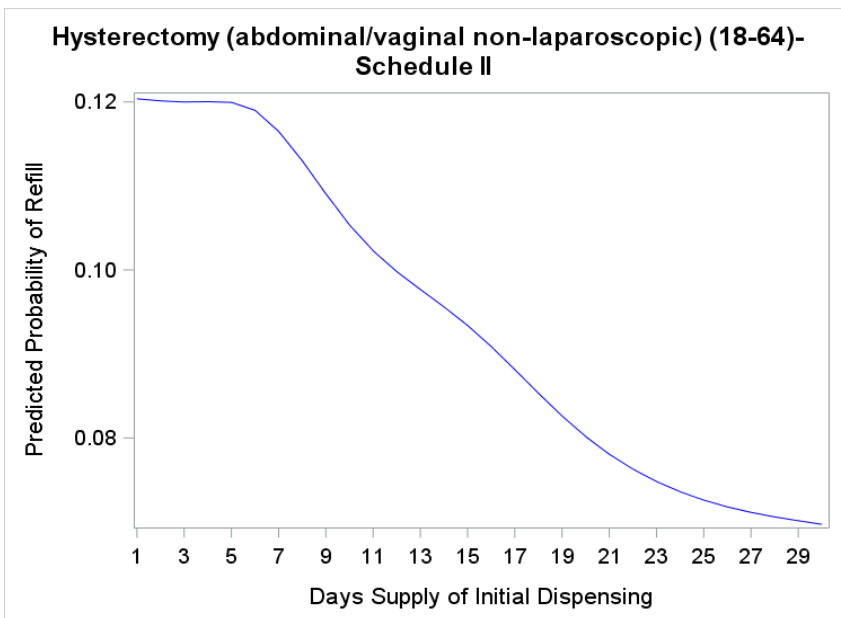
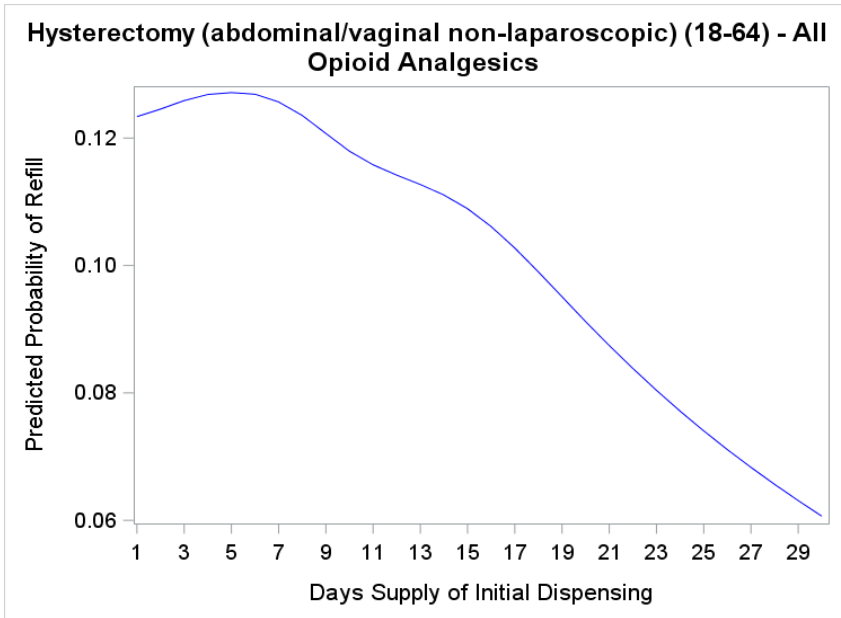


Figure 18. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

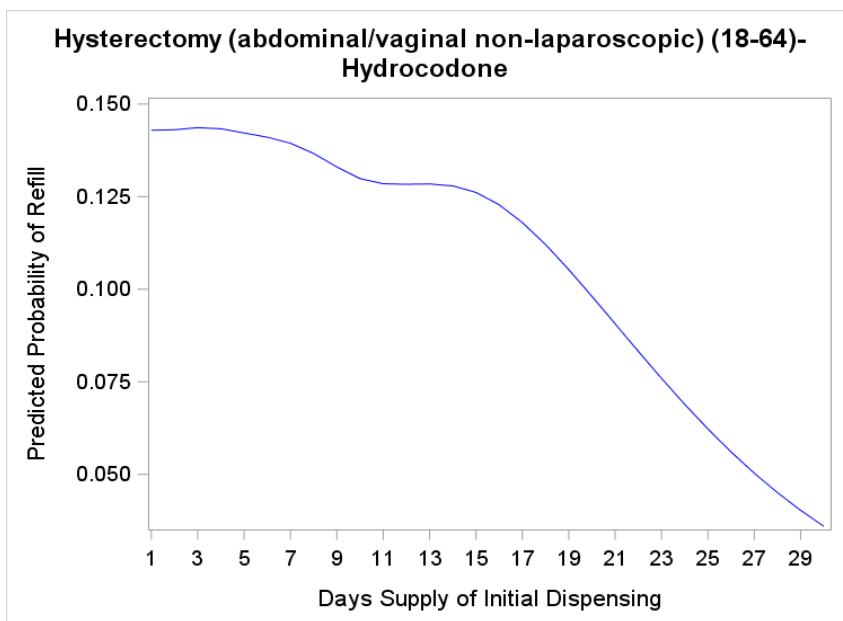
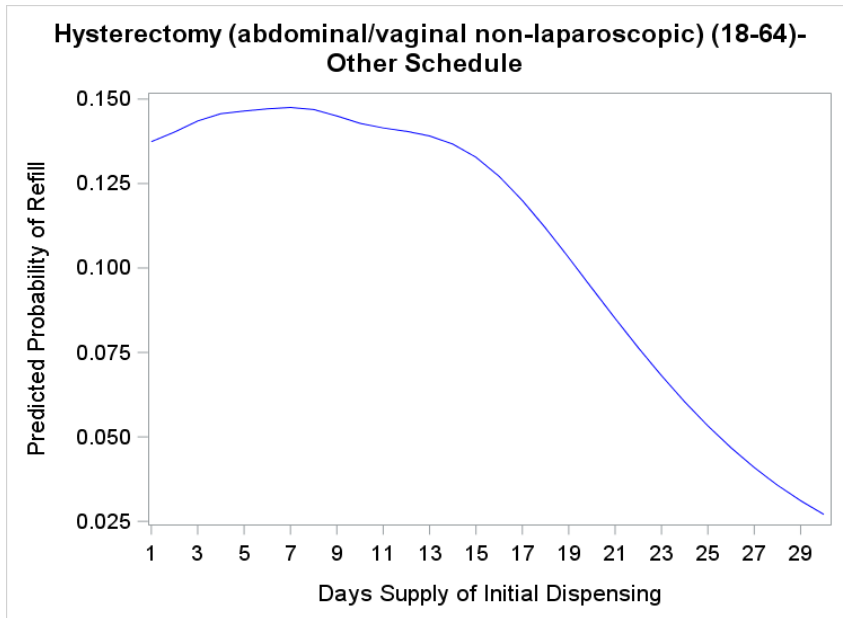


Figure 18. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

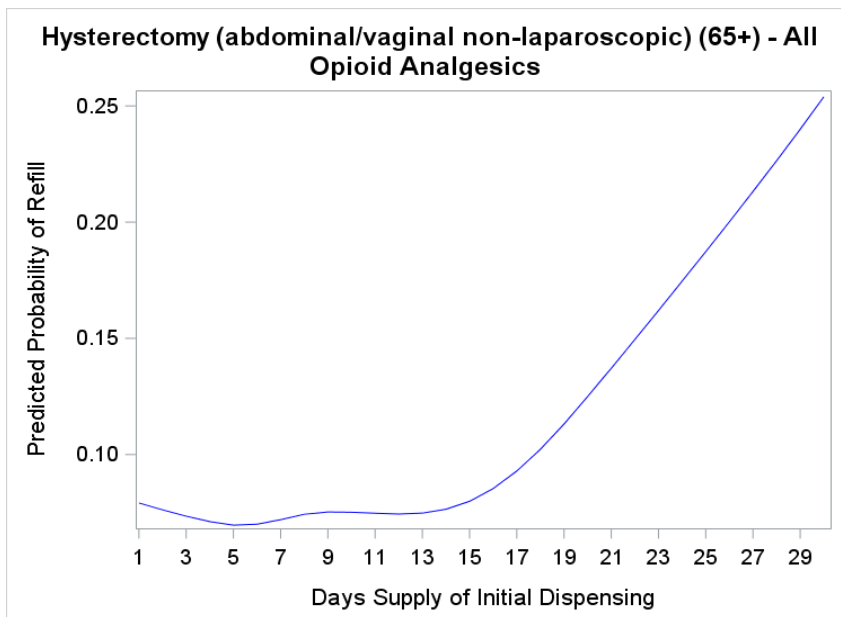
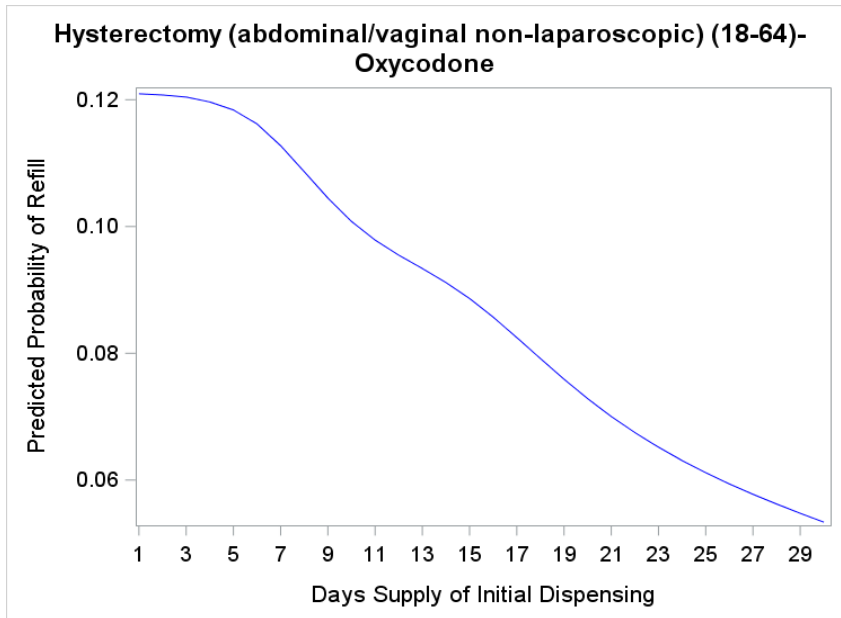


Figure 18. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

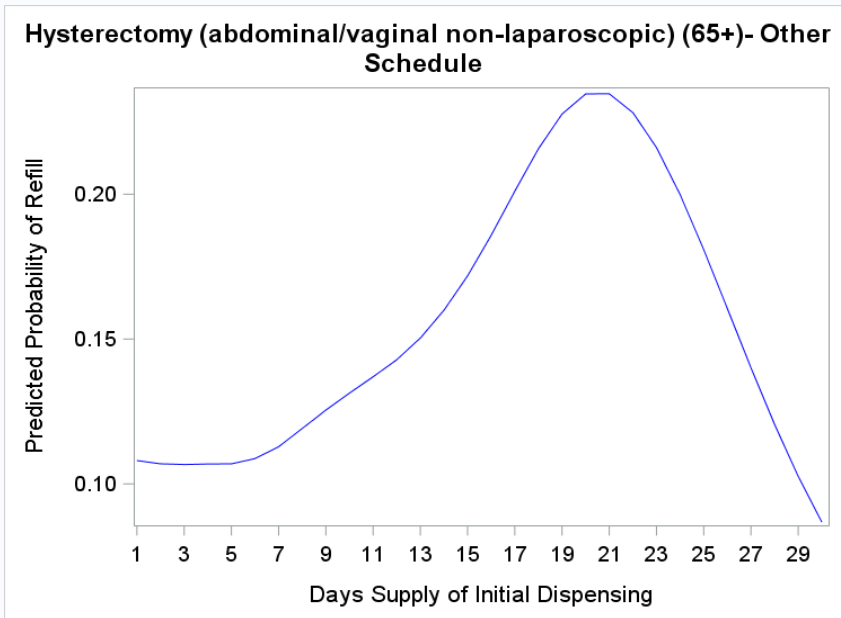
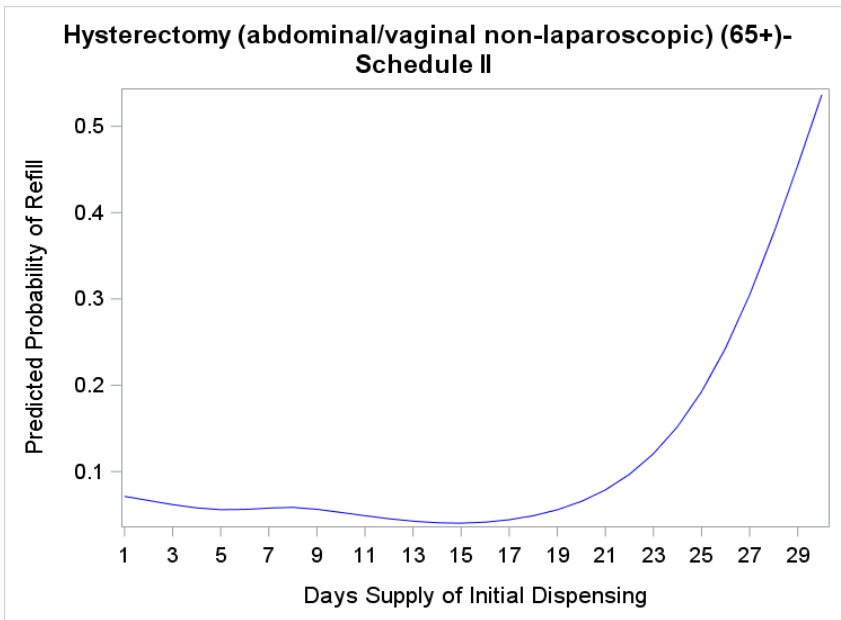


Figure 18. Graph of Refill Probability by Days Supply of Initial Dispensing for Non-Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

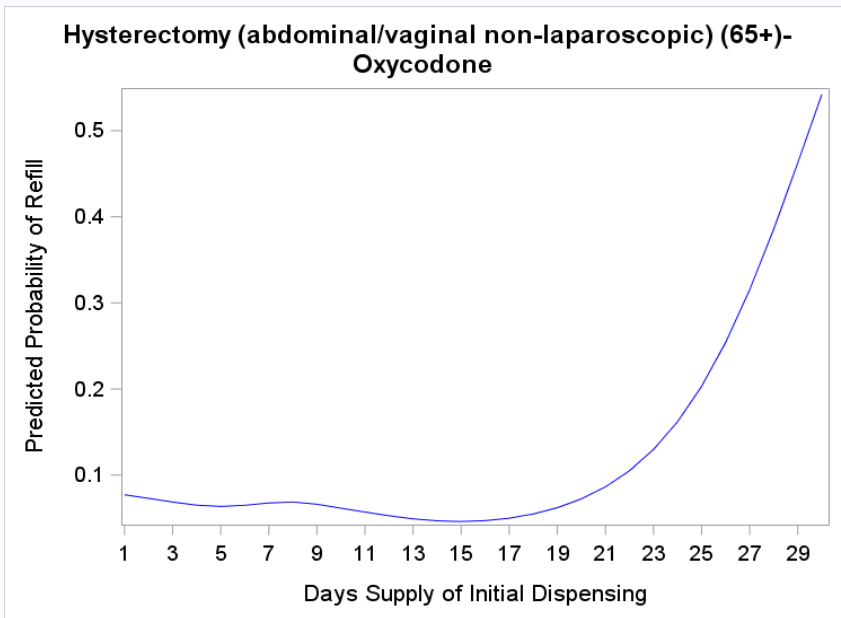
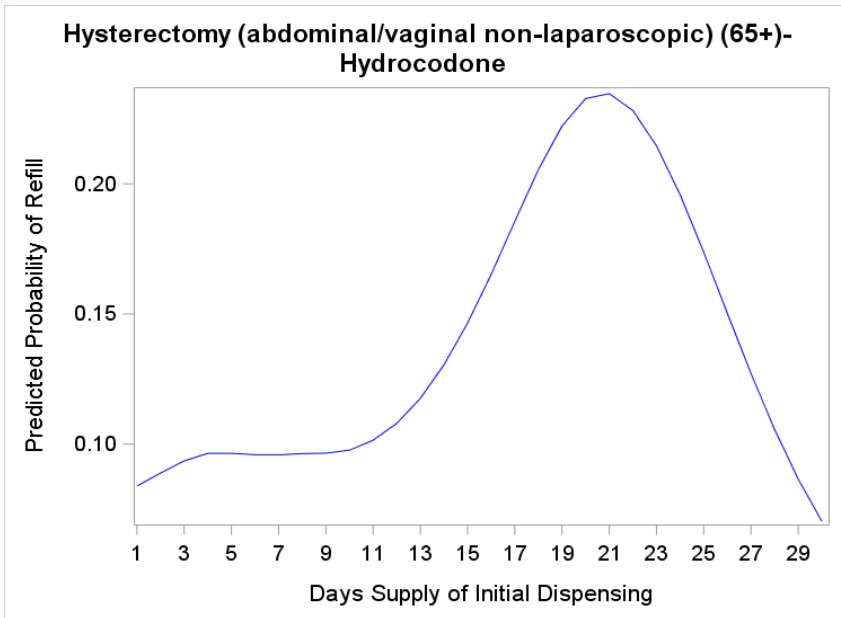


Figure 19. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

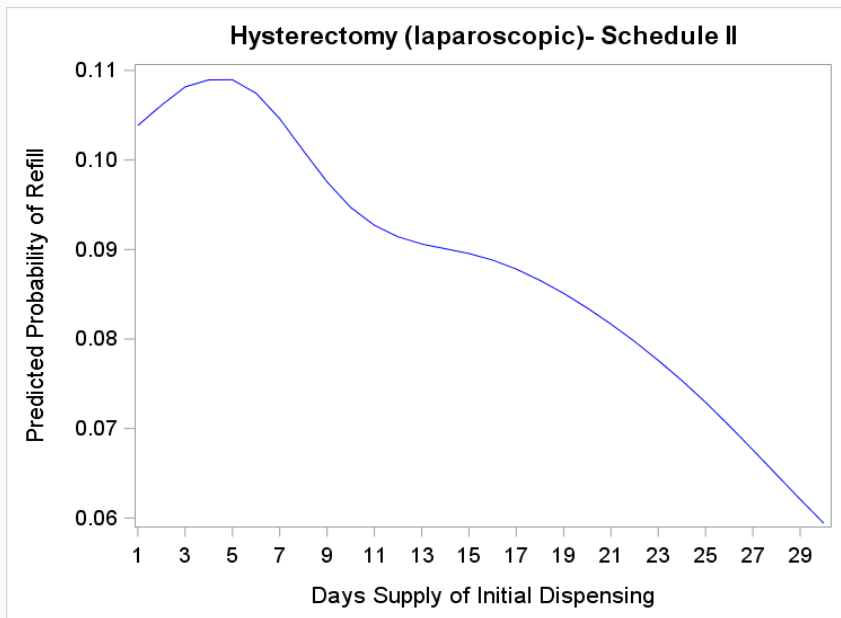
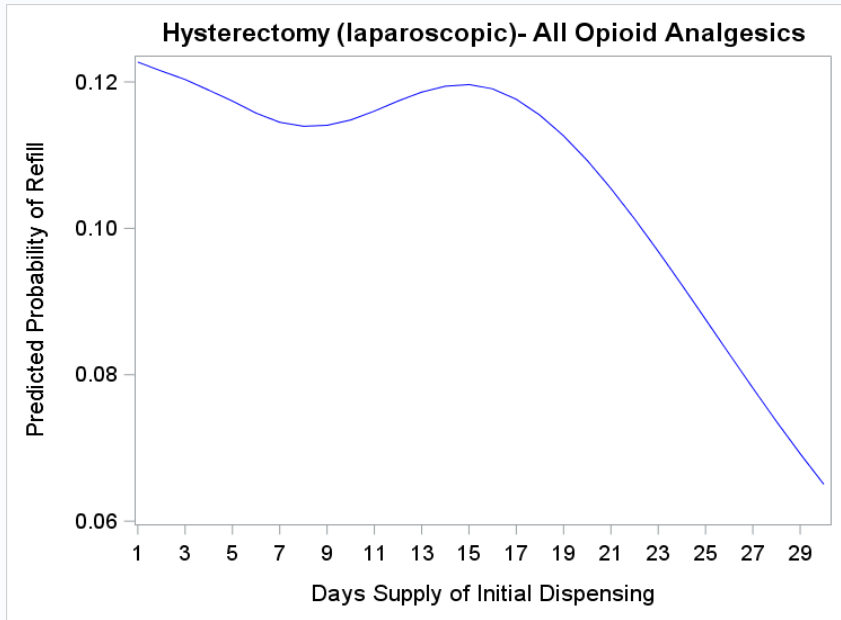


Figure 19. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

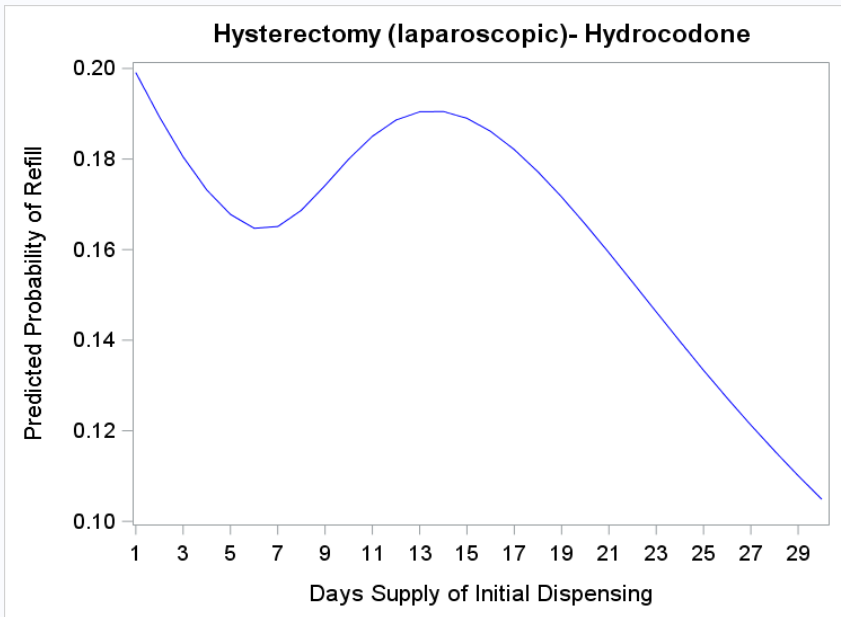
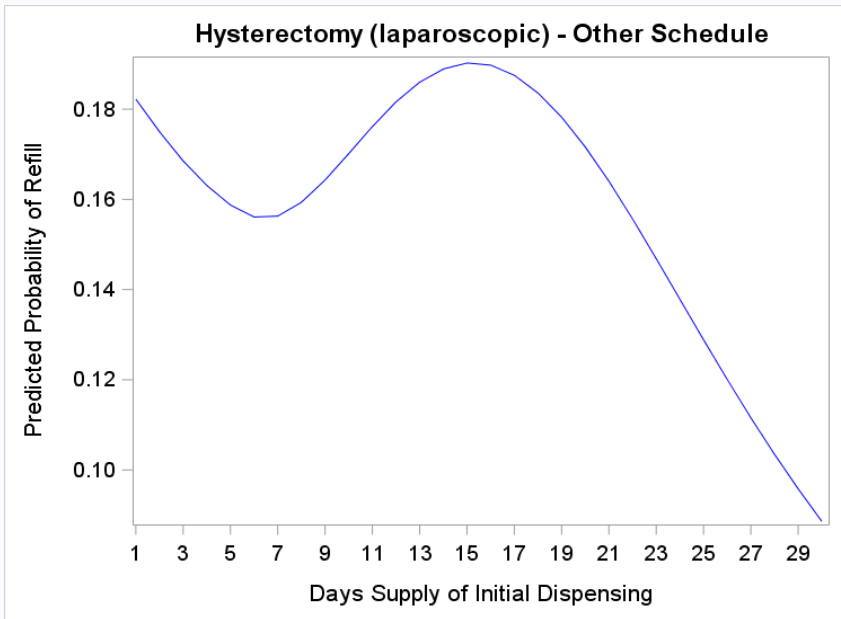


Figure 19. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

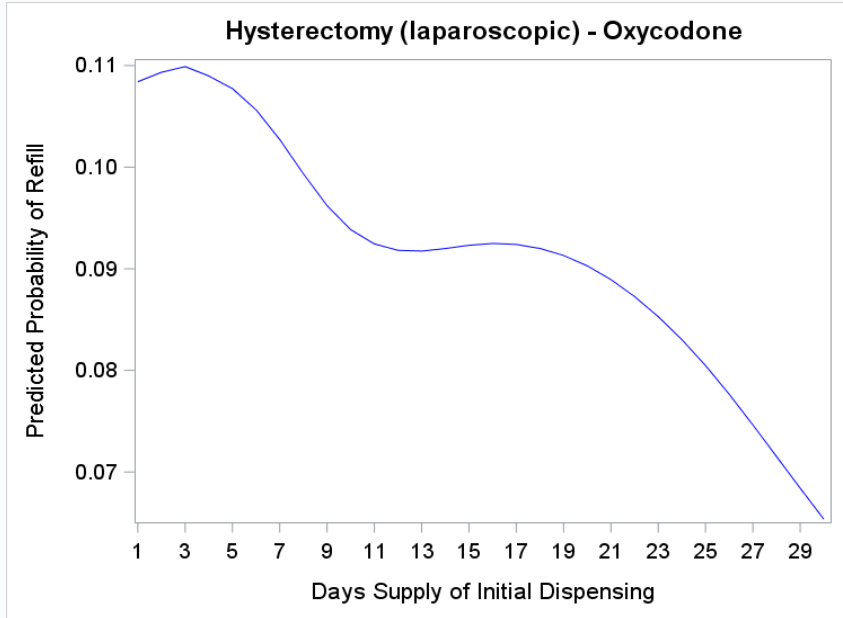


Figure 20. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

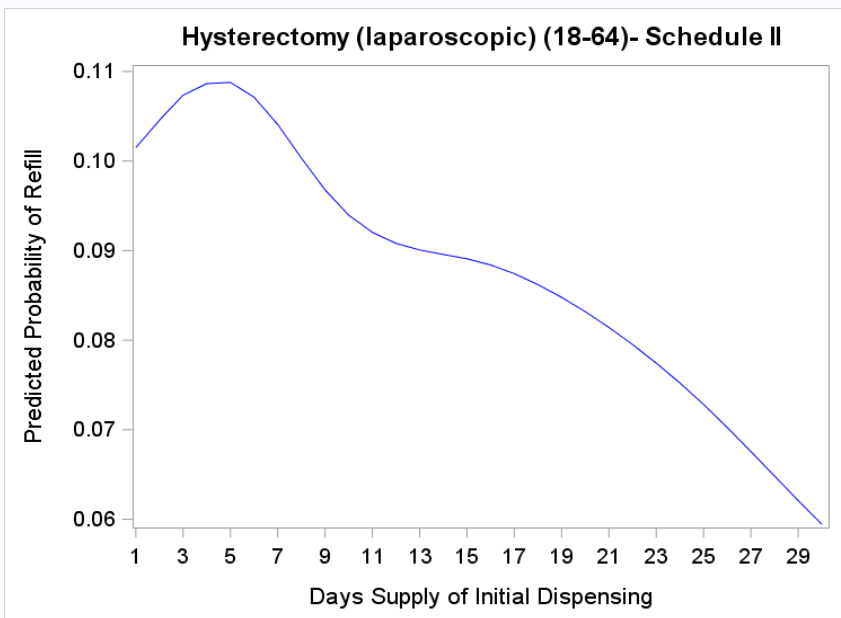
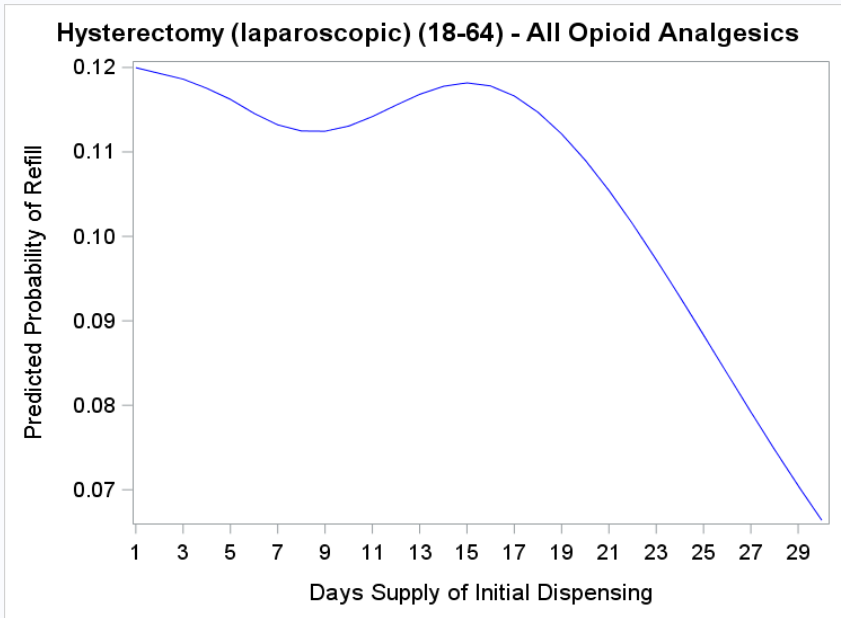


Figure 20. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

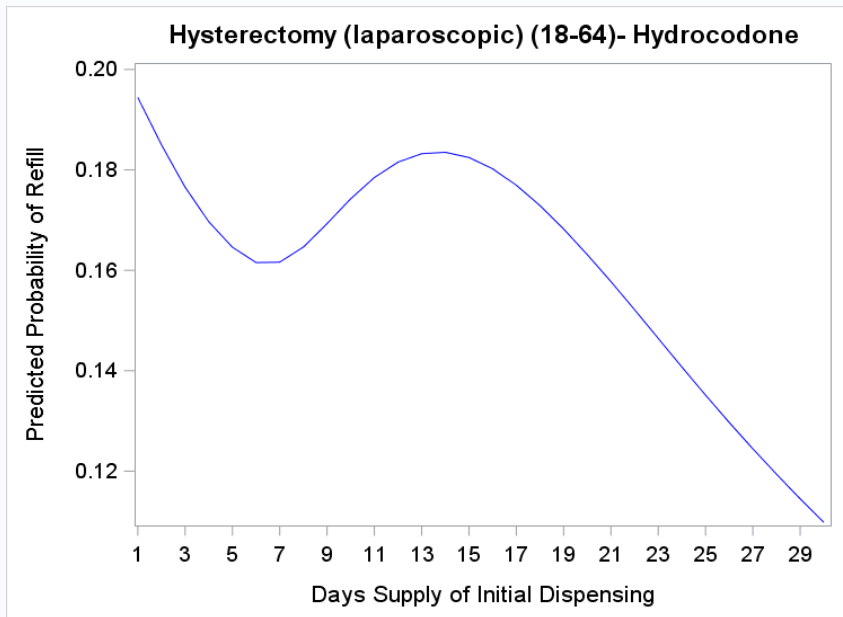
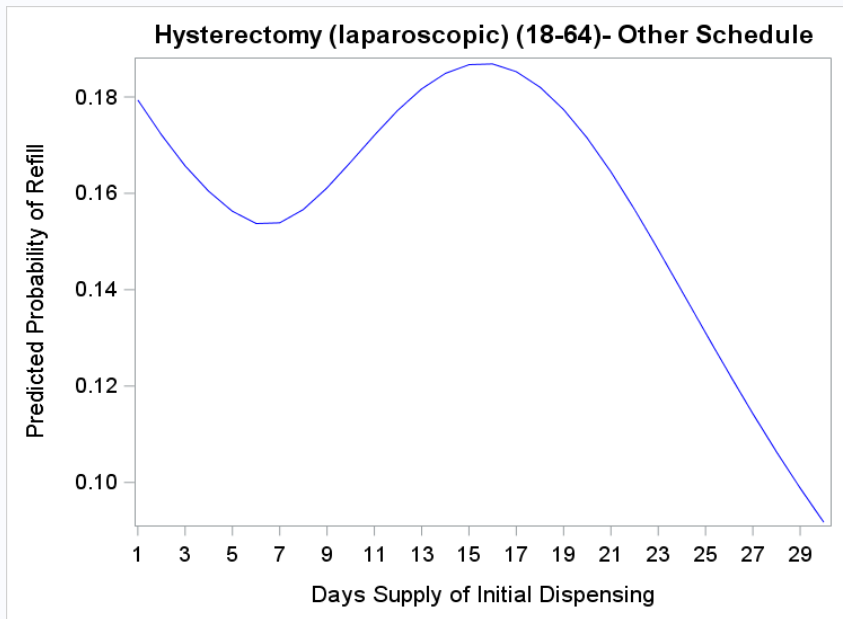


Figure 20. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

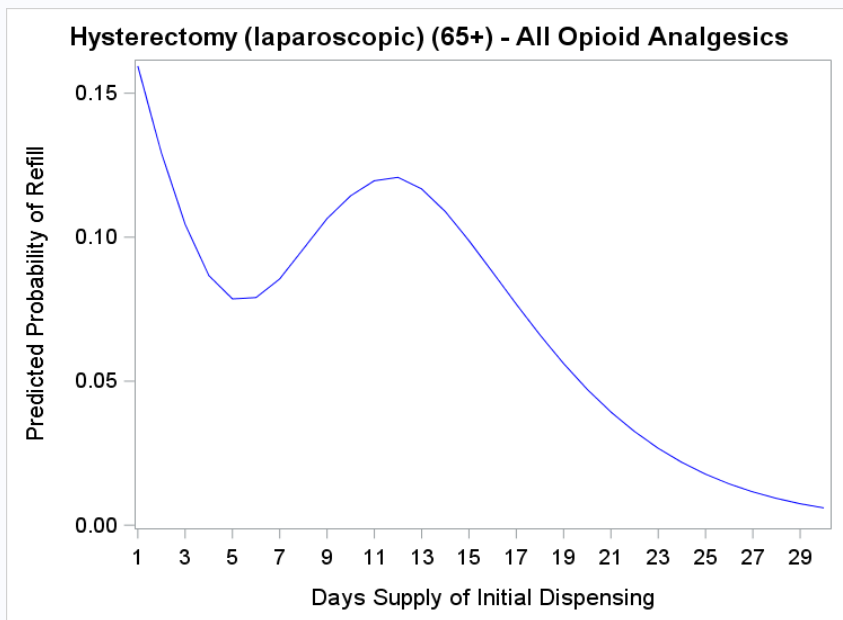
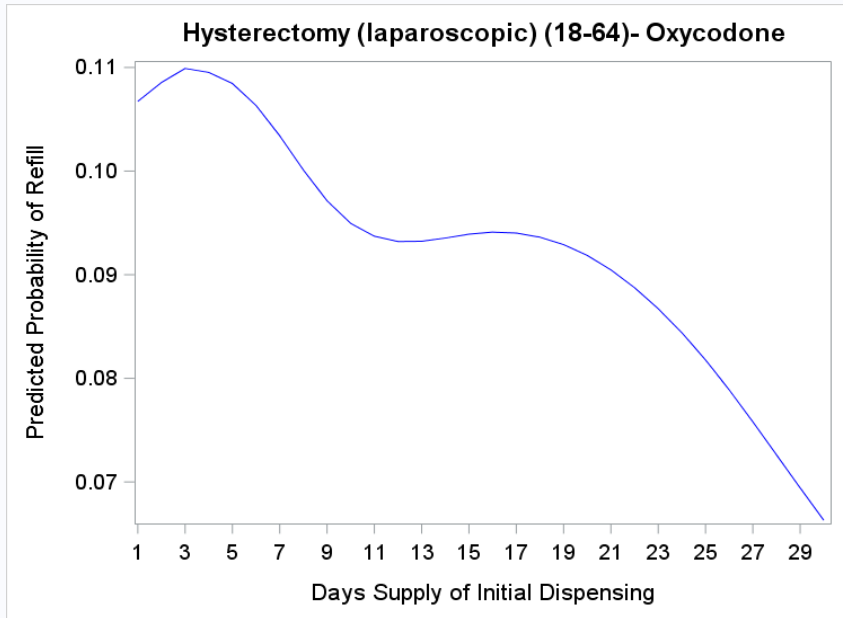


Figure 20. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

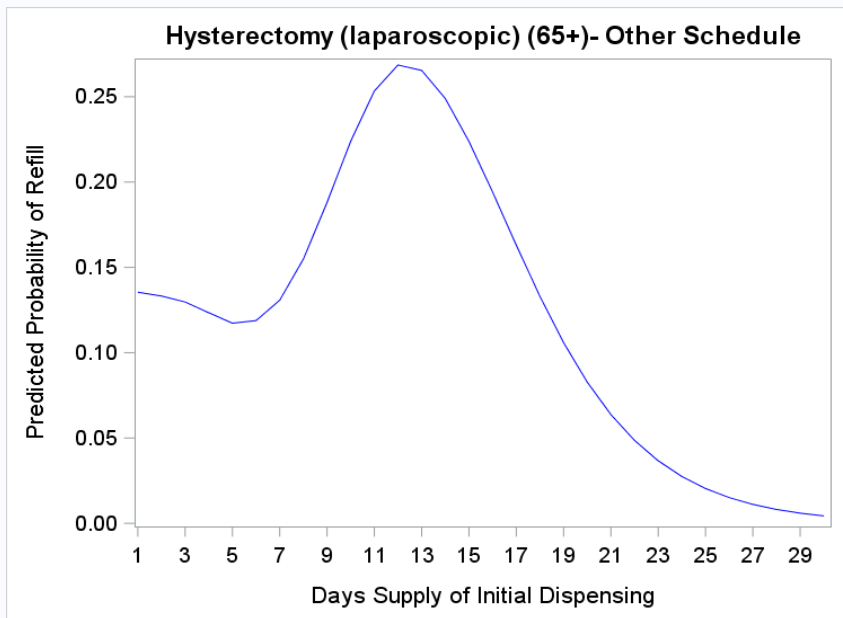
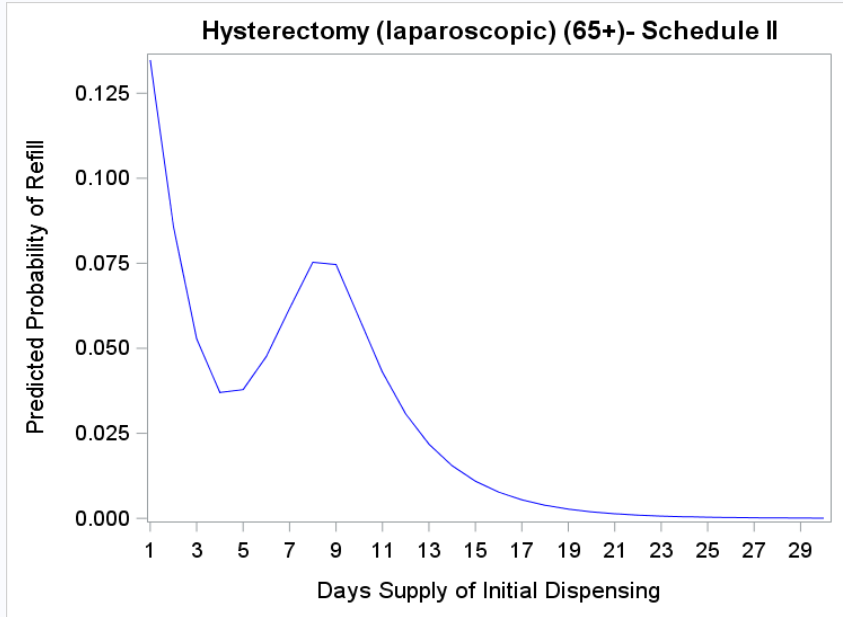


