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

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

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 If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at info@sentinelsystem.org.



Request ID: cder_mpl2r_wp011_nsdp_v01

<u>Request Description</u>: The goal of this request was to assess the risk of acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to one another, to long-acting insulins, to pioglitazone, and to second-generation sulfonylureas in the Sentinel Distributed Database (SDD).

The request had two components: the "replication" analysis aimed to recreate the final analysis from a protocol-based assessment (PBA) of these diabetes drug exposures and health outcomes, while the "updated" analysis featured the same drug comparisons and outcomes but was run on the latest available data and accounted for present-day drugs and analysis tool capabilities.^{1,2,3}

Following is a list of reports for the "updated" analysis. The report contained in this file is bolded.

Report 1 investigates AMI incidence among new users of saxagliptin and comparator drugs under "updated" analytic conditions.

Report 2 investigates AMI incidence among new users of sitagliptin and comparator drugs under "updated" analytic conditions.

Report 3 investigates hHF incidence among new users of saxagliptin and comparator drugs under "updated" analytic conditions.

Report 4 investigates hHF incidence among new users of sitagliptin and comparator drugs under "updated" analytic conditions.

<u>Sentinel Routine Querying Module</u>: Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Analysis, version 7.3.4

Data Source: We used data from October 1, 2006 - September 30, 2015 from 16 Data Partners contributing to the SDD. We distributed this request on July 29, 2019. See Appendix A for a list of dates of available data for each Data Partner.

<u>Study Design</u>: This query used a retrospective new-user cohort design. We reported effect estimates for overall populations and for subgroups defined by prior diagnosis of cardiovascular disease (CVD) status, sex, and age group.

Exposures of Interest: The four exposures of interest for this report were paired below into three comparisons. We defined each exposure using National Drug Codes (NDCs). Please see Appendix B for generic names of medical products used to define exposures in this request.

Comparison 1: Sitagliptin vs. pioglitazone

Comparison 2: Sitagliptin vs. long-acting insulins

Comparison 3: Sitagliptin vs. second-generation sulfonylureas

<u>Cohort Eligibility Criteria:</u> We included individuals in our analysis if they were continuously enrolled in health plans with medical and drug coverage for at least 365 days prior to their first qualifying (index) dispensing date, during which gaps in coverage of up to 45 days were allowed. We excluded members who had claims (NDCs) indicating use of either sitagliptin or the comparator drug in the 365 days prior to their index date. Generic names of medical products for incidence criteria are shown in Appendix B. We restricted our analysis to patients classified as male or female sex (excluding "other" and "missing") who were at least 18 years of age at index. We reported outcomes according to the following age categories: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, and 85 years or greater. This analysis captured only the first valid index date during the query period.



Inclusion and Exclusion Criteria: For all comparisons, we included patients with either a diabetes diagnosis or a non-shortacting insulin diabetes medication dispensing in the 365 days prior to the index dispensing date. We excluded patients with gestational diabetes, defined as a female patient with a diagnosis signaling pregnancy (such as delivery, miscarriage, or ongoing pregnancy) on the index date or in the 365 days prior to index date (in addition to the aforementioned diabetes diagnosis inclusion criterion). For the pioglitazone comparison only, we additionally excluded individuals with evidence of congestive heart failure in the 365 days prior to index. For the long-acting insulin comparison only, we additionally excluded patients with no diabetes medication other than short-acting insulin in the 365 days prior to index. We defined all inclusion and exclusion criteria using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis codes and National Drug Codes (NDCs). Please see Appendix C for a list of diagnosis codes and Appendix D for generic names of medical products used to define inclusions and exclusions in this request.

Stockpiling Algorithm: For same-day dispensings of the same stockpiling group, we set the number of days supplied to equal the sum of days supplied over these dispensings. We handled the amount supplied value for same-day dispensings in the same way. In situations where a dispensing occurred during the supply period for the previous dispensing, we pushed forward the date of this dispensing as if there were no overlap between consecutive dispensing's days supplied. Finally, we only allowed a dispensing to contribute a maximum of 120 days to an episode.