Figure 20. Graph of Refill Probability by Days Supply of Initial Dispensing for Laparoscopic Hysterectomy in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

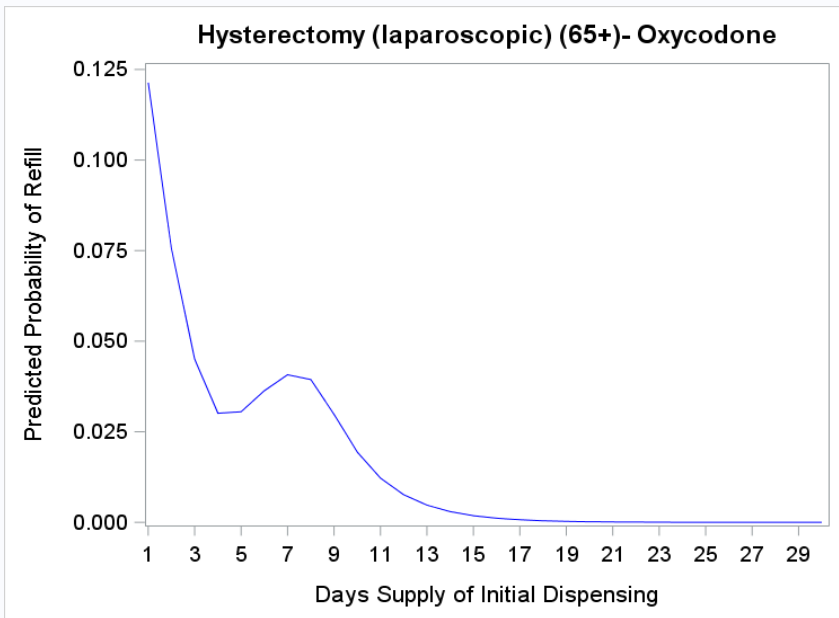
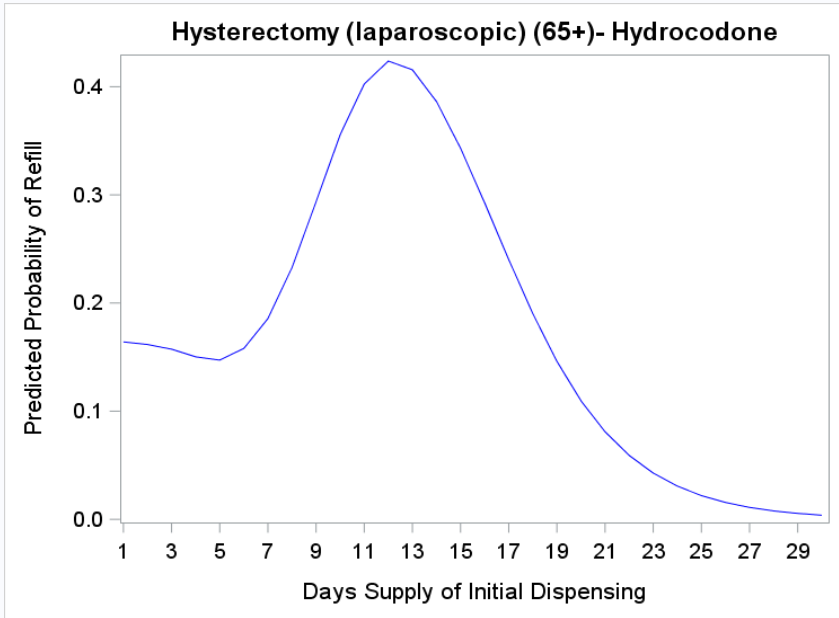


Figure 21. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

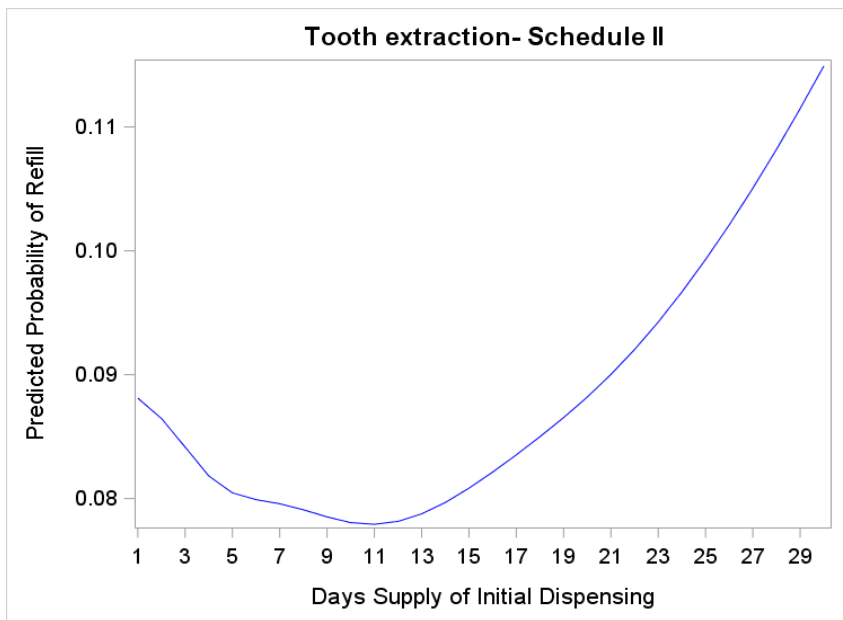
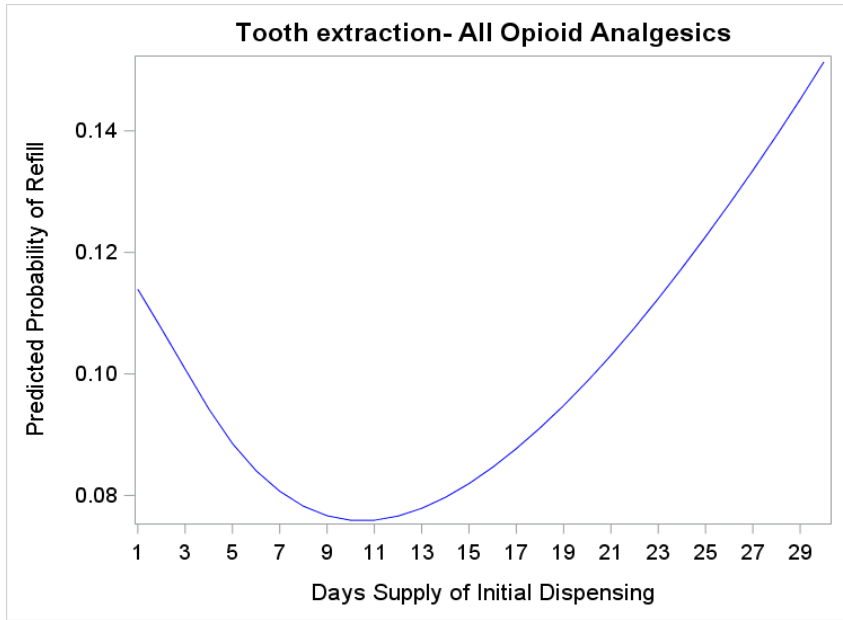


Figure 21. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

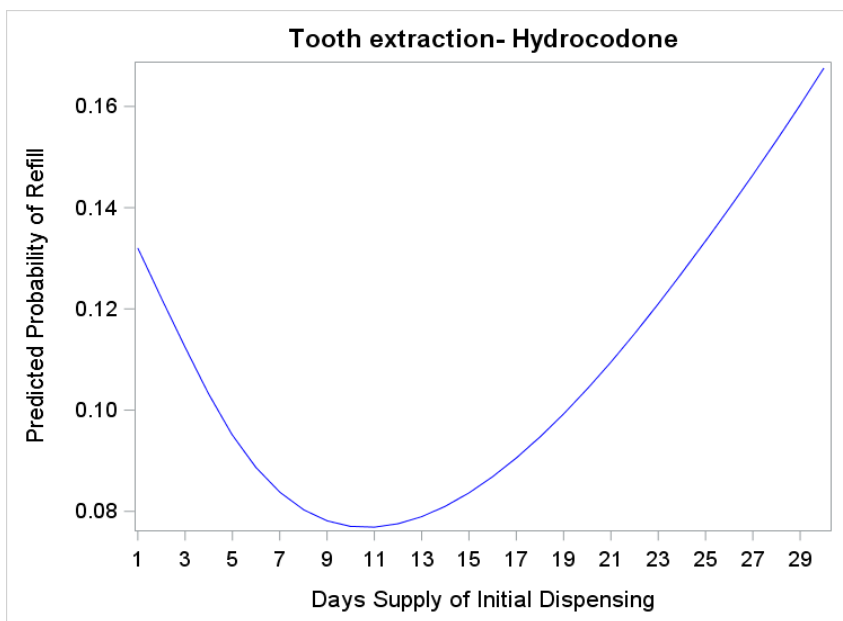
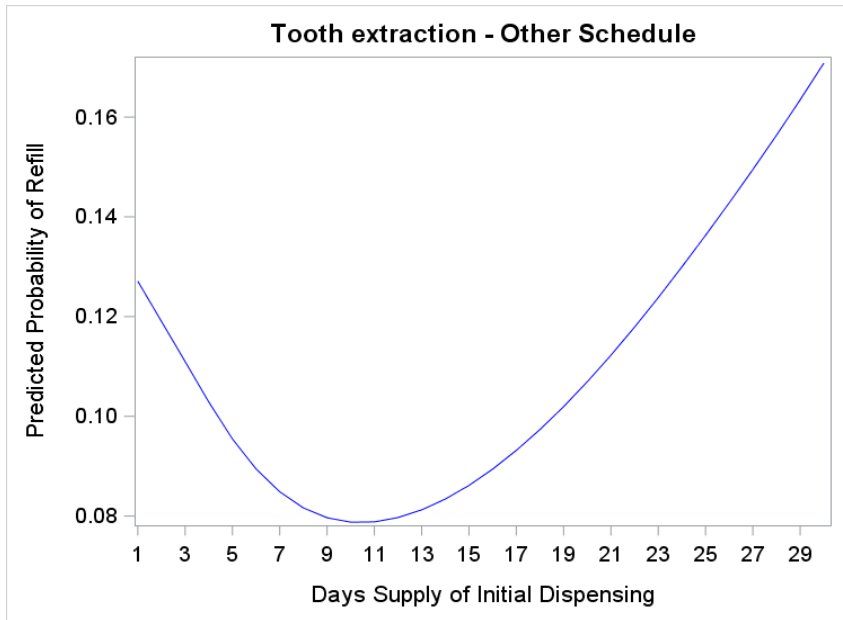


Figure 21. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014

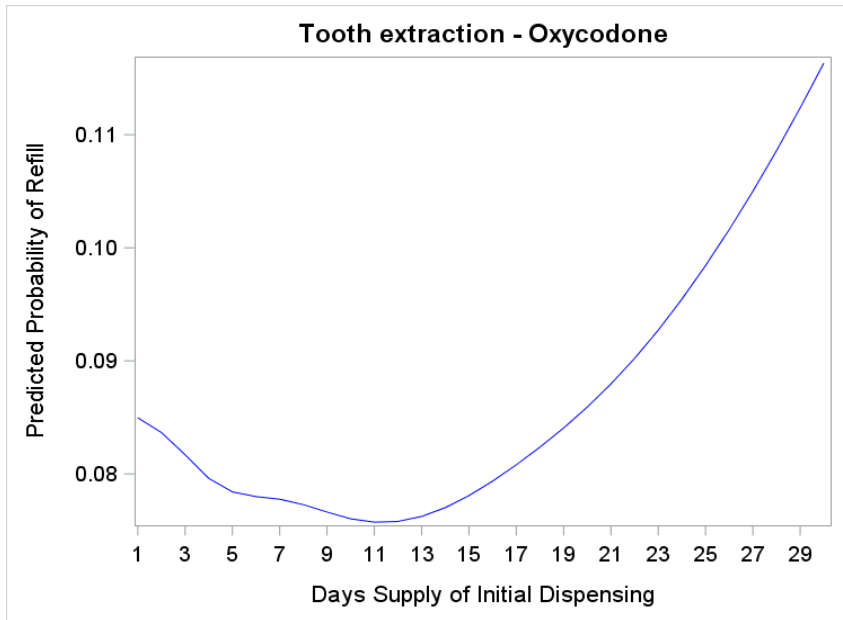


Figure 22. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

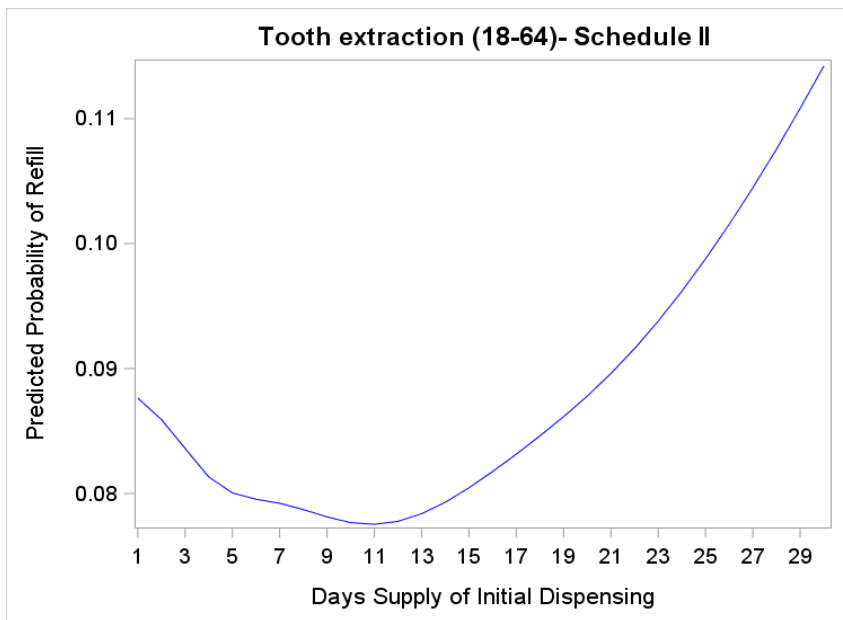
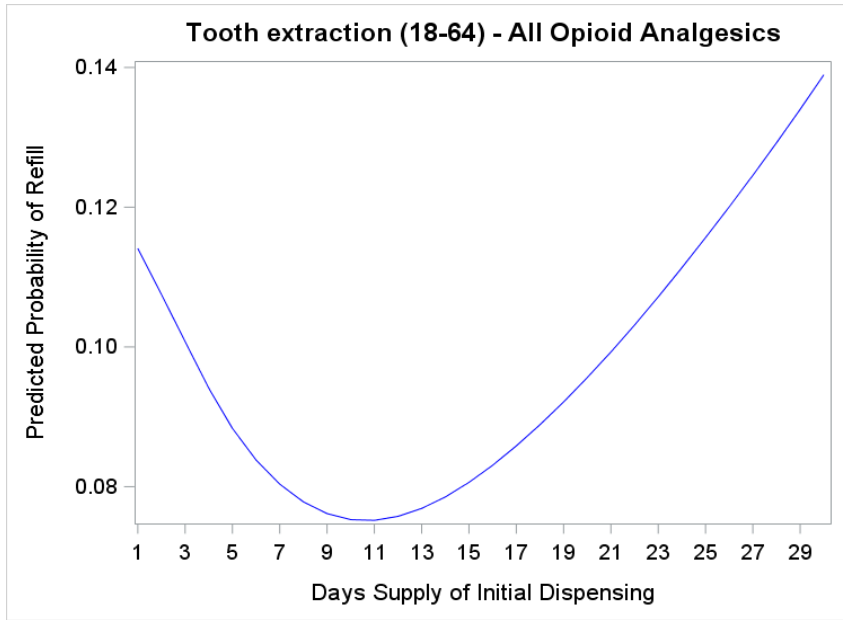


Figure 22. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

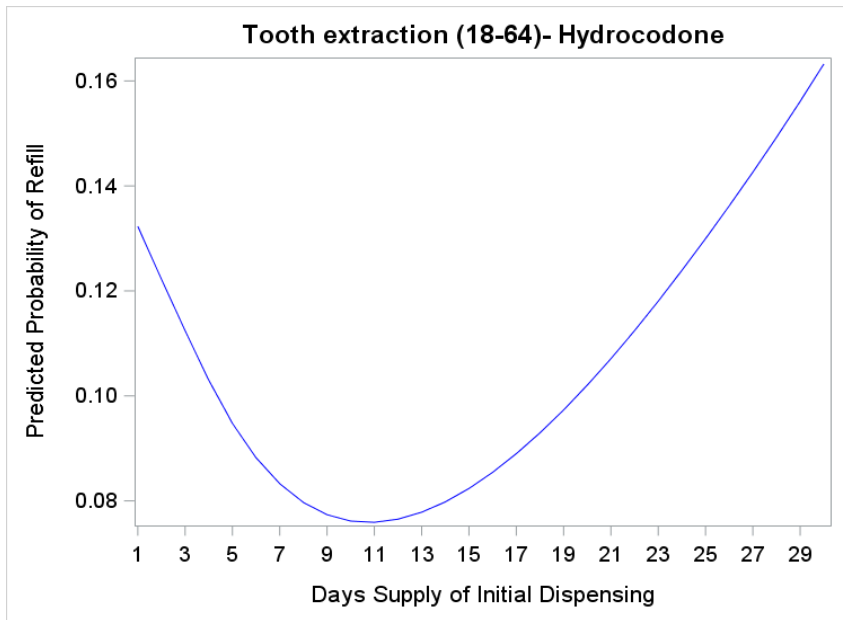
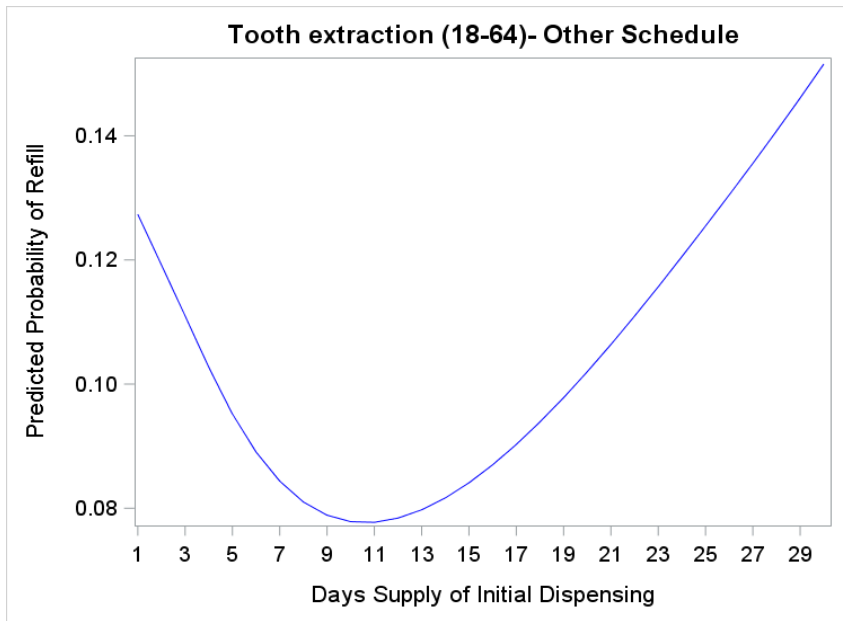


Figure 22. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

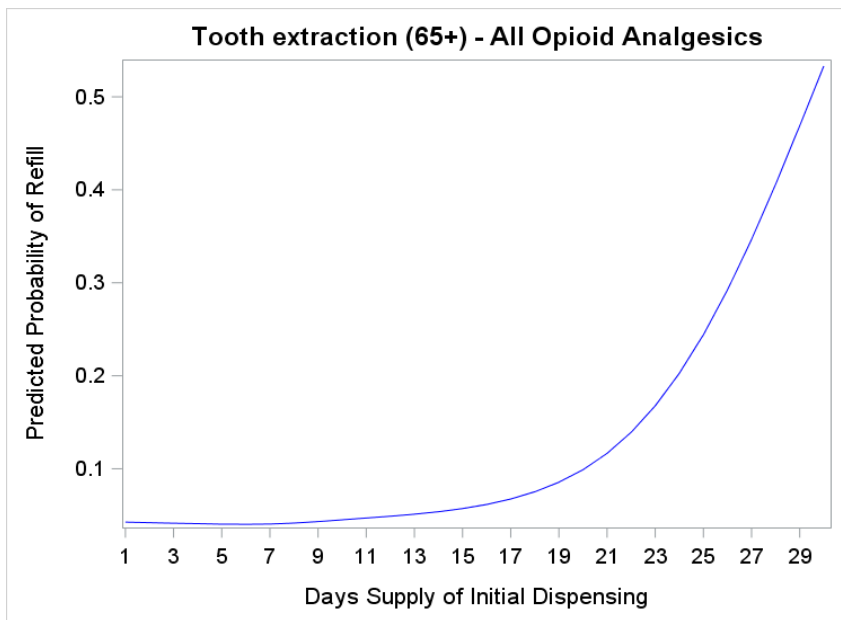
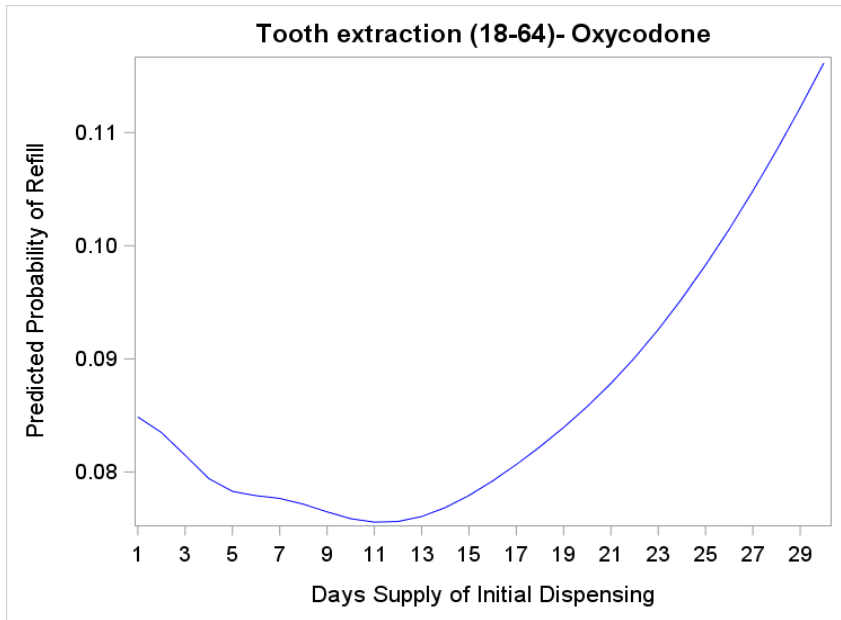


Figure 22. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group

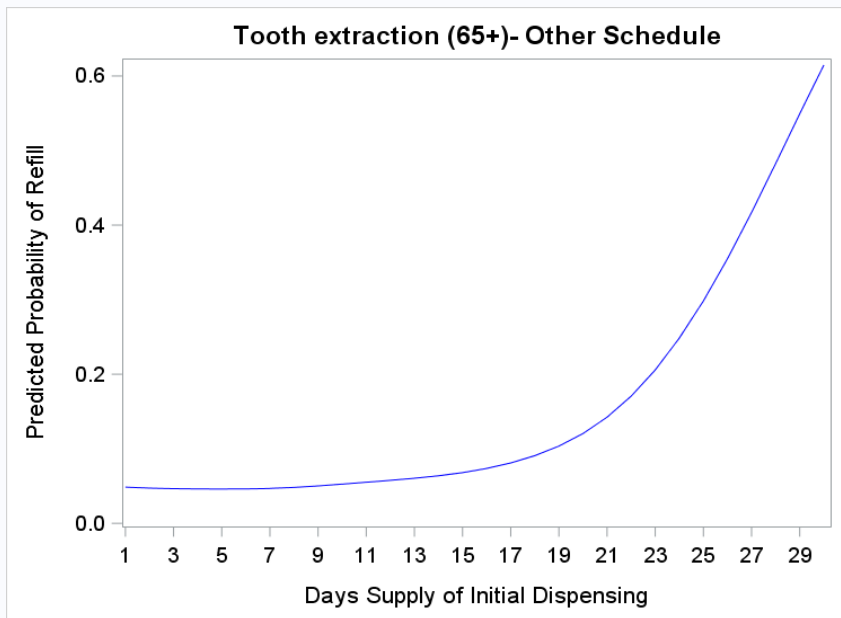
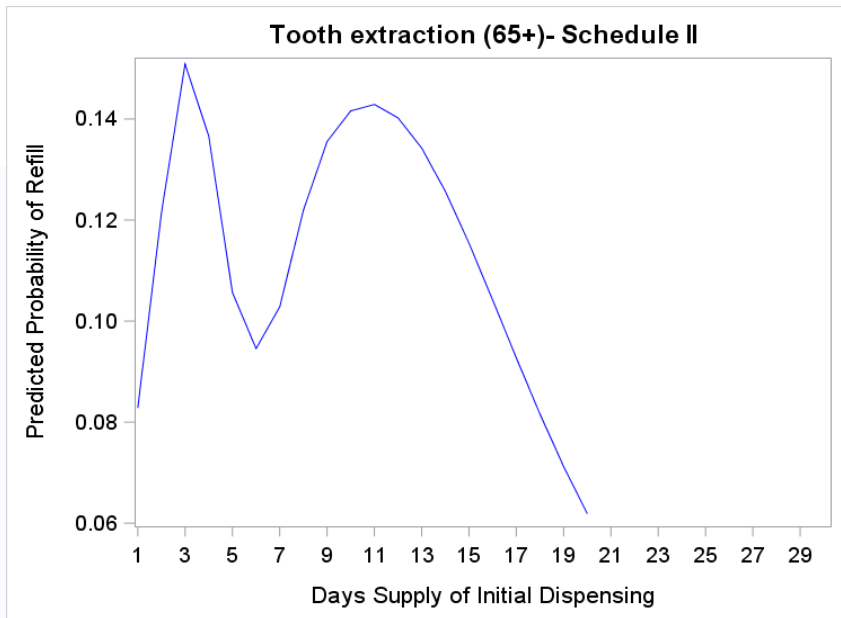
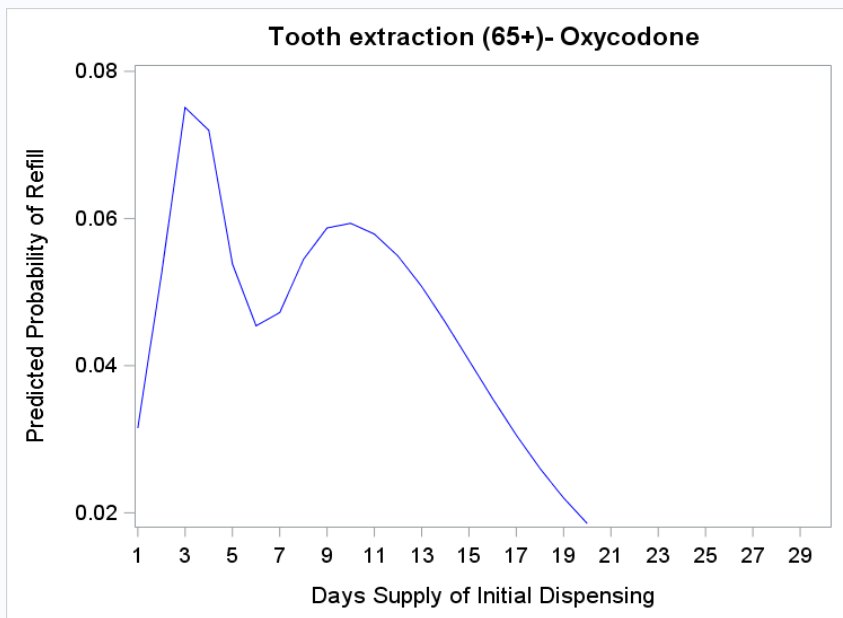
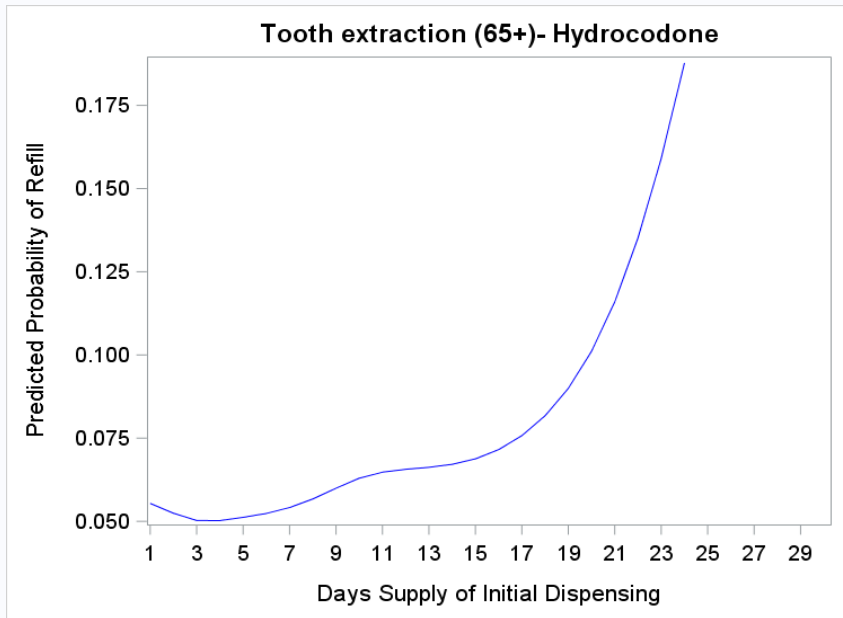


Figure 22. Graph of Refill Probability by Days Supply of Initial Dispensing for Tooth Extraction in the Sentinel Distributed Database (SDD) from October 5, 2009 to October 5, 2014, by Age Group



Appendix A. Dates of Available Data for Each Data Partner in the Sentinel Distributed Database (SDD) as of Request End Date (October 5, 2014)

Masked ID	DP Start Date	DP End Date
DP01	1/1/2008	10/05/2014
DP02	1/1/2012	10/05/2014
DP03	1/1/2006	10/05/2014
DP04	1/1/2004	10/05/2014
DP05	1/1/2000	10/05/2014
DP06	1/1/2000	10/05/2014
DP07	1/1/2000	10/05/2014
DP08	1/1/2000	10/05/2014
DP09	6/1/2007	10/05/2014
DP10	1/1/2000	10/05/2014
DP11	1/1/2000	10/05/2014
DP12	1/1/2005	10/05/2014
DP13	1/1/2000	10/05/2014
DP14	1/1/2000	10/05/2014
DP15	1/1/2008	10/05/2014

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
Hydromorphone					
HYDROMORPHONE HCL	hydromorphone	tablet	oral	4	mg
HYDROMORPHONE HCL	hydromorphone	tablet	oral	8	mg
HYDROMORPHONE HCL	hydromorphone	tablet	oral	2	mg
HYDROMORPHONE HCL	Dilaudid	tablet	oral	2	mg
HYDROMORPHONE HCL	Dilaudid	tablet	oral	4	mg
HYDROMORPHONE HCL	Dilaudid	tablet	oral	8	mg
HYDROMORPHONE HCL	hydromorphone	tablet extended release 24 hr	oral	8	mg
HYDROMORPHONE HCL	hydromorphone	tablet extended release 24 hr	oral	12	mg
HYDROMORPHONE HCL	hydromorphone	tablet extended release 24 hr	oral	16	mg
HYDROMORPHONE HCL	hydromorphone	tablet extended release 24 hr	oral	32	mg
HYDROMORPHONE HCL	Exalgo ER	tablet extended release 24 hr	oral	8	mg
HYDROMORPHONE HCL	Exalgo ER	tablet extended release 24 hr	oral	12	mg
HYDROMORPHONE HCL	Exalgo ER	tablet extended release 24 hr	oral	16	mg
HYDROMORPHONE HCL	Exalgo ER	tablet extended release 24 hr	oral	32	mg
Meperidine					
MEPERIDINE HCL	Demerol	tablet	oral	50	mg
MEPERIDINE HCL	Demerol	tablet	oral	100	mg
MEPERIDINE HCL	meperidine	tablet	oral	50	mg
MEPERIDINE HCL	meperidine	tablet	oral	100	mg
MEPERIDINE HCL/PROMETHAZINE HCL	Meprozone	capsule	oral	50-25	mg
MEPERIDINE HCL	Meperitab	tablet	oral	50	mg
MEPERIDINE HCL/PROMETHAZINE HCL	meperidine-promethazine	capsule	oral	50-25	mg
Morphine					
MORPHINE SULFATE	morphine	tablet	oral	15	mg
MORPHINE SULFATE	morphine	tablet	oral	30	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	20	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	30	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	50	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	60	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	80	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	100	mg
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	30	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	60	mg
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	90	mg
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	120	mg
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	45	mg
MORPHINE SULFATE	morphine	capsule, ER multiphase 24 hr	oral	75	mg
MORPHINE SULFATE	morphine	capsule,extend.release pellets	oral	10	mg
MORPHINE SULFATE	morphine	tablet extended release	oral	15	mg
MORPHINE SULFATE	morphine	tablet extended release	oral	30	mg
MORPHINE SULFATE	morphine	tablet extended release	oral	60	mg
MORPHINE SULFATE	morphine	tablet extended release	oral	100	mg
MORPHINE SULFATE	morphine	tablet extended release	oral	200	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	120	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	60	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	30	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	90	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	60	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	50	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	20	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	100	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	80	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	75	mg
MORPHINE SULFATE	Avinza	capsule, ER multiphase 24 hr	oral	45	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	10	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	30	mg
MORPHINE SULFATE	MS Contin	tablet extended release	oral	60	mg
MORPHINE SULFATE	MS Contin	tablet extended release	oral	15	mg
MORPHINE SULFATE	MS Contin	tablet extended release	oral	100	mg
MORPHINE SULFATE	MS Contin	tablet extended release	oral	200	mg
MORPHINE SULFATE	MS Contin	tablet extended release	oral	30	mg
MORPHINE SULFATE	Oramorph SR	tablet extended release	oral	15	mg
MORPHINE SULFATE	Oramorph SR	tablet extended release	oral	30	mg
MORPHINE SULFATE	Oramorph SR	tablet extended release	oral	60	mg
MORPHINE SULFATE	Oramorph SR	tablet extended release	oral	100	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	60-2.4	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	100-4	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	20-0.8	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	30-1.2	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	40	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	70	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	130	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	150	mg
MORPHINE SULFATE	Kadian	capsule,extend.release pellets	oral	200	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	20-0.8	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	30-1.2	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	50-2	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	50-2	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	60-2.4	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,extend.release pellets	oral	80-3.2	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	80-3.2	mg
MORPHINE SULFATE/NALTREXONE HCL	Embeda	capsule,oral only,ext.rel pell	oral	100-4	mg
MORPHINE SULFATE	MorphaBond ER	tablet,oral only,ext.rel.12 hr	oral	15	mg
MORPHINE SULFATE	MorphaBond ER	tablet,oral only,ext.rel.12 hr	oral	30	mg
MORPHINE SULFATE	MorphaBond ER	tablet,oral only,ext.rel.12 hr	oral	60	mg
MORPHINE SULFATE	MorphaBond ER	tablet,oral only,ext.rel.12 hr	oral	100	mg
MORPHINE SULFATE	Arymo ER	tablet,oral only,extnd release	oral	15	mg
MORPHINE SULFATE	Arymo ER	tablet,oral only,extnd release	oral	30	mg
MORPHINE SULFATE	Arymo ER	tablet,oral only,extnd release	oral	60	mg
Oxycodone					
OXYCODONE HCL/ACETAMINOPHEN	Tylox	capsule	oral	5-500	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	capsule	oral	5-500	mg
OXYCODONE HCL/ACETAMINOPHEN	Roxicet	tablet	oral	5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Roxicet	tablet	oral	5-500	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	10	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	20	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	40	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	80	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	15	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	30	mg
OXYCODONE HCL	oxycodone	tablet,oral only,ext.rel.12 hr	oral	60	mg
OXYCODONE HCL	oxycodone	tablet	oral	5	mg
OXYCODONE HCL	oxycodone	tablet	oral	15	mg
OXYCODONE HCL	oxycodone	tablet	oral	30	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	7.5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	10-325	mg
IBUPROFEN/OXYCODONE HCL	ibuprofen-oxycodone	tablet	oral	400-5	mg
OXYCODONE HCL/ASPIRIN	oxycodone-aspirin	tablet	oral	4.8355-325	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	2.5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	7.5-500	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	10-650	mg
OXYCODONE HCL	oxycodone	capsule	oral	5	mg
OXYCODONE HCL	oxycodone	tablet extended release 12 hr	oral	10	mg
OXYCODONE HCL	oxycodone	tablet extended release 12 hr	oral	20	mg
OXYCODONE HCL	oxycodone	tablet extended release 12 hr	oral	40	mg
OXYCODONE HCL	oxycodone	tablet extended release 12 hr	oral	80	mg
IBUPROFEN/OXYCODONE HCL	Combunox	tablet	oral	400-5	mg
OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN	oxycodone HCl-oxycodone-ASA	tablet	oral	4.5-0.38-325	mg
OXYCODONE HCL	oxycodone	tablet	oral	10	mg
OXYCODONE HCL	oxycodone	tablet	oral	20	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	40	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	40	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	20	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	80	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	10-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	10-650	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	30	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	30	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	10	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	60	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	60	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	7.5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Magnacet	tablet	oral	10-400	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	10-325	mg
OXYCODONE HCL/ASPIRIN	Endodan	tablet	oral	4.8355-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Xolox	tablet	oral	10-500	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	80	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	10-650	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	7.5-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	7.5-500	mg
OXYCODONE HCL/ACETAMINOPHEN	Xartemis XR	tab,oral only,IR - ER, biphasic	oral	7.5-325	mg
OXYCODONE HCL	Roxicodone	tablet	oral	5	mg
OXYCODONE HCL	Roxicodone	tablet	oral	15	mg
OXYCODONE HCL	Roxicodone	tablet	oral	30	mg
OXYCODONE HCL/ACETAMINOPHEN	Magnacet	tablet	oral	2.5-400	mg
OXYCODONE HCL/ACETAMINOPHEN	Magnacet	tablet	oral	5-400	mg
OXYCODONE HCL/ACETAMINOPHEN	Magnacet	tablet	oral	7.5-400	mg
OXYCODONE HCL/ACETAMINOPHEN	Primlev	tablet	oral	5-300	mg
OXYCODONE HCL/ACETAMINOPHEN	Primlev	tablet	oral	7.5-300	mg
OXYCODONE HCL/ACETAMINOPHEN	Primlev	tablet	oral	10-300	mg
OXYCODONE MYRISTATE	Xtampza ER	capsule,sprinkle,ER 12hr tmpr	oral	9	mg
OXYCODONE MYRISTATE	Xtampza ER	capsule,sprinkle,ER 12hr tmpr	oral	13.5	mg
OXYCODONE MYRISTATE	Xtampza ER	capsule,sprinkle,ER 12hr tmpr	oral	18	mg
OXYCODONE MYRISTATE	Xtampza ER	capsule,sprinkle,ER 12hr tmpr	oral	27	mg
OXYCODONE MYRISTATE	Xtampza ER	capsule,sprinkle,ER 12hr tmpr	oral	36	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	10	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	5-325	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	20	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	5-300	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	7.5-300	mg
OXYCODONE HCL/ACETAMINOPHEN	oxycodone-acetaminophen	tablet	oral	10-300	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	7.5-500	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
OXYCODONE HCL	OxyIR	capsule	oral	5	mg
OXYCODONE HCL	OxyContin	tablet,oral only,ext.rel.12 hr	oral	15	mg
OXYCODONE HCL	OxyContin	tablet extended release 12 hr	oral	15	mg
OXYCODONE HCL/ACETAMINOPHEN	Primalev	tablet	oral	2.5-300	mg
OXYCODONE HCL	Oxecta	tablet, oral only	oral	5	mg
OXYCODONE HCL	Oxecta	tablet, oral only	oral	7.5	mg
OXYCODONE HCL/ACETAMINOPHEN	Endocet	tablet	oral	2.5-325	mg
OXYCODONE HCL/ASPIRIN	Percodan	tablet	oral	4.8355-325	mg
OXYCODONE HCL/ACETAMINOPHEN	Percocet	tablet	oral	2.5-325	mg
OXYCODONE HCL	Dazidox	tablet	oral	10	mg
OXYCODONE HCL	Dazidox	tablet	oral	20	mg
OXYCODONE HCL/ACETAMINOPHEN	ALCET	tablet	oral	10-500	mg
OXYCODONE HCL	Oxaydo	tablet, oral only	oral	5	mg
OXYCODONE HCL	Oxaydo	tablet, oral only	oral	7.5	mg
Oxymorphone					
OXYMORPHONE HCL	oxymorphone	tablet	oral	5	mg
OXYMORPHONE HCL	oxymorphone	tablet	oral	10	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	5	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	10	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	20	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	40	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	7.5	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	15	mg
OXYMORPHONE HCL	oxymorphone	tablet extended release 12 hr	oral	30	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	20	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	40	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	30	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	10	mg
OXYMORPHONE HCL	Opana	tablet	oral	10	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	5	mg
OXYMORPHONE HCL	Opana	tablet	oral	5	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	15	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	40	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	30	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	10	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	20	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	5	mg
OXYMORPHONE HCL	Opana ER	tablet extended release 12 hr	oral	7.5	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	7.5	mg
OXYMORPHONE HCL	Opana ER	tablet,oral only,ext.rel.12 hr	oral	15	mg
Levorphanol					
LEVORPHANOL TARTRATE	levorphanol tartrate	tablet	oral	2	mg
LEVORPHANOL TARTRATE	Levo-Dromoran	tablet	oral	2	mg
Tapentadol					
TAPENTADOL HCL	Nucynta	tablet	oral	100	mg
TAPENTADOL HCL	Nucynta	tablet	oral	50	mg
TAPENTADOL HCL	Nucynta	tablet	oral	75	mg
TAPENTADOL HCL	Nucynta ER	tablet extended release 12 hr	oral	100	mg
TAPENTADOL HCL	Nucynta ER	tablet extended release 12 hr	oral	50	mg
TAPENTADOL HCL	Nucynta ER	tablet extended release 12 hr	oral	150	mg
TAPENTADOL HCL	Nucynta ER	tablet extended release 12 hr	oral	200	mg
TAPENTADOL HCL	Nucynta ER	tablet extended release 12 hr	oral	250	mg
Codeine					
ACETAMINOPHEN WITH CODEINE PHOSPHATE	Tylenol-Codeine #3	tablet	oral	300-30	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	Tylenol-Codeine #4	tablet	oral	300-60	mg
CODEINE SULFATE	codeine sulfate	tablet	oral	15	mg
CODEINE SULFATE	codeine sulfate	tablet	oral	30	mg
CODEINE SULFATE	codeine sulfate	tablet	oral	60	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	acetaminophen-codeine	tablet	oral	300-15	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	acetaminophen-codeine	tablet	oral	300-30	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	acetaminophen-codeine	tablet	oral	300-60	mg
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	butalbital-acetaminop-caf-cod	capsule	oral	50-325-40-30	mg
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	Phrenilin w/Caffeine-Codeine	capsule	oral	50-325-40-30	mg
ASPIRIN/CODEINE PHOSPHATE	Aspirin-Codeine #3	tablet	oral	325-30	mg
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	Fiorinal-Codeine #3	capsule	oral	30-50-325-40	mg
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	Fioricet with Codeine	capsule	oral	50-325-40-30	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	Butalbital Compound W/Codeine	capsule	oral	30-50-325-40	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Panlor DC	capsule	oral	356.4-30-16	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Panlor SS	tablet	oral	712.8-60-32	mg
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	butalbital-acetaminop-caf-cod	capsule	oral	50-300-40-30	mg
ASPIRIN/CODEINE PHOSPHATE	Aspirin-Codeine #4	tablet	oral	325-60	mg
ASPIRIN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Synalgos-DC	capsule	oral	356.4-30-16	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Trezix	capsule	oral	356.4-30-16	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	acetaminophen-caff-dihydrocod	tablet	oral	712.8-60-32	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Zerlor	tablet	oral	712.8-60-32	mg
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	Butalbital Compound-Codeine	capsule	oral	30-50-325-40	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	acetaminophen-caff-dihydrocod	capsule	oral	320.5-30-16	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	Cocet Plus	tablet	oral	650-60	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	Cocet	tablet	oral	650-30	mg
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	Ascomp with Codeine	capsule	oral	30-50-325-40	mg
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	Fioricet with Codeine	capsule	oral	50-300-40-30	mg
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	codeine-butalbital-ASA-caff	capsule	oral	30-50-325-40	mg
ASPIRIN/CAFFEINE/DIHYDROCODEINE BITARTRATE	aspirin-caffeine-dihydrocodein	capsule	oral	356.4-30-16	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	Trezix	capsule	oral	320.5-30-16	mg
ACETAMINOPHEN WITH CODEINE PHOSPHATE	Vopac	tablet	oral	650-30	mg
ACETAMINOPHEN/CAFFEINE/DIHYDROCODEINE BITARTRATE	acetaminophen-caff-dihydrocod	tablet	oral	325-30-16	mg
ASPIRIN/CODEINE PHOSPHATE	aspirin-codeine	tablet	oral	325-30	mg
Hydrocodone					
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin	tablet	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin ES	tablet	oral	7.5-750	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin HP	tablet	oral	10-660	mg
HYDROCODONE/IBUPROFEN	Vicoprofen	tablet	oral	7.5-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin	tablet	oral	5-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin ES	tablet	oral	7.5-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Vicodin HP	tablet	oral	10-300	mg
HYDROCODONE/IBUPROFEN	hydrocodone-ibuprofen	tablet	oral	7.5-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Co-Gesic	tablet	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-325	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	7.5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	7.5-750	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-650	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	7.5-650	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab	tablet	oral	7.5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	7.5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-660	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-750	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	5-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	7.5-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	10-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	capsule	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Hydrogesic	capsule	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	2.5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	hydrocodone-acetaminophen	tablet	oral	2.5-325	mg
HYDROCODONE/IBUPROFEN	hydrocodone-ibuprofen	tablet	oral	5-200	mg
HYDROCODONE/IBUPROFEN	hydrocodone-ibuprofen	tablet	oral	10-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Margesic-H	capsule	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lorcet Plus	tablet	oral	7.5-650	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lorcet 10/650	tablet	oral	10-650	mg
HYDROCODONE/IBUPROFEN	Reprexain	tablet	oral	5-200	mg
HYDROCODONE/IBUPROFEN	Reprexain	tablet	oral	7.5-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Dolorex Forte	capsule	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab	tablet	oral	10-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Xodol 10/300	tablet	oral	10-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Xodol 5/300	tablet	oral	5-300	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Xodol 7.5/300	tablet	oral	7.5-300	mg
HYDROCODONE/IBUPROFEN	Reprexain	tablet	oral	2.5-200	mg
HYDROCODONE/IBUPROFEN	Reprexain	tablet	oral	10-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Norco	tablet	oral	7.5-325	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	10	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	15	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	20	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	30	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	40	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule,extended release 12 hr	oral	50	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	10	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	15	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	20	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	30	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	40	mg
HYDROCODONE BITARTRATE	Zohydro ER	capsule, oral only, ER 12hr	oral	50	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Norco	tablet	oral	10-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab	tablet	oral	5-500	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab 5-325	tablet	oral	5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab 7.5-325	tablet	oral	7.5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lortab 10-325	tablet	oral	10-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Polygesic	capsule	oral	5-500	mg
HYDROCODONE/IBUPROFEN	Ibudone	tablet	oral	5-200	mg
HYDROCODONE/IBUPROFEN	Ibudone	tablet	oral	10-200	mg
HYDROCODONE/IBUPROFEN	Xylon 10	tablet	oral	10-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lorcet (hydrocodone)	tablet	oral	5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lorcet Plus	tablet	oral	7.5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Lorcet HD	tablet	oral	10-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Norco	tablet	oral	5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Maxidone	tablet	oral	10-750	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Zydone	tablet	oral	7.5-400	mg
HYDROCODONE/IBUPROFEN	hydrocodone-ibuprofen	tablet	oral	2.5-200	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Zydone	tablet	oral	10-400	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Zydone	tablet	oral	5-400	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Anexsia	tablet	oral	7.5-650	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Stagesic	capsule	oral	5-500	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	20	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	30	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	40	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	60	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	80	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	100	mg
HYDROCODONE BITARTRATE	Hysingla ER	tablet,oral only,ext.rel.24 hr	oral	120	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN	Verdrocet	tablet	oral	2.5-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY SUPPLEMENT #11	Theracodophen-325	combo pack	oral	10-325	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY SUPPLEMENT #11	Theracodophen-650	combo pack	oral	10-650	mg
HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY SUPPLEMENT #11	Theracodophen-Low-90	combo pack	oral	5-500	mg
Pentazocine					
PENTAZOCINE HCL/ACETAMINOPHEN	Talacen	tablet	oral	25-650	mg
PENTAZOCINE HCL/NALOXONE HCL	Talwin NX	tablet	oral	50-0.5	mg
PENTAZOCINE HCL/NALOXONE HCL	pentazocine-naloxone	tablet	oral	50-0.5	mg
PENTAZOCINE HCL/ACETAMINOPHEN	pentazocine-acetaminophen	tablet	oral	25-650	mg
Propoxyphene					
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	propoxyphene N-acetaminophen	tablet	oral	100-650	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	Darvocet-N 100	tablet	oral	100-650	mg
PROPOXYPHENE HCL/ACETAMINOPHEN	propoxyphene-acetaminophen	tablet	oral	65-650	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	propoxyphene N-acetaminophen	tablet	oral	50-325	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	Balacet 325	tablet	oral	100-325	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	propoxyphene N-acetaminophen	tablet	oral	100-325	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	propoxyphene N-acetaminophen	tablet	oral	100-500	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	Darvocet A500	tablet	oral	100-500	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	Propoxacet-N 100	tablet	oral	100-650	mg
PROPOXYPHENE NAPSYLATE	Darvon-N	tablet	oral	100	mg
PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN	Darvocet-N 50	tablet	oral	50-325	mg
Tramadol					
TRAMADOL HCL/ACETAMINOPHEN	Ultracet	tablet	oral	37.5-325	mg
TRAMADOL HCL	Ultram	tablet	oral	50	mg
TRAMADOL HCL	Ultram ER	tablet extended release 24 hr	oral	100	mg
TRAMADOL HCL	Ultram ER	tablet extended release 24 hr	oral	200	mg
TRAMADOL HCL	Ultram ER	tablet extended release 24 hr	oral	300	mg
TRAMADOL HCL	tramadol	tablet	oral	50	mg

Appendix B. List of Generic and Brand Names of Products Used to Define Exposures in this Request

Generic Name	Brand Name	Form	Route	Strength	Unit
TRAMADOL HCL/ACETAMINOPHEN	tramadol-acetaminophen	tablet	oral	37.5-325	mg
TRAMADOL HCL	tramadol	tablet extended release 24 hr	oral	100	mg
TRAMADOL HCL	tramadol	tablet extended release 24 hr	oral	200	mg
TRAMADOL HCL	tramadol	tablet extended release 24 hr	oral	300	mg
TRAMADOL HCL	tramadol	tablet, ER multiphase 24 hr	oral	100	mg
TRAMADOL HCL	tramadol	tablet, ER multiphase 24 hr	oral	200	mg
TRAMADOL HCL	tramadol	tablet, ER multiphase 24 hr	oral	300	mg
TRAMADOL HCL	tramadol	capsule,ER biphasic 24 hr 25-75	oral	100	mg
TRAMADOL HCL	tramadol	capsule,ER biphasic 24 hr 25-75	oral	200	mg
TRAMADOL HCL	tramadol	capsule,ER biphasic 24 hr 17-83	oral	300	mg
TRAMADOL HCL	Ryzolt	tablet, ER multiphase 24 hr	oral	100	mg
TRAMADOL HCL	Ryzolt	tablet, ER multiphase 24 hr	oral	300	mg
TRAMADOL HCL	tramadol	capsule,ER biphasic 24 hr 25-75	oral	150	mg
TRAMADOL HCL	Ryzolt	tablet, ER multiphase 24 hr	oral	200	mg
TRAMADOL HCL	ConZip	capsule,ER biphasic 24 hr 25-75	oral	200	mg
TRAMADOL HCL	Rybix ODT	tablet,disintegrating	oral	50	mg
TRAMADOL HCL	ConZip	capsule,ER biphasic 24 hr 25-75	oral	100	mg
TRAMADOL HCL	ConZip	capsule,ER biphasic 24 hr 17-83	oral	300	mg
TRAMADOL HCL/DIETARY SUPPLEMENT,MISC. CB.11	Theratramadol-60	combo pack	oral	50	mg
TRAMADOL HCL/DIETARY SUPPLEMENT,MISC. CB.11	Theratramadol-90	combo pack	oral	50	mg

Appendix C. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type
Appendectomy (nonspecific)		
47.0	Appendectomy	ICD-9-CM
47.09	Other appendectomy	ICD-9-CM
47.1	Incidental appendectomy	ICD-9-CM
47.19	Other incidental appendectomy	ICD-9-CM
44950	Appendectomy;	CPT-4
44955	Appendectomy; when done for indicated purpose at time of other major procedure (not as separate procedure) (List separately in addition to code for primary procedure)	CPT-4
44960	Appendectomy; for ruptured appendix with abscess or generalized peritonitis	CPT-4
Appendectomy (laparoscopic)		
47.01	Laparoscopic appendectomy	ICD-9-CM
47.11	Laparoscopic incidental appendectomy	ICD-9-CM
44970	Laparoscopy, surgical, appendectomy	CPT-4
49315	LAPAROSCOPY SURGICAL APPENDECTOMY	CPT-4
56315	LAP SURG; APPENDECTOMY	CPT-4
Bunionectomy		
28297	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with first metatarsal and medial cuneiform joint arthrodesis, any method	CPT-4
28299	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with double osteotomy, any method	CPT-4
28296	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with distal metatarsal osteotomy, any method	CPT-4
28295	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with proximal metatarsal osteotomy, any method	CPT-4
28298	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with proximal phalanx osteotomy, any method	CPT-4
28292	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with resection of proximal phalanx base, when performed, any method	CPT-4
28293	Correction, hallux valgus (bunion), with or without sesamoidectomy; resection of joint with implant	CPT-4
28290	Correction, hallux valgus (bunion), with or without sesamoidectomy; simple exostectomy (eg, Silver type procedure)	CPT-4
28294	Correction, hallux valgus (bunion), with or without sesamoidectomy; with tendon transplants (eg, Joplin type procedure)	CPT-4
28291	Hallux rigidus correction with cheilectomy, debridement and capsular release of the first metatarsophalangeal joint; with implant	CPT-4
28289	Hallux rigidus correction with cheilectomy, debridement and capsular release of the first metatarsophalangeal joint; without implant	CPT-4
28110	Ostectomy, partial excision, fifth metatarsal head (bunionette) (separate procedure)	CPT-4
77.51	Bunionectomy with soft tissue correction and osteotomy of the first metatarsal	ICD-9-CM
77.52	Bunionectomy with soft tissue correction and arthrodesis	ICD-9-CM
77.54	Excision or correction of bunionette	ICD-9-CM
77.59	Other bunionectomy	ICD-9-CM
77.53	Other bunionectomy with soft tissue correction	ICD-9-CM
77.58	Other excision, fusion, and repair of toes	ICD-9-CM
77.57	Repair of claw toe	ICD-9-CM
77.56	Repair of hammer toe	ICD-9-CM

Appendix C. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type
Cesarean Section		
74.0	Classical cesarean section	ICD-9-CM
74	Cesarean section and removal of fetus	ICD-9-CM
74.1	Low cervical cesarean section	ICD-9-CM
74.2	Extraperitoneal cesarean section	ICD-9-CM
74.4	Cesarean section of other specified type	ICD-9-CM
74.9	Cesarean section of unspecified type	ICD-9-CM
74.99	Other cesarean section of unspecified type	ICD-9-CM
59500	Cesarean Section, Low Cervical, Including In-hospital	CPT-4
59501	Cesarean Section, Low Cervical, Including In-hospital	CPT-4
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care	CPT-4
59514	Cesarean delivery only;	CPT-4
59515	Cesarean delivery only; including postpartum care	CPT-4
59521	Cesarean Section, Classic, Including In-hospital	CPT-4
59540	Cesarean Section, Extraperitoneal, Including In-hospital	CPT-4
59541	Cesarean Section, Extraperitoneal, Including In-hospital	CPT-4
59560	Cesarean Section With Hysterectomy, Subtotal, Including	CPT-4
59561	Cesarean Section With Hysterectomy, Subtotal, Including	CPT-4
59580	Cesarean Section With Hysterectomy, Total, Including	CPT-4
59581	Cesarean Section With Hysterectomy, Total, Including	CPT-4
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	CPT-4
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	CPT-4
Cholecystectomy (laparoscopic)		
51.23	Laparoscopic cholecystectomy	ICD-9-CM
51.24	Laparoscopic partial cholecystectomy	ICD-9-CM
47562	Laparoscopy, surgical; cholecystectomy	CPT-4
47563	Laparoscopy, surgical; cholecystectomy with cholangiography	CPT-4
47564	Laparoscopy, surgical; cholecystectomy with exploration of common duct	CPT-4
47579	Unlisted laparoscopy procedure, biliary tract	CPT-4
49310	LAPAROSCOPY, SURG.;CHOLECYSTECTOMY	CPT-4
56340	Laparoscopy, surgical; cholecystectomy (any method)	CPT-4
56341	Laparoscopy, surgical; cholecystectomy with cholangiography	CPT-4
56342	Laparoscopy, surgical; cholecystectomy with exploration of common duct	CPT-4
Cholecystectomy (open)		
51.21	Other partial cholecystectomy	ICD-9-CM
51.22	Cholecystectomy	ICD-9-CM
47600	Cholecystectomy;	CPT-4
47605	Cholecystectomy; with cholangiography	CPT-4
47610	Cholecystectomy with exploration of common duct;	CPT-4
47612	Cholecystectomy with exploration of common duct; with choledochoenterostomy	CPT-4
47620	Cholecystectomy with exploration of common duct; with transduodenal sphincterotomy or sphincteroplasty, with or without cholangiography	CPT-4
Coronary Artery Bypass Graft		
33517	Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	CPT-4

Appendix C. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	CPT-4
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	CPT-4
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	CPT-4
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	CPT-4
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	CPT-4
33510	Coronary artery bypass, vein only; single coronary venous graft	CPT-4
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	CPT-4
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	CPT-4
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	CPT-4
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	CPT-4
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	CPT-4
36.14	(Aorto)coronary bypass of four or more coronary arteries	ICD-9-CM
36.11	(Aorto)coronary bypass of one coronary artery	ICD-9-CM
36.12	(Aorto)coronary bypass of two coronary arteries	ICD-9-CM
36.13	(Aorto)coronary bypass of three coronary arteries	ICD-9-CM
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	ICD-9-CM
36.16	Double internal mammary-coronary artery bypass	ICD-9-CM
36.2	Heart revascularization by arterial implant	ICD-9-CM
36.31	Open chest transmyocardial revascularization	ICD-9-CM
36.19	Other bypass anastomosis for heart revascularization	ICD-9-CM
36.3	Other heart revascularization	ICD-9-CM
36.32	Other transmyocardial revascularization	ICD-9-CM
36.15	Single internal mammary-coronary artery bypass	ICD-9-CM
4110F	Internal mammary artery graft performed for primary, isolated coronary artery bypass graft procedure (CABG)	CPT-2
33520	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Single Graft	CPT-4
33525	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Two Coronary Grafts	CPT-4
33528	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Three Or More Coronary Grafts	CPT-4
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	CPT-4
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	CPT-4
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	CPT-4
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	CPT-4
Hip Replacement		
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	CPT-4
27125	Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)	CPT-4
00.76	Hip bearing surface, ceramic-on-ceramic	ICD-9-CM
00.77	Hip bearing surface, ceramic-on-polyethylene	ICD-9-CM
00.75	Hip bearing surface, metal-on-metal	ICD-9-CM
00.74	Hip bearing surface, metal-on-polyethylene	ICD-9-CM

Appendix C. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type
81.52	Partial hip replacement	ICD-9-CM
00.87	Resurfacing hip, partial, acetabulum	ICD-9-CM
00.86	Resurfacing hip, partial, femoral head	ICD-9-CM
00.85	Resurfacing hip, total, acetabulum and femoral head	ICD-9-CM
81.51	Total hip replacement	ICD-9-CM
27126	Partial Hip Replacement (hemiarthroplasty); Cup	CPT-4
27127	Partial Hip Replacement (hemiarthroplasty); Cup With Acetabuloplasty	CPT-4
Hysterectomy (abdominal/vaginal non-laparoscopic)		
68.39	Other and unspecified subtotal abdominal hysterectomy	ICD-9-CM
68.49	Other and unspecified total abdominal hysterectomy	ICD-9-CM
68.59	Other and unspecified vaginal hysterectomy	ICD-9-CM
68.69	Other and unspecified radical abdominal hysterectomy	ICD-9-CM
68.79	Other and unspecified radical vaginal hysterectomy	ICD-9-CM
68.9	Other and unspecified hysterectomy	ICD-9-CM
58150	Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s);	CPT-4
58152	Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s); with colpo-urethrocytopexy (eg, Marshall-Marchetti-Krantz, Burch)	CPT-4
58180	Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)	CPT-4
58200	Total abdominal hysterectomy, including partial vaginectomy, with para-aortic and pelvic lymph node sampling, with or without removal of tube(s), with or without removal of ovary(s)	CPT-4
58210	Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with or without removal of tube(s), with or without removal of ovary(s)	CPT-4
58260	Vaginal hysterectomy, for uterus 250 g or less;	CPT-4
58262	Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s)	CPT-4
58263	Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s), with repair of enterocele	CPT-4
58267	Vaginal hysterectomy, for uterus 250 g or less; with colpo-urethrocytopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control	CPT-4
58270	Vaginal hysterectomy, for uterus 250 g or less; with repair of enterocele	CPT-4
58275	Vaginal hysterectomy, with total or partial vaginectomy;	CPT-4
58280	Vaginal hysterectomy, with total or partial vaginectomy; with repair of enterocele	CPT-4
58285	Vaginal hysterectomy, radical (Schauta type operation)	CPT-4
58290	Vaginal hysterectomy, for uterus greater than 250 g;	CPT-4
58291	Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	CPT-4
58292	Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s), with repair of enterocele	CPT-4
58293	Vaginal hysterectomy, for uterus greater than 250 g; with colpo-urethrocytopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control	CPT-4
58294	Vaginal hysterectomy, for uterus greater than 250 g; with repair of enterocele	CPT-4
Hysterectomy (laparoscopic)		
68.31	Laparoscopic supracervical hysterectomy [LSH]	ICD-9-CM
68.41	Laparoscopic total abdominal hysterectomy	ICD-9-CM
68.5	Vaginal hysterectomy	ICD-9-CM
68.51	Laparoscopically assisted vaginal hysterectomy (LAVH)	ICD-9-CM

Appendix C. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Fourth Revision (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type
68.61	Laparoscopic radical abdominal hysterectomy	ICD-9-CM
68.71	Laparoscopic radical vaginal hysterectomy [LRVH]	ICD-9-CM
58541	Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less;	CPT-4
58542	Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	CPT-4
58543	Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g;	CPT-4
58544	Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	CPT-4
58545	Laparoscopy, surgical, myomectomy, excision; 1 to 4 intramural myomas with total weight of 250 g or less and/or removal of surface myomas	CPT-4
58546	Laparoscopy, surgical, myomectomy, excision; 5 or more intramural myomas and/or intramural myomas with total weight greater than 250 g	CPT-4
58548	Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with removal of tube(s) and ovary(s), if performed	CPT-4
58550	Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less;	CPT-4
58552	Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	CPT-4
58553	Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g;	CPT-4
58554	Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	CPT-4
58570	Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less;	CPT-4
58571	Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	CPT-4
58572	Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g;	CPT-4
58573	Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	CPT-4
58578	Unlisted laparoscopy procedure, uterus	CPT-4
S2078	Laparoscopic supracervical hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)	HCPCS

Tooth Extraction

D7210	extraction, erupted tooth requiring removal of bone and/or sectioning of tooth, and including elevation of mucoperiosteal flap if indicated	HCPCS
D7140	extraction, erupted tooth or exposed root (elevation and/or forceps removal)	HCPCS
D7240	removal of impacted tooth - completely bony	HCPCS
D7230	removal of impacted tooth - partially bony	HCPCS
D7220	removal of impacted tooth - soft tissue	HCPCS
23.01	Extraction of deciduous tooth	ICD-9-CM
23.09	Extraction of other tooth	ICD-9-CM
23.0	Forceps extraction of tooth	ICD-9-CM
23.19	Other surgical extraction of tooth	ICD-9-CM
23.11	Removal of residual root	ICD-9-CM
23.1	Surgical removal of tooth	ICD-9-CM