Follow-Up Time: Follow-up time began on the date of first dispensing and continued for the duration of the exposure episode. We defined exposure episode length using outpatient pharmacy dispensings' days supplied values to create a sequence of continuous exposure. We considered exposure episodes to be continuous across dispensings if gaps in days supplied were less than 33% of the previous dispensing length. Follow-up continued until the last day supplied plus a 12-day extension period, or until the first occurrence of any of the following: 1) disenrollment; 2) death; 3) the end of the query period; 4) the outcome of interest; or 5) use of the comparison drug.

<u>Outcome of Interest</u>: The outcome of interest for this was hHF. We defined the outcome as a primary diagnosis in an inpatient (IP) encounter using ICD-9-CM discharge diagnosis codes. We excluded patients from the analysis if they had a primary diagnosis of hHF or AMI in an IP encounter in the 60 days prior to their index date. See Appendix E for a list of ICD-9-CM diagnosis codes used to define hHF and AMI in this request.

Patient Characteristics: We generated covariates for three purposes: 1) to describe the characteristics of our analytic cohorts; 2) to include in our propensity score (PS) model; and 3) to define subgroups for stratified analyses by presence of prior CVD conditions. We defined the baseline period for descriptive variables as the 365 days prior to the exposure of interest, not including the index date, except in describing prior AMI, prior hHF, and prior encounters (see details below). We also reported concurrent use of drugs, defined as evidence of use on index date.

Descriptive and propensity score, baseline only

We assessed the following covariates during only the baseline period and included them in our PS models: age, sex, year of treatment initiation, Combined Comorbidity Index⁴, prior AMI in the past 61-365 days (narrow definition), other ischemic heart disease, congestive heart failure, other heart disease, stroke (broad definition), stroke (narrow definition), peripheral arterial disease, coronary revascularization procedures (defined as coronary artery bypass graft or percutaneous coronary intervention), carotid revascularization procedures (defined as carotid bypass or carotid endarterectomy, stenting, angioplasty or atherectomy), lower extremity revascularization (defined as lower extremity bypass, lower extremity amputation, lower extremity endarterectomy, stenting, angioplasty or atherectomy), store (excluding non-melanoma skin cancer), chronic kidney disease (excluding end-stage renal disease), chronic obstructive pulmonary disease, dementia, depression, end-stage renal disease, fracture, human immunodeficiency virus or acquired immunodeficiency syndrome, hyperlipidemia or lipid disorder, hypertension, hypoglycemia, obesity (or weight gain), osteoporosis, peripheral neuropathy, tobacco use, non-acute institutional stay (IS encounter) in prior year, any hospitalization (IP encounter) within prior 30 days, any emergency department visit within prior 31-365 days, number of outpatient visits (AV encounter) in prior year, and number of unique medications dispensed in prior year.



Descriptive and propensity score, baseline and concurrent use

We assessed the following drug use covariates during the baseline period and, separately, on index date only. We included both baseline and index values of these variables in our PS models: alpha-glucosidase inhibitors, biguanides, other dipeptidyl peptidase-4 (DPP-4) inhibitors, meglitinides, saxagliptin, sitagliptin, pioglitazone, first-generation sulfonylureas, second-generation sulfonylureas, long-acting insulin, short-acting insulin, other thiazolidinediones, other anti-diabetics (defined as glucagon-like peptide-1 (GLP-1) analogues, amylin analog-types or canagliflozin), angiotensin-converting enzyme (ACE) inhibitors, alpha blockers, angiotensin receptor blockers (ARB), beta blockers, calcium channel blockers, direct vasodilators, loop diuretics, aldosterone receptor agonists (ARAs), non-ARA potassium sparing diuretics, thiazide diuretics, renin inhibitors, central alpha-2 receptor agonists, reserpine and derivatives, and lipid-lowering agents. We included in each PS model all exposure drugs of interest other than the treatment and comparator under assessment. For example, the PS model for the saxagliptin versus long-acting insulin comparison included sitagliptin, pioglitazone, and second-generation sulfonylureas, but not long-acting insulins. Saxagliptin is an exception to this, and its handling is detailed below.