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
Cancer		
140	MALIGNANT NEOPLASM OF LIP	ICD-9-CM Diagnosis
140.0	MAL NEOPLSM UP LIP VERMILION BORDR	ICD-9-CM Diagnosis
140.1	MAL NEOPLSM LW LIP VERMILION BORDR	ICD-9-CM Diagnosis
140.3	MALIG NEOPLSM UPPER LIP INNR ASPECT	ICD-9-CM Diagnosis
140.4	MALIG NEOPLASM LOW LIP INNR ASPECT	ICD-9-CM Diagnosis
140.5	MAL NEO LIP INNR ASPECT UNS UP/LW	ICD-9-CM Diagnosis
140.6	MALIGNANT NEOPLASM COMMISSURE LIP	ICD-9-CM Diagnosis
140.8	MALIGNANT NEOPLASM OTHER SITES LIP	ICD-9-CM Diagnosis
140.9	MAL NEOPLSM LIP VERMIL UNS UP/LW	ICD-9-CM Diagnosis
141	MALIGNANT NEOPLASM OF TONGUE	ICD-9-CM Diagnosis
141.0	MALIGNANT NEOPLASM BASE TONGUE	ICD-9-CM Diagnosis
141.1	MALIG NEOPLASM DORS SURFACE TONGUE	ICD-9-CM Diagnosis
141.2	MALIG NEOPLSM TIP&LAT BORDER TONGUE	ICD-9-CM Diagnosis
141.3	MALIG NEOPLSM VENTRAL SURFCE TONGUE	ICD-9-CM Diagnosis
141.4	MAL NEOPLSM ANT 2/3 TONGUE PART UNS	ICD-9-CM Diagnosis
141.5	MALIG NEOPLASM JUNC ZONE TONGUE	ICD-9-CM Diagnosis
141.6	MALIGNANT NEOPLASM LINGUAL TONSIL	ICD-9-CM Diagnosis
141.8	MALIG NEOPLASM OTHER SITES TONGUE	ICD-9-CM Diagnosis
141.9	MALIG NEOPLASM TONGUE UNSPEC SITE	ICD-9-CM Diagnosis
142	MALIG NEOPLASM MAJOR SALIV GLANDS	ICD-9-CM Diagnosis
142.0	MALIGNANT NEOPLASM OF PAROTID GLAND	ICD-9-CM Diagnosis
142.1	MALIG NEOPLASM SUBMANDIBULAR GLAND	ICD-9-CM Diagnosis
142.2	MALIGNANT NEOPLASM SUBLINGUAL GLAND	ICD-9-CM Diagnosis
142.8	MALIG NEOPLASM OTH MAJ SALIV GLANDS	ICD-9-CM Diagnosis
142.9	MALIG NEOPLASM SALIV GLAND UNSPEC	ICD-9-CM Diagnosis
143	MALIGNANT NEOPLASM OF GUM	ICD-9-CM Diagnosis
143.0	MALIGNANT NEOPLASM OF UPPER GUM	ICD-9-CM Diagnosis
143.1	MALIGNANT NEOPLASM OF LOWER GUM	ICD-9-CM Diagnosis
143.8	MALIGNANT NEOPLASM OTHER SITES GUM	ICD-9-CM Diagnosis
143.9	MALIGNANT NEOPLASM GUM UNSPEC SITE	ICD-9-CM Diagnosis
144	MALIGNANT NEOPLASM FLOOR MOUTH	ICD-9-CM Diagnosis
144.0	MALIG NEOPLASM ANT PRTN FLOOR MOUTH	ICD-9-CM Diagnosis
144.1	MALIG NEOPLASM LAT PRTN FLR MOUTH	ICD-9-CM Diagnosis
144.8	MALIG NEOPLASM OTH SITES FLR MOUTH	ICD-9-CM Diagnosis
144.9	MALIG NEOPLSM FLR MOUTH PART UNSPEC	ICD-9-CM Diagnosis
145	MALIG NEOPLSM OTH&UNSPEC PART MOUTH	ICD-9-CM Diagnosis
145.0	MALIGNANT NEOPLASM OF CHEEK MUCOSA	ICD-9-CM Diagnosis
145.1	MALIGNANT NEOPLASM VESTIBULE MOUTH	ICD-9-CM Diagnosis
145.2	MALIGNANT NEOPLASM OF HARD PALATE	ICD-9-CM Diagnosis
145.3	MALIGNANT NEOPLASM OF SOFT PALATE	ICD-9-CM Diagnosis
145.4	MALIGNANT NEOPLASM OF UVULA	ICD-9-CM Diagnosis
145.5	MALIGNANT NEOPLASM PALATE UNSPEC	ICD-9-CM Diagnosis
145.6	MALIGNANT NEOPLASM RETROMOLAR AREA	ICD-9-CM Diagnosis
145.8	MALIG NEOPLASM OTH SPEC PARTS MOUTH	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
145.9	MALIG NEOPLASM MOUTH UNSPEC SITE	ICD-9-CM Diagnosis
146	MALIGNANT NEOPLASM OF OROPHARYNX	ICD-9-CM Diagnosis
146.0	MALIGNANT NEOPLASM OF TONSIL	ICD-9-CM Diagnosis
146.1	MALIGNANT NEOPLASM TONSILLAR FOSSA	ICD-9-CM Diagnosis
146.2	MALIG NEOPLASM TONSILLAR PILLARS	ICD-9-CM Diagnosis
146.3	MALIGNANT NEOPLASM OF VALLECULA	ICD-9-CM Diagnosis
146.4	MALIG NEOPLSM ANT ASPECT EPIGLOTTIS	ICD-9-CM Diagnosis
146.5	MALIG NEOPLSM JUNC RGN OROPHARYNX	ICD-9-CM Diagnosis
146.6	MALIG NEOPLASM LAT WALL OROPHARYNX	ICD-9-CM Diagnosis
146.7	MALIG NEOPLASM POST WALL OROPHARYNX	ICD-9-CM Diagnosis
146.8	MAL NEO OTH SPEC SITE OROPHARYNX	ICD-9-CM Diagnosis
146.9	MALIG NEOPLSM OROPHARYNX UNS SITE	ICD-9-CM Diagnosis
147	MALIGNANT NEOPLASM OF NASOPHARYNX	ICD-9-CM Diagnosis
147.0	MALIG NEOPLASM SUP WALL NASOPHARYNX	ICD-9-CM Diagnosis
147.1	MALIG NEOPLSM POST WALL NASOPHARYNX	ICD-9-CM Diagnosis
147.2	MALIG NEOPLASM LAT WALL NASOPHARYNX	ICD-9-CM Diagnosis
147.3	MALIG NEOPLASM ANT WALL NASOPHARYNX	ICD-9-CM Diagnosis
147.8	MAL NEO OTH SPEC SITE NASOPHARYNX	ICD-9-CM Diagnosis
147.9	MALIG NEOPLSM NASOPHARYNX UNS SITE	ICD-9-CM Diagnosis
148	MALIGNANT NEOPLASM OF HYPOPHARYNX	ICD-9-CM Diagnosis
148.0	MAL NEO POSTCRICOID RGN HYPOPHARYNX	ICD-9-CM Diagnosis
148.1	MALIGNANT NEOPLASM PYRIFORM SINUS	ICD-9-CM Diagnosis
148.2	MALIG NEOPLSM ARYEPIGLOTTIC FOLD	ICD-9-CM Diagnosis
148.3	MAL NEO POST HYPOPHARYNGEAL WALL	ICD-9-CM Diagnosis
148.8	MAL NEO OTH SPEC SITE HYPOPHARYNX	ICD-9-CM Diagnosis
148.9	MALIG NEOPLSM HYPOPHARYNX UNS SITE	ICD-9-CM Diagnosis
149	OTH MALIG NEO LIP-MOUTH-PHARYNX	ICD-9-CM Diagnosis
149.0	MALIGNANT NEOPLASM PHARYNX UNSPEC	ICD-9-CM Diagnosis
149.1	MALIGNANT NEOPLASM WALDEYERS RING	ICD-9-CM Diagnosis
149.8	MAL NEO OTH SITE WITHIN LIP&ORL CAV	ICD-9-CM Diagnosis
149.9	MAL NEO ILL-DEFIND SITE LIP&ORL CAV	ICD-9-CM Diagnosis
150	MALIGNANT NEOPLASM OF ESOPHAGUS	ICD-9-CM Diagnosis
150.0	MALIG NEOPLASM CERVICAL ESOPHAGUS	ICD-9-CM Diagnosis
150.1	MALIG NEOPLASM THORACIC ESOPHAGUS	ICD-9-CM Diagnosis
150.2	MALIG NEOPLASM ABDOMINAL ESOPHAGUS	ICD-9-CM Diagnosis
150.3	MALIG NEOPLASM UPPER1/3ESOPHAGUS	ICD-9-CM Diagnosis
150.4	MALIG NEOPLASM MIDDLE1/3ESOPHAGUS	ICD-9-CM Diagnosis
150.5	MALIG NEOPLASM LOWER1/3ESOPHAGUS	ICD-9-CM Diagnosis
150.8	MALIG NEOPLASM OTH SPEC PART ESOPH	ICD-9-CM Diagnosis
150.9	MALIG NEOPLASM ESOPH UNSPEC SITE	ICD-9-CM Diagnosis
151	MALIGNANT NEOPLASM OF STOMACH	ICD-9-CM Diagnosis
151.0	MALIGNANT NEOPLASM OF CARDIA	ICD-9-CM Diagnosis
151.1	MALIGNANT NEOPLASM OF PYLORUS	ICD-9-CM Diagnosis
151.2	MALIGNANT NEOPLASM PYLORIC ANTRUM	ICD-9-CM Diagnosis
151.3	MALIGNANT NEOPLASM FUNDUS STOMACH	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
151.4	MALIGNANT NEOPLASM BODY STOMACH	ICD-9-CM Diagnosis
151.5	MALIG NEOPLSM LESR CURV STOMACH UNS	ICD-9-CM Diagnosis
151.6	MALIG NEOPLSM GT CURV STOMACH UNS	ICD-9-CM Diagnosis
151.8	MALIG NEOPLSM OTH SPEC SITE STOMACH	ICD-9-CM Diagnosis
151.9	MALIG NEOPLASM STOMACH UNSPEC SITE	ICD-9-CM Diagnosis
152	MALIG NEOPLSM SM INTEST INCL DUODUM	ICD-9-CM Diagnosis
152.0	MALIGNANT NEOPLASM OF DUODENUM	ICD-9-CM Diagnosis
152.1	MALIGNANT NEOPLASM OF JEJUNUM	ICD-9-CM Diagnosis
152.2	MALIGNANT NEOPLASM OF ILEUM	ICD-9-CM Diagnosis
152.3	MALIG NEOPLASM MECKELS DIVERTICULUM	ICD-9-CM Diagnosis
152.8	MAL NEOPLSM OTH SPEC SITE SM INTEST	ICD-9-CM Diagnosis
152.9	MALIG NEOPLSM SM INTEST UNSPEC SITE	ICD-9-CM Diagnosis
153	MALIGNANT NEOPLASM OF COLON	ICD-9-CM Diagnosis
153.0	MALIGNANT NEOPLASM HEPATIC FLEXURE	ICD-9-CM Diagnosis
153.1	MALIGNANT NEOPLASM TRANSVERSE COLON	ICD-9-CM Diagnosis
153.2	MALIGNANT NEOPLASM DESCENDING COLON	ICD-9-CM Diagnosis
153.3	MALIGNANT NEOPLASM OF SIGMOID COLON	ICD-9-CM Diagnosis
153.4	MALIGNANT NEOPLASM OF CECUM	ICD-9-CM Diagnosis
153.5	MALIGNANT NEOPLASM OF APPENDIX	ICD-9-CM Diagnosis
153.6	MALIGNANT NEOPLASM ASCENDING COLON	ICD-9-CM Diagnosis
153.7	MALIGNANT NEOPLASM SPLENIC FLEXURE	ICD-9-CM Diagnosis
153.8	MAL NEOPLSM OTH SPEC SITE LG INTEST	ICD-9-CM Diagnosis
153.9	MALIG NEOPLASM COLON UNSPEC SITE	ICD-9-CM Diagnosis
154	MAL NEO RECT RECTOSIGMOID JUNC&ANUS	ICD-9-CM Diagnosis
154.0	MALIG NEOPLASM RECTOSIGMOID JUNC	ICD-9-CM Diagnosis
154.1	MALIGNANT NEOPLASM OF RECTUM	ICD-9-CM Diagnosis
154.2	MALIGNANT NEOPLASM OF ANAL CANAL	ICD-9-CM Diagnosis
154.3	MALIGNANT NEOPLASM ANUS UNSPEC SITE	ICD-9-CM Diagnosis
154.8	MAL NEO OTH SITE RECTM/SIG/ANUS	ICD-9-CM Diagnosis
155	MALIG NEOPLASM LIVER&INTRAHEP BDS	ICD-9-CM Diagnosis
155.0	MALIGNANT NEOPLASM OF LIVER PRIMARY	ICD-9-CM Diagnosis
155.1	MALIGNANT NEOPLASM INTRAHEPATIC BDS	ICD-9-CM Diagnosis
155.2	MAL NEOPLSM LIVR NOT SPEC PRIM/SEC	ICD-9-CM Diagnosis
156	MALIG NEOPLSM GALLBLADD&XTRAHEP BDS	ICD-9-CM Diagnosis
156.0	MALIGNANT NEOPLASM OF GALLBLADDER	ICD-9-CM Diagnosis
156.1	MALIGNANT NEOPLASM EXTRAHEPATIC BDS	ICD-9-CM Diagnosis
156.2	MALIGNANT NEOPLASM AMPULLA VATER	ICD-9-CM Diagnosis
156.8	MAL NEO OTH SITE GB&XTRAHEP BDS	ICD-9-CM Diagnosis
156.9	MAL NEO BILI TRACT PART UNS SITE	ICD-9-CM Diagnosis
157	MALIGNANT NEOPLASM OF PANCREAS	ICD-9-CM Diagnosis
157.0	MALIGNANT NEOPLASM HEAD PANCREAS	ICD-9-CM Diagnosis
157.1	MALIGNANT NEOPLASM BODY PANCREAS	ICD-9-CM Diagnosis
157.2	MALIGNANT NEOPLASM TAIL PANCREAS	ICD-9-CM Diagnosis
157.3	MALIGNANT NEOPLASM PANCREATIC DUCT	ICD-9-CM Diagnosis
157.4	MALIG NEOPLASM ISLETS LANGERHANS	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
157.8	MALIG NEOPLASM OTH SPEC SITES PANC	ICD-9-CM Diagnosis
157.9	MALIG NEOPLASM PANCREAS PART UNSPEC	ICD-9-CM Diagnosis
158	MALIG NEOPLASM RETROPERITON&PERITON	ICD-9-CM Diagnosis
158.0	MALIGNANT NEOPLASM RETROPERITONEUM	ICD-9-CM Diagnosis
158.8	MALIG NEOPLASM SPEC PARTS PERITON	ICD-9-CM Diagnosis
158.9	MALIG NEOPLASM PERITONEUM UNSPEC	ICD-9-CM Diagnosis
159	MAL NEO DIGES ORGANS&PANCREAS OTH	ICD-9-CM Diagnosis
159.0	MALIG NEOPLSM INTST TRACT PART UNS	ICD-9-CM Diagnosis
159.1	MALIGNANT NEOPLASM OF SPLEEN NEC	ICD-9-CM Diagnosis
159.8	MAL NEO OTH DIGESTV SYS&INTRA-ABD	ICD-9-CM Diagnosis
159.9	MAL NEO ILL-DEFIND DIGESTV&PERITON	ICD-9-CM Diagnosis
160	MAL NEO NASL CAV/MID EAR&ACSS SINUS	ICD-9-CM Diagnosis
160.0	MALIGNANT NEOPLASM NASAL CAVITIES	ICD-9-CM Diagnosis
160.1	MALIG NEO AUD TUBE-MID EAR&MASTOID	ICD-9-CM Diagnosis
160.2	MALIGNANT NEOPLASM MAXILLARY SINUS	ICD-9-CM Diagnosis
160.3	MALIGNANT NEOPLASM ETHMOIDAL SINUS	ICD-9-CM Diagnosis
160.4	MALIGNANT NEOPLASM OF FRONTAL SINUS	ICD-9-CM Diagnosis
160.5	MALIGNANT NEOPLASM SPHENOIDAL SINUS	ICD-9-CM Diagnosis
160.8	MAL NEO OTH SITE NASL-MID EAR&SINUS	ICD-9-CM Diagnosis
160.9	MAL NEO NASL CAV MID EAR SINUS UNS	ICD-9-CM Diagnosis
161	MALIGNANT NEOPLASM OF LARYNX	ICD-9-CM Diagnosis
161.0	MALIGNANT NEOPLASM OF GLOTTIS	ICD-9-CM Diagnosis
161.1	MALIGNANT NEOPLASM OF SUPRAGLOTTIS	ICD-9-CM Diagnosis
161.2	MALIGNANT NEOPLASM OF SUBGLOTTIS	ICD-9-CM Diagnosis
161.3	MALIG NEOPLASM LARYNGEAL CARTILAGES	ICD-9-CM Diagnosis
161.8	MALIG NEOPLSM OTH SPEC SITES LARYNX	ICD-9-CM Diagnosis
161.9	MALIG NEOPLASM LARYNX UNSPEC SITE	ICD-9-CM Diagnosis
162	MALIG NEOPLASM TRACH BRONCHUS&LUNG	ICD-9-CM Diagnosis
162.0	MALIGNANT NEOPLASM OF TRACHEA	ICD-9-CM Diagnosis
162.2	MALIGNANT NEOPLASM OF MAIN BRONCHUS	ICD-9-CM Diagnosis
162.3	MALIG NEOPLSM UP LOBE BRONCHUS/LUNG	ICD-9-CM Diagnosis
162.4	MAL NEOPLSM MID LOBE BRONCHUS/LUNG	ICD-9-CM Diagnosis
162.5	MALIG NEOPLSM LW LOBE BRONCHUS/LUNG	ICD-9-CM Diagnosis
162.8	MAL NEOPLSM OTH PART BRONCHUS/LUNG	ICD-9-CM Diagnosis
162.9	MAL NEOPLSM BRONCHUS&LUNG UNS SITE	ICD-9-CM Diagnosis
163	MALIGNANT NEOPLASM OF PLEURA	ICD-9-CM Diagnosis
163.0	MALIGNANT NEOPLASM PARIETAL PLEURA	ICD-9-CM Diagnosis
163.1	MALIGNANT NEOPLASM VISCERAL PLEURA	ICD-9-CM Diagnosis
163.8	MALIG NEOPLASM OTH SPEC SITES PLEU	ICD-9-CM Diagnosis
163.9	MALIG NEOPLASM PLEURA UNSPEC SITE	ICD-9-CM Diagnosis
164	MALIG NEOPLASM THYMUS HEART&MEDIAS	ICD-9-CM Diagnosis
164.0	MALIGNANT NEOPLASM OF THYMUS	ICD-9-CM Diagnosis
164.1	MALIGNANT NEOPLASM OF HEART	ICD-9-CM Diagnosis
164.2	MALIG NEOPLASM ANTERIOR MEDIASTINUM	ICD-9-CM Diagnosis
164.3	MALIG NEOPLASM POSTERIOR MEDIAST	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
164.8	MALIG NEOPLASM OTH PARTS MEDIAST	ICD-9-CM Diagnosis
164.9	MALIG NEOPLASM MEDIAST PART UNSPEC	ICD-9-CM Diagnosis
165	MAL NEO RESP&THOR ORGANS OTH	ICD-9-CM Diagnosis
165.0	MAL NEOPLSM UP RESP TRACT PART UNS	ICD-9-CM Diagnosis
165.8	MAL NEO OTH W/IN RESP/THORAX	ICD-9-CM Diagnosis
165.9	MALIG NEO ILL-DEF W/IN RESP SYS	ICD-9-CM Diagnosis
170	MALIG NEOPLASM BONE&ARTICLR CART	ICD-9-CM Diagnosis
170.0	MALIG NEOPLSM BNS SKULL&FCE NO MAND	ICD-9-CM Diagnosis
170.1	MALIGNANT NEOPLASM OF MANDIBLE	ICD-9-CM Diagnosis
170.2	MAL NEO VERT COLMN NOT SACRM&COCCYX	ICD-9-CM Diagnosis
170.3	MALIG NEOPLASM RIBS STERNUM&CLAV	ICD-9-CM Diagnosis
170.4	MALIG NEOPLSM SCAP&LNG BNS UP LIMB	ICD-9-CM Diagnosis
170.5	MALIG NEOPLASM SHORT BNS UPPER LIMB	ICD-9-CM Diagnosis
170.6	MAL NEOPLSM PELV BNS SACRUM&COCCYX	ICD-9-CM Diagnosis
170.7	MALIG NEOPLASM LONG BNS LOWER LIMB	ICD-9-CM Diagnosis
170.8	MALIG NEOPLASM SHORT BNS LOWER LIMB	ICD-9-CM Diagnosis
170.9	MAL NEO BN&ARTICLR CART SITE UNS	ICD-9-CM Diagnosis
171	MALIG NEOPLSM CNCTV&OTH SOFT TISSUE	ICD-9-CM Diagnosis
171.0	MAL NEO CNCTV&OTH SFT TISS HEAD&NCK	ICD-9-CM Diagnosis
171.2	MAL NEO SFT TISS UP LIMB W/SHLDR	ICD-9-CM Diagnosis
171.3	MAL NEO OTH SFT TISS LW LIMB W/HIP	ICD-9-CM Diagnosis
171.4	MAL NEOPLSM CNCTV&OTH SFT TISS THOR	ICD-9-CM Diagnosis
171.5	MALIG NEOPLSM CNCTV&SFT TISS ABD	ICD-9-CM Diagnosis
171.6	MAL NEOPLSM CNCTV&OTH SFT TISS PELV	ICD-9-CM Diagnosis
171.7	MAL NEO CNCTV&OTH SFT TISS TRNK	ICD-9-CM Diagnosis
171.8	MAL NEO OTH SITE CNCTV&OTH SFT TISS	ICD-9-CM Diagnosis
171.9	MAL NEO CNCTV&OTH SFT TISS SITE UNS	ICD-9-CM Diagnosis
172	MALIGNANT MELANOMA OF SKIN	ICD-9-CM Diagnosis
172.0	MALIGNANT MELANOMA OF SKIN OF LIP	ICD-9-CM Diagnosis
172.1	MALIG MELANOMA SKN EYELD W/CANTHUS	ICD-9-CM Diagnosis
172.2	MAL MELNOMA EAR&XTRNL AUDITRY CANL	ICD-9-CM Diagnosis
172.3	MALIG MELANOMA SKN OTH&UNS PART FCE	ICD-9-CM Diagnosis
172.4	MALIGNANT MELANOMA SKIN SCALP&NECK	ICD-9-CM Diagnosis
172.5	MALIG MELANOMA SKIN TRNK NO SCROTUM	ICD-9-CM Diagnosis
172.6	MALIG MELANOMA SKN UP LIMB W/SHLDR	ICD-9-CM Diagnosis
172.7	MALIG MELANOMA SKN LOW LIMB W/HIP	ICD-9-CM Diagnosis
172.8	MALIG MELANOMA OTH SPEC SITES SKIN	ICD-9-CM Diagnosis
172.9	MELANOMA OF SKIN, SITE UNSPECIFIED	ICD-9-CM Diagnosis
173	OTHER & UNS MALIGNANT NEOPLASM SKIN	ICD-9-CM Diagnosis
173.0	OTHER UNS MALIG NEOPLASM SKIN LIP	ICD-9-CM Diagnosis
173.00	UNS MALIGNANT NEOPLASM SKIN LIP	ICD-9-CM Diagnosis
173.01	BASAL CELL CARCINOMA OF SKIN OF LIP	ICD-9-CM Diagnosis
173.02	SQUAMOUS CELL CARCINOMA SKIN OF LIP	ICD-9-CM Diagnosis
173.09	OTHER SPEC MALIG NEOPLASM SKIN LIP	ICD-9-CM Diagnosis
173.1	OTH UNS MAL NEOPLSM EYELD W/CANTHUS	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
173.10	UNS MALIG NEOPLSM EYELID W/CANTHUS	ICD-9-CM Diagnosis
173.11	BASAL CELL CA EYELID INCL CANTHUS	ICD-9-CM Diagnosis
173.12	SQAUM CELL CA EYELID INCL CANTHUS	ICD-9-CM Diagnosis
173.19	OTH SPEC MAL NEO EYELD W/CANTHUS	ICD-9-CM Diagnosis
173.2	OTH UNS MAL NEO EAR EXT AUD CANAL	ICD-9-CM Diagnosis
173.20	UNS MAL NEO SKN EAR EXT AUD CANAL	ICD-9-CM Diagnosis
173.21	BASAL CELL CA SKN EAR EXT AUD CANAL	ICD-9-CM Diagnosis
173.22	SQ CELL CA SKIN EAR EXT AUD CANAL	ICD-9-CM Diagnosis
173.29	OTH MAL NEO SKIN EAR EXT AUD CANAL	ICD-9-CM Diagnosis
173.3	OTH MAL NEO SKIN OTH&UNS PART FACE	ICD-9-CM Diagnosis
173.30	UNS MAL NEO SKIN OTH UNS PART FACE	ICD-9-CM Diagnosis
173.31	BASAL CELL CA SKN OTH UNS PART FACE	ICD-9-CM Diagnosis
173.32	SQ CELL CA SKIN OTH UNS PARTS FACE	ICD-9-CM Diagnosis
173.39	OTH MAL NEO SKIN OTH UNS PART FACE	ICD-9-CM Diagnosis
173.4	OTH MALIG NEOPLASM SCALP SKIN NECK	ICD-9-CM Diagnosis
173.40	UNS MALIG NEOPLASM SCALP SKIN NECK	ICD-9-CM Diagnosis
173.41	BASAL CELL CA SCALP SKIN NECK	ICD-9-CM Diagnosis
173.42	SQUAMOUS CELL CA SCALP SKIN NECK	ICD-9-CM Diagnosis
173.49	OTH SPEC MALIG NEO SCALP SKIN NECK	ICD-9-CM Diagnosis
173.5	OTH MAL NEO SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
173.50	UNS MAL NEO SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
173.51	BASAL CELL CA SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
173.52	SQ CELL CA SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
173.59	OTH MAL NEO SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
173.6	OTH MAL NEO SKIN UP LIMB W/SHOULDER	ICD-9-CM Diagnosis
173.60	UNS MAL NEO SKIN UP LIMB W/SHOULDER	ICD-9-CM Diagnosis
173.61	BASL CELL CA SKN UP LIMB INCL SHLDR	ICD-9-CM Diagnosis
173.62	SQ CELL CA SKIN UP LIMB INCL SHLDR	ICD-9-CM Diagnosis
173.69	OTH MAL NEO SKIN UP LIMB W/SHLOUNDER	ICD-9-CM Diagnosis
173.7	OTH MALIG NEO SKIN LW LIMB W/HIP	ICD-9-CM Diagnosis
173.70	UNS MALIG NEO SKIN LW LIMB W/HIP	ICD-9-CM Diagnosis
173.71	BASAL CELL CA SKIN LW LIMB INCL HIP	ICD-9-CM Diagnosis
173.72	SQ CELL CA SKIN LOW LIMB INCL HIP	ICD-9-CM Diagnosis
173.79	OTH SPEC MAL NEO SKN LW LIMB W/HIP	ICD-9-CM Diagnosis
173.8	OTH MALIG NEO OTH SPEC SITE SKIN	ICD-9-CM Diagnosis
173.80	UNS MALIG NEO OTH SPEC SITE SKIN	ICD-9-CM Diagnosis
173.81	BASAL CELL CA OTH SPEC SITES SKIN	ICD-9-CM Diagnosis
173.82	SQ CELL CA OTH SPEC SITES SKIN	ICD-9-CM Diagnosis
173.89	OTH SPEC MAL NEO OTH SPEC SITE SKN	ICD-9-CM Diagnosis
173.9	OTH UNS MALIG NEOPLSM SKIN SITE UNS	ICD-9-CM Diagnosis
173.90	UNS MALIG NEOPLASM SKIN SITE UNS	ICD-9-CM Diagnosis
173.91	BASAL CELL CARCINOMA SKIN SITE UNS	ICD-9-CM Diagnosis
173.92	SQUAMOUS CELL CA SKIN SITE UNS	ICD-9-CM Diagnosis
173.99	OTH SPEC MALIG NEOPLSM SKN SITE UNS	ICD-9-CM Diagnosis
174	MALIGNANT NEOPLASM OF FEMALE BREAST	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
174.0	MALIG NEOPLSM NIPPLE&AREOLA FE BRST	ICD-9-CM Diagnosis
174.1	MALIG NEOPLASM CNTRL PRTN FE BREAST	ICD-9-CM Diagnosis
174.2	MALIG NEOPLSM UP-INNR QUAD FE BRST	ICD-9-CM Diagnosis
174.3	MALIG NEOPLSM LOW-INNR QUAD FE BRST	ICD-9-CM Diagnosis
174.4	MALIG NEOPLSM UP-OUTER QUAD FE BRST	ICD-9-CM Diagnosis
174.5	MALIG NEOPLSM LW-OUTER QUAD FE BRST	ICD-9-CM Diagnosis
174.6	MALIG NEOPLASM AX TAIL FE BREAST	ICD-9-CM Diagnosis
174.8	MALIG NEOPLSM OTH SPEC SITE FE BRST	ICD-9-CM Diagnosis
174.9	MALIG NEOPLASM BREAST UNSPEC SITE	ICD-9-CM Diagnosis
175	MALIGNANT NEOPLASM OF MALE BREAST	ICD-9-CM Diagnosis
175.0	MAL NEOPLSM NIPPLE&AREOLA MALE BRST	ICD-9-CM Diagnosis
175.9	MAL NEOPLSM OTH&UNS SITE MALE BRST	ICD-9-CM Diagnosis
176	KAPOSIS SARCOMA	ICD-9-CM Diagnosis
176.0	KAPOSIS SARCOMA OF SKIN	ICD-9-CM Diagnosis
176.1	KAPOSIS SARCOMA OF SOFT TISSUE	ICD-9-CM Diagnosis
176.2	KAPOSIS SARCOMA OF PALATE	ICD-9-CM Diagnosis
176.3	KAPOSIS SARCOMA GI SITES	ICD-9-CM Diagnosis
176.4	KAPOSIS SARCOMA OF LUNG	ICD-9-CM Diagnosis
176.5	KAPOSIS SARCOMA OF LYMPH NODES	ICD-9-CM Diagnosis
176.8	KAPOSIS SARCOMA OTHER SPEC SITES	ICD-9-CM Diagnosis
176.9	KAPOSIS SARCOMA OF UNSPECIFIED SITE	ICD-9-CM Diagnosis
179	MALIG NEOPLASM UTERUS PART UNSPEC	ICD-9-CM Diagnosis
180	MALIGNANT NEOPLASM OF CERVIX UTERI	ICD-9-CM Diagnosis
180.0	MALIGNANT NEOPLASM OF ENDOCERVIX	ICD-9-CM Diagnosis
180.1	MALIGNANT NEOPLASM OF EXOCERVIX	ICD-9-CM Diagnosis
180.8	MALIG NEOPLASM OTH SPEC SITES CERV	ICD-9-CM Diagnosis
180.9	MALIG NEOPLSM CERV UTERI UNS SITE	ICD-9-CM Diagnosis
181	MALIGNANT NEOPLASM OF PLACENTA	ICD-9-CM Diagnosis
182	MALIGNANT NEOPLASM BODY UTERUS	ICD-9-CM Diagnosis
182.0	MAL NEOPLSM CORPUS UTERI NO ISTHMUS	ICD-9-CM Diagnosis
182.1	MALIGNANT NEOPLASM OF ISTHMUS	ICD-9-CM Diagnosis
182.8	MAL NEOPLSM OTH SPEC SITE BDY UTRUS	ICD-9-CM Diagnosis
183	MALIG NEOPLSM OVRY&OTH UTERN ADNEXA	ICD-9-CM Diagnosis
183.0	MALIGNANT NEOPLASM OF OVARY	ICD-9-CM Diagnosis
183.2	MALIGNANT NEOPLASM FALLOPIAN TUBE	ICD-9-CM Diagnosis
183.3	MALIG NEOPLASM BROAD LIG UTERUS	ICD-9-CM Diagnosis
183.4	MALIG NEOPLASM PARAMETRIUM UTERUS	ICD-9-CM Diagnosis
183.5	MALIG NEOPLASM ROUND LIG UTERUS	ICD-9-CM Diagnosis
183.8	MAL NEO OTH SPEC SITE UTERN ADNEXA	ICD-9-CM Diagnosis
183.9	MALIG NEOPLSM UTERN ADNEXA UNS SITE	ICD-9-CM Diagnosis
184	MALIG NEOPLSM OTH&UNS FE GENIT ORGN	ICD-9-CM Diagnosis
184.0	MALIGNANT NEOPLASM OF VAGINA	ICD-9-CM Diagnosis
184.1	MALIGNANT NEOPLASM OF LABIA MAJORA	ICD-9-CM Diagnosis
184.2	MALIGNANT NEOPLASM OF LABIA MINORA	ICD-9-CM Diagnosis
184.3	MALIGNANT NEOPLASM OF CLITORIS	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
184.4	MALIG NEOPLASM VULVA UNSPEC SITE	ICD-9-CM Diagnosis
184.8	MAL NEO OTH SPEC SITE FE GNT ORGN	ICD-9-CM Diagnosis
184.9	MALIG NEOPLSM FE GNT ORGN SITE UNS	ICD-9-CM Diagnosis
185	MALIGNANT NEOPLASM OF PROSTATE	ICD-9-CM Diagnosis
186	MALIGNANT NEOPLASM OF TESTIS	ICD-9-CM Diagnosis
186.0	MALIG NEOPLASM UNDESCENDED TESTIS	ICD-9-CM Diagnosis
186.9	MALIG NEOPLASM OTHER&UNSPEC TESTIS	ICD-9-CM Diagnosis
187	MAL NEOPLSM PENIS&OTH MALE GNT ORGN	ICD-9-CM Diagnosis
187.1	MALIGNANT NEOPLASM OF PREPUCE	ICD-9-CM Diagnosis
187.2	MALIGNANT NEOPLASM OF GLANS PENIS	ICD-9-CM Diagnosis
187.3	MALIGNANT NEOPLASM OF BODY OF PENIS	ICD-9-CM Diagnosis
187.4	MALIG NEOPLASM PENIS PART UNSPEC	ICD-9-CM Diagnosis
187.5	MALIGNANT NEOPLASM OF EPIDIDYMIS	ICD-9-CM Diagnosis
187.6	MALIGNANT NEOPLASM SPERMATIC CORD	ICD-9-CM Diagnosis
187.7	MALIGNANT NEOPLASM OF SCROTUM	ICD-9-CM Diagnosis
187.8	MAL NEO OTH SPEC SITE MALE GNT ORGN	ICD-9-CM Diagnosis
187.9	MAL NEOPLSM MALE GNT ORGN SITE UNS	ICD-9-CM Diagnosis
188	MALIGNANT NEOPLASM OF BLADDER	ICD-9-CM Diagnosis
188.0	MALIG NEOPLASM TRIGONE URIN BLADD	ICD-9-CM Diagnosis
188.1	MALIG NEOPLASM DOME URINARY BLADDER	ICD-9-CM Diagnosis
188.2	MALIG NEOPLASM LAT WALL URIN BLADD	ICD-9-CM Diagnosis
188.3	MALIG NEOPLASM ANT WALL URIN BLADD	ICD-9-CM Diagnosis
188.4	MALIG NEOPLASM POST WALL URIN BLADD	ICD-9-CM Diagnosis
188.5	MALIGNANT NEOPLASM OF BLADDER NECK	ICD-9-CM Diagnosis
188.6	MALIGNANT NEOPLASM URETERIC ORIFICE	ICD-9-CM Diagnosis
188.7	MALIGNANT NEOPLASM OF URACHUS	ICD-9-CM Diagnosis
188.8	MALIG NEOPLASM OTH SPEC SITES BLADD	ICD-9-CM Diagnosis
188.9	MALIG NEOPLASM BLADDER PART UNSPEC	ICD-9-CM Diagnosis
189	MAL NEO KIDNEY&OTH&UNS URIN ORGN	ICD-9-CM Diagnosis
189.0	MALIG NEOPLASM KIDNEY EXCEPT PELVIS	ICD-9-CM Diagnosis
189.1	MALIGNANT NEOPLASM OF RENAL PELVIS	ICD-9-CM Diagnosis
189.2	MALIGNANT NEOPLASM OF URETER	ICD-9-CM Diagnosis
189.3	MALIGNANT NEOPLASM OF URETHRA	ICD-9-CM Diagnosis
189.4	MALIG NEOPLASM PARAURETHRAL GLANDS	ICD-9-CM Diagnosis
189.8	MAL NEOPLSM OTH SPEC SITE URIN ORGN	ICD-9-CM Diagnosis
189.9	MALIG NEOPLSM URIN ORGN SITE UNSPEC	ICD-9-CM Diagnosis
190	MALIGNANT NEOPLASM OF EYE	ICD-9-CM Diagnosis
190.0	MALIGNANT NEO EYEBALL	ICD-9-CM Diagnosis
190.1	MALIGNANT NEOPLASM OF ORBIT	ICD-9-CM Diagnosis
190.2	MALIGNANT NEOPLASM LACRIMAL GLAND	ICD-9-CM Diagnosis
190.3	MALIGNANT NEOPLASM OF CONJUNCTIVA	ICD-9-CM Diagnosis
190.4	MALIGNANT NEOPLASM OF CORNEA	ICD-9-CM Diagnosis
190.5	MALIGNANT NEOPLASM OF RETINA	ICD-9-CM Diagnosis
190.6	MALIGNANT NEOPLASM OF CHOROID	ICD-9-CM Diagnosis
190.7	MALIGNANT NEOPLASM OF LACRIMAL DUCT	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
190.8	MALIG NEOPLASM OTHER SPEC SITES EYE	ICD-9-CM Diagnosis
190.9	MALIGNANT NEOPLASM EYE PART UNSPEC	ICD-9-CM Diagnosis
191	MALIGNANT NEOPLASM OF BRAIN	ICD-9-CM Diagnosis
191.0	MAL NEOPLSM CEREBRUM NO LOBES&VENTS	ICD-9-CM Diagnosis
191.1	MALIG NEOPLASM FRONTAL LOBE BRAIN	ICD-9-CM Diagnosis
191.2	MALIG NEOPLASM TEMPORAL LOBE BRAIN	ICD-9-CM Diagnosis
191.3	MALIG NEOPLASM PARIETAL LOBE BRAIN	ICD-9-CM Diagnosis
191.4	MALIG NEOPLASM OCCIPITAL LOBE BRAIN	ICD-9-CM Diagnosis
191.5	MALIGNANT NEOPLASM VENTRICLES BRAIN	ICD-9-CM Diagnosis
191.6	MALIGNANT NEOPLASM CEREBELLUM NOS	ICD-9-CM Diagnosis
191.7	MALIGNANT NEOPLASM OF BRAIN STEM	ICD-9-CM Diagnosis
191.8	MALIG NEOPLASM OTHER PARTS BRAIN	ICD-9-CM Diagnosis
191.9	MALIG NEOPLASM BRAIN UNSPEC SITE	ICD-9-CM Diagnosis
192	MALIG NEOPLSM OTH&UNS PART NERV SYS	ICD-9-CM Diagnosis
192.0	MALIGNANT NEOPLASM CRANIAL NERVES	ICD-9-CM Diagnosis
192.1	MALIG NEOPLASM CEREBRAL MENINGES	ICD-9-CM Diagnosis
192.2	MALIGNANT NEOPLASM OF SPINAL CORD	ICD-9-CM Diagnosis
192.3	MALIGNANT NEOPLASM SPINAL MENINGES	ICD-9-CM Diagnosis
192.8	MAL NEOPLSM OTH SPEC SITE NERV SYS	ICD-9-CM Diagnosis
192.9	MALIG NEOPLSM NERV SYS PART UNSPEC	ICD-9-CM Diagnosis
193	MALIGNANT NEOPLASM OF THYROID GLAND	ICD-9-CM Diagnosis
194	MAL NEO OTH ENDOCRN GLND&REL STRCT	ICD-9-CM Diagnosis
194.0	MALIGNANT NEOPLASM OF ADRENAL GLAND	ICD-9-CM Diagnosis
194.1	MALIG NEOPLASM PARATHYROID GLAND	ICD-9-CM Diagnosis
194.3	MALIG NEOPLASM PITUITARY	ICD-9-CM Diagnosis
194.4	MALIGNANT NEOPLASM OF PINEAL GLAND	ICD-9-CM Diagnosis
194.5	MALIGNANT NEOPLASM OF CAROTID BODY	ICD-9-CM Diagnosis
194.6	MAL NEO AORTC BDY&OTH PARAGANGLIA	ICD-9-CM Diagnosis
194.8	MAL NEO OTH ENDOCRN GLND&REL STRCT	ICD-9-CM Diagnosis
194.9	MAL NEOPLSM ENDOCRN GLAND SITE UNS	ICD-9-CM Diagnosis
195	MALIG NEOPLASM OTH&ILL-DEFIND SITES	ICD-9-CM Diagnosis
195.0	MALIGNANT NEOPLASM HEAD FACE&NECK	ICD-9-CM Diagnosis
195.1	MALIGNANT NEOPLASM OF THORAX	ICD-9-CM Diagnosis
195.2	MALIGNANT NEOPLASM OF ABDOMEN	ICD-9-CM Diagnosis
195.3	MALIGNANT NEOPLASM OF PELVIS	ICD-9-CM Diagnosis
195.4	MALIGNANT NEOPLASM OF UPPER LIMB	ICD-9-CM Diagnosis
195.5	MALIGNANT NEOPLASM OF LOWER LIMB	ICD-9-CM Diagnosis
195.8	MALIGNANT NEOPLASM OTHER SPEC SITES	ICD-9-CM Diagnosis
196	SEC&UNSPEC MALIG NEOPLASM NODES	ICD-9-CM Diagnosis
196.0	SEC&UNS MAL NEO NODES HEAD FCE&NCK	ICD-9-CM Diagnosis
196.1	SEC&UNS MAL NEOPLSM INTRATHR NODES	ICD-9-CM Diagnosis
196.2	SEC&UNS MAL NEOPLSM INTRA-ABD NODES	ICD-9-CM Diagnosis
196.3	SEC&UNS MAL NEO NODES AX&UP LIMB	ICD-9-CM Diagnosis
196.5	SEC&UNS MAL NEO NODES ING/LEG	ICD-9-CM Diagnosis
196.6	SEC&UNS MAL NEOPLSM INTRAPELV NODES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
196.8	SEC&UNS MALIG NEOPLSM NODES MX SITE	ICD-9-CM Diagnosis
196.9	SEC&UNS MAL NEOPLSM NODES SITE UNS	ICD-9-CM Diagnosis
197	SEC MALIG NEOPLASM RESP&DIGESTV SYS	ICD-9-CM Diagnosis
197.0	SEC MALIGNANT NEOPLASM OF LUNG	ICD-9-CM Diagnosis
197.1	SEC MALIGNANT NEOPLASM MEDIASTINUM	ICD-9-CM Diagnosis
197.2	SEC MALIGNANT NEOPLASM OF PLEURA	ICD-9-CM Diagnosis
197.3	SEC MALIG NEOPLASM OTH RESP ORGN	ICD-9-CM Diagnosis
197.4	SEC MALIG NEOPLSM SM INTST W/DUODUM	ICD-9-CM Diagnosis
197.5	SEC MALIG NEOPLASM LG INTEST&RECT	ICD-9-CM Diagnosis
197.6	SEC MAL NEO RETROPERITON&PERITON	ICD-9-CM Diagnosis
197.7	SEC MALIGNANT NEOPLASM OF LIVER	ICD-9-CM Diagnosis
197.8	SEC MAL NEO OTH DIGESTV ORGN&SPLEEN	ICD-9-CM Diagnosis
198	SEC MALIG NEOPLASM OTHER SPEC SITES	ICD-9-CM Diagnosis
198.0	SEC MALIGNANT NEOPLASM OF KIDNEY	ICD-9-CM Diagnosis
198.1	SEC MALIG NEOPLASM OTH URINARY ORGN	ICD-9-CM Diagnosis
198.2	SEC MALIGNANT NEOPLASM OF SKIN	ICD-9-CM Diagnosis
198.3	SEC MALIG NEOPLSM BRAIN&SPINAL CORD	ICD-9-CM Diagnosis
198.4	SEC MALIG NEOPLSM OTH PART NERV SYS	ICD-9-CM Diagnosis
198.5	SEC MALIG NEOPLASM BONE&BONE MARROW	ICD-9-CM Diagnosis
198.6	SEC MALIGNANT NEOPLASM OF OVARY	ICD-9-CM Diagnosis
198.7	SEC MALIG NEOPLASM ADRENAL GLAND	ICD-9-CM Diagnosis
198.8	SEC MALIG NEOPLASM OTHER SPEC SITES	ICD-9-CM Diagnosis
198.81	SEC MALIGNANT NEOPLASM OF BREAST	ICD-9-CM Diagnosis
198.82	SEC MALIG NEOPLASM GENITAL ORGANS	ICD-9-CM Diagnosis
198.89	SEC MALIG NEOPLASM OTHER SPEC SITES	ICD-9-CM Diagnosis
199	MALIG NEOPLASM WITHOUT SPEC SITE	ICD-9-CM Diagnosis
199.0	DISSEMINATED MALIGNANT NEOPLASM	ICD-9-CM Diagnosis
199.1	OTHER MALIG NEOPLASM UNSPEC SITE	ICD-9-CM Diagnosis
199.2	MALIG NEOPLSM ASSOC TRANSPLNT ORGAN	ICD-9-CM Diagnosis
200	LYMPH&RETIC&OTH LYMPH MALIG TUMOR	ICD-9-CM Diagnosis
200.0	RETICULOSARCOMA	ICD-9-CM Diagnosis
200.00	RETICULOSRCOM XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
200.01	RETICULOSRCOM NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
200.02	RETICULOSARCOMA INTRATHORACIC NODES	ICD-9-CM Diagnosis
200.03	RETICULOSARCOMA INTRA-ABD NODES	ICD-9-CM Diagnosis
200.04	RETICULOSRCOM NODES AX&UPPER LIMB	ICD-9-CM Diagnosis
200.05	RETICULOSRCOM NODES ING RGN&LW LIMB	ICD-9-CM Diagnosis
200.06	RETICULOSARCOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
200.07	RETICULOSARCOMA OF SPLEEN	ICD-9-CM Diagnosis
200.08	RETICULOSARCOMA NODES MX SITES	ICD-9-CM Diagnosis
200.1	LYMPHOSARCOMA	ICD-9-CM Diagnosis
200.10	LYMPHOSRCOM XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
200.11	LYMPHOSARCOMA NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
200.12	LYMPHOSARCOMA INTRATHORACIC NODES	ICD-9-CM Diagnosis
200.13	LYMPHOSARCOMA INTRA-ABD LYMPH NODES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
200.14	LYMPHOSRCOM NODES AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.15	LYMPHOSRCOM NODES ING RGN&LOW LIMB	ICD-9-CM Diagnosis
200.16	LYMPHOSARCOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
200.17	LYMPHOSARCOMA OF SPLEEN	ICD-9-CM Diagnosis
200.18	LYMPHOSARCOMA NODES MULTIPLE SITES	ICD-9-CM Diagnosis
200.2	BURKITT'S TUMOR OR LYMPHOMA	ICD-9-CM Diagnosis
200.20	BURKITT'S TUMOR/LYMPHOMA UNS	ICD-9-CM Diagnosis
200.21	BRKITS TUMR/LYMPHOMA NODES HEAD&NCK	ICD-9-CM Diagnosis
200.22	BRKITS TUMR/LYMPHOMA INTRATHR NODES	ICD-9-CM Diagnosis
200.23	BURKITT'S TUMR/LYMPHMA ABD LYMPH	ICD-9-CM Diagnosis
200.24	BURKITT'S TUMOR AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.25	BURKITT'S TUMR/LYMPHOMA ING/LW LIMB	ICD-9-CM Diagnosis
200.26	BURKITT'S TUMOR INTRAPELVIC	ICD-9-CM Diagnosis
200.27	BURKITT'S TUMOR OR LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.28	BRKITS TUMR/LYMPHOMA NODES MX SITE	ICD-9-CM Diagnosis
200.3	MARGINAL ZONE LYMPHOMA	ICD-9-CM Diagnosis
200.30	MZ LYMPHOMA UNS SITE EXTRANOD&ORGAN	ICD-9-CM Diagnosis
200.31	MZ LYMPHOMA NODES HEAD FACE & NECK	ICD-9-CM Diagnosis
200.32	MZ LYMPHOMA INTRATHORACIC NODES	ICD-9-CM Diagnosis
200.33	MZ LYMPHOMA INTRA-ABDOMINAL NODES	ICD-9-CM Diagnosis
200.34	MZ LYMPHOMA NODES AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.35	MZ LYMPHOMA NODES ING REG&LOW LIMB	ICD-9-CM Diagnosis
200.36	MZ LYMPHOMA INTRAPELVIC LYMPH NODES	ICD-9-CM Diagnosis
200.37	MARGINAL ZONE LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.38	MZ LYMPHOMA LYMPH NODES MULTI SITES	ICD-9-CM Diagnosis
200.4	MANTLE CELL LYMPHOMA	ICD-9-CM Diagnosis
200.40	MCL UNS SITE EXTRANODAL&SOLID ORGAN	ICD-9-CM Diagnosis
200.41	MCL LYMPH NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
200.42	MCL INTRATHORACIC LYMPH NODES	ICD-9-CM Diagnosis
200.43	MCL INTRA-ABDOMINAL LYMPH NODES	ICD-9-CM Diagnosis
200.44	MCL LYMPH NODES AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.45	MCL NODES ING REGION&LOWER LIMB	ICD-9-CM Diagnosis
200.46	MCL INTRAPELVIC LYMPH NODES	ICD-9-CM Diagnosis
200.47	MANTLE CELL LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.48	MCL LYMPH NODES MULTIPLE SITES	ICD-9-CM Diagnosis
200.5	PRIMARY CNTRL NERV SYS LYMPHOMA	ICD-9-CM Diagnosis
200.50	PRIM CNS LYMPHOMA UNS EXTRANOD&ORGN	ICD-9-CM Diagnosis
200.51	PRIM CNS LYMPHOMA HEAD FACE&NECK	ICD-9-CM Diagnosis
200.52	PRIM CNS LYMPHOMA INTRATHOR NODES	ICD-9-CM Diagnosis
200.53	PRIM CNS LYMPHOMA INTRA-ABD NODES	ICD-9-CM Diagnosis
200.54	PRIM CNS LYMPHOMA AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.55	PRIM CNS LYMPHOMA INGUINAL&LOW LIMB	ICD-9-CM Diagnosis
200.56	PRIM CNS LYMPHOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
200.57	PRIMARY CNS LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.58	PRIM CNS LYMPHOMA MULTIPLE SITES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
200.6	ANAPLASTIC LARGE CELL LYMPHOMA	ICD-9-CM Diagnosis
200.60	ALCL UNS SITE EXTRANODAL&SOLID ORG	ICD-9-CM Diagnosis
200.61	ALC LYMPHOMA NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
200.62	ALC LYMPHOMA INTRATHORACIC NODES	ICD-9-CM Diagnosis
200.63	ALC LYMPHOMA INTRA-ABDOMINAL NODES	ICD-9-CM Diagnosis
200.64	ALC LYMPHOMA NODES AXILLA&UP LIMB	ICD-9-CM Diagnosis
200.65	ALC LYMPHOMA NODES ING&LOW LIMB	ICD-9-CM Diagnosis
200.66	ALC LYMPHOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
200.67	ANAPLASTIC LRG CELL LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.68	ALC LYMPHOMA NODES MULTIPLE SITES	ICD-9-CM Diagnosis
200.7	LARGE CELL LYMPHOMA	ICD-9-CM Diagnosis
200.70	LCL UNS SITE EXTRANODAL&SOLID ORGAN	ICD-9-CM Diagnosis
200.71	LCL LYMPH NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
200.72	LCL INTRATHORACIC LYMPH NODES	ICD-9-CM Diagnosis
200.73	LCL INTRA-ABDOMINAL LYMPH NODES	ICD-9-CM Diagnosis
200.74	LCL LYMPH NODES AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
200.75	LCL LYMPH NODES INGUINAL&LOWER LIMB	ICD-9-CM Diagnosis
200.76	LCL INTRAPELVIC LYMPH NODES	ICD-9-CM Diagnosis
200.77	LARGE CELL LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
200.78	LARGE CELL LYMPHOMA NODES MX SITES	ICD-9-CM Diagnosis
200.8	VARIANTS LYMPHOSRCOM&RETICULOSRCOM	ICD-9-CM Diagnosis
200.80	VARIANTS XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
200.81	OTH VARNTS LYMPHOSARCOMA NODES HEAD	ICD-9-CM Diagnosis
200.82	OTH VARNTS LYMPHOSARCOMA THORAX	ICD-9-CM Diagnosis
200.83	OTH VARNTS LYMPHOSARCOMA INTRA-ABD	ICD-9-CM Diagnosis
200.84	OTH VARNTS LYMPHOSARCOMA AX&UP LIMB	ICD-9-CM Diagnosis
200.85	OTH VARNT LYMPHOSRCM ING REG&LW LIM	ICD-9-CM Diagnosis
200.86	OTH VARNTS LYMPHOSARCOMA INTRAPELV	ICD-9-CM Diagnosis
200.87	OTH VARIANTS LYMPHOSARCOMA SPLEEN	ICD-9-CM Diagnosis
200.88	OTH VARIANT LYMPHOSRCM NODE MX SITE	ICD-9-CM Diagnosis
201	HODGKINS DISEASE	ICD-9-CM Diagnosis
201.0	HODGKINS PARAGRANULOMA	ICD-9-CM Diagnosis
201.00	HODGKINS PARAGRANULOM EXTRND UNS SITE	ICD-9-CM Diagnosis
201.01	HODGKIN PARAGRANULOM NODES HEAD&NCK	ICD-9-CM Diagnosis
201.02	HODGKIN PARAGRANULOM INTRATHOR NODES	ICD-9-CM Diagnosis
201.03	HODGKIN PARAGRANULOM INTRA-ABD NODES	ICD-9-CM Diagnosis
201.04	HODGKINS PARAGRAN AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
201.05	HODGKINS PARAGRANULOM ING &LW LIMB	ICD-9-CM Diagnosis
201.06	HODGKIN PARAGRANULOM INTRAPELV NODES	ICD-9-CM Diagnosis
201.07	HODGKINS PARAGRANULOMA OF SPLEEN	ICD-9-CM Diagnosis
201.08	HODGKINS PARAGRANULOM NODES MX SITES	ICD-9-CM Diagnosis
201.1	HODGKINS GRANULOMA	ICD-9-CM Diagnosis
201.10	HODGK GRANUL-EXTRNOD UNS SITE	ICD-9-CM Diagnosis
201.11	HODGKIN GRANULOMA NODES HEAD&NCK	ICD-9-CM Diagnosis
201.12	HODGKINS GRANULOMA INTRATHOR NODES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
201.13	HODGKINS GRANULOMA INTRA-ABD NODES	ICD-9-CM Diagnosis
201.14	HODGKINS GRANULOMA NODES AX&UP LIMB	ICD-9-CM Diagnosis
201.15	HODGKINS GRANULOMA ING&LOWR LIMB	ICD-9-CM Diagnosis
201.16	HODGKINS GRANULOMA INTRAPELV NODES	ICD-9-CM Diagnosis
201.17	HODGKINS GRANULOMA OF SPLEEN	ICD-9-CM Diagnosis
201.18	HODGKINS GRANULOMA NODES MX SITES	ICD-9-CM Diagnosis
201.2	HODGKINS SARCOMA	ICD-9-CM Diagnosis
201.20	HODGKIN SRCOM XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
201.21	HODGKINS SRCOM NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
201.22	HODGKINS SRCOM INTRATHORACIC NODES	ICD-9-CM Diagnosis
201.23	HODGKINS SARCOMA INTRA-ABD NODES	ICD-9-CM Diagnosis
201.24	HODGKINS SRCOM NODES AX&UPPER LIMB	ICD-9-CM Diagnosis
201.25	HODGKIN SRCOM NODES ING RGN&LW LIMB	ICD-9-CM Diagnosis
201.26	HODGKINS SARCOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
201.27	HODGKINS SARCOMA OF SPLEEN	ICD-9-CM Diagnosis
201.28	HODGKINS SARCOMA NODES MX SITES	ICD-9-CM Diagnosis
201.4	HODGKIN LYMPHCYT-HISTCYT	ICD-9-CM Diagnosis
201.40	HODG LYMPHOCYT-HISTIO UNS EXTRNOD	ICD-9-CM Diagnosis
201.41	HODG LYMPH-HISTIO HEAD FACE & NECK	ICD-9-CM Diagnosis
201.42	HODG LYMPH-HISTIO THORAX	ICD-9-CM Diagnosis
201.43	HODG LYMPH-HISTIO ABDOM	ICD-9-CM Diagnosis
201.44	HODG LYMPH-HISTIO AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
201.45	HODG LYMPHO-HISTIO ING REG&LWR LIMB	ICD-9-CM Diagnosis
201.46	HODG LYMPH-HISTIO INTRAPELVIC NODES	ICD-9-CM Diagnosis
201.47	HODGKIN LYMPHCYT-HISTCYT SPLEEN	ICD-9-CM Diagnosis
201.48	HODG LYMPHOCYT-HISTIOCYT MX SITE	ICD-9-CM Diagnosis
201.5	HODGKINS DISEASE NODULAR SCLEROSIS	ICD-9-CM Diagnosis
201.50	HODG NODUL SCLEROS UNS SITE EXTRND	ICD-9-CM Diagnosis
201.51	HODG NODUL SCLERO HEAD FACE & NECK	ICD-9-CM Diagnosis
201.52	HODG NODUL SCLERO THORAX	ICD-9-CM Diagnosis
201.53	HODG NODUL SCLERO ABDOM	ICD-9-CM Diagnosis
201.54	HODG NODUL SCLERO AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
201.55	HODG NODULR SCLROS ING REG&LW LIMB	ICD-9-CM Diagnosis
201.56	HODG NODUL SCLERO INTRAPELVIC	ICD-9-CM Diagnosis
201.57	HODGKINS NODULAR SCLEROSIS SPLEEN	ICD-9-CM Diagnosis
201.58	HODGKIN NODULR SCLER NODES MX SITE	ICD-9-CM Diagnosis
201.6	HODGKINS DISEASE MIXED CELLULARITY	ICD-9-CM Diagnosis
201.60	HODG NODL MIXD CELLR UNS SITE XTRND	ICD-9-CM Diagnosis
201.61	HODG MIX CELLR W/NODES HEAD&NECK	ICD-9-CM Diagnosis
201.62	HODGKINS MIX CELLR INTRATHOR NODES	ICD-9-CM Diagnosis
201.63	HODGKINS MIX CELLR INTRA-ABD NODES	ICD-9-CM Diagnosis
201.64	HODGKINS MIX CELLR NODES AX&UP LIMB	ICD-9-CM Diagnosis
201.65	HODG MIX CELLR NOD ING REG&LW LMB	ICD-9-CM Diagnosis
201.66	HODGKINS MIX CELLR INTRAPELV NODES	ICD-9-CM Diagnosis
201.67	HODGKINS MIXED CELLULARITY SPLEEN	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
201.68	HODGKINS MIX CELLR NODES MX SITES	ICD-9-CM Diagnosis
201.7	HODGKINS LYMPHOCYTIC DEPLETION	ICD-9-CM Diagnosis
201.70	HODG LYMPHOCYT DEPLET EXTRANOD	ICD-9-CM Diagnosis
201.71	HODG LYMPH DEPLET HEAD FACE & NECK	ICD-9-CM Diagnosis
201.72	HODG LYMPH DEPLET THORAX	ICD-9-CM Diagnosis
201.73	HODG LYMPH DEPLET ABDOM	ICD-9-CM Diagnosis
201.74	HODG LYMPH DEPLET AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
201.75	HODG LYMPHO DPLT NOD ING REG&LW LMB	ICD-9-CM Diagnosis
201.76	HODG LYMPH DEPLET INTRAPELVIC	ICD-9-CM Diagnosis
201.77	HODGKINS LYMPHOCYTIC DEPLET SPLEEN	ICD-9-CM Diagnosis
201.78	HODG LYMPHOCYTIC DEPLET NOD MX SITE	ICD-9-CM Diagnosis
201.9	HODGKINS DISEASE, UNSPECIFIED TYPE	ICD-9-CM Diagnosis
201.90	HODG UNS TYPE/SITE EXTRND&SLID ORGN	ICD-9-CM Diagnosis
201.91	HODGKIN UNS TYPE NODES HEAD FCE&NCK	ICD-9-CM Diagnosis
201.92	HODGKINS UNS TYPE INTRATHOR NODES	ICD-9-CM Diagnosis
201.93	HODGKINS UNS TYPE INTRA-ABD NODES	ICD-9-CM Diagnosis
201.94	HODGKINS UNS TYPE NODES AX&UP LIMB	ICD-9-CM Diagnosis
201.95	HODG UNS TYPE NODE ING REG&LWR LIMB	ICD-9-CM Diagnosis
201.96	HODGKINS UNS TYPE INTRAPELV NODES	ICD-9-CM Diagnosis
201.97	HODGKINS UNSPECIFIED TYPE OF SPLEEN	ICD-9-CM Diagnosis
201.98	HODGKINS UNSPEC TYPE NODES MX SITES	ICD-9-CM Diagnosis
202	OTH MAL NEO LYMPHOID&HISTCYT TISS	ICD-9-CM Diagnosis
202.0	NODULAR LYMPHOMA	ICD-9-CM Diagnosis
202.00	NODULR LYMPHOMA XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
202.01	NODULAR LYMPHOMA NODES HEAD FCE&NCK	ICD-9-CM Diagnosis
202.02	NODULAR LYMPHOMA INTRATHOR NODES	ICD-9-CM Diagnosis
202.03	NODULAR LYMPHOMA INTRA-ABD NODES	ICD-9-CM Diagnosis
202.04	NODULR LYMPHOMA NODES AX&UPPER LIMB	ICD-9-CM Diagnosis
202.05	NODULAR LYMPHOMA INGUIN&LOWER LIMB	ICD-9-CM Diagnosis
202.06	NODULAR LYMPHOMA INTRAPELVIC NODES	ICD-9-CM Diagnosis
202.07	NODULAR LYMPHOMA OF SPLEEN	ICD-9-CM Diagnosis
202.08	NODULAR LYMPHOMA NODES MX SITES	ICD-9-CM Diagnosis
202.1	MYCOSIS FUNGOIDES	ICD-9-CM Diagnosis
202.10	MYCOF FUNGOIDES XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
202.11	MYCOF FUNGOIDES NODES HEAD FCE&NCK	ICD-9-CM Diagnosis
202.12	MYCOSIS FUNGOIDES INTRATHOR NODES	ICD-9-CM Diagnosis
202.13	MYCOSIS FUNGOIDES INTRA-ABD NODES	ICD-9-CM Diagnosis
202.14	MYCOSIS FUNGOIDES NODES AX&UP LIMB	ICD-9-CM Diagnosis
202.15	MYCOSIS FUNGOIDES ING REG&LWR LIMB	ICD-9-CM Diagnosis
202.16	MYCOSIS FUNGOIDES INTRAPELVIC NODES	ICD-9-CM Diagnosis
202.17	MYCOSIS FUNGOIDES OF SPLEEN	ICD-9-CM Diagnosis
202.18	MYCOSIS FUNGOIDES NODES MX SITES	ICD-9-CM Diagnosis
202.2	SEZARYS DISEASE	ICD-9-CM Diagnosis
202.20	SEZARYS DZ UNS SITE EXTRANOD	ICD-9-CM Diagnosis
202.21	SEZARYS DZ LYMPH NODES HEAD&NECK	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
202.22	SEZARYS DZ INTRATHORACIC LYMPH NODE	ICD-9-CM Diagnosis
202.23	SEZARYS DZ INTRA-ABD LYMPH NODES	ICD-9-CM Diagnosis
202.24	SEZARYS DZ LYMPH NOD AXLLA&UPPR LMB	ICD-9-CM Diagnosis
202.25	SEZARY DZ LYMPH NOD ING REG&LWR LMB	ICD-9-CM Diagnosis
202.26	SEZARYS DZ INTRAPELVIC LYMPH NODES	ICD-9-CM Diagnosis
202.27	SEZARYS DZ OF SPLEEN	ICD-9-CM Diagnosis
202.28	SEZARYS DZ LYMPH NODES MULT SITES	ICD-9-CM Diagnosis
202.3	MALIGNANT HISTIOCYTOSIS	ICD-9-CM Diagnosis
202.30	MAL HISTIOCYTOF XTRANOD&SOLID ORGN	ICD-9-CM Diagnosis
202.31	MAL HISTIOCYTOF NODES HEAD FCE&NCK	ICD-9-CM Diagnosis
202.32	MALIG HISTIOCYTOSIS INTRATHOR NODES	ICD-9-CM Diagnosis
202.33	MALIG HISTIOCYTOSIS INTRA-ABD NODES	ICD-9-CM Diagnosis
202.34	MALIG HISTIOCYTOF NODES AX&UP LIMB	ICD-9-CM Diagnosis
202.35	MAL HISTIO NODES ING REG&LWR LMB	ICD-9-CM Diagnosis
202.36	MALIG HISTIOCYTOSIS INTRAPELV NODES	ICD-9-CM Diagnosis
202.37	MALIGNANT HISTIOCYTOSIS OF SPLEEN	ICD-9-CM Diagnosis
202.38	MALIG HISTIOCYTOSIS NODES MX SITES	ICD-9-CM Diagnosis
202.4	LEUKEMIC RETICULOENDOTHELIOISIS	ICD-9-CM Diagnosis
202.40	LEUKEMIC RETICULOENDOTHLIO UNS SITE	ICD-9-CM Diagnosis
202.41	LEUKMIC RETICULONDOETHLOS HEAD&NCK	ICD-9-CM Diagnosis
202.42	LEUKMC RETCULONDOETHLIOS THORAX NODE	ICD-9-CM Diagnosis
202.43	LEUKMC RTCULONDOETHLIOS INTRA-ABD	ICD-9-CM Diagnosis
202.44	LEUKMIC RETCULONDOETHLIOS AX&UP LMB	ICD-9-CM Diagnosis
202.45	LEUKM RTCULONDOETHLIO ING REG&LW LMB	ICD-9-CM Diagnosis
202.46	LEUKEMIC RETCULONDOETHLIOS INTRAPLVC	ICD-9-CM Diagnosis
202.47	LEUKEMIC RETICULOENDOTHELIOIS SPLEEN	ICD-9-CM Diagnosis
202.48	LEUKEMIC RETICULOENDOTHLIO MX SITES	ICD-9-CM Diagnosis
202.5	LETTERER-SIWE DISEASE	ICD-9-CM Diagnosis
202.50	LETTERER-SIWE DZ UNS XTRANOD	ICD-9-CM Diagnosis
202.51	LETTERER-SIWE DZ NODES HEAD&NECK	ICD-9-CM Diagnosis
202.52	LETTERER-SIWE DZ INTRATHORACIC NODE	ICD-9-CM Diagnosis
202.53	LETTERER-SIWE DZ INTRA-ABD NODES	ICD-9-CM Diagnosis
202.54	LETTERER-SIWE DZ NODE AXLLA&UP LMB	ICD-9-CM Diagnosis
202.55	LETTERER-SIWE DZ NOD ING REG&LW LMB	ICD-9-CM Diagnosis
202.56	LETTERER-SIWE DZ INTRAPELVIC NODES	ICD-9-CM Diagnosis
202.57	LETTERER-SIWE DISEASE OF SPLEEN	ICD-9-CM Diagnosis
202.58	LETTERER-SIWE DZ NODE MULT SITES	ICD-9-CM Diagnosis
202.6	MALIGNANT MAST CELL TUMORS	ICD-9-CM Diagnosis
202.60	MAL MAST CELL TUMR UNS SITE XTRANOD	ICD-9-CM Diagnosis
202.61	MAL MAST CELL TUMRS NODES HEAD&NCK	ICD-9-CM Diagnosis
202.62	MAL MAST CELL TUMRS INTRATHR NODES	ICD-9-CM Diagnosis
202.63	MAL MAST CELL TUMRS INTRA-ABD NODES	ICD-9-CM Diagnosis
202.64	MAL MASTOCYTOSIS AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
202.65	MALIG MAST CELL TUMR ING REG&LW LMB	ICD-9-CM Diagnosis
202.66	MAL MAST CELL TUMRS INTRAPELV NODES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
202.67	MALIGNANT MAST CELL TUMORS SPLEEN	ICD-9-CM Diagnosis
202.68	MALIG MAST CELL TUMRS NODES MX SITE	ICD-9-CM Diagnosis
202.7	PERIPHERAL T-CELL LYMPHOMA	ICD-9-CM Diagnosis
202.70	PTL UNS SITE EXTRANODAL&SOLID ORGAN	ICD-9-CM Diagnosis
202.71	PTL LYMPH NODES HEAD FACE&NECK	ICD-9-CM Diagnosis
202.72	PTL INTRATHORICIC LYMPH NODES	ICD-9-CM Diagnosis
202.73	PTL INTRA-ABDOMINAL LYMPH NODES	ICD-9-CM Diagnosis
202.74	PTL LYMPH NODES AXILLA&UPPER LIMB	ICD-9-CM Diagnosis
202.75	PTL LYMPH NODES INGUINAL&LOW LIMB	ICD-9-CM Diagnosis
202.76	PTL INTRAPELVIC LYMPH NODES	ICD-9-CM Diagnosis
202.77	PERIPHERAL T-CELL LYMPHOMA SPLEEN	ICD-9-CM Diagnosis
202.78	PTL LYMPH NODES MULTIPLE SITES	ICD-9-CM Diagnosis
202.8	OTHER MALIGNANT LYMPHOMAS	ICD-9-CM Diagnosis
202.80	OTH MAL LYMPHOMA UNS SITE-EXTRNOD	ICD-9-CM Diagnosis
202.81	OTH MAL LYMPHOMAS NODES HEAD&NCK	ICD-9-CM Diagnosis
202.82	OTH MALIG LYMPHOMAS INTRATHOR NODES	ICD-9-CM Diagnosis
202.83	OTH MALIG LYMPHOMAS INTRA-ABD NODES	ICD-9-CM Diagnosis
202.84	OTH MAL LYMPHOMAS NODES AX&UP LIMB	ICD-9-CM Diagnosis
202.85	OTH MAL LYMPHOMAS ING REG&LOWR LIMB	ICD-9-CM Diagnosis
202.86	OTH MALIG LYMPHOMAS INTRAPELV NODES	ICD-9-CM Diagnosis
202.87	OTHER MALIGNANT LYMPHOMAS OF SPLEEN	ICD-9-CM Diagnosis
202.88	OTH MALIG LYMPHOMAS NODES MX SITES	ICD-9-CM Diagnosis
202.9	UNS MAL NEO LYMPHOID&HISTCYT TISS	ICD-9-CM Diagnosis
202.90	OTH&UNS MAL LYMPHOD-HSTIO XTRND UNS	ICD-9-CM Diagnosis
202.91	OTH&UNS MAL LYMPHOD-HISTIO HEAD	ICD-9-CM Diagnosis
202.92	OTH & UNS MAL LYMPHOID THORAX	ICD-9-CM Diagnosis
202.93	OTH & UNS MAL LYMPHOID ABDOM	ICD-9-CM Diagnosis
202.94	OTH & UNS MAL LYMPHOID AXILLA	ICD-9-CM Diagnosis
202.95	OTH & UNS MAL LYMPHOID INGUIN	ICD-9-CM Diagnosis
202.96	OTH & UNS MAL LYMPHOID PELVIC	ICD-9-CM Diagnosis
202.97	OTH&UNS MAL NEO LYMPHOD&HISTO SPLEN	ICD-9-CM Diagnosis
202.98	OTH & UNS MAL LYMPHOID MULT SITES	ICD-9-CM Diagnosis
203	MX MYELOMA&IMMUNOPROLIFERAT NEOPLSM	ICD-9-CM Diagnosis
203.0	MULTIPLE MYELOMA	ICD-9-CM Diagnosis
203.00	MM W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
203.01	MULTIPLE MYELOMA IN REMISSION	ICD-9-CM Diagnosis
203.02	MULTIPLE MYELOMA IN RELAPSE	ICD-9-CM Diagnosis
203.1	PLASMA CELL LEUKEMIA	ICD-9-CM Diagnosis
203.10	PCL W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
203.11	PLASMA CELL LEUKEMIA IN REMISSION	ICD-9-CM Diagnosis
203.12	PLASMA CELL LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
203.8	OTHER IMMUNOPROLIFERATIVE NEOPLASMS	ICD-9-CM Diagnosis
203.80	OTH IMMUNOPROLIF NEOPLASM W/O REM	ICD-9-CM Diagnosis
203.81	OTH IMMUNOPROLIF NEOPLSM REMISSION	ICD-9-CM Diagnosis
203.82	OTH IMMUNOPROLIF NEOPLSM IN RELAPSE	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
204	LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.0	ACUTE LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.00	ALL W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
204.01	ACUTE LYMPHOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
204.02	ACUTE LYMPHOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
204.1	CHRONIC LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.10	CLL W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
204.11	CHRONIC LYMPHOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
204.12	CHRON LYMPHOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
204.2	SUBACUTE LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.20	SUBACUTE LL W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
204.21	SUBACUT LYMPHOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
204.22	SUBACUTE LYMPHOID LEUKEMIA RELAPSE	ICD-9-CM Diagnosis
204.8	OTHER LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.80	OTH LL W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
204.81	OTHER LYMPHOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
204.82	OTHER LYMPHOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
204.9	UNSPECIFIED LYMPHOID LEUKEMIA	ICD-9-CM Diagnosis
204.90	UNS LL W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
204.91	UNSPEC LYMPHOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
204.92	UNS LYMPHOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
205	MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.0	ACUTE MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.00	AML W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
205.01	ACUTE MYELOID LEUKEMIA IN REMISSION	ICD-9-CM Diagnosis
205.02	ACUTE MYELOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
205.1	CHRONIC MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.10	CML W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
205.11	CHRONIC MYELOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
205.12	CHRONIC MYELOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
205.2	SUBACUTE MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.20	SUBACUTE ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
205.21	SUBACUTE MYELOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis
205.22	SUBACUT MYELOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
205.3	MYELOID SARCOMA	ICD-9-CM Diagnosis
205.30	MYELOID SARCOMA W/O ACHIEVED REM	ICD-9-CM Diagnosis
205.31	MYELOID SARCOMA IN REMISSION	ICD-9-CM Diagnosis
205.32	MYELOID SARCOMA IN RELAPSE	ICD-9-CM Diagnosis
205.8	OTHER MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.80	OTH ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
205.81	OTHER MYELOID LEUKEMIA IN REMISSION	ICD-9-CM Diagnosis
205.82	OTHER MYELOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
205.9	UNSPECIFIED MYELOID LEUKEMIA	ICD-9-CM Diagnosis
205.90	UNS ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
205.91	UNSPEC MYELOID LEUKEMIA REMISSION	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
205.92	UNS MYELOID LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
206	MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.0	ACUTE MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.00	AML W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
206.01	ACUTE MONOCYTIC LEUKEMIA REMISSION	ICD-9-CM Diagnosis
206.02	ACUTE MONOCYTIC LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
206.1	CHRONIC MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.10	CML W/O MENTION ACHIEVED REMISSION	ICD-9-CM Diagnosis
206.11	CHRON MONOCYTIC LEUKEMIA REMISSION	ICD-9-CM Diagnosis
206.12	CHRON MONOCYTIC LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
206.2	SUBACUTE MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.20	SUBACUTE ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
206.21	SUBACUT MONOCYTIC LEUKEM REMISSION	ICD-9-CM Diagnosis
206.22	SUBACUTE MONOCYTIC LEUKEMIA RELAPSE	ICD-9-CM Diagnosis
206.8	OTHER MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.80	OTH ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
206.81	OTHER MONOCYTIC LEUKEMIA REMISSION	ICD-9-CM Diagnosis
206.82	OTHER MONOCYTIC LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
206.9	UNSPECIFIED MONOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
206.90	UNS ML W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
206.91	UNSPEC MONOCYTIC LEUKEMIA REMISSION	ICD-9-CM Diagnosis
206.92	UNS MONOCYTIC LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
207	OTHER SPECIFIED LEUKEMIA	ICD-9-CM Diagnosis
207.0	ACUTE ERYTHREMIA&ERYTHROLEUKEMIA	ICD-9-CM Diagnosis
207.00	ACUTE ERYTHREMIA & EL W/O REMISSION	ICD-9-CM Diagnosis
207.01	AC ERYTHREMIA&ERYTHROLEUKEM REMISS	ICD-9-CM Diagnosis
207.02	ACUTE ERYTHREMIA AND EL IN RELAPSE	ICD-9-CM Diagnosis
207.1	CHRONIC ERYTHREMIA	ICD-9-CM Diagnosis
207.10	CHRON ERYTHREMIA W/O REMISSION	ICD-9-CM Diagnosis
207.11	CHRONIC ERYTHREMIA IN REMISSION	ICD-9-CM Diagnosis
207.12	CHRONIC ERYTHREMIA IN RELAPSE	ICD-9-CM Diagnosis
207.2	MEGAKARYOCYTIC LEUKEMIA	ICD-9-CM Diagnosis
207.20	MEGAKARYOCTC LEUKEMIA W/O REMISSION	ICD-9-CM Diagnosis
207.21	MEGAKARYOCYTIC LEUKEMIA REMISSION	ICD-9-CM Diagnosis
207.22	MEGAKARYOCYTIC LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
207.8	OTHER SPECIFIED LEUKEMIA	ICD-9-CM Diagnosis
207.80	OTH SPEC LEUKEMIA W/O REMISSION	ICD-9-CM Diagnosis
207.81	OTHER SPECIFIED LEUKEMIA REMISSION	ICD-9-CM Diagnosis
207.82	OTHER SPECIFIED LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
208	LEUKEMIA OF UNSPECIFIED CELL TYPE	ICD-9-CM Diagnosis
208.0	ACUTE LEUKEMIA UNSPEC CELL TYPE	ICD-9-CM Diagnosis
208.00	AC LEUKEMIA UNS CELL W/O REMISSION	ICD-9-CM Diagnosis
208.01	ACUT LEUKEM UNS CELL TYPE REMISSION	ICD-9-CM Diagnosis
208.02	ACUTE LEUKEMIA UNS CELL IN RELAPSE	ICD-9-CM Diagnosis
208.1	CHRONIC LEUKEMIA UNSPEC CELL TYPE	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
208.10	CHRON LEUKEMIA UNS CELL W/O REMISSN	ICD-9-CM Diagnosis
208.11	CHRN LEUKEM UNS CELL TYPE REMISSION	ICD-9-CM Diagnosis
208.12	CHRON LEUKEMIA UNS CELL IN RELAPSE	ICD-9-CM Diagnosis
208.2	SUBACUTE LEUKEMIA UNSPEC CELL TYPE	ICD-9-CM Diagnosis
208.20	SUBACUTE LEUKEMIA UNS CELL W/O REM	ICD-9-CM Diagnosis
208.21	SUBAC LEUKEMIA UNS CELL TYPE REMIS	ICD-9-CM Diagnosis
208.22	SUBACUTE LEUKEMIA UNS CELL RELAPSE	ICD-9-CM Diagnosis
208.8	OTHER LEUKEMIA UNSPEC CELL TYPE	ICD-9-CM Diagnosis
208.80	OTH LEUKEMIA UNS CELL W/O REMISSION	ICD-9-CM Diagnosis
208.81	OTH LEUKEM UNS CELL TYPE REMISSION	ICD-9-CM Diagnosis
208.82	OTH LEUKEMIA UNS CELL IN RELAPSE	ICD-9-CM Diagnosis
208.9	UNSPECIFIED LEUKEMIA	ICD-9-CM Diagnosis
208.90	UNS LEUKEMAI W/O ACHIEVED REMISSION	ICD-9-CM Diagnosis
208.91	UNSPECIFIED LEUKEMIA IN REMISSION	ICD-9-CM Diagnosis
208.92	UNSPECIFIED LEUKEMIA IN RELAPSE	ICD-9-CM Diagnosis
209	NEUROENDOCRINE TUMORS	ICD-9-CM Diagnosis
209.0	MALIG CARCINOID TUMORS SMALL INTEST	ICD-9-CM Diagnosis
209.00	MAL CARCINOID TUMOR SM INTEST UNS	ICD-9-CM Diagnosis
209.01	MALIGNANT CARCINOID TUMOR DUODENUM	ICD-9-CM Diagnosis
209.02	MALIGNANT CARCINOID TUMOR JEJUNUM	ICD-9-CM Diagnosis
209.03	MALIGNANT CARCINOID TUMOR THE ILEUM	ICD-9-CM Diagnosis
209.1	MAL CARCINOID APPX LG INTEST RECTUM	ICD-9-CM Diagnosis
209.10	MAL CARCINOID TUMOR LG INTEST UNS	ICD-9-CM Diagnosis
209.11	MALIGNANT CARCINOID TUMOR APPENDIX	ICD-9-CM Diagnosis
209.12	MALIGNANT CARCINOID TUMOR CECUM	ICD-9-CM Diagnosis
209.13	MAL CARCINOID TUMOR ASCENDING COLON	ICD-9-CM Diagnosis
209.14	MAL CARCINOID TUMOR TRANSVRS COLON	ICD-9-CM Diagnosis
209.15	MALIG CARCINOID TUMOR DESCEND COLON	ICD-9-CM Diagnosis
209.16	MALIG CARCINOID TUMOR SIGMOID COLON	ICD-9-CM Diagnosis
209.17	MALIGNANT CARCINOID TUMOR OF RECTUM	ICD-9-CM Diagnosis
209.2	MAL CARCINOID TUMORS OTH & UNS SITE	ICD-9-CM Diagnosis
209.20	MAL CARCINOID TUMOR UNKN PRIM SITE	ICD-9-CM Diagnosis
209.21	MAL CARCINOID TUMOR BRONCHUS & LUNG	ICD-9-CM Diagnosis
209.22	MALIGNANT CARCINOID TUMOR THYMUS	ICD-9-CM Diagnosis
209.23	MALIGNANT CARCINOID TUMOR STOMACH	ICD-9-CM Diagnosis
209.24	MALIGNANT CARCINOID TUMOR OF KIDNEY	ICD-9-CM Diagnosis
209.25	MALIG CARCINOID TUMOR FOREGUT NOS	ICD-9-CM Diagnosis
209.26	MALIG CARCINOID TUMOR MIDGUT NOS	ICD-9-CM Diagnosis
209.27	MALIG CARCINOID TUMOR HINDGUT NOS	ICD-9-CM Diagnosis
209.29	MALIG CARCINOID TUMOR OTHER SITES	ICD-9-CM Diagnosis
209.3	MALIG PD NEUROENDOCRINE TUMORS	ICD-9-CM Diagnosis
209.30	MALIG PD NEUROENDOCRINE CA ANY SITE	ICD-9-CM Diagnosis
209.31	MERKEL CELL CARCINOMA OF THE FACE	ICD-9-CM Diagnosis
209.32	MERKEL CELL CARCINOMA SCALP & NECK	ICD-9-CM Diagnosis
209.33	MERKEL CELL CARCINOMA OF UPPER LIMB	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
209.34	MERKEL CELL CARCINOMA OF LOWER LIMB	ICD-9-CM Diagnosis
209.35	MERKEL CELL CARCINOMA OF THE TRUNK	ICD-9-CM Diagnosis
209.36	MERKEL CELL CARCINOMA OF OTH SITES	ICD-9-CM Diagnosis
209.4	BENIGN CARCINOID TUMRS SMALL INTEST	ICD-9-CM Diagnosis
209.40	BENIGN CARCINOID TUMR SM INTEST UNS	ICD-9-CM Diagnosis
209.41	BENIGN CARCINOID TUMOR OF DUODENUM	ICD-9-CM Diagnosis
209.42	BENIGN CARCINOID TUMOR OF JEJUNUM	ICD-9-CM Diagnosis
209.43	BENIGN CARCINOID TUMOR OF THE ILEUM	ICD-9-CM Diagnosis
209.5	BENIGN CARCINOID APP LG INTEST RECT	ICD-9-CM Diagnosis
209.50	BENIGN CARCINOID TUMR LG INTEST UNS	ICD-9-CM Diagnosis
209.51	BENIGN CARCINOID TUMOR OF APPENDIX	ICD-9-CM Diagnosis
209.52	BENIGN CARCINOID TUMOR OF THE CECUM	ICD-9-CM Diagnosis
209.53	BENIGN CARCINOID TUMOR ASCEND COLON	ICD-9-CM Diagnosis
209.54	BENIGN CARCINOID TUMOR TRANS COLON	ICD-9-CM Diagnosis
209.55	BENIGN CARCINOID TUMR DESCEND COLON	ICD-9-CM Diagnosis
209.56	BENIGN CARCINOID TUMR SIGMOID COLON	ICD-9-CM Diagnosis
209.57	BENIGN CARCINOID TUMOR OF RECTUM	ICD-9-CM Diagnosis
209.6	BENIGN CARCINOID TUMR OTH&UNS SITE	ICD-9-CM Diagnosis
209.60	BENIGN CARCINOID TUMR UNK PRIM SITE	ICD-9-CM Diagnosis
209.61	BENIGN CARCINOID TUMR BRONCHUS LUNG	ICD-9-CM Diagnosis
209.62	BENIGN CARCINOID TUMOR OF THYMUS	ICD-9-CM Diagnosis
209.63	BENIGN CARCINOID TUMOR OF STOMACH	ICD-9-CM Diagnosis
209.64	BENIGN CARCINOID TUMOR OF KIDNEY	ICD-9-CM Diagnosis
209.65	BENIGN CARCINOID TUMOR FOREGUT NOS	ICD-9-CM Diagnosis
209.66	BENIGN CARCINOID TUMOR MIDGUT NOS	ICD-9-CM Diagnosis
209.67	BENIGN CARCINOID TUMOR HINDGUT NOS	ICD-9-CM Diagnosis
209.69	BENIGN CARCINOID TUMOR OTHER SITES	ICD-9-CM Diagnosis
209.7	SECONDARY NEUROENDOCRINE TUMORS	ICD-9-CM Diagnosis
209.70	SEC NEUROENDOCRIN TUMOR UNSPEC SITE	ICD-9-CM Diagnosis
209.71	SEC NEUROENDOCRIN TUMR DISTANT NODES	ICD-9-CM Diagnosis
209.72	SECONDARY NEUROENDOCRINE TUMOR LIVER	ICD-9-CM Diagnosis
209.73	SECONDARY NEUROENDOCRINE TUMOR BONE	ICD-9-CM Diagnosis
209.74	SEC NEUROENDOCRINE TUMOR PERITONEUM	ICD-9-CM Diagnosis
209.75	SECONDARY MERKEL CELL CARCINOMA	ICD-9-CM Diagnosis
209.79	SEC NEUROENDOCRINE TUMOR OTH SITES	ICD-9-CM Diagnosis
210	BEN NEOPLASM LIP ORAL CAV&PHARYNX	ICD-9-CM Diagnosis
210.0	BENIGN NEOPLASM OF LIP	ICD-9-CM Diagnosis
210.1	BENIGN NEOPLASM OF TONGUE	ICD-9-CM Diagnosis
210.2	BEN NEOPLASM MAJOR SALIVARY GLANDS	ICD-9-CM Diagnosis
210.3	BENIGN NEOPLASM OF FLOOR OF MOUTH	ICD-9-CM Diagnosis
210.4	BEN NEOPLASM OTH&UNSPEC PARTS MOUTH	ICD-9-CM Diagnosis
210.5	BENIGN NEOPLASM OF TONSIL	ICD-9-CM Diagnosis
210.6	BEN NEOPLASM OTH PARTS OROPHARYNX	ICD-9-CM Diagnosis
210.7	BENIGN NEOPLASM OF NASOPHARYNX	ICD-9-CM Diagnosis
210.8	BENIGN NEOPLASM OF HYPOPHARYNX	ICD-9-CM Diagnosis