Additionally, we grouped a selection of antidiabetic agents into two aggregate "other anti-diabetics" variables based on the previous PBA, one describing use during the baseline period and one describing use on index day. We included both variables in our PS model. These aggregate variables included: alpha-glucosidase inhibitors, other DPP-4 inhibitors, meglitinides, first-generation sulfonylureas, saxagliptin, and other anti-diabetics (defined as GLP-1 analogues, amylin analog-types or canagliflozin). In analyses where saxagliptin was an exposure of interest, we did not include saxagliptin in the definitions of "other anti-diabetics" at baseline or at index.

Similarly, we identified use of the following anti-hypertensive drugs and grouped them into two aggregate variables, one describing use during the baseline period and one describing use on index day. We included both variables in our PS model. The aggregate variables include: central alpha-2 receptor agonists, alpha blockers, ARAs, potassium sparing diuretics, loop diuretics, direct vasodilators, renin inhibitors, reserpine and derivatives, and direct vasodilators.

Descriptive only, baseline only

We assessed the following descriptive variables during the baseline period only and did not include them in PS models: each of the components that make up coronary revascularization procedures, carotid revascularization procedures, lower extremity revascularization procedures covariates, aggregate of all cardiovascular disease covariates previously listed, aggregate of all comorbidity covariates previously listed, aggregates of all anti-diabetic medication in the baseline period and on index day, aggregates of all anti-hypertensive agents in the baseline period and on index day, prior AMI in the previous 61 to 365 days (broad definition), and prior hHF in the previous 61 to 365 days.

Prior CVD subgroups

We classified patients into "presence of prior CVD" and "no prior CVD" subgroups for stratified analyses. We defined presence of prior CVD conditions according to the following variables, assessed during the baseline period of 365 days prior to the exposure of interest: prior AMI (broad), other ischemic heart disease, heart failure, other heart disease, stroke (broad), peripheral arterial disease, all coronary revascularization procedures, all carotid revascularization procedures, and all lower extremity revascularization.

Care settings

We captured diagnoses and procedures from IP or ambulatory visit (AV) care settings, except for stroke (narrow definition), AMI (narrow definition), and hHF, which required a principal diagnosis in the IP care setting.

<u>Codes</u>

We defined all conditions using ICD-9-CM diagnosis and procedure codes, Healthcare Common Procedure Coding System (HCPCS) codes, and Current Procedural Terminology, Fourth Edition (CPT-4, Category I-III) codes. We defined drug dispensings using NDCs. Please see Appendix F for a list of diagnosis and procedure codes and Appendix G for generic names of medical products used to identify covariates in this request.



<u>Analysis:</u> We estimated propensity scores using the covariates listed above, and adjusted our analytic models via PS matching using 1:1 nearest neighbor matching without replacement using a caliper of 0.01. Each comparator patient was matched one time, at most, to a treatment patient. We estimated adjusted hazard ratios and 95% confidence intervals using Cox regression stratified on Data Partner site (and matched sample in the conditional analysis). We performed subgroup analyses by prior CVD status, sex, and age group (18-64 years, 65 or older). In subgroup analyses, we re-matched patients within subgroups.

Please see Appendices H.1-H.8 for the specifications of parameters for this request and Appendix I for the list of covariates and their use in the PS models and subgroup definition. Note that only comparisons 12 through 14 apply to this report.

Limitations: 1) As with all observational studies, this evaluation was limited in its ability to control for all sources of potential bias. 2) Exposures, outcomes, inclusions, exclusions, episode truncation criteria, and covariates may be misclassified due to imperfect identification algorithms.

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

¹Toh S, Reichman M, Graham D, Hampp C, Zhang R, Butler M, Iyer A, Rucker M, Pimentel M, Hamilton J, Lendle S, Fireman B. Prospective Postmarketing Surveillance of Acute Myocardial Infarction in New Users of Saxagliptin: A Population-Based Study. Diabetes Care 2018;41:39-48

²Toh S, Hampp C, Reichman M, Graham D, Balakrishnan S, Pucino F, Hamilton J, Lendle S, Iyer A, Rucker M, Pimentel M, Nathwani N, Griffin M, Brown N, Fireman B. Risk for Hospitalized Heart Failure Among New Users of Saxagliptin, Sitagliptin, and Other Antihyperglycemic Drugs: A Retrospective Cohort Study. Ann Intern Med. 2016;164:705-714.

³Fireman B, Toh S, Butler M, Go A, Joffe H, Graham D, Nelson J, Daniel G, Selby J. A protocol for active surveillance of acute myocardial infarction in association with the use of a new antidiabetic pharmaceutical agent. Pharmacoepidemiol Drug Saf. 2012 Jan; 21 Suppl 1: 282-90.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759



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

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

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

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

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

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

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

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

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

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

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

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

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

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

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

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

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

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

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

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

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

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



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

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



<u>Glossary of Terms for Analyses Using</u> <u>Propensity Score Analysis (PSA) Tool*</u>

Covariate - requester defined binary variable to include in the propensity score estimation model (e.g., diabetes, heart failure, etc.) during requester-defined lookback period. Requester may also choose to add any of the following categorical, continuous, or count metrics to the propensity score estimation model:

- 1. Age (continuous)
- 2. Sex
- 3. Time period (i.e., monitoring period for sequential analyses)
- 4. Year of exposure
- 5. Comorbidity score
- 6. Medical utilization number of inpatient stays
- 7. Medical utilization number of institutional stays
- 8. Medical utilization number of emergency department visits
- 9. Medical utilization number of outpatient visits
- 10. Health care utilization number of other ambulatory encounters (e.g., telemedicine, email consults)
- 11. Drug utilization number of dispensings
- 12. Drug utilization number of unique generics dispensed
- 13. Drug Utilization number of unique drug classes dispensed

Covariate Evaluation Window - specified number of days relative to index date to evaluate the occurrence of covariates of interest. Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous enrollment before exposure" field.

Individual Level Data Return - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output. Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

Mahalanobis Distance - provides a measure of balance across all variables while accounting for their correlation. **Matching Caliper** - maximum allowed difference in propensity scores between treatment and control patients. Requester may select any caliper (e.g., 0.01, 0.025, and 0.05).

Matching Ratio - patients in exposed and comparator groups are nearest neighbor matched by a 1:1 or 1:n (up to 10) matching ratio.

Matched Conditional and Unconditional Analysis - in a conditional matched analysis, a Cox model, stratified by Data Partner site and matched set, is run on the matched population. This can be done for both the both 1:1 and 1:n matched cohorts. In an unconditional analysis, a Cox model, stratified by Data Partner site only, is run on the matched population. This can be done for the 1:1 matched cohort only.

Propensity Score Stratification - option to stratify propensity scores based on requester-defined percentiles in the unmatched population. In a stratified analysis, a Cox model, stratified by Data Partner site, is run on the stratified population. Note that all patients identified in exposure and comparator cohorts are used in the analysis.

PSM Tool - performs effect estimation by comparing exposure propensity-score matched parallel new user cohorts. Propensity score estimation and matching are conducted within each Sentinel Data Partner site via distributed programming code; data are returned to the SOC, aggregated, and used to calculate effect estimates.

Risk-set Level Data Return - alternative to the patient-level data return approach. In this approach, the PSM tool will produce de-identified, risk-set level datasets instead of or in addition to individual-level output. Whereas each observation in the patient-level datasets represents one patient in the cohort, each observation in the risk set dataset represents one event. Risk sets are created at the Data Partner site, returned to the SOC, aggregated, and used to calculate effect estimates via case-centered logistic regression.

Subgroup Analysis - may be conducted using any requester-defined covariates. Subgroup analyses may be performed in the unmatched and the matched population.



Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Tool*

Zero Cell Correction - indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150.