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Code	Description	Code Type
210.9	BENIGN NEOPLASM PHARYNX UNSPECIFIED	ICD-9-CM Diagnosis
211	BEN NEOPLSM OTH PART DIGESTV SYSTEM	ICD-9-CM Diagnosis
211.0	BENIGN NEOPLASM OF ESOPHAGUS	ICD-9-CM Diagnosis
211.1	BENIGN NEOPLASM OF STOMACH	ICD-9-CM Diagnosis
211.2	BEN NEOPLASM DUODENUM JEJUNUM&ILEUM	ICD-9-CM Diagnosis
211.3	BENIGN NEOPLASM OF COLON	ICD-9-CM Diagnosis
211.4	BENIGN NEOPLASM RECTUM&ANAL CANAL	ICD-9-CM Diagnosis
211.5	BEN NEOPLASM LIVER&BILIARY PASSAGES	ICD-9-CM Diagnosis
211.6	BEN NEO PANC NO ISLETS LANGERHANS	ICD-9-CM Diagnosis
211.7	BENIGN NEOPLASM ISLETS LANGERHANS	ICD-9-CM Diagnosis
211.8	BEN NEOPLASM RETROPERITON&PERITON	ICD-9-CM Diagnosis
211.9	BEN NEO OTH&UNS SITE DIGESTV SYS	ICD-9-CM Diagnosis
212	BEN NEOPLASM RESP&INTRATHOR ORGN	ICD-9-CM Diagnosis
212.0	BEN NEO NASAL CAV MID EAR & SINUS	ICD-9-CM Diagnosis
212.1	BENIGN NEOPLASM OF LARYNX	ICD-9-CM Diagnosis
212.2	BENIGN NEOPLASM OF TRACHEA	ICD-9-CM Diagnosis
212.3	BENIGN NEOPLASM OF BRONCHUS&LUNG	ICD-9-CM Diagnosis
212.4	BENIGN NEOPLASM OF PLEURA	ICD-9-CM Diagnosis
212.5	BENIGN NEOPLASM OF MEDIASTINUM	ICD-9-CM Diagnosis
212.6	BENIGN NEOPLASM OF THYMUS	ICD-9-CM Diagnosis
212.7	BENIGN NEOPLASM OF HEART	ICD-9-CM Diagnosis
212.8	BEN NEO OTH SITE RESP&INTRATHR ORGN	ICD-9-CM Diagnosis
212.9	BEN NEO RESP&INTRATHR ORGN SITE UNS	ICD-9-CM Diagnosis
213	BEN NEOPLASM BONE&ARTICLR CARTILAGE	ICD-9-CM Diagnosis
213.0	BENIGN NEOPLASM BONES SKULL&FACE	ICD-9-CM Diagnosis
213.1	BENIGN NEOPLASM OF LOWER JAW BONE	ICD-9-CM Diagnosis
213.2	BEN NEO VERT COLMN NOT SACRM&COCCYX	ICD-9-CM Diagnosis
213.3	BEN NEOPLASM RIBS STERNUM&CLAVICLE	ICD-9-CM Diagnosis
213.4	BEN NEOPLSM SCAP&LNG BNS UPPER LIMB	ICD-9-CM Diagnosis
213.5	BEN NEOPLASM SHORT BONES UPPER LIMB	ICD-9-CM Diagnosis
213.6	BEN NEOPLASM PELV BNS SACRUM&COCCYX	ICD-9-CM Diagnosis
213.7	BEN NEOPLASM LONG BONES LOWER LIMB	ICD-9-CM Diagnosis
213.8	BEN NEOPLASM SHORT BONES LOWER LIMB	ICD-9-CM Diagnosis
213.9	BEN NEO BN&ARTICLR CART SITE UNS	ICD-9-CM Diagnosis
214	LIPOMA	ICD-9-CM Diagnosis
214.0	LIPOMA SKIN&SUBCUT TISSUE FACE	ICD-9-CM Diagnosis
214.1	LIPOMA OTH SKIN&SUBCUTANEOUS TISSUE	ICD-9-CM Diagnosis
214.2	LIPOMA OF INTRATHORACIC ORGANS	ICD-9-CM Diagnosis
214.3	LIPOMA OF INTRA-ABDOMINAL ORGANS	ICD-9-CM Diagnosis
214.4	LIPOMA OF SPERMATIC CORD	ICD-9-CM Diagnosis
214.8	LIPOMA OF OTHER SPECIFIED SITES	ICD-9-CM Diagnosis
214.9	LIPOMA OF UNSPECIFIED SITE	ICD-9-CM Diagnosis
215	OTH BEN NEOPLSM CNCTV&OTH SFT TISS	ICD-9-CM Diagnosis
215.0	OTH BEN NEO CNCTV&OTH TISS HEAD&NCK	ICD-9-CM Diagnosis
215.2	OTH BEN NEO OTH SFT TIS ARM W/SHLDR	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
215.3	OTH BEN NEO OTH SFT TISS LEG W/ HIP	ICD-9-CM Diagnosis
215.4	OTH BEN NEO CNCTV&OTH SFT TISS THOR	ICD-9-CM Diagnosis
215.5	OTH BEN NEOPLSM CNCTV&SFT TISS ABD	ICD-9-CM Diagnosis
215.6	OTH BEN NEO CNCTV&OTH SFT TISS PELV	ICD-9-CM Diagnosis
215.7	OTH BEN NEO CNCTV&OTH TISS TRNK UNS	ICD-9-CM Diagnosis
215.8	OTH BEN NEO CNCTV&OTH TISS OTH SITE	ICD-9-CM Diagnosis
215.9	OTH BEN NEO CNCTV&OTH SFT TISS	ICD-9-CM Diagnosis
216	BENIGN NEOPLASM OF SKIN	ICD-9-CM Diagnosis
216.0	BENIGN NEOPLASM OF SKIN OF LIP	ICD-9-CM Diagnosis
216.1	BEN NEOPLASM EYELID INCL CANTHUS	ICD-9-CM Diagnosis
216.2	BEN NEOPLASM EAR&EXT AUDITRY CANAL	ICD-9-CM Diagnosis
216.3	BEN NEOPLSM SKN OTH&UNSPEC PART FCE	ICD-9-CM Diagnosis
216.4	BENIGN NEOPLASM SCALP&SKIN NECK	ICD-9-CM Diagnosis
216.5	BEN NEOPLASM SKIN TRUNK NO SCROTUM	ICD-9-CM Diagnosis
216.6	BEN NEOPLSM SKN UP LIMB INCL SHLDR	ICD-9-CM Diagnosis
216.7	BEN NEOPLASM SKIN LOW LIMB INCL HIP	ICD-9-CM Diagnosis
216.8	BENIGN NEOPLASM OTH SPEC SITES SKIN	ICD-9-CM Diagnosis
216.9	BENIGN NEOPLASM SKIN SITE UNSPEC	ICD-9-CM Diagnosis
217	BENIGN NEOPLASM OF BREAST	ICD-9-CM Diagnosis
218	UTERINE LEIOMYOMA	ICD-9-CM Diagnosis
218.0	SUBMUCOUS LEIOMYOMA OF UTERUS	ICD-9-CM Diagnosis
218.1	INTRAMURAL LEIOMYOMA OF UTERUS	ICD-9-CM Diagnosis
218.2	SUBSEROUS LEIOMYOMA OF UTERUS	ICD-9-CM Diagnosis
218.9	LEIOMYOMA OF UTERUS, UNSPECIFIED	ICD-9-CM Diagnosis
219	OTHER BENIGN NEOPLASM OF UTERUS	ICD-9-CM Diagnosis
219.0	BENIGN NEOPLASM OF CERVIX UTERI	ICD-9-CM Diagnosis
219.1	BENIGN NEOPLASM OF CORPUS UTERI	ICD-9-CM Diagnosis
219.8	BEN NEOPLASM OTH SPEC PARTS UTERUS	ICD-9-CM Diagnosis
219.9	BENIGN NEOPLASM UTERUS PART UNSPEC	ICD-9-CM Diagnosis
220	BENIGN NEOPLASM OF OVARY	ICD-9-CM Diagnosis
221	BEN NEOPLASM OTH FE GENITAL ORGANS	ICD-9-CM Diagnosis
221.0	BEN NEOPLSM FALLOP TUBE&UTERINE LIG	ICD-9-CM Diagnosis
221.1	BENIGN NEOPLASM OF VAGINA	ICD-9-CM Diagnosis
221.2	BENIGN NEOPLASM OF VULVA	ICD-9-CM Diagnosis
221.8	BEN NEO OTH SPEC SITE FE GNT ORGN	ICD-9-CM Diagnosis
221.9	BEN NEOPLSM FE GENIT ORGN SITE UNS	ICD-9-CM Diagnosis
222	BENIGN NEOPLASM MALE GENITAL ORGANS	ICD-9-CM Diagnosis
222.0	BENIGN NEOPLASM OF TESTIS	ICD-9-CM Diagnosis
222.1	BENIGN NEOPLASM OF PENIS	ICD-9-CM Diagnosis
222.2	BENIGN NEOPLASM OF PROSTATE	ICD-9-CM Diagnosis
222.3	BENIGN NEOPLASM OF EPIDIDYMIS	ICD-9-CM Diagnosis
222.4	BENIGN NEOPLASM OF SCROTUM	ICD-9-CM Diagnosis
222.8	BEN NEO OTH SPEC SITE MALE GNT ORGN	ICD-9-CM Diagnosis
222.9	BEN NEOPLSM MALE GNT ORGN SITE UNS	ICD-9-CM Diagnosis
223	BEN NEOPLASM KIDNEY&OTH URIN ORGN	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
223.0	BEN NEOPLASM KIDNEY EXCEPT PELVIS	ICD-9-CM Diagnosis
223.1	BENIGN NEOPLASM OF RENAL PELVIS	ICD-9-CM Diagnosis
223.2	BENIGN NEOPLASM OF URETER	ICD-9-CM Diagnosis
223.3	BENIGN NEOPLASM OF BLADDER	ICD-9-CM Diagnosis
223.8	BEN NEOPLSM OTH SPEC SITE URIN ORGN	ICD-9-CM Diagnosis
223.81	BENIGN NEOPLASM OF URETHRA	ICD-9-CM Diagnosis
223.89	BEN NEOPLSM OTH SPEC SITE URIN ORGN	ICD-9-CM Diagnosis
223.9	BEN NEOPLASM URIN ORGAN SITE UNSPEC	ICD-9-CM Diagnosis
224	BENIGN NEOPLASM OF EYE	ICD-9-CM Diagnosis
224.0	BENIGN NEOPLASM EYEBALL	ICD-9-CM Diagnosis
224.1	BENIGN NEOPLASM OF ORBIT	ICD-9-CM Diagnosis
224.2	BENIGN NEOPLASM OF LACRIMAL GLAND	ICD-9-CM Diagnosis
224.3	BENIGN NEOPLASM OF CONJUNCTIVA	ICD-9-CM Diagnosis
224.4	BENIGN NEOPLASM OF CORNEA	ICD-9-CM Diagnosis
224.5	BENIGN NEOPLASM OF RETINA	ICD-9-CM Diagnosis
224.6	BENIGN NEOPLASM OF CHOROID	ICD-9-CM Diagnosis
224.7	BENIGN NEOPLASM OF LACRIMAL DUCT	ICD-9-CM Diagnosis
224.8	BENIGN NEOPLASM OTH SPEC PARTS EYE	ICD-9-CM Diagnosis
224.9	BENIGN NEOPLASM EYE PART UNSPEC	ICD-9-CM Diagnosis
225	BEN NEOPLSM BRAIN&OTH PART NERV SYS	ICD-9-CM Diagnosis
225.0	BENIGN NEOPLASM OF BRAIN	ICD-9-CM Diagnosis
225.1	BENIGN NEOPLASM OF CRANIAL NERVES	ICD-9-CM Diagnosis
225.2	BENIGN NEOPLASM CEREBRAL MENINGES	ICD-9-CM Diagnosis
225.3	BENIGN NEOPLASM OF SPINAL CORD	ICD-9-CM Diagnosis
225.4	BENIGN NEOPLASM OF SPINAL MENINGES	ICD-9-CM Diagnosis
225.8	BEN NEOPLSM OTH SPEC SITE NERV SYS	ICD-9-CM Diagnosis
225.9	BEN NEOPLSM NERV SYSTEM PART UNSPEC	ICD-9-CM Diagnosis
226	BENIGN NEOPLASM OF THYROID GLANDS	ICD-9-CM Diagnosis
227	BEN NEO OTH ENDOCRN GLND&REL STRCT	ICD-9-CM Diagnosis
227.0	BENIGN NEOPLASM OF ADRENAL GLAND	ICD-9-CM Diagnosis
227.1	BENIGN NEOPLASM PARATHYROID GLAND	ICD-9-CM Diagnosis
227.3	BEN NEO PITUITRY&CRANIOPHRYNGL DUCT	ICD-9-CM Diagnosis
227.4	BENIGN NEOPLASM OF PINEAL GLAND	ICD-9-CM Diagnosis
227.5	BENIGN NEOPLASM OF CAROTID BODY	ICD-9-CM Diagnosis
227.6	BEN NEO AORTC BDY&OTH PARAGANGLIA	ICD-9-CM Diagnosis
227.8	BEN NEO OTH ENDOCRN GLND&REL STRCT	ICD-9-CM Diagnosis
227.9	BEN NEOPLSM ENDOCRN GLAND SITE UNS	ICD-9-CM Diagnosis
228	HEMANGIOMA&LYMPHANGIOMA ANY SITE	ICD-9-CM Diagnosis
228.0	HEMANGIOMA, ANY SITE	ICD-9-CM Diagnosis
228.00	HEMANGIOMA OF UNSPECIFIED SITE	ICD-9-CM Diagnosis
228.01	HEMANGIOMA SKIN&SUBCUTANEOUS TISSUE	ICD-9-CM Diagnosis
228.02	HEMANGIOMA INTRACRANIAL STRUCTURES	ICD-9-CM Diagnosis
228.03	HEMANGIOMA OF RETINA	ICD-9-CM Diagnosis
228.04	HEMANGIOMA INTRA-ABD STRUCTURES	ICD-9-CM Diagnosis
228.09	HEMANGIOMA OF OTHER SITES	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
228.1	LYMPHANGIOMA, ANY SITE	ICD-9-CM Diagnosis
229	BENIGN NEOPLASM OTHER&UNSPEC SITES	ICD-9-CM Diagnosis
229.0	BENIGN NEOPLASM OF LYMPH NODES	ICD-9-CM Diagnosis
229.8	BENIGN NEOPLASM OTHER SPEC SITES	ICD-9-CM Diagnosis
229.9	BENIGN NEOPLASM OF UNSPECIFIED SITE	ICD-9-CM Diagnosis
230	CARCINOMA SITU OF DIGESTIVE ORGANS	ICD-9-CM Diagnosis
230.0	CA SITU LIP ORAL CAVITY&PHARYNX	ICD-9-CM Diagnosis
230.1	CARCINOMA IN SITU OF ESOPHAGUS	ICD-9-CM Diagnosis
230.2	CARCINOMA IN SITU OF STOMACH	ICD-9-CM Diagnosis
230.3	CARCINOMA IN SITU OF COLON	ICD-9-CM Diagnosis
230.4	CARCINOMA IN SITU OF RECTUM	ICD-9-CM Diagnosis
230.5	CARCINOMA IN SITU OF ANAL CANAL	ICD-9-CM Diagnosis
230.6	CARCINOMA SITU OF ANUS UNSPECIFIED	ICD-9-CM Diagnosis
230.7	CA SITU OTH&UNSPEC PARTS INTESTINE	ICD-9-CM Diagnosis
230.8	CARCINOMA SITU LIVER&BILIARY SYSTEM	ICD-9-CM Diagnosis
230.9	CA SITU OTH&UNSPEC DIGESTIVE ORGANS	ICD-9-CM Diagnosis
231	CARCINOMA SITU RESPIRATORY SYSTEM	ICD-9-CM Diagnosis
231.0	CARCINOMA IN SITU OF LARYNX	ICD-9-CM Diagnosis
231.1	CARCINOMA IN SITU OF TRACHEA	ICD-9-CM Diagnosis
231.2	CARCINOMA IN SITU OF BRONCHUS&LUNG	ICD-9-CM Diagnosis
231.8	CA SITU OTH SPEC PARTS RESP SYSTEM	ICD-9-CM Diagnosis
231.9	CA SITU RESP SYSTEM PART UNSPEC	ICD-9-CM Diagnosis
232	CARCINOMA IN SITU OF SKIN	ICD-9-CM Diagnosis
232.0	CARCINOMA IN SITU OF SKIN OF LIP	ICD-9-CM Diagnosis
232.1	CA SITU EYELID INCLUDING CANTHUS	ICD-9-CM Diagnosis
232.2	CA SITU SKIN EAR&EXT AUDITRY CANAL	ICD-9-CM Diagnosis
232.3	CA SITU SKIN OTH&UNSPEC PARTS FACE	ICD-9-CM Diagnosis
232.4	CARCINOMA SITU SCALP&SKIN NECK	ICD-9-CM Diagnosis
232.5	CA SITU SKIN TRUNK EXCEPT SCROTUM	ICD-9-CM Diagnosis
232.6	CA SITU SKIN UPPER LIMB INCL SHLDR	ICD-9-CM Diagnosis
232.7	CA SITU SKIN LOWER LIMB INCL HIP	ICD-9-CM Diagnosis
232.8	CARCINOMA SITU OTH SPEC SITES SKIN	ICD-9-CM Diagnosis
232.9	CARCINOMA SITU SKIN SITE UNSPEC	ICD-9-CM Diagnosis
233	CA SITU BREAST&GENITOURINARY SYSTEM	ICD-9-CM Diagnosis
233.0	CARCINOMA IN SITU OF BREAST	ICD-9-CM Diagnosis
233.1	CARCINOMA IN SITU OF CERVIX UTERI	ICD-9-CM Diagnosis
233.2	CA SITU OTH&UNSPEC PARTS UTERUS	ICD-9-CM Diagnosis
233.3	CA SITU OTH&UNSPEC FE GENITAL ORGN	ICD-9-CM Diagnosis
233.30	CA IN SITU UNS FEMALE GENITAL ORGAN	ICD-9-CM Diagnosis
233.31	CARCINOMA IN SITU VAGINA	ICD-9-CM Diagnosis
233.32	CARCINOMA IN SITU VULVA	ICD-9-CM Diagnosis
233.39	CA IN SITU OTH FEMALE GENITAL ORGAN	ICD-9-CM Diagnosis
233.4	CARCINOMA IN SITU OF PROSTATE	ICD-9-CM Diagnosis
233.5	CARCINOMA IN SITU OF PENIS	ICD-9-CM Diagnosis
233.6	CA SITU OTH&UNSPEC MALE GENIT ORGN	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
233.7	CARCINOMA IN SITU OF BLADDER	ICD-9-CM Diagnosis
233.9	CA SITU OTH&UNSPEC URINARY ORGANS	ICD-9-CM Diagnosis
234	CARCINOMA SITU OTHER&UNSPEC SITES	ICD-9-CM Diagnosis
234.0	CARCINOMA IN SITU OF EYE	ICD-9-CM Diagnosis
234.8	CARCINOMA SITU OTHER SPEC SITES	ICD-9-CM Diagnosis
234.9	CARCINOMA IN SITU, SITE UNSPECIFIED	ICD-9-CM Diagnosis
235	NEOPLSM UNCERT BHV DIGESTV&RESP SYS	ICD-9-CM Diagnosis
235.0	NEOPLSM UNCERT BHV MAJ SALIV GLND	ICD-9-CM Diagnosis
235.1	NEO UNCERT BHV LIP ORL CAV&PHARYNX	ICD-9-CM Diagnosis
235.2	NEO UNCERT BHV STOMACH INTEST&RECT	ICD-9-CM Diagnosis
235.3	NEO UNCERT BHV LIVER&BILI PASSAGES	ICD-9-CM Diagnosis
235.4	NEO UNCERT BHV RETROPERITON&PERITON	ICD-9-CM Diagnosis
235.5	NEO UNCERT BHV OTH&UNS DIGESTV ORGN	ICD-9-CM Diagnosis
235.6	NEOPLASM UNCERTAIN BEHAVIOR LARYNX	ICD-9-CM Diagnosis
235.7	NEO UNCERT BHV TRACH BRONCHUS&LUNG	ICD-9-CM Diagnosis
235.8	NEO UNCERT BHV PLEU THYMUS&MEDIAS	ICD-9-CM Diagnosis
235.9	NEO UNCERT BHV OTH&UNS RESP ORGN	ICD-9-CM Diagnosis
236	NEOPLASM UNCERTAIN BEHAVIOR GU ORGN	ICD-9-CM Diagnosis
236.0	NEOPLASM UNCERTAIN BEHAVIOR UTERUS	ICD-9-CM Diagnosis
236.1	NEOPLASM UNCERTAIN BHV PLACENTA	ICD-9-CM Diagnosis
236.2	NEOPLASM UNCERTAIN BEHAVIOR OVARY	ICD-9-CM Diagnosis
236.3	NEO UNCERT BHV OTH&UNS FE GNT ORGN	ICD-9-CM Diagnosis
236.4	NEOPLASM UNCERTAIN BEHAVIOR TESTIS	ICD-9-CM Diagnosis
236.5	NEOPLASM UNCERTAIN BEHAVIOR PROS	ICD-9-CM Diagnosis
236.6	NEO UNCERT BHV UNS MALE GNT ORGN	ICD-9-CM Diagnosis
236.7	NEOPLASM UNCERTAIN BEHAVIOR BLADDER	ICD-9-CM Diagnosis
236.9	NEO UNCERT BHV OTH&UNS URIN ORGN	ICD-9-CM Diagnosis
236.90	NEOPLSM UNCERT BHV URIN ORGN UNSPEC	ICD-9-CM Diagnosis
236.91	NEOPLSM UNCERTAIN BHV KIDNEY&URETER	ICD-9-CM Diagnosis
236.99	NEO UNCERT BHV OTH&UNS URIN ORGN	ICD-9-CM Diagnosis
237	NEO UNCERT BHV ENDOCRN GLND&NRV SYS	ICD-9-CM Diagnosis
237.0	NEO UNCERT BHV PITUITARY GLAND	ICD-9-CM Diagnosis
237.1	NEOPLASM UNCERTAIN BHV PINEAL GLAND	ICD-9-CM Diagnosis
237.2	NEOPLSM UNCERTAIN BHV ADRENAL GLAND	ICD-9-CM Diagnosis
237.3	NEOPLASM UNCERTAIN BHV PARAGANGLIA	ICD-9-CM Diagnosis
237.4	NEO UNCERT BHV OTH&UNS ENDOCRN GLND	ICD-9-CM Diagnosis
237.5	NEOPLSM UNCERTAIN BHV BRAIN&SP CORD	ICD-9-CM Diagnosis
237.6	NEOPLASM UNCERTAIN BHV MENINGES	ICD-9-CM Diagnosis
237.7	NEUROFIBROMATOSIS	ICD-9-CM Diagnosis
237.70	NEUROFIBROMATOSIS, UNSPECIFIED	ICD-9-CM Diagnosis
237.71	NEUROFIBROMATOSIS, TYPE 1	ICD-9-CM Diagnosis
237.72	NEUROFIBROMATOSIS, TYPE 2	ICD-9-CM Diagnosis
237.73	SCHWANNOMATOSIS	ICD-9-CM Diagnosis
237.79	OTHER NEUROFIBROMATOSIS	ICD-9-CM Diagnosis
237.9	NEO UNCERT BHV OTH&UNS PART NRV SYS	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
238	NEO UNCERT BHV OTH&UNS SITE&TISS	ICD-9-CM Diagnosis
238.0	NEOPLSM UNCERT BHV BN&ARTICLR CART	ICD-9-CM Diagnosis
238.1	NEO UNCERT BHV CNCTV&OTH SFT TISS	ICD-9-CM Diagnosis
238.2	NEOPLASM UNCERTAIN BEHAVIOR SKIN	ICD-9-CM Diagnosis
238.3	NEOPLASM UNCERTAIN BEHAVIOR BREAST	ICD-9-CM Diagnosis
238.4	NEO UNCERT BHV POLYCYTHEMIA VERA	ICD-9-CM Diagnosis
238.5	NEO UNCERT BHV HISTCYT&MAST CELLS	ICD-9-CM Diagnosis
238.6	NEOPLASM UNCERTAIN BHV PLASMA CELLS	ICD-9-CM Diagnosis
238.7	NEO UNCERT BHV OTH LYMPH&HEMATOPOT	ICD-9-CM Diagnosis
238.71	ESSENTIAL THROMBOCYTHEMIA	ICD-9-CM Diagnosis
238.72	LW GRADE MYELOYDYSPLSTC SYNDROME LES	ICD-9-CM Diagnosis
238.73	HIGH GRADE MYELOYDYSPLSTC SYND LES	ICD-9-CM Diagnosis
238.74	MYELOYDYSPLASTIC SYNDROME W/5Q DEL	ICD-9-CM Diagnosis
238.75	MYELOYDYSPLASTIC SYNDROME UNSPEC	ICD-9-CM Diagnosis
238.76	MYELOFIBROSIS W/MYELOID METAPLASIA	ICD-9-CM Diagnosis
238.77	POST-TRANSPLANT LYMPHOPROLIF D/O	ICD-9-CM Diagnosis
238.79	OTH LYMPHATIC&HEMATOPOIETIC TISSUES	ICD-9-CM Diagnosis
238.8	NEOPLSM UNCERTAIN BHV OTH SPEC SITE	ICD-9-CM Diagnosis
238.9	NEOPLASM UNCERTAIN BHV SITE UNSPEC	ICD-9-CM Diagnosis
239	NEOPLASMS OF UNSPECIFIED NATURE	ICD-9-CM Diagnosis
239.0	NEOPLASM UNSPEC NATR DIGESTV SYSTEM	ICD-9-CM Diagnosis
239.1	NEOPLASM UNSPEC NATURE RESP SYSTEM	ICD-9-CM Diagnosis
239.2	NEOPLSM UNSPEC NATR BN SFT TISS&SKN	ICD-9-CM Diagnosis
239.3	NEOPLASM UNSPECIFIED NATURE BREAST	ICD-9-CM Diagnosis
239.4	NEOPLASM UNSPECIFIED NATURE BLADDER	ICD-9-CM Diagnosis
239.5	NEOPLASM UNSPEC NATURE OTH GU ORGN	ICD-9-CM Diagnosis
239.6	NEOPLASM UNSPECIFIED NATURE BRAIN	ICD-9-CM Diagnosis
239.7	NEO UNS NATUR ENDOCRNE&OTH NERV SYS	ICD-9-CM Diagnosis
239.8	NEOPLASM UNSPEC NATR OTH SPEC SITES	ICD-9-CM Diagnosis
239.81	NEOPLSMS UNS NATR RETINA & CHOROID	ICD-9-CM Diagnosis
239.89	NEOPLSM UNSPEC NATR OTH SPEC SITES	ICD-9-CM Diagnosis
239.9	NEOPLASM UNSPEC NATURE SITE UNSPEC	ICD-9-CM Diagnosis
V66.2	Convalescence and palliative care following chemotherapy	ICD-9-CM Diagnosis
V67.2	Follow Up Examination Following Chemotherapy	ICD-9-CM Diagnosis
V58.1	Cancer chemotherapy treatment	ICD-9-CM Diagnosis
V58.0	Radiation therapy	ICD-9-CM Diagnosis
V66.1	Radiation therapy	ICD-9-CM Diagnosis
77401	Radiation therapy	CPT-4
77402	Radiation therapy	CPT-4
77403	Radiation therapy	CPT-4
77404	Radiation therapy	CPT-4
77405	Radiation therapy	CPT-4
77406	Radiation therapy	CPT-4
77407	Radiation therapy	CPT-4
77408	Radiation therapy	CPT-4

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
77409	Radiation therapy	CPT-4
77410	Radiation therapy	CPT-4
77411	Radiation therapy	CPT-4
77412	Radiation therapy	CPT-4
77413	Radiation therapy	CPT-4
77414	Radiation therapy	CPT-4
77415	Radiation therapy	CPT-4
77416	Radiation therapy	CPT-4
77417	Radiation therapy	CPT-4
77418	Radiation therapy	CPT-4
77419	Radiation therapy	CPT-4
77420	Radiation therapy	CPT-4
77421	Radiation therapy	CPT-4
77422	Radiation therapy	CPT-4
77423	Radiation therapy	CPT-4
77424	Radiation therapy	CPT-4
77425	Radiation therapy	CPT-4
77426	Radiation therapy	CPT-4
77427	Radiation therapy	CPT-4
77428	Radiation therapy	CPT-4
77429	Radiation therapy	CPT-4
77430	Radiation therapy	CPT-4
77431	Radiation therapy	CPT-4
77432	Radiation therapy	CPT-4
77433	Radiation therapy	CPT-4
77434	Radiation therapy	CPT-4
77435	Radiation therapy	CPT-4
77436	Radiation therapy	CPT-4
77437	Radiation therapy	CPT-4
77438	Radiation therapy	CPT-4
77439	Radiation therapy	CPT-4
77440	Radiation therapy	CPT-4
77441	Radiation therapy	CPT-4
77442	Radiation therapy	CPT-4
77443	Radiation therapy	CPT-4
77444	Radiation therapy	CPT-4
77445	Radiation therapy	CPT-4
77446	Radiation therapy	CPT-4
77447	Radiation therapy	CPT-4
77448	Radiation therapy	CPT-4
77449	Radiation therapy	CPT-4
77450	Radiation therapy	CPT-4
77451	Radiation therapy	CPT-4
77452	Radiation therapy	CPT-4
77453	Radiation therapy	CPT-4

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
77454	Radiation therapy	CPT-4
77455	Radiation therapy	CPT-4
77456	Radiation therapy	CPT-4
77457	Radiation therapy	CPT-4
77458	Radiation therapy	CPT-4
77459	Radiation therapy	CPT-4
77460	Radiation therapy	CPT-4
77461	Radiation therapy	CPT-4
77462	Radiation therapy	CPT-4
77463	Radiation therapy	CPT-4
77464	Radiation therapy	CPT-4
77465	Radiation therapy	CPT-4
77466	Radiation therapy	CPT-4
77467	Radiation therapy	CPT-4
77468	Radiation therapy	CPT-4
77469	Radiation therapy	CPT-4
77470	Radiation therapy	CPT-4
77471	Radiation therapy	CPT-4
77472	Radiation therapy	CPT-4
77473	Radiation therapy	CPT-4
77474	Radiation therapy	CPT-4
77475	Radiation therapy	CPT-4
77476	Radiation therapy	CPT-4
77477	Radiation therapy	CPT-4
77478	Radiation therapy	CPT-4
77479	Radiation therapy	CPT-4
77480	Radiation therapy	CPT-4
77481	Radiation therapy	CPT-4
77482	Radiation therapy	CPT-4
77483	Radiation therapy	CPT-4
77484	Radiation therapy	CPT-4
77485	Radiation therapy	CPT-4
77486	Radiation therapy	CPT-4
77487	Radiation therapy	CPT-4
77488	Radiation therapy	CPT-4
77489	Radiation therapy	CPT-4
77490	Radiation therapy	CPT-4
77491	Radiation therapy	CPT-4
77492	Radiation therapy	CPT-4
77493	Radiation therapy	CPT-4
77494	Radiation therapy	CPT-4
77495	Radiation therapy	CPT-4
77496	Radiation therapy	CPT-4
77497	Radiation therapy	CPT-4
77498	Radiation therapy	CPT-4

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
77499	Radiation therapy	CPT-4
77520	Radiation therapy	CPT-4
77523	Radiation therapy	CPT-4
77750	Radiation therapy	CPT-4
77751	Radiation therapy	CPT-4
77752	Radiation therapy	CPT-4
77753	Radiation therapy	CPT-4
77754	Radiation therapy	CPT-4
77755	Radiation therapy	CPT-4
77756	Radiation therapy	CPT-4
77757	Radiation therapy	CPT-4
77758	Radiation therapy	CPT-4
77759	Radiation therapy	CPT-4
77760	Radiation therapy	CPT-4
77761	Radiation therapy	CPT-4
77762	Radiation therapy	CPT-4
77763	Radiation therapy	CPT-4
77764	Radiation therapy	CPT-4
77765	Radiation therapy	CPT-4
77766	Radiation therapy	CPT-4
77767	Radiation therapy	CPT-4
77768	Radiation therapy	CPT-4
77769	Radiation therapy	CPT-4
77770	Radiation therapy	CPT-4
77771	Radiation therapy	CPT-4
77772	Radiation therapy	CPT-4
77773	Radiation therapy	CPT-4
77774	Radiation therapy	CPT-4
77775	Radiation therapy	CPT-4
77776	Radiation therapy	CPT-4
77777	Radiation therapy	CPT-4
77778	Radiation therapy	CPT-4
77779	Radiation therapy	CPT-4
77780	Radiation therapy	CPT-4
77781	Radiation therapy	CPT-4
77782	Radiation therapy	CPT-4
77783	Radiation therapy	CPT-4
77784	Radiation therapy	CPT-4
77785	Radiation therapy	CPT-4
77786	Radiation therapy	CPT-4
77787	Radiation therapy	CPT-4
77788	Radiation therapy	CPT-4
77789	Radiation therapy	CPT-4
77790	Radiation therapy	CPT-4
77791	Radiation therapy	CPT-4

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
77792	Radiation therapy	CPT-4
77793	Radiation therapy	CPT-4
77794	Radiation therapy	CPT-4
77795	Radiation therapy	CPT-4
77796	Radiation therapy	CPT-4
77797	Radiation therapy	CPT-4
77798	Radiation therapy	CPT-4
77799	Radiation therapy	CPT-4
J9000	Cancer chemotherapy treatment	HCPCS
J9001	Cancer chemotherapy treatment	HCPCS
J9002	Cancer chemotherapy treatment	HCPCS
J9003	Cancer chemotherapy treatment	HCPCS
J9004	Cancer chemotherapy treatment	HCPCS
J9005	Cancer chemotherapy treatment	HCPCS
J9006	Cancer chemotherapy treatment	HCPCS
J9007	Cancer chemotherapy treatment	HCPCS
J9008	Cancer chemotherapy treatment	HCPCS
J9009	Cancer chemotherapy treatment	HCPCS
J9010	Cancer chemotherapy treatment	HCPCS
J9011	Cancer chemotherapy treatment	HCPCS
J9012	Cancer chemotherapy treatment	HCPCS
J9013	Cancer chemotherapy treatment	HCPCS
J9014	Cancer chemotherapy treatment	HCPCS
J9015	Cancer chemotherapy treatment	HCPCS
J9016	Cancer chemotherapy treatment	HCPCS
J9017	Cancer chemotherapy treatment	HCPCS
J9018	Cancer chemotherapy treatment	HCPCS
J9019	Cancer chemotherapy treatment	HCPCS
J9020	Cancer chemotherapy treatment	HCPCS
J9021	Cancer chemotherapy treatment	HCPCS
J9022	Cancer chemotherapy treatment	HCPCS
J9023	Cancer chemotherapy treatment	HCPCS
J9024	Cancer chemotherapy treatment	HCPCS
J9025	Cancer chemotherapy treatment	HCPCS
J9026	Cancer chemotherapy treatment	HCPCS
J9027	Cancer chemotherapy treatment	HCPCS
J9028	Cancer chemotherapy treatment	HCPCS
J9029	Cancer chemotherapy treatment	HCPCS
J9030	Cancer chemotherapy treatment	HCPCS
J9031	Cancer chemotherapy treatment	HCPCS
J9032	Cancer chemotherapy treatment	HCPCS
J9033	Cancer chemotherapy treatment	HCPCS
J9034	Cancer chemotherapy treatment	HCPCS
J9035	Cancer chemotherapy treatment	HCPCS
J9036	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9037	Cancer chemotherapy treatment	HCPCS
J9038	Cancer chemotherapy treatment	HCPCS
J9039	Cancer chemotherapy treatment	HCPCS
J9040	Cancer chemotherapy treatment	HCPCS
J9041	Cancer chemotherapy treatment	HCPCS
J9042	Cancer chemotherapy treatment	HCPCS
J9043	Cancer chemotherapy treatment	HCPCS
J9044	Cancer chemotherapy treatment	HCPCS
J9045	Cancer chemotherapy treatment	HCPCS
J9046	Cancer chemotherapy treatment	HCPCS
J9047	Cancer chemotherapy treatment	HCPCS
J9048	Cancer chemotherapy treatment	HCPCS
J9049	Cancer chemotherapy treatment	HCPCS
J9050	Cancer chemotherapy treatment	HCPCS
J9051	Cancer chemotherapy treatment	HCPCS
J9052	Cancer chemotherapy treatment	HCPCS
J9053	Cancer chemotherapy treatment	HCPCS
J9054	Cancer chemotherapy treatment	HCPCS
J9055	Cancer chemotherapy treatment	HCPCS
J9056	Cancer chemotherapy treatment	HCPCS
J9057	Cancer chemotherapy treatment	HCPCS
J9058	Cancer chemotherapy treatment	HCPCS
J9059	Cancer chemotherapy treatment	HCPCS
J9060	Cancer chemotherapy treatment	HCPCS
J9061	Cancer chemotherapy treatment	HCPCS
J9062	Cancer chemotherapy treatment	HCPCS
J9063	Cancer chemotherapy treatment	HCPCS
J9064	Cancer chemotherapy treatment	HCPCS
J9065	Cancer chemotherapy treatment	HCPCS
J9066	Cancer chemotherapy treatment	HCPCS
J9067	Cancer chemotherapy treatment	HCPCS
J9068	Cancer chemotherapy treatment	HCPCS
J9069	Cancer chemotherapy treatment	HCPCS
J9070	Cancer chemotherapy treatment	HCPCS
J9071	Cancer chemotherapy treatment	HCPCS
J9072	Cancer chemotherapy treatment	HCPCS
J9073	Cancer chemotherapy treatment	HCPCS
J9074	Cancer chemotherapy treatment	HCPCS
J9075	Cancer chemotherapy treatment	HCPCS
J9076	Cancer chemotherapy treatment	HCPCS
J9077	Cancer chemotherapy treatment	HCPCS
J9078	Cancer chemotherapy treatment	HCPCS
J9079	Cancer chemotherapy treatment	HCPCS
J9080	Cancer chemotherapy treatment	HCPCS
J9081	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9082	Cancer chemotherapy treatment	HCPCS
J9083	Cancer chemotherapy treatment	HCPCS
J9084	Cancer chemotherapy treatment	HCPCS
J9085	Cancer chemotherapy treatment	HCPCS
J9086	Cancer chemotherapy treatment	HCPCS
J9087	Cancer chemotherapy treatment	HCPCS
J9088	Cancer chemotherapy treatment	HCPCS
J9089	Cancer chemotherapy treatment	HCPCS
J9090	Cancer chemotherapy treatment	HCPCS
J9091	Cancer chemotherapy treatment	HCPCS
J9092	Cancer chemotherapy treatment	HCPCS
J9093	Cancer chemotherapy treatment	HCPCS
J9094	Cancer chemotherapy treatment	HCPCS
J9095	Cancer chemotherapy treatment	HCPCS
J9096	Cancer chemotherapy treatment	HCPCS
J9097	Cancer chemotherapy treatment	HCPCS
J9098	Cancer chemotherapy treatment	HCPCS
J9099	Cancer chemotherapy treatment	HCPCS
J9100	Cancer chemotherapy treatment	HCPCS
J9101	Cancer chemotherapy treatment	HCPCS
J9102	Cancer chemotherapy treatment	HCPCS
J9103	Cancer chemotherapy treatment	HCPCS
J9104	Cancer chemotherapy treatment	HCPCS
J9105	Cancer chemotherapy treatment	HCPCS
J9106	Cancer chemotherapy treatment	HCPCS
J9107	Cancer chemotherapy treatment	HCPCS
J9108	Cancer chemotherapy treatment	HCPCS
J9109	Cancer chemotherapy treatment	HCPCS
J9110	Cancer chemotherapy treatment	HCPCS
J9111	Cancer chemotherapy treatment	HCPCS
J9112	Cancer chemotherapy treatment	HCPCS
J9113	Cancer chemotherapy treatment	HCPCS
J9114	Cancer chemotherapy treatment	HCPCS
J9115	Cancer chemotherapy treatment	HCPCS
J9116	Cancer chemotherapy treatment	HCPCS
J9117	Cancer chemotherapy treatment	HCPCS
J9118	Cancer chemotherapy treatment	HCPCS
J9119	Cancer chemotherapy treatment	HCPCS
J9120	Cancer chemotherapy treatment	HCPCS
J9121	Cancer chemotherapy treatment	HCPCS
J9122	Cancer chemotherapy treatment	HCPCS
J9123	Cancer chemotherapy treatment	HCPCS
J9124	Cancer chemotherapy treatment	HCPCS
J9125	Cancer chemotherapy treatment	HCPCS
J9126	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9127	Cancer chemotherapy treatment	HCPCS
J9128	Cancer chemotherapy treatment	HCPCS
J9129	Cancer chemotherapy treatment	HCPCS
J9130	Cancer chemotherapy treatment	HCPCS
J9131	Cancer chemotherapy treatment	HCPCS
J9132	Cancer chemotherapy treatment	HCPCS
J9133	Cancer chemotherapy treatment	HCPCS
J9134	Cancer chemotherapy treatment	HCPCS
J9135	Cancer chemotherapy treatment	HCPCS
J9136	Cancer chemotherapy treatment	HCPCS
J9137	Cancer chemotherapy treatment	HCPCS
J9138	Cancer chemotherapy treatment	HCPCS
J9139	Cancer chemotherapy treatment	HCPCS
J9140	Cancer chemotherapy treatment	HCPCS
J9141	Cancer chemotherapy treatment	HCPCS
J9142	Cancer chemotherapy treatment	HCPCS
J9143	Cancer chemotherapy treatment	HCPCS
J9144	Cancer chemotherapy treatment	HCPCS
J9145	Cancer chemotherapy treatment	HCPCS
J9146	Cancer chemotherapy treatment	HCPCS
J9147	Cancer chemotherapy treatment	HCPCS
J9148	Cancer chemotherapy treatment	HCPCS
J9149	Cancer chemotherapy treatment	HCPCS
J9150	Cancer chemotherapy treatment	HCPCS
J9151	Cancer chemotherapy treatment	HCPCS
J9152	Cancer chemotherapy treatment	HCPCS
J9153	Cancer chemotherapy treatment	HCPCS
J9154	Cancer chemotherapy treatment	HCPCS
J9155	Cancer chemotherapy treatment	HCPCS
J9156	Cancer chemotherapy treatment	HCPCS
J9157	Cancer chemotherapy treatment	HCPCS
J9158	Cancer chemotherapy treatment	HCPCS
J9159	Cancer chemotherapy treatment	HCPCS
J9160	Cancer chemotherapy treatment	HCPCS
J9161	Cancer chemotherapy treatment	HCPCS
J9162	Cancer chemotherapy treatment	HCPCS
J9163	Cancer chemotherapy treatment	HCPCS
J9164	Cancer chemotherapy treatment	HCPCS
J9165	Cancer chemotherapy treatment	HCPCS
J9166	Cancer chemotherapy treatment	HCPCS
J9167	Cancer chemotherapy treatment	HCPCS
J9168	Cancer chemotherapy treatment	HCPCS
J9169	Cancer chemotherapy treatment	HCPCS
J9170	Cancer chemotherapy treatment	HCPCS
J9171	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9172	Cancer chemotherapy treatment	HCPCS
J9173	Cancer chemotherapy treatment	HCPCS
J9174	Cancer chemotherapy treatment	HCPCS
J9175	Cancer chemotherapy treatment	HCPCS
J9176	Cancer chemotherapy treatment	HCPCS
J9177	Cancer chemotherapy treatment	HCPCS
J9178	Cancer chemotherapy treatment	HCPCS
J9179	Cancer chemotherapy treatment	HCPCS
J9180	Cancer chemotherapy treatment	HCPCS
J9181	Cancer chemotherapy treatment	HCPCS
J9182	Cancer chemotherapy treatment	HCPCS
J9183	Cancer chemotherapy treatment	HCPCS
J9184	Cancer chemotherapy treatment	HCPCS
J9185	Cancer chemotherapy treatment	HCPCS
J9186	Cancer chemotherapy treatment	HCPCS
J9187	Cancer chemotherapy treatment	HCPCS
J9188	Cancer chemotherapy treatment	HCPCS
J9189	Cancer chemotherapy treatment	HCPCS
J9190	Cancer chemotherapy treatment	HCPCS
J9191	Cancer chemotherapy treatment	HCPCS
J9192	Cancer chemotherapy treatment	HCPCS
J9193	Cancer chemotherapy treatment	HCPCS
J9194	Cancer chemotherapy treatment	HCPCS
J9195	Cancer chemotherapy treatment	HCPCS
J9196	Cancer chemotherapy treatment	HCPCS
J9197	Cancer chemotherapy treatment	HCPCS
J9198	Cancer chemotherapy treatment	HCPCS
J9199	Cancer chemotherapy treatment	HCPCS
J9200	Cancer chemotherapy treatment	HCPCS
J9201	Cancer chemotherapy treatment	HCPCS
J9202	Cancer chemotherapy treatment	HCPCS
J9203	Cancer chemotherapy treatment	HCPCS
J9204	Cancer chemotherapy treatment	HCPCS
J9205	Cancer chemotherapy treatment	HCPCS
J9206	Cancer chemotherapy treatment	HCPCS
J9207	Cancer chemotherapy treatment	HCPCS
J9208	Cancer chemotherapy treatment	HCPCS
J9209	Cancer chemotherapy treatment	HCPCS
J9210	Cancer chemotherapy treatment	HCPCS
J9211	Cancer chemotherapy treatment	HCPCS
J9212	Cancer chemotherapy treatment	HCPCS
J9213	Cancer chemotherapy treatment	HCPCS
J9214	Cancer chemotherapy treatment	HCPCS
J9215	Cancer chemotherapy treatment	HCPCS
J9216	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9217	Cancer chemotherapy treatment	HCPCS
J9218	Cancer chemotherapy treatment	HCPCS
J9219	Cancer chemotherapy treatment	HCPCS
J9220	Cancer chemotherapy treatment	HCPCS
J9221	Cancer chemotherapy treatment	HCPCS
J9222	Cancer chemotherapy treatment	HCPCS
J9223	Cancer chemotherapy treatment	HCPCS
J9224	Cancer chemotherapy treatment	HCPCS
J9225	Cancer chemotherapy treatment	HCPCS
J9226	Cancer chemotherapy treatment	HCPCS
J9227	Cancer chemotherapy treatment	HCPCS
J9228	Cancer chemotherapy treatment	HCPCS
J9229	Cancer chemotherapy treatment	HCPCS
J9230	Cancer chemotherapy treatment	HCPCS
J9231	Cancer chemotherapy treatment	HCPCS
J9232	Cancer chemotherapy treatment	HCPCS
J9233	Cancer chemotherapy treatment	HCPCS
J9234	Cancer chemotherapy treatment	HCPCS
J9235	Cancer chemotherapy treatment	HCPCS
J9236	Cancer chemotherapy treatment	HCPCS
J9237	Cancer chemotherapy treatment	HCPCS
J9238	Cancer chemotherapy treatment	HCPCS
J9239	Cancer chemotherapy treatment	HCPCS
J9240	Cancer chemotherapy treatment	HCPCS
J9241	Cancer chemotherapy treatment	HCPCS
J9242	Cancer chemotherapy treatment	HCPCS
J9243	Cancer chemotherapy treatment	HCPCS
J9244	Cancer chemotherapy treatment	HCPCS
J9245	Cancer chemotherapy treatment	HCPCS
J9246	Cancer chemotherapy treatment	HCPCS
J9247	Cancer chemotherapy treatment	HCPCS
J9248	Cancer chemotherapy treatment	HCPCS
J9249	Cancer chemotherapy treatment	HCPCS
J9250	Cancer chemotherapy treatment	HCPCS
J9251	Cancer chemotherapy treatment	HCPCS
J9252	Cancer chemotherapy treatment	HCPCS
J9253	Cancer chemotherapy treatment	HCPCS
J9254	Cancer chemotherapy treatment	HCPCS
J9255	Cancer chemotherapy treatment	HCPCS
J9256	Cancer chemotherapy treatment	HCPCS
J9257	Cancer chemotherapy treatment	HCPCS
J9258	Cancer chemotherapy treatment	HCPCS
J9259	Cancer chemotherapy treatment	HCPCS
J9260	Cancer chemotherapy treatment	HCPCS
J9261	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9262	Cancer chemotherapy treatment	HCPCS
J9263	Cancer chemotherapy treatment	HCPCS
J9264	Cancer chemotherapy treatment	HCPCS
J9265	Cancer chemotherapy treatment	HCPCS
J9266	Cancer chemotherapy treatment	HCPCS
J9267	Cancer chemotherapy treatment	HCPCS
J9268	Cancer chemotherapy treatment	HCPCS
J9269	Cancer chemotherapy treatment	HCPCS
J9270	Cancer chemotherapy treatment	HCPCS
J9271	Cancer chemotherapy treatment	HCPCS
J9272	Cancer chemotherapy treatment	HCPCS
J9273	Cancer chemotherapy treatment	HCPCS
J9274	Cancer chemotherapy treatment	HCPCS
J9275	Cancer chemotherapy treatment	HCPCS
J9276	Cancer chemotherapy treatment	HCPCS
J9277	Cancer chemotherapy treatment	HCPCS
J9278	Cancer chemotherapy treatment	HCPCS
J9279	Cancer chemotherapy treatment	HCPCS
J9280	Cancer chemotherapy treatment	HCPCS
J9281	Cancer chemotherapy treatment	HCPCS
J9282	Cancer chemotherapy treatment	HCPCS
J9283	Cancer chemotherapy treatment	HCPCS
J9284	Cancer chemotherapy treatment	HCPCS
J9285	Cancer chemotherapy treatment	HCPCS
J9286	Cancer chemotherapy treatment	HCPCS
J9287	Cancer chemotherapy treatment	HCPCS
J9288	Cancer chemotherapy treatment	HCPCS
J9289	Cancer chemotherapy treatment	HCPCS
J9290	Cancer chemotherapy treatment	HCPCS
J9291	Cancer chemotherapy treatment	HCPCS
J9292	Cancer chemotherapy treatment	HCPCS
J9293	Cancer chemotherapy treatment	HCPCS
J9294	Cancer chemotherapy treatment	HCPCS
J9295	Cancer chemotherapy treatment	HCPCS
J9296	Cancer chemotherapy treatment	HCPCS
J9297	Cancer chemotherapy treatment	HCPCS
J9298	Cancer chemotherapy treatment	HCPCS
J9299	Cancer chemotherapy treatment	HCPCS
J9300	Cancer chemotherapy treatment	HCPCS
J9301	Cancer chemotherapy treatment	HCPCS
J9302	Cancer chemotherapy treatment	HCPCS
J9303	Cancer chemotherapy treatment	HCPCS
J9304	Cancer chemotherapy treatment	HCPCS
J9305	Cancer chemotherapy treatment	HCPCS
J9306	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9307	Cancer chemotherapy treatment	HCPCS
J9308	Cancer chemotherapy treatment	HCPCS
J9309	Cancer chemotherapy treatment	HCPCS
J9310	Cancer chemotherapy treatment	HCPCS
J9311	Cancer chemotherapy treatment	HCPCS
J9312	Cancer chemotherapy treatment	HCPCS
J9313	Cancer chemotherapy treatment	HCPCS
J9314	Cancer chemotherapy treatment	HCPCS
J9315	Cancer chemotherapy treatment	HCPCS
J9316	Cancer chemotherapy treatment	HCPCS
J9317	Cancer chemotherapy treatment	HCPCS
J9318	Cancer chemotherapy treatment	HCPCS
J9319	Cancer chemotherapy treatment	HCPCS
J9320	Cancer chemotherapy treatment	HCPCS
J9321	Cancer chemotherapy treatment	HCPCS
J9322	Cancer chemotherapy treatment	HCPCS
J9323	Cancer chemotherapy treatment	HCPCS
J9324	Cancer chemotherapy treatment	HCPCS
J9325	Cancer chemotherapy treatment	HCPCS
J9326	Cancer chemotherapy treatment	HCPCS
J9327	Cancer chemotherapy treatment	HCPCS
J9328	Cancer chemotherapy treatment	HCPCS
J9329	Cancer chemotherapy treatment	HCPCS
J9330	Cancer chemotherapy treatment	HCPCS
J9331	Cancer chemotherapy treatment	HCPCS
J9332	Cancer chemotherapy treatment	HCPCS
J9333	Cancer chemotherapy treatment	HCPCS
J9334	Cancer chemotherapy treatment	HCPCS
J9335	Cancer chemotherapy treatment	HCPCS
J9336	Cancer chemotherapy treatment	HCPCS
J9337	Cancer chemotherapy treatment	HCPCS
J9338	Cancer chemotherapy treatment	HCPCS
J9339	Cancer chemotherapy treatment	HCPCS
J9340	Cancer chemotherapy treatment	HCPCS
J9341	Cancer chemotherapy treatment	HCPCS
J9342	Cancer chemotherapy treatment	HCPCS
J9343	Cancer chemotherapy treatment	HCPCS
J9344	Cancer chemotherapy treatment	HCPCS
J9345	Cancer chemotherapy treatment	HCPCS
J9346	Cancer chemotherapy treatment	HCPCS
J9347	Cancer chemotherapy treatment	HCPCS
J9348	Cancer chemotherapy treatment	HCPCS
J9349	Cancer chemotherapy treatment	HCPCS
J9350	Cancer chemotherapy treatment	HCPCS
J9351	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9352	Cancer chemotherapy treatment	HCPCS
J9353	Cancer chemotherapy treatment	HCPCS
J9354	Cancer chemotherapy treatment	HCPCS
J9355	Cancer chemotherapy treatment	HCPCS
J9356	Cancer chemotherapy treatment	HCPCS
J9357	Cancer chemotherapy treatment	HCPCS
J9358	Cancer chemotherapy treatment	HCPCS
J9359	Cancer chemotherapy treatment	HCPCS
J9360	Cancer chemotherapy treatment	HCPCS
J9361	Cancer chemotherapy treatment	HCPCS
J9362	Cancer chemotherapy treatment	HCPCS
J9363	Cancer chemotherapy treatment	HCPCS
J9364	Cancer chemotherapy treatment	HCPCS
J9365	Cancer chemotherapy treatment	HCPCS
J9366	Cancer chemotherapy treatment	HCPCS
J9367	Cancer chemotherapy treatment	HCPCS
J9368	Cancer chemotherapy treatment	HCPCS
J9369	Cancer chemotherapy treatment	HCPCS
J9370	Cancer chemotherapy treatment	HCPCS
J9371	Cancer chemotherapy treatment	HCPCS
J9372	Cancer chemotherapy treatment	HCPCS
J9373	Cancer chemotherapy treatment	HCPCS
J9374	Cancer chemotherapy treatment	HCPCS
J9375	Cancer chemotherapy treatment	HCPCS
J9376	Cancer chemotherapy treatment	HCPCS
J9377	Cancer chemotherapy treatment	HCPCS
J9378	Cancer chemotherapy treatment	HCPCS
J9379	Cancer chemotherapy treatment	HCPCS
J9380	Cancer chemotherapy treatment	HCPCS
J9381	Cancer chemotherapy treatment	HCPCS
J9382	Cancer chemotherapy treatment	HCPCS
J9383	Cancer chemotherapy treatment	HCPCS
J9384	Cancer chemotherapy treatment	HCPCS
J9385	Cancer chemotherapy treatment	HCPCS
J9386	Cancer chemotherapy treatment	HCPCS
J9387	Cancer chemotherapy treatment	HCPCS
J9388	Cancer chemotherapy treatment	HCPCS
J9389	Cancer chemotherapy treatment	HCPCS
J9390	Cancer chemotherapy treatment	HCPCS
J9391	Cancer chemotherapy treatment	HCPCS
J9392	Cancer chemotherapy treatment	HCPCS
J9393	Cancer chemotherapy treatment	HCPCS
J9394	Cancer chemotherapy treatment	HCPCS
J9395	Cancer chemotherapy treatment	HCPCS
J9396	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9397	Cancer chemotherapy treatment	HCPCS
J9398	Cancer chemotherapy treatment	HCPCS
J9399	Cancer chemotherapy treatment	HCPCS
J9400	Cancer chemotherapy treatment	HCPCS
J9401	Cancer chemotherapy treatment	HCPCS
J9402	Cancer chemotherapy treatment	HCPCS
J9403	Cancer chemotherapy treatment	HCPCS
J9404	Cancer chemotherapy treatment	HCPCS
J9405	Cancer chemotherapy treatment	HCPCS
J9406	Cancer chemotherapy treatment	HCPCS
J9407	Cancer chemotherapy treatment	HCPCS
J9408	Cancer chemotherapy treatment	HCPCS
J9409	Cancer chemotherapy treatment	HCPCS
J9410	Cancer chemotherapy treatment	HCPCS
J9411	Cancer chemotherapy treatment	HCPCS
J9412	Cancer chemotherapy treatment	HCPCS
J9413	Cancer chemotherapy treatment	HCPCS
J9414	Cancer chemotherapy treatment	HCPCS
J9415	Cancer chemotherapy treatment	HCPCS
J9416	Cancer chemotherapy treatment	HCPCS
J9417	Cancer chemotherapy treatment	HCPCS
J9418	Cancer chemotherapy treatment	HCPCS
J9419	Cancer chemotherapy treatment	HCPCS
J9420	Cancer chemotherapy treatment	HCPCS
J9421	Cancer chemotherapy treatment	HCPCS
J9422	Cancer chemotherapy treatment	HCPCS
J9423	Cancer chemotherapy treatment	HCPCS
J9424	Cancer chemotherapy treatment	HCPCS
J9425	Cancer chemotherapy treatment	HCPCS
J9426	Cancer chemotherapy treatment	HCPCS
J9427	Cancer chemotherapy treatment	HCPCS
J9428	Cancer chemotherapy treatment	HCPCS
J9429	Cancer chemotherapy treatment	HCPCS
J9430	Cancer chemotherapy treatment	HCPCS
J9431	Cancer chemotherapy treatment	HCPCS
J9432	Cancer chemotherapy treatment	HCPCS
J9433	Cancer chemotherapy treatment	HCPCS
J9434	Cancer chemotherapy treatment	HCPCS
J9435	Cancer chemotherapy treatment	HCPCS
J9436	Cancer chemotherapy treatment	HCPCS
J9437	Cancer chemotherapy treatment	HCPCS
J9438	Cancer chemotherapy treatment	HCPCS
J9439	Cancer chemotherapy treatment	HCPCS
J9440	Cancer chemotherapy treatment	HCPCS
J9441	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9442	Cancer chemotherapy treatment	HCPCS
J9443	Cancer chemotherapy treatment	HCPCS
J9444	Cancer chemotherapy treatment	HCPCS
J9445	Cancer chemotherapy treatment	HCPCS
J9446	Cancer chemotherapy treatment	HCPCS
J9447	Cancer chemotherapy treatment	HCPCS
J9448	Cancer chemotherapy treatment	HCPCS
J9449	Cancer chemotherapy treatment	HCPCS
J9450	Cancer chemotherapy treatment	HCPCS
J9451	Cancer chemotherapy treatment	HCPCS
J9452	Cancer chemotherapy treatment	HCPCS
J9453	Cancer chemotherapy treatment	HCPCS
J9454	Cancer chemotherapy treatment	HCPCS
J9455	Cancer chemotherapy treatment	HCPCS
J9456	Cancer chemotherapy treatment	HCPCS
J9457	Cancer chemotherapy treatment	HCPCS
J9458	Cancer chemotherapy treatment	HCPCS
J9459	Cancer chemotherapy treatment	HCPCS
J9460	Cancer chemotherapy treatment	HCPCS
J9461	Cancer chemotherapy treatment	HCPCS
J9462	Cancer chemotherapy treatment	HCPCS
J9463	Cancer chemotherapy treatment	HCPCS
J9464	Cancer chemotherapy treatment	HCPCS
J9465	Cancer chemotherapy treatment	HCPCS
J9466	Cancer chemotherapy treatment	HCPCS
J9467	Cancer chemotherapy treatment	HCPCS
J9468	Cancer chemotherapy treatment	HCPCS
J9469	Cancer chemotherapy treatment	HCPCS
J9470	Cancer chemotherapy treatment	HCPCS
J9471	Cancer chemotherapy treatment	HCPCS
J9472	Cancer chemotherapy treatment	HCPCS
J9473	Cancer chemotherapy treatment	HCPCS
J9474	Cancer chemotherapy treatment	HCPCS
J9475	Cancer chemotherapy treatment	HCPCS
J9476	Cancer chemotherapy treatment	HCPCS
J9477	Cancer chemotherapy treatment	HCPCS
J9478	Cancer chemotherapy treatment	HCPCS
J9479	Cancer chemotherapy treatment	HCPCS
J9480	Cancer chemotherapy treatment	HCPCS
J9481	Cancer chemotherapy treatment	HCPCS
J9482	Cancer chemotherapy treatment	HCPCS
J9483	Cancer chemotherapy treatment	HCPCS
J9484	Cancer chemotherapy treatment	HCPCS
J9485	Cancer chemotherapy treatment	HCPCS
J9486	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9487	Cancer chemotherapy treatment	HCPCS
J9488	Cancer chemotherapy treatment	HCPCS
J9489	Cancer chemotherapy treatment	HCPCS
J9490	Cancer chemotherapy treatment	HCPCS
J9491	Cancer chemotherapy treatment	HCPCS
J9492	Cancer chemotherapy treatment	HCPCS
J9493	Cancer chemotherapy treatment	HCPCS
J9494	Cancer chemotherapy treatment	HCPCS
J9495	Cancer chemotherapy treatment	HCPCS
J9496	Cancer chemotherapy treatment	HCPCS
J9497	Cancer chemotherapy treatment	HCPCS
J9498	Cancer chemotherapy treatment	HCPCS
J9499	Cancer chemotherapy treatment	HCPCS
J9500	Cancer chemotherapy treatment	HCPCS
J9501	Cancer chemotherapy treatment	HCPCS
J9502	Cancer chemotherapy treatment	HCPCS
J9503	Cancer chemotherapy treatment	HCPCS
J9504	Cancer chemotherapy treatment	HCPCS
J9505	Cancer chemotherapy treatment	HCPCS
J9506	Cancer chemotherapy treatment	HCPCS
J9507	Cancer chemotherapy treatment	HCPCS
J9508	Cancer chemotherapy treatment	HCPCS
J9509	Cancer chemotherapy treatment	HCPCS
J9510	Cancer chemotherapy treatment	HCPCS
J9511	Cancer chemotherapy treatment	HCPCS
J9512	Cancer chemotherapy treatment	HCPCS
J9513	Cancer chemotherapy treatment	HCPCS
J9514	Cancer chemotherapy treatment	HCPCS
J9515	Cancer chemotherapy treatment	HCPCS
J9516	Cancer chemotherapy treatment	HCPCS
J9517	Cancer chemotherapy treatment	HCPCS
J9518	Cancer chemotherapy treatment	HCPCS
J9519	Cancer chemotherapy treatment	HCPCS
J9520	Cancer chemotherapy treatment	HCPCS
J9521	Cancer chemotherapy treatment	HCPCS
J9522	Cancer chemotherapy treatment	HCPCS
J9523	Cancer chemotherapy treatment	HCPCS
J9524	Cancer chemotherapy treatment	HCPCS
J9525	Cancer chemotherapy treatment	HCPCS
J9526	Cancer chemotherapy treatment	HCPCS
J9527	Cancer chemotherapy treatment	HCPCS
J9528	Cancer chemotherapy treatment	HCPCS
J9529	Cancer chemotherapy treatment	HCPCS
J9530	Cancer chemotherapy treatment	HCPCS
J9531	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9532	Cancer chemotherapy treatment	HCPCS
J9533	Cancer chemotherapy treatment	HCPCS
J9534	Cancer chemotherapy treatment	HCPCS
J9535	Cancer chemotherapy treatment	HCPCS
J9536	Cancer chemotherapy treatment	HCPCS
J9537	Cancer chemotherapy treatment	HCPCS
J9538	Cancer chemotherapy treatment	HCPCS
J9539	Cancer chemotherapy treatment	HCPCS
J9540	Cancer chemotherapy treatment	HCPCS
J9541	Cancer chemotherapy treatment	HCPCS
J9542	Cancer chemotherapy treatment	HCPCS
J9543	Cancer chemotherapy treatment	HCPCS
J9544	Cancer chemotherapy treatment	HCPCS
J9545	Cancer chemotherapy treatment	HCPCS
J9546	Cancer chemotherapy treatment	HCPCS
J9547	Cancer chemotherapy treatment	HCPCS
J9548	Cancer chemotherapy treatment	HCPCS
J9549	Cancer chemotherapy treatment	HCPCS
J9550	Cancer chemotherapy treatment	HCPCS
J9551	Cancer chemotherapy treatment	HCPCS
J9552	Cancer chemotherapy treatment	HCPCS
J9553	Cancer chemotherapy treatment	HCPCS
J9554	Cancer chemotherapy treatment	HCPCS
J9555	Cancer chemotherapy treatment	HCPCS
J9556	Cancer chemotherapy treatment	HCPCS
J9557	Cancer chemotherapy treatment	HCPCS
J9558	Cancer chemotherapy treatment	HCPCS
J9559	Cancer chemotherapy treatment	HCPCS
J9560	Cancer chemotherapy treatment	HCPCS
J9561	Cancer chemotherapy treatment	HCPCS
J9562	Cancer chemotherapy treatment	HCPCS
J9563	Cancer chemotherapy treatment	HCPCS
J9564	Cancer chemotherapy treatment	HCPCS
J9565	Cancer chemotherapy treatment	HCPCS
J9566	Cancer chemotherapy treatment	HCPCS
J9567	Cancer chemotherapy treatment	HCPCS
J9568	Cancer chemotherapy treatment	HCPCS
J9569	Cancer chemotherapy treatment	HCPCS
J9570	Cancer chemotherapy treatment	HCPCS
J9571	Cancer chemotherapy treatment	HCPCS
J9572	Cancer chemotherapy treatment	HCPCS
J9573	Cancer chemotherapy treatment	HCPCS
J9574	Cancer chemotherapy treatment	HCPCS
J9575	Cancer chemotherapy treatment	HCPCS
J9576	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9577	Cancer chemotherapy treatment	HCPCS
J9578	Cancer chemotherapy treatment	HCPCS
J9579	Cancer chemotherapy treatment	HCPCS
J9580	Cancer chemotherapy treatment	HCPCS
J9581	Cancer chemotherapy treatment	HCPCS
J9582	Cancer chemotherapy treatment	HCPCS
J9583	Cancer chemotherapy treatment	HCPCS
J9584	Cancer chemotherapy treatment	HCPCS
J9585	Cancer chemotherapy treatment	HCPCS
J9586	Cancer chemotherapy treatment	HCPCS
J9587	Cancer chemotherapy treatment	HCPCS
J9588	Cancer chemotherapy treatment	HCPCS
J9589	Cancer chemotherapy treatment	HCPCS
J9590	Cancer chemotherapy treatment	HCPCS
J9591	Cancer chemotherapy treatment	HCPCS
J9592	Cancer chemotherapy treatment	HCPCS
J9593	Cancer chemotherapy treatment	HCPCS
J9594	Cancer chemotherapy treatment	HCPCS
J9595	Cancer chemotherapy treatment	HCPCS
J9596	Cancer chemotherapy treatment	HCPCS
J9597	Cancer chemotherapy treatment	HCPCS
J9598	Cancer chemotherapy treatment	HCPCS
J9599	Cancer chemotherapy treatment	HCPCS
J9600	Cancer chemotherapy treatment	HCPCS
J9601	Cancer chemotherapy treatment	HCPCS
J9602	Cancer chemotherapy treatment	HCPCS
J9603	Cancer chemotherapy treatment	HCPCS
J9604	Cancer chemotherapy treatment	HCPCS
J9605	Cancer chemotherapy treatment	HCPCS
J9606	Cancer chemotherapy treatment	HCPCS
J9607	Cancer chemotherapy treatment	HCPCS
J9608	Cancer chemotherapy treatment	HCPCS
J9609	Cancer chemotherapy treatment	HCPCS
J9610	Cancer chemotherapy treatment	HCPCS
J9611	Cancer chemotherapy treatment	HCPCS
J9612	Cancer chemotherapy treatment	HCPCS
J9613	Cancer chemotherapy treatment	HCPCS
J9614	Cancer chemotherapy treatment	HCPCS
J9615	Cancer chemotherapy treatment	HCPCS
J9616	Cancer chemotherapy treatment	HCPCS
J9617	Cancer chemotherapy treatment	HCPCS
J9618	Cancer chemotherapy treatment	HCPCS
J9619	Cancer chemotherapy treatment	HCPCS
J9620	Cancer chemotherapy treatment	HCPCS
J9621	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9622	Cancer chemotherapy treatment	HCPCS
J9623	Cancer chemotherapy treatment	HCPCS
J9624	Cancer chemotherapy treatment	HCPCS
J9625	Cancer chemotherapy treatment	HCPCS
J9626	Cancer chemotherapy treatment	HCPCS
J9627	Cancer chemotherapy treatment	HCPCS
J9628	Cancer chemotherapy treatment	HCPCS
J9629	Cancer chemotherapy treatment	HCPCS
J9630	Cancer chemotherapy treatment	HCPCS
J9631	Cancer chemotherapy treatment	HCPCS
J9632	Cancer chemotherapy treatment	HCPCS
J9633	Cancer chemotherapy treatment	HCPCS
J9634	Cancer chemotherapy treatment	HCPCS
J9635	Cancer chemotherapy treatment	HCPCS
J9636	Cancer chemotherapy treatment	HCPCS
J9637	Cancer chemotherapy treatment	HCPCS
J9638	Cancer chemotherapy treatment	HCPCS
J9639	Cancer chemotherapy treatment	HCPCS
J9640	Cancer chemotherapy treatment	HCPCS
J9641	Cancer chemotherapy treatment	HCPCS
J9642	Cancer chemotherapy treatment	HCPCS
J9643	Cancer chemotherapy treatment	HCPCS
J9644	Cancer chemotherapy treatment	HCPCS
J9645	Cancer chemotherapy treatment	HCPCS
J9646	Cancer chemotherapy treatment	HCPCS
J9647	Cancer chemotherapy treatment	HCPCS
J9648	Cancer chemotherapy treatment	HCPCS
J9649	Cancer chemotherapy treatment	HCPCS
J9650	Cancer chemotherapy treatment	HCPCS
J9651	Cancer chemotherapy treatment	HCPCS
J9652	Cancer chemotherapy treatment	HCPCS
J9653	Cancer chemotherapy treatment	HCPCS
J9654	Cancer chemotherapy treatment	HCPCS
J9655	Cancer chemotherapy treatment	HCPCS
J9656	Cancer chemotherapy treatment	HCPCS
J9657	Cancer chemotherapy treatment	HCPCS
J9658	Cancer chemotherapy treatment	HCPCS
J9659	Cancer chemotherapy treatment	HCPCS
J9660	Cancer chemotherapy treatment	HCPCS
J9661	Cancer chemotherapy treatment	HCPCS
J9662	Cancer chemotherapy treatment	HCPCS
J9663	Cancer chemotherapy treatment	HCPCS
J9664	Cancer chemotherapy treatment	HCPCS
J9665	Cancer chemotherapy treatment	HCPCS
J9666	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9667	Cancer chemotherapy treatment	HCPCS
J9668	Cancer chemotherapy treatment	HCPCS
J9669	Cancer chemotherapy treatment	HCPCS
J9670	Cancer chemotherapy treatment	HCPCS
J9671	Cancer chemotherapy treatment	HCPCS
J9672	Cancer chemotherapy treatment	HCPCS
J9673	Cancer chemotherapy treatment	HCPCS
J9674	Cancer chemotherapy treatment	HCPCS
J9675	Cancer chemotherapy treatment	HCPCS
J9676	Cancer chemotherapy treatment	HCPCS
J9677	Cancer chemotherapy treatment	HCPCS
J9678	Cancer chemotherapy treatment	HCPCS
J9679	Cancer chemotherapy treatment	HCPCS
J9680	Cancer chemotherapy treatment	HCPCS
J9681	Cancer chemotherapy treatment	HCPCS
J9682	Cancer chemotherapy treatment	HCPCS
J9683	Cancer chemotherapy treatment	HCPCS
J9684	Cancer chemotherapy treatment	HCPCS
J9685	Cancer chemotherapy treatment	HCPCS
J9686	Cancer chemotherapy treatment	HCPCS
J9687	Cancer chemotherapy treatment	HCPCS
J9688	Cancer chemotherapy treatment	HCPCS
J9689	Cancer chemotherapy treatment	HCPCS
J9690	Cancer chemotherapy treatment	HCPCS
J9691	Cancer chemotherapy treatment	HCPCS
J9692	Cancer chemotherapy treatment	HCPCS
J9693	Cancer chemotherapy treatment	HCPCS
J9694	Cancer chemotherapy treatment	HCPCS
J9695	Cancer chemotherapy treatment	HCPCS
J9696	Cancer chemotherapy treatment	HCPCS
J9697	Cancer chemotherapy treatment	HCPCS
J9698	Cancer chemotherapy treatment	HCPCS
J9699	Cancer chemotherapy treatment	HCPCS
J9700	Cancer chemotherapy treatment	HCPCS
J9701	Cancer chemotherapy treatment	HCPCS
J9702	Cancer chemotherapy treatment	HCPCS
J9703	Cancer chemotherapy treatment	HCPCS
J9704	Cancer chemotherapy treatment	HCPCS
J9705	Cancer chemotherapy treatment	HCPCS
J9706	Cancer chemotherapy treatment	HCPCS
J9707	Cancer chemotherapy treatment	HCPCS
J9708	Cancer chemotherapy treatment	HCPCS
J9709	Cancer chemotherapy treatment	HCPCS
J9710	Cancer chemotherapy treatment	HCPCS
J9711	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9712	Cancer chemotherapy treatment	HCPCS
J9713	Cancer chemotherapy treatment	HCPCS
J9714	Cancer chemotherapy treatment	HCPCS
J9715	Cancer chemotherapy treatment	HCPCS
J9716	Cancer chemotherapy treatment	HCPCS
J9717	Cancer chemotherapy treatment	HCPCS
J9718	Cancer chemotherapy treatment	HCPCS
J9719	Cancer chemotherapy treatment	HCPCS
J9720	Cancer chemotherapy treatment	HCPCS
J9721	Cancer chemotherapy treatment	HCPCS
J9722	Cancer chemotherapy treatment	HCPCS
J9723	Cancer chemotherapy treatment	HCPCS
J9724	Cancer chemotherapy treatment	HCPCS
J9725	Cancer chemotherapy treatment	HCPCS
J9726	Cancer chemotherapy treatment	HCPCS
J9727	Cancer chemotherapy treatment	HCPCS
J9728	Cancer chemotherapy treatment	HCPCS
J9729	Cancer chemotherapy treatment	HCPCS
J9730	Cancer chemotherapy treatment	HCPCS
J9731	Cancer chemotherapy treatment	HCPCS
J9732	Cancer chemotherapy treatment	HCPCS
J9733	Cancer chemotherapy treatment	HCPCS
J9734	Cancer chemotherapy treatment	HCPCS
J9735	Cancer chemotherapy treatment	HCPCS
J9736	Cancer chemotherapy treatment	HCPCS
J9737	Cancer chemotherapy treatment	HCPCS
J9738	Cancer chemotherapy treatment	HCPCS
J9739	Cancer chemotherapy treatment	HCPCS
J9740	Cancer chemotherapy treatment	HCPCS
J9741	Cancer chemotherapy treatment	HCPCS
J9742	Cancer chemotherapy treatment	HCPCS
J9743	Cancer chemotherapy treatment	HCPCS
J9744	Cancer chemotherapy treatment	HCPCS
J9745	Cancer chemotherapy treatment	HCPCS
J9746	Cancer chemotherapy treatment	HCPCS
J9747	Cancer chemotherapy treatment	HCPCS
J9748	Cancer chemotherapy treatment	HCPCS
J9749	Cancer chemotherapy treatment	HCPCS
J9750	Cancer chemotherapy treatment	HCPCS
J9751	Cancer chemotherapy treatment	HCPCS
J9752	Cancer chemotherapy treatment	HCPCS
J9753	Cancer chemotherapy treatment	HCPCS
J9754	Cancer chemotherapy treatment	HCPCS
J9755	Cancer chemotherapy treatment	HCPCS
J9756	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9757	Cancer chemotherapy treatment	HCPCS
J9758	Cancer chemotherapy treatment	HCPCS
J9759	Cancer chemotherapy treatment	HCPCS
J9760	Cancer chemotherapy treatment	HCPCS
J9761	Cancer chemotherapy treatment	HCPCS
J9762	Cancer chemotherapy treatment	HCPCS
J9763	Cancer chemotherapy treatment	HCPCS
J9764	Cancer chemotherapy treatment	HCPCS
J9765	Cancer chemotherapy treatment	HCPCS
J9766	Cancer chemotherapy treatment	HCPCS
J9767	Cancer chemotherapy treatment	HCPCS
J9768	Cancer chemotherapy treatment	HCPCS
J9769	Cancer chemotherapy treatment	HCPCS
J9770	Cancer chemotherapy treatment	HCPCS
J9771	Cancer chemotherapy treatment	HCPCS
J9772	Cancer chemotherapy treatment	HCPCS
J9773	Cancer chemotherapy treatment	HCPCS
J9774	Cancer chemotherapy treatment	HCPCS
J9775	Cancer chemotherapy treatment	HCPCS
J9776	Cancer chemotherapy treatment	HCPCS
J9777	Cancer chemotherapy treatment	HCPCS
J9778	Cancer chemotherapy treatment	HCPCS
J9779	Cancer chemotherapy treatment	HCPCS
J9780	Cancer chemotherapy treatment	HCPCS
J9781	Cancer chemotherapy treatment	HCPCS
J9782	Cancer chemotherapy treatment	HCPCS
J9783	Cancer chemotherapy treatment	HCPCS
J9784	Cancer chemotherapy treatment	HCPCS
J9785	Cancer chemotherapy treatment	HCPCS
J9786	Cancer chemotherapy treatment	HCPCS
J9787	Cancer chemotherapy treatment	HCPCS
J9788	Cancer chemotherapy treatment	HCPCS
J9789	Cancer chemotherapy treatment	HCPCS
J9790	Cancer chemotherapy treatment	HCPCS
J9791	Cancer chemotherapy treatment	HCPCS
J9792	Cancer chemotherapy treatment	HCPCS
J9793	Cancer chemotherapy treatment	HCPCS
J9794	Cancer chemotherapy treatment	HCPCS
J9795	Cancer chemotherapy treatment	HCPCS
J9796	Cancer chemotherapy treatment	HCPCS
J9797	Cancer chemotherapy treatment	HCPCS
J9798	Cancer chemotherapy treatment	HCPCS
J9799	Cancer chemotherapy treatment	HCPCS
J9800	Cancer chemotherapy treatment	HCPCS
J9801	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9802	Cancer chemotherapy treatment	HCPCS
J9803	Cancer chemotherapy treatment	HCPCS
J9804	Cancer chemotherapy treatment	HCPCS
J9805	Cancer chemotherapy treatment	HCPCS
J9806	Cancer chemotherapy treatment	HCPCS
J9807	Cancer chemotherapy treatment	HCPCS
J9808	Cancer chemotherapy treatment	HCPCS
J9809	Cancer chemotherapy treatment	HCPCS
J9810	Cancer chemotherapy treatment	HCPCS
J9811	Cancer chemotherapy treatment	HCPCS
J9812	Cancer chemotherapy treatment	HCPCS
J9813	Cancer chemotherapy treatment	HCPCS
J9814	Cancer chemotherapy treatment	HCPCS
J9815	Cancer chemotherapy treatment	HCPCS
J9816	Cancer chemotherapy treatment	HCPCS
J9817	Cancer chemotherapy treatment	HCPCS
J9818	Cancer chemotherapy treatment	HCPCS
J9819	Cancer chemotherapy treatment	HCPCS
J9820	Cancer chemotherapy treatment	HCPCS
J9821	Cancer chemotherapy treatment	HCPCS
J9822	Cancer chemotherapy treatment	HCPCS
J9823	Cancer chemotherapy treatment	HCPCS
J9824	Cancer chemotherapy treatment	HCPCS
J9825	Cancer chemotherapy treatment	HCPCS
J9826	Cancer chemotherapy treatment	HCPCS
J9827	Cancer chemotherapy treatment	HCPCS
J9828	Cancer chemotherapy treatment	HCPCS
J9829	Cancer chemotherapy treatment	HCPCS
J9830	Cancer chemotherapy treatment	HCPCS
J9831	Cancer chemotherapy treatment	HCPCS
J9832	Cancer chemotherapy treatment	HCPCS
J9833	Cancer chemotherapy treatment	HCPCS
J9834	Cancer chemotherapy treatment	HCPCS
J9835	Cancer chemotherapy treatment	HCPCS
J9836	Cancer chemotherapy treatment	HCPCS
J9837	Cancer chemotherapy treatment	HCPCS
J9838	Cancer chemotherapy treatment	HCPCS
J9839	Cancer chemotherapy treatment	HCPCS
J9840	Cancer chemotherapy treatment	HCPCS
J9841	Cancer chemotherapy treatment	HCPCS
J9842	Cancer chemotherapy treatment	HCPCS
J9843	Cancer chemotherapy treatment	HCPCS
J9844	Cancer chemotherapy treatment	HCPCS
J9845	Cancer chemotherapy treatment	HCPCS
J9846	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9847	Cancer chemotherapy treatment	HCPCS
J9848	Cancer chemotherapy treatment	HCPCS
J9849	Cancer chemotherapy treatment	HCPCS
J9850	Cancer chemotherapy treatment	HCPCS
J9851	Cancer chemotherapy treatment	HCPCS
J9852	Cancer chemotherapy treatment	HCPCS
J9853	Cancer chemotherapy treatment	HCPCS
J9854	Cancer chemotherapy treatment	HCPCS
J9855	Cancer chemotherapy treatment	HCPCS
J9856	Cancer chemotherapy treatment	HCPCS
J9857	Cancer chemotherapy treatment	HCPCS
J9858	Cancer chemotherapy treatment	HCPCS
J9859	Cancer chemotherapy treatment	HCPCS
J9860	Cancer chemotherapy treatment	HCPCS
J9861	Cancer chemotherapy treatment	HCPCS
J9862	Cancer chemotherapy treatment	HCPCS
J9863	Cancer chemotherapy treatment	HCPCS
J9864	Cancer chemotherapy treatment	HCPCS
J9865	Cancer chemotherapy treatment	HCPCS
J9866	Cancer chemotherapy treatment	HCPCS
J9867	Cancer chemotherapy treatment	HCPCS
J9868	Cancer chemotherapy treatment	HCPCS
J9869	Cancer chemotherapy treatment	HCPCS
J9870	Cancer chemotherapy treatment	HCPCS
J9871	Cancer chemotherapy treatment	HCPCS
J9872	Cancer chemotherapy treatment	HCPCS
J9873	Cancer chemotherapy treatment	HCPCS
J9874	Cancer chemotherapy treatment	HCPCS
J9875	Cancer chemotherapy treatment	HCPCS
J9876	Cancer chemotherapy treatment	HCPCS
J9877	Cancer chemotherapy treatment	HCPCS
J9878	Cancer chemotherapy treatment	HCPCS
J9879	Cancer chemotherapy treatment	HCPCS
J9880	Cancer chemotherapy treatment	HCPCS
J9881	Cancer chemotherapy treatment	HCPCS
J9882	Cancer chemotherapy treatment	HCPCS
J9883	Cancer chemotherapy treatment	HCPCS
J9884	Cancer chemotherapy treatment	HCPCS
J9885	Cancer chemotherapy treatment	HCPCS
J9886	Cancer chemotherapy treatment	HCPCS
J9887	Cancer chemotherapy treatment	HCPCS
J9888	Cancer chemotherapy treatment	HCPCS
J9889	Cancer chemotherapy treatment	HCPCS
J9890	Cancer chemotherapy treatment	HCPCS
J9891	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9892	Cancer chemotherapy treatment	HCPCS
J9893	Cancer chemotherapy treatment	HCPCS
J9894	Cancer chemotherapy treatment	HCPCS
J9895	Cancer chemotherapy treatment	HCPCS
J9896	Cancer chemotherapy treatment	HCPCS
J9897	Cancer chemotherapy treatment	HCPCS
J9898	Cancer chemotherapy treatment	HCPCS
J9899	Cancer chemotherapy treatment	HCPCS
J9900	Cancer chemotherapy treatment	HCPCS
J9901	Cancer chemotherapy treatment	HCPCS
J9902	Cancer chemotherapy treatment	HCPCS
J9903	Cancer chemotherapy treatment	HCPCS
J9904	Cancer chemotherapy treatment	HCPCS
J9905	Cancer chemotherapy treatment	HCPCS
J9906	Cancer chemotherapy treatment	HCPCS
J9907	Cancer chemotherapy treatment	HCPCS
J9908	Cancer chemotherapy treatment	HCPCS
J9909	Cancer chemotherapy treatment	HCPCS
J9910	Cancer chemotherapy treatment	HCPCS
J9911	Cancer chemotherapy treatment	HCPCS
J9912	Cancer chemotherapy treatment	HCPCS
J9913	Cancer chemotherapy treatment	HCPCS
J9914	Cancer chemotherapy treatment	HCPCS
J9915	Cancer chemotherapy treatment	HCPCS
J9916	Cancer chemotherapy treatment	HCPCS
J9917	Cancer chemotherapy treatment	HCPCS
J9918	Cancer chemotherapy treatment	HCPCS
J9919	Cancer chemotherapy treatment	HCPCS
J9920	Cancer chemotherapy treatment	HCPCS
J9921	Cancer chemotherapy treatment	HCPCS
J9922	Cancer chemotherapy treatment	HCPCS
J9923	Cancer chemotherapy treatment	HCPCS
J9924	Cancer chemotherapy treatment	HCPCS
J9925	Cancer chemotherapy treatment	HCPCS
J9926	Cancer chemotherapy treatment	HCPCS
J9927	Cancer chemotherapy treatment	HCPCS
J9928	Cancer chemotherapy treatment	HCPCS
J9929	Cancer chemotherapy treatment	HCPCS
J9930	Cancer chemotherapy treatment	HCPCS
J9931	Cancer chemotherapy treatment	HCPCS
J9932	Cancer chemotherapy treatment	HCPCS
J9933	Cancer chemotherapy treatment	HCPCS
J9934	Cancer chemotherapy treatment	HCPCS
J9935	Cancer chemotherapy treatment	HCPCS
J9936	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9937	Cancer chemotherapy treatment	HCPCS
J9938	Cancer chemotherapy treatment	HCPCS
J9939	Cancer chemotherapy treatment	HCPCS
J9940	Cancer chemotherapy treatment	HCPCS
J9941	Cancer chemotherapy treatment	HCPCS
J9942	Cancer chemotherapy treatment	HCPCS
J9943	Cancer chemotherapy treatment	HCPCS
J9944	Cancer chemotherapy treatment	HCPCS
J9945	Cancer chemotherapy treatment	HCPCS
J9946	Cancer chemotherapy treatment	HCPCS
J9947	Cancer chemotherapy treatment	HCPCS
J9948	Cancer chemotherapy treatment	HCPCS
J9949	Cancer chemotherapy treatment	HCPCS
J9950	Cancer chemotherapy treatment	HCPCS
J9951	Cancer chemotherapy treatment	HCPCS
J9952	Cancer chemotherapy treatment	HCPCS
J9953	Cancer chemotherapy treatment	HCPCS
J9954	Cancer chemotherapy treatment	HCPCS
J9955	Cancer chemotherapy treatment	HCPCS
J9956	Cancer chemotherapy treatment	HCPCS
J9957	Cancer chemotherapy treatment	HCPCS
J9958	Cancer chemotherapy treatment	HCPCS
J9959	Cancer chemotherapy treatment	HCPCS
J9960	Cancer chemotherapy treatment	HCPCS
J9961	Cancer chemotherapy treatment	HCPCS
J9962	Cancer chemotherapy treatment	HCPCS
J9963	Cancer chemotherapy treatment	HCPCS
J9964	Cancer chemotherapy treatment	HCPCS
J9965	Cancer chemotherapy treatment	HCPCS
J9966	Cancer chemotherapy treatment	HCPCS
J9967	Cancer chemotherapy treatment	HCPCS
J9968	Cancer chemotherapy treatment	HCPCS
J9969	Cancer chemotherapy treatment	HCPCS
J9970	Cancer chemotherapy treatment	HCPCS
J9971	Cancer chemotherapy treatment	HCPCS
J9972	Cancer chemotherapy treatment	HCPCS
J9973	Cancer chemotherapy treatment	HCPCS
J9974	Cancer chemotherapy treatment	HCPCS
J9975	Cancer chemotherapy treatment	HCPCS
J9976	Cancer chemotherapy treatment	HCPCS
J9977	Cancer chemotherapy treatment	HCPCS
J9978	Cancer chemotherapy treatment	HCPCS
J9979	Cancer chemotherapy treatment	HCPCS
J9980	Cancer chemotherapy treatment	HCPCS
J9981	Cancer chemotherapy treatment	HCPCS

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
J9982	Cancer chemotherapy treatment	HCPCS
J9983	Cancer chemotherapy treatment	HCPCS
J9984	Cancer chemotherapy treatment	HCPCS
J9985	Cancer chemotherapy treatment	HCPCS
J9986	Cancer chemotherapy treatment	HCPCS
J9987	Cancer chemotherapy treatment	HCPCS
J9988	Cancer chemotherapy treatment	HCPCS
J9989	Cancer chemotherapy treatment	HCPCS
J9990	Cancer chemotherapy treatment	HCPCS
J9991	Cancer chemotherapy treatment	HCPCS
J9992	Cancer chemotherapy treatment	HCPCS
J9993	Cancer chemotherapy treatment	HCPCS
J9994	Cancer chemotherapy treatment	HCPCS
J9995	Cancer chemotherapy treatment	HCPCS
J9996	Cancer chemotherapy treatment	HCPCS
J9997	Cancer chemotherapy treatment	HCPCS
J9998	Cancer chemotherapy treatment	HCPCS
J9999	Cancer chemotherapy treatment	HCPCS
G0256	Radiation therapy	HCPCS
G0261	Radiation therapy	HCPCS
99.25	Cancer chemotherapy treatment	ICD-9-CM Procedure
92.21	Radiation therapy	ICD-9-CM Procedure
92.22	Radiation therapy	ICD-9-CM Procedure
92.23	Radiation therapy	ICD-9-CM Procedure
92.24	Radiation therapy	ICD-9-CM Procedure
92.25	Radiation therapy	ICD-9-CM Procedure
92.26	Radiation therapy	ICD-9-CM Procedure
92.27	Radiation therapy	ICD-9-CM Procedure
92.28	Radiation therapy	ICD-9-CM Procedure
92.29	Radiation therapy	ICD-9-CM Procedure
Substance abuse history		
571.1	Acute alcoholic hepatitis	ICD-9-CM Diagnosis
303.0	Acute alcoholic intoxication	ICD-9-CM Diagnosis
303.01	Acute alcoholic intoxication, continuous	ICD-9-CM Diagnosis
303.02	Acute alcoholic intoxication, episodic	ICD-9-CM Diagnosis
303.03	Acute alcoholic intoxication, in remission	ICD-9-CM Diagnosis
303.00	Acute alcoholic intoxication, unspecified	ICD-9-CM Diagnosis
291	Alcohol-induced mental disorders	ICD-9-CM Diagnosis
291.1	Alcohol-induced persisting amnestic disorder	ICD-9-CM Diagnosis
291.2	Alcohol-induced persisting dementia	ICD-9-CM Diagnosis
291.5	Alcohol-induced psychotic disorder with delusions	ICD-9-CM Diagnosis
291.3	Alcohol-induced psychotic disorder with hallucinations	ICD-9-CM Diagnosis
303	Alcohol dependence syndrome	ICD-9-CM Diagnosis
291.82	Alcohol induced sleep disorders	ICD-9-CM Diagnosis
291.81	Alcohol withdrawal	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
291.0	Alcohol withdrawal delirium	ICD-9-CM Diagnosis
571.2	Alcoholic cirrhosis of liver	ICD-9-CM Diagnosis
571.0	Alcoholic fatty liver	ICD-9-CM Diagnosis
304.4	Amphetamine and other psychostimulant dependence	ICD-9-CM Diagnosis
304.41	Amphetamine and other psychostimulant dependence, continuous	ICD-9-CM Diagnosis
304.42	Amphetamine and other psychostimulant dependence, episodic	ICD-9-CM Diagnosis
304.43	Amphetamine and other psychostimulant dependence, in remission	ICD-9-CM Diagnosis
304.40	Amphetamine and other psychostimulant dependence, unspecified	ICD-9-CM Diagnosis
304.3	Cannabis dependence	ICD-9-CM Diagnosis
304.31	Cannabis dependence, continuous	ICD-9-CM Diagnosis
304.32	Cannabis dependence, episodic	ICD-9-CM Diagnosis
304.33	Cannabis dependence, in remission	ICD-9-CM Diagnosis
304.30	Cannabis dependence, unspecified	ICD-9-CM Diagnosis
304.2	Cocaine dependence	ICD-9-CM Diagnosis
304.21	Cocaine dependence, continuous	ICD-9-CM Diagnosis
304.22	Cocaine dependence, episodic	ICD-9-CM Diagnosis
304.23	Cocaine dependence, in remission	ICD-9-CM Diagnosis
304.20	Cocaine dependence, unspecified	ICD-9-CM Diagnosis
304.8	Combinations of drug dependence excluding opioid type drug	ICD-9-CM Diagnosis
304.81	Combinations of drug dependence excluding opioid type drug, continuous	ICD-9-CM Diagnosis
304.82	Combinations of drug dependence excluding opioid type drug, episodic	ICD-9-CM Diagnosis
304.83	Combinations of drug dependence excluding opioid type drug, in remission	ICD-9-CM Diagnosis
304.80	Combinations of drug dependence excluding opioid type drug, unspecified	ICD-9-CM Diagnosis
304.7	Combinations of opioid type drug with any other drug dependence	ICD-9-CM Diagnosis
304.71	Combinations of opioid type drug with any other drug dependence, continuous	ICD-9-CM Diagnosis
304.72	Combinations of opioid type drug with any other drug dependence, episodic	ICD-9-CM Diagnosis
304.73	Combinations of opioid type drug with any other drug dependence, in remission	ICD-9-CM Diagnosis
304.70	Combinations of opioid type drug with any other drug dependence, unspecified	ICD-9-CM Diagnosis
292.81	Drug-induced delirium	ICD-9-CM Diagnosis
292	Drug-induced mental disorders	ICD-9-CM Diagnosis
292.84	Drug-induced mood disorder	ICD-9-CM Diagnosis
292.83	Drug-induced persisting amnestic disorder	ICD-9-CM Diagnosis
292.82	Drug-induced persisting dementia	ICD-9-CM Diagnosis
292.1	Drug-induced psychotic disorder	ICD-9-CM Diagnosis
292.11	Drug-induced psychotic disorder with delusions	ICD-9-CM Diagnosis
292.12	Drug-induced psychotic disorder with hallucinations	ICD-9-CM Diagnosis
304	Drug dependence	ICD-9-CM Diagnosis
292.85	Drug induced sleep disorders	ICD-9-CM Diagnosis
292.0	Drug withdrawal	ICD-9-CM Diagnosis
304.5	Hallucinogen dependence	ICD-9-CM Diagnosis
304.51	Hallucinogen dependence, continuous	ICD-9-CM Diagnosis
304.52	Hallucinogen dependence, episodic	ICD-9-CM Diagnosis
304.53	Hallucinogen dependence, in remission	ICD-9-CM Diagnosis
304.50	Hallucinogen dependence, unspecified	ICD-9-CM Diagnosis
291.4	Idiosyncratic alcohol intoxication	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
648.3	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium	ICD-9-CM Diagnosis
305	Nondependent abuse of drugs	ICD-9-CM Diagnosis
305.0	Nondependent alcohol abuse	ICD-9-CM Diagnosis
305.01	Nondependent alcohol abuse, continuous	ICD-9-CM Diagnosis
305.02	Nondependent alcohol abuse, episodic	ICD-9-CM Diagnosis
305.03	Nondependent alcohol abuse, in remission	ICD-9-CM Diagnosis
305.00	Nondependent alcohol abuse, unspecified	ICD-9-CM Diagnosis
305.7	Nondependent amphetamine or related acting sympathomimetic abuse	ICD-9-CM Diagnosis
305.71	Nondependent amphetamine or related acting sympathomimetic abuse, continuous	ICD-9-CM Diagnosis
305.72	Nondependent amphetamine or related acting sympathomimetic abuse, episodic	ICD-9-CM Diagnosis
305.73	Nondependent amphetamine or related acting sympathomimetic abuse, in remission	ICD-9-CM Diagnosis
305.70	Nondependent amphetamine or related acting sympathomimetic abuse, unspecified	ICD-9-CM Diagnosis
305.8	Nondependent antidepressant type abuse	ICD-9-CM Diagnosis
305.81	Nondependent antidepressant type abuse, continuous	ICD-9-CM Diagnosis
305.82	Nondependent antidepressant type abuse, episodic	ICD-9-CM Diagnosis
305.83	Nondependent antidepressant type abuse, in remission	ICD-9-CM Diagnosis
305.80	Nondependent antidepressant type abuse, unspecified	ICD-9-CM Diagnosis
305.2	Nondependent cannabis abuse	ICD-9-CM Diagnosis
305.21	Nondependent cannabis abuse, continuous	ICD-9-CM Diagnosis
305.22	Nondependent cannabis abuse, episodic	ICD-9-CM Diagnosis
305.23	Nondependent cannabis abuse, in remission	ICD-9-CM Diagnosis
305.20	Nondependent cannabis abuse, unspecified	ICD-9-CM Diagnosis
305.6	Nondependent cocaine abuse	ICD-9-CM Diagnosis
305.61	Nondependent cocaine abuse, continuous	ICD-9-CM Diagnosis
305.62	Nondependent cocaine abuse, episodic	ICD-9-CM Diagnosis
305.63	Nondependent cocaine abuse, in remission	ICD-9-CM Diagnosis
305.60	Nondependent cocaine abuse, unspecified	ICD-9-CM Diagnosis
305.3	Nondependent hallucinogen abuse	ICD-9-CM Diagnosis
305.31	Nondependent hallucinogen abuse, continuous	ICD-9-CM Diagnosis
305.32	Nondependent hallucinogen abuse, episodic	ICD-9-CM Diagnosis
305.33	Nondependent hallucinogen abuse, in remission	ICD-9-CM Diagnosis
305.30	Nondependent hallucinogen abuse, unspecified	ICD-9-CM Diagnosis
305.5	Nondependent opioid abuse	ICD-9-CM Diagnosis
305.51	Nondependent opioid abuse, continuous	ICD-9-CM Diagnosis
305.52	Nondependent opioid abuse, episodic	ICD-9-CM Diagnosis
305.53	Nondependent opioid abuse, in remission	ICD-9-CM Diagnosis
305.50	Nondependent opioid abuse, unspecified	ICD-9-CM Diagnosis
305.41	Nondependent sedative hypnotic or anxiolytic abuse, continuous	ICD-9-CM Diagnosis
305.4	Nondependent sedative, hypnotic or anxiolytic abuse	ICD-9-CM Diagnosis
305.42	Nondependent sedative, hypnotic or anxiolytic abuse, episodic	ICD-9-CM Diagnosis
305.43	Nondependent sedative, hypnotic or anxiolytic abuse, in remission	ICD-9-CM Diagnosis
305.40	Nondependent sedative, hypnotic or anxiolytic abuse, unspecified	ICD-9-CM Diagnosis
304.0	Opioid type dependence	ICD-9-CM Diagnosis
304.01	Opioid type dependence, continuous	ICD-9-CM Diagnosis
304.02	Opioid type dependence, episodic	ICD-9-CM Diagnosis

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
304.03	Opioid type dependence, in remission	ICD-9-CM Diagnosis
304.00	Opioid type dependence, unspecified	ICD-9-CM Diagnosis
303.9	Other and unspecified alcohol dependence	ICD-9-CM Diagnosis
303.91	Other and unspecified alcohol dependence, continuous	ICD-9-CM Diagnosis
303.92	Other and unspecified alcohol dependence, episodic	ICD-9-CM Diagnosis
303.93	Other and unspecified alcohol dependence, in remission	ICD-9-CM Diagnosis
303.90	Other and unspecified alcohol dependence, unspecified	ICD-9-CM Diagnosis
291.8	Other specified alcohol-induced mental disorders	ICD-9-CM Diagnosis
291.89	Other specified alcohol-induced mental disorders	ICD-9-CM Diagnosis
292.89	Other specified drug-induced mental disorder	ICD-9-CM Diagnosis
292.8	Other specified drug-induced mental disorders	ICD-9-CM Diagnosis
304.6	Other specified drug dependence	ICD-9-CM Diagnosis
304.61	Other specified drug dependence, continuous	ICD-9-CM Diagnosis
304.62	Other specified drug dependence, episodic	ICD-9-CM Diagnosis
304.63	Other specified drug dependence, in remission	ICD-9-CM Diagnosis
304.60	Other specified drug dependence, unspecified	ICD-9-CM Diagnosis
305.9	Other, mixed, or unspecified nondependent drug abuse	ICD-9-CM Diagnosis
305.91	Other, mixed, or unspecified nondependent drug abuse, continuous	ICD-9-CM Diagnosis
305.92	Other, mixed, or unspecified nondependent drug abuse, episodic	ICD-9-CM Diagnosis
305.93	Other, mixed, or unspecified nondependent drug abuse, in remission	ICD-9-CM Diagnosis
305.90	Other, mixed, or unspecified nondependent drug abuse, unspecified	ICD-9-CM Diagnosis
292.2	Pathological drug intoxication	ICD-9-CM Diagnosis
304.1	Sedative, hypnotic or anxiolytic dependence	ICD-9-CM Diagnosis
304.11	Sedative, hypnotic or anxiolytic dependence, continuous	ICD-9-CM Diagnosis
304.12	Sedative, hypnotic or anxiolytic dependence, episodic	ICD-9-CM Diagnosis
304.13	Sedative, hypnotic or anxiolytic dependence, in remission	ICD-9-CM Diagnosis
304.10	Sedative, hypnotic or anxiolytic dependence, unspecified	ICD-9-CM Diagnosis
291.9	Unspecified alcohol-induced mental disorders	ICD-9-CM Diagnosis
571.3	Unspecified alcoholic liver damage	ICD-9-CM Diagnosis
292.9	Unspecified drug-induced mental disorder	ICD-9-CM Diagnosis
304.9	Unspecified drug dependence	ICD-9-CM Diagnosis
304.91	Unspecified drug dependence, continuous	ICD-9-CM Diagnosis
304.92	Unspecified drug dependence, episodic	ICD-9-CM Diagnosis
304.93	Unspecified drug dependence, in remission	ICD-9-CM Diagnosis
304.90	Unspecified drug dependence, unspecified	ICD-9-CM Diagnosis
94.62	Alcohol detoxification	ICD-9-Procedure
94.61	Alcohol rehabilitation	ICD-9-Procedure
94.63	Alcohol rehabilitation and detoxification	ICD-9-Procedure
94.6	Alcohol and drug rehabilitation and detoxification	ICD-9-Procedure
94.46	Alcoholism counseling	ICD-9-Procedure
94.69	Combined alcohol and drug rehabilitation and detoxification	ICD-9-Procedure
94.68	Combined alcohol and drug detoxification	ICD-9-Procedure
94.67	Combined alcohol and drug rehabilitation	ICD-9-Procedure
94.53	Referral for alcoholism rehabilitation	ICD-9-Procedure

Appendix D. List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Current Procedural Terminology, Second Revision (CPT-2), CPT-4, and Healthcare Common Procedure Coding System (HCPCS) Diagnosis and Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
H0020	Alcohol and/or drug services; methadone administration and/or service (provision of the drug by a licensed program)	HCPCS
H0015	Alcohol and/or drug services; intensive outpatient (treatment program that operates at least 3 hours/day and at least 3 days/week and is based on an individualized treatment plan), including assessment, counseling; crisis intervention, and activity therapies or education	HCPCS
H0011	Alcohol and/or drug services; acute detoxification (residential addiction program inpatient)	HCPCS
H0013	Alcohol and/or drug services; acute detoxification (residential addiction program outpatient)	HCPCS
H0010	Alcohol and/or drug services; subacute detoxification (residential addiction program inpatient)	HCPCS
H0012	Alcohol and/or drug services; subacute detoxification (residential addiction program outpatient)	HCPCS
H0014	Alcohol and/or drug services; ambulatory detoxification	HCPCS
H0007	Alcohol and/or drug services; crisis intervention (outpatient)	HCPCS
H0005	Alcohol and/or drug services; group counseling by a clinician	HCPCS
H0008	Alcohol and/or drug services; subacute detoxification (hospital inpatient)	HCPCS
H2036	Alcohol and/or other drug treatment program, per diem	HCPCS
H2035	Alcohol and/or other drug treatment program, per hour	HCPCS
T1006	Alcohol and/or substance abuse services, family/couple counseling	HCPCS
H0022	Alcohol and/or drug intervention service (planned facilitation)	HCPCS
T1012	Alcohol and/or substance abuse services, skills development	HCPCS
T1007	Alcohol and/or substance abuse services, treatment plan development and/or modification	HCPCS
T1008	Day treatment for individual alcohol and/or substance abuse services	HCPCS
T1010	Meals for individuals receiving alcohol and/or substance abuse services (when meals not included in the program)	HCPCS
4320F	Patient counseled regarding psychosocial and pharmacologic treatment options for alcohol dependence (SUD)	CPT-2

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
Substance abuse history or fentanyl use	
BUPRENORPHINE	buprenorphine
BUPRENORPHINE	Butrans
BUPRENORPHINE HCL	Belbuca
BUPRENORPHINE HCL	Buprenex
BUPRENORPHINE HCL	buprenorphine HCl
BUPRENORPHINE HCL	buprenorphine HCl (bulk)
BUPRENORPHINE HCL	Probuphine
BUPRENORPHINE HCL	Subutex
BUPRENORPHINE HCL/NALOXONE HCL	Bunavail
BUPRENORPHINE HCL/NALOXONE HCL	buprenorphine-naloxone
BUPRENORPHINE HCL/NALOXONE HCL	Suboxone
BUPRENORPHINE HCL/NALOXONE HCL	Zubsolv
FENTANYL	Duragesic
FENTANYL	fentanyl
FENTANYL	fentanyl (bulk)
FENTANYL	Subsys
FENTANYL CITRATE	Abstral
FENTANYL CITRATE	Actiq
FENTANYL CITRATE	fentanyl citrate
FENTANYL CITRATE	fentanyl citrate (bulk)
FENTANYL CITRATE	Fentora
FENTANYL CITRATE	Lazanda
FENTANYL CITRATE	Onsolis
FENTANYL CITRATE IN 0.9 % SODIUM CHLORIDE/PF	fentanyl citrate-0.9%NaCl (PF)
FENTANYL CITRATE IN DEXTROSE 5% IN WATER/PF	fentanyl citrate in D5W (PF)
FENTANYL CITRATE/BUPIVACAINE HCL IN 0.9 % SODIUM CHLORIDE/PF	fentanyl (PF)-bupivacaine-NaCl
FENTANYL CITRATE/DROPERIDOL	fentanyl-droperidol
FENTANYL CITRATE/PF	fentanyl citrate (PF)
FENTANYL CITRATE/PF	Sublimaze (PF)
FENTANYL CITRATE/ROPIVACAINE HCL/SODIUM CHLORIDE 0.9%/PF	fentanyl-ropivacaine-NaCl (PF)
FENTANYL HCL	lonsys
METHADONE HCL	Diskets
METHADONE HCL	Dolophine
METHADONE HCL	methadone
METHADONE HCL	methadone (bulk)
METHADONE HCL	Methadone Intensol
METHADONE HCL	Methadose
METHADONE HYDROCHLORIDE IN 0.9 % SODIUM CHLORIDE	methadone in 0.9 % sod. chlor

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
Benzodiazepines	
ALPRAZOLAM	alprazolam
ALPRAZOLAM	alprazolam (bulk)
ALPRAZOLAM	Alprazolam Intensol
ALPRAZOLAM	Niravam
ALPRAZOLAM	Xanax
ALPRAZOLAM	Xanax XR
ALPRAZOLAM/DIETARY SUPPLEMENT,MISC COMBO NO.17	Gabazolamine
AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE	amitriptyline-chlordiazepoxide
AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE	Limbitrol
AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE	Limbitrol DS
CHLORDIAZEPOXIDE HCL	chlordiazepoxide HCl
CHLORDIAZEPOXIDE HCL	Librium
CHLORDIAZEPOXIDE/CLIDINIUM BROMIDE	chlordiazepoxide-clidinium
CHLORDIAZEPOXIDE/CLIDINIUM BROMIDE	Librax (with clidinium)
CLOBAZAM	Onfi
CLONAZEPAM	clonazepam
CLONAZEPAM	clonazepam (bulk)
CLONAZEPAM	Klonopin
CLORAZEPATE DIPOTASSIUM	clorazepate dipotassium
CLORAZEPATE DIPOTASSIUM	Tranxene T-Tab
CLORAZEPATE DIPOTASSIUM	Tranxene-SD
DIAZEPAM	Diastat
DIAZEPAM	Diastat AcuDial
DIAZEPAM	diazepam
DIAZEPAM	diazepam (bulk)
DIAZEPAM	Diazepam Intensol
DIAZEPAM	Valium
ESTAZOLAM	estazolam
ESTAZOLAM	Prosom
FLURAZEPAM HCL	Dalmane
FLURAZEPAM HCL	flurazepam
LORAZEPAM	Ativan
LORAZEPAM	lorazepam
LORAZEPAM	lorazepam (bulk)
LORAZEPAM	Lorazepam Intensol
LORAZEPAM IN 0.9 % SODIUM CHLORIDE	lorazepam in 0.9% sod chloride
LORAZEPAM IN 5 % DEXTROSE AND WATER	lorazepam in dextrose 5 %
MIDAZOLAM	midazolam (bulk)
MIDAZOLAM HCL	midazolam
MIDAZOLAM HCL IN 0.9 % SODIUM CHLORIDE	midazolam in 0.9 % sod chlorid
MIDAZOLAM HCL IN 0.9 % SODIUM CHLORIDE/PF	midazolam (PF) in 0.9 % NaCl
MIDAZOLAM HCL IN 5 % DEXTROSE AND WATER/PF	midazolam in dextrose 5 % (PF)
MIDAZOLAM HCL IN DEXTROSE 5% IN WATER	midazolam in dextrose 5 %
MIDAZOLAM HCL/PF	midazolam (PF)
OXAZEPAM	oxazepam
QUAZEPAM	Doral
QUAZEPAM	quazepam

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
TEMAZEPAM	Restoril
TEMAZEPAM	temazepam
TEMAZEPAM/DIETARY SUPPLEMENT NO.8	Strazepam
TRIAZOLAM	Halcion
TRIAZOLAM	triazolam
Gabapentinoids	
GABAPENTIN	Fanatrex
GABAPENTIN	gabapentin
GABAPENTIN	Gralise
GABAPENTIN	Gralise 30-Day Starter Pack
GABAPENTIN	Neurontin
GABAPENTIN ENACARBIL	Horizant
GABAPENTIN/DIETARY SUPPLEMENT, MISC COMBO NO.11	Therapentin-60
GABAPENTIN/DIETARY SUPPLEMENT, MISC COMBO NO.11	Therapentin-90
PREGABALIN	Lyrica
Sedative Hypnotics	
AMOBARBITAL SODIUM	Amytal
BUTABARBITAL SODIUM	Butisol
CHLORAL HYDRATE	chloral hydrate
CHLORAL HYDRATE	chloral hydrate (bulk)
CHLORAL HYDRATE	Somnote
DEXMEDETOMIDINE HCL	dexmedetomidine
DEXMEDETOMIDINE HCL	Precedex
DEXMEDETOMIDINE HCL IN 0.9 % SODIUM CHLORIDE	Precedex in 0.9 % sodium chlor
DICHLORALPHENAZONE	dichloralphenazone (bulk)
DIPHENHYDRAMINE HCL	diphenhydramine HCl
DOXEPIN HCL	Silenor
ESZOPICLONE	eszopiclone
ESZOPICLONE	Lunesta
MELATONIN	melatonin (bulk)
MEPHOBARBITAL	Mebaral
MEPHOBARBITAL	mephobarbital
PENTOBARBITAL SODIUM	Nembutal Sodium
PENTOBARBITAL SODIUM	pentobarbital sodium
PENTOBARBITAL SODIUM	pentobarbital sodium (bulk)
PHENOBARBITAL	phenobarbital
PHENOBARBITAL SODIUM	Luminal
PHENOBARBITAL SODIUM	phenobarbital sodium
PHENOBARBITAL SODIUM IN 0.9 % SODIUM CHLORIDE	phenobarbital in 0.9 % sod chl
RAMELTEON	Rozerem
SECOBARBITAL SODIUM	Seconal
SECOBARBITAL SODIUM	Seconal Sodium
SUVOREXANT	Belsomra
TASIMELTEON	Hetlioz
ZALEPLON	Sonata
ZALEPLON	zaleplon
ZOLPIDEM TARTRATE	Ambien
ZOLPIDEM TARTRATE	Ambien CR

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ZOLPIDEM TARTRATE	Edluar
ZOLPIDEM TARTRATE	Intermezzo
ZOLPIDEM TARTRATE	zolpidem
ZOLPIDEM TARTRATE	Zolpimist

Appendix G. List of Morphine Milligram Equivalent (MME) Conversion Factors

Ingredient	Conversion Factor
Codeine	0.15
Dihydrocodeine	0.25
Hydrocodone	1
Hydromorphone	4
Levorphanol	11
Meperidine	0.1
Morphine	1
Oxycodone	1.5
Oxymorphone	3
Pentazocine	0.37
Propoxyphene	0.23
Tapentadol	0.4
Tramadol	0.1

Appendix H. Specifications for Request ID: cder_mpl1p_wp011_nsdv01

The Center for Drug Evaluation and Research (CDER) requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool to estimate adequate opioid prescription durations following surgery in the Sentinel Distributed Database (SDD).

Query Period: October 5, 2009-October 5, 2014
Pre-Exposure Enrollment Requirement: 183 days
Post-Exposure Enrollment Requirement: 45 days
Enrollment Gap: 45 days
Coverage Requirement: Medical and Drug
Age Groups: 18-64, 65+ years

Scenario	Group	Exposure											Pre-existing Conditions				Outcome			
		Exposure	Incidence Criteria	Washout (Days)	Minimum Episode Duration (Days)	Episode Gap (Days)	Episode Extension (Days)	Maximum Initial Days Supply*	Cohort Definition	Censor due to Query End	Other Censor Criteria	Censor due to Evidence of Death	Condition	Inclusion or Exclusion	Caresetting: Inpatient (IP), Ambulatory Visit (AV)	Lookback	Outcome	Care Setting	Washout (Days)	Blackout Period (Days)
1**	Knee	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Knee arthroplasty	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
2	Hip_replace	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Hip replacement, total and partial	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
3**	Laminect_dissect	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Laminectomy, discectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
4**	Spinal_nonspec	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Spinal fusion (nonspecific)	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
5**	Spinal_less3	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Short spinal fusion (<3 levels)	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
6**	Spinal_great3	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Spinal Fusion (>= 3 levels)	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				

Appendix H. Specifications for Request ID: cder_mpl1p_wp011_nsdv_v01

The Center for Drug Evaluation and Research (CDER) requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool to estimate adequate opioid prescription durations following surgery in the Sentinel Distributed Database (SDD).

Query Period: October 5, 2009-October 5, 2014
Pre-Exposure Enrollment Requirement: 183 days
Post-Exposure Enrollment Requirement: 45 days
Enrollment Gap: 45 days
Coverage Requirement: Medical and Drug
Age Groups: 18-64, 65+ years

Scenario	Group	Exposure							Pre-existing Conditions					Outcome						
		Exposure	Incidence Criteria	Washout (Days)	Minimum Episode Duration (Days)	Episode Gap (Days)	Episode Extension Period (Days)	Maximum Initial Days Supply*	Cohort Definition	Censor due to Query End	Other Censor Criteria	Censor due to Evidence of Death	Condition	Inclusion or Exclusion	Caresetting: Inpatient (IP), Ambulatory Visit (AV)	Lookback	Outcome	Care Setting	Washout (Days)	Blackout Period (Days)
7	Tooth	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Tooth Extraction	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
8**	Hip_frac	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Hip fracture, treatment	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
9	Chol_open	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Open cholecystectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
10	Chol_lap	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Laparoscopic cholecystectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
11	Append_nonspec	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Other Appendectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
12	Append_lap	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Laparoscopic appendectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, -0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, -0				
13	Cesarean	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Cesarean section	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, 0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, 0				

Appendix H. Specifications for Request ID: cder_mpl1p_wp011_nsdp_v01

The Center for Drug Evaluation and Research (CDER) requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool to estimate adequate opioid prescription durations following surgery in the Sentinel Distributed Database (SDD).

Query Period: October 5, 2009-October 5, 2014
Pre-Exposure Enrollment Requirement: 183 days
Post-Exposure Enrollment Requirement: 45 days
Enrollment Gap: 45 days
Coverage Requirement: Medical and Drug
Age Groups: 18-64, 65+ years

Scenario	Group	Exposure										Pre-existing Conditions				Outcome				
		Exposure	Incidence Criteria	Washout (Days)	Minimum Episode Duration (Days)	Episode Gap (Days)	Episode Extension Period (Days)	Maximum Initial Days Supply*	Cohort Definition	Censor due to Query End	Other Censor Criteria	Censor due to Evidence of Death	Condition	Inclusion or Exclusion	Caresetting: Inpatient (IP), Ambulatory Visit (AV)	Lookback	Outcome	Care Setting	Washout (Days)	Blackout Period (Days)
14	CABG	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	CABG	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, 0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, 0				
15	Hyst_abdvag	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Hysterectomy (abdominal/vaginal non-laparoscopic)	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, 0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, 0				
16	Hyst_lap	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Hysterectomy (laparoscopic)	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, 0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, 0				
17	Bunion	All opioids	All opioids	183	0	0	14	30	Include the first valid episode per patient	No	IS visit	Yes	Bunionectomy	Include	IP*, AV*	-7,0	Opioid refill (any opioid)	Any	0	1
													Other surgery	Exclude	Any	Any time before index date, 0				
													Cancer	Exclude	Any	-183, 0				
													Substance abuse history or fentanyl use	Exclude	Any	-183, 0				

*Additional custom programming was used to add this variable and enhance CIDA capabilities.

Note: International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Second Revision (CPT-4), and CPT-4 codes are provided by Optum360. National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus"

**Results from this scenario have been redacted. Upon review of a draft of this report, the Sentinel Operations Center and FDA determined that the code list used to define this surgical procedure-based inclusion criteria was inadequate or incomplete. Note that in other scenarios, the exclusion criteria for "other surgery" still includes codes used to define this scenario.