*all terms may not be used in this report



		Medical	Covariate Balance			
	Sita	gliptin	Piogli	tazone		
		_ .			Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Patients	649,547	100.0%	365,342	100.0%	-	-
Demographics ¹		Standard Deviation		Standard		
	Mean 64.9	11.7	Mean 62.4	Deviation	2 4 4 2	0.211
Mean age (years)				11.5	2.443	0.211
Age (years) 18-29	Number 3,944	Percent	Number 3,061	Percent 0.8%	-0.231	-0.027
30-44	5,944 49,378	0.6% 7.6%		0.8 <i>%</i> 9.4%	-0.231 -1.766	-0.027
50-44 45-54	-		34,226	9.4% 19.0%		-0.085
45-54 55-64	101,687 135,740	15.7% 20.9%	69,436 89,825	19.0% 24.6%	-3.351 -3.689	-0.089
65-74	211,710	32.6%	106,601	29.2%	-3.089 3.415	0.088
75-84	114,778	52.0% 17.7%	51,153	29.2% 14.0%	3.669	0.101
85+	32,310	5.0%	11,040	3.0%	1.952	0.101
Sex	52,510	5.0%	11,040	5.070	1.952	0.100
Female	343,078	52.8%	169,876	46.5%	6.320	0.127
Male	345,078	47.2%	109,870	40.3 <i>%</i> 53.5%	-6.320	-0.127
Race	500,409	47.270	195,400	55.570	-0.320	-0.127
American Indian or Alaska Native	2,861	0.4%	2,542	0.7%	-0.255	-0.034
Asian	19,510	0.4 <i>%</i> 3.0%	2,342 13,977	3.8%	-0.233	-0.034
Black or African American	61,904	9.5%	31,064	3.8 <i>%</i> 8.5%	1.028	0.045
Native Hawaiian or Other Pacific Islander	1,055	9.3 <i>%</i> 0.2%	1,422	0.4%	-0.227	-0.043
Unknown	238,985	36.8%	163,599	44.8%	-7.987	-0.043
White	325,232	50.8% 50.1%	152,738	44.8%	8.264	0.166
Year	525,252	50.170	152,750	41.070	0.204	0.100
2006	89	0.0%	3,055	0.8%	-0.823	-0.127
2007	18,272	2.8%	35,130	9.6%	-6.803	-0.127
2008	19,107	2.8%	26,566	5.0% 7.3%	-4.330	-0.285
2009	35,549	5.5%	46,558	12.7%	-4.330	-0.198
2010	31,289	4.8%	45,707	12.5%	-7.694	-0.235
2010	106,276	4.8% 16.4%	43,707 73,294	20.1%	-3.700	-0.276
2012	111,141	10.4%	30,224	8.3%	8.838	0.268
2012	108,498	16.7%	32,480	8.9%	7.813	0.236
2013	123,587	19.0%	38,483	10.5%	8.493	0.241
2015	95,739	14.7%	33,845	9.3%	5.475	0.169
	55,155	Standard	55,045	Standard	5.475	0.103
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity raw score	1.1	2.1	0.7	1.8	0.364	0.187
	Number	Percent	Number	Percent		
Acute myocardial infarction prior to 60 days	5,501	0.8%	2,221	0.6%	0.239	0.028



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Piogli	Pioglitazone			
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Acute myocardial infarction prior to 60 days before index date (narrow)	1,913	0.3%	832	0.2%	0.067	0.013	
Acute myocardial infarction (broad)	6,712	1.0%	2,654	0.7%	0.307	0.033	
Hospitalized heart failure prior to 60 days before index date	-	0.0%	-	0.0%	0.000	-	
Other ischemic heart disease	142,756	22.0%	62,335	17.1%	4.916	0.124	
Congestive heart failure	-	0.0%	-	0.0%	0.000	-	
Other heart disease	180,118	27.7%	76,463	20.9%	6.801	0.159	
Stroke (broad)	58,305	9.0%	23,651	6.5%	2.503	0.094	
Stroke (narrow)	5,082	0.8%	1,877	0.5%	0.269	0.033	
Peripheral arterial disease	47,922	7.4%	20,223	5.5%	1.842	0.075	
All coronary revascularization procedures	40,528	6.2%	16,979	4.6%	1.592	0.070	
Coronary artery bypass graft	19,744	3.0%	8,136	2.2%	0.813	0.051	
Percutaneous coronary intervention	26,209	4.0%	10,898	3.0%	1.052	0.057	
All carotid revascularization procedures	1,275	0.2%	558	0.2%	0.044	0.010	
Carotid endarterectomy, etc.	****	****	****	****	0.043	0.010	
Carotid bypass	****	****	****	****	0.000	0.002	
All lower extremity revascularization	4,317	0.7%	1,958	0.5%	0.129	0.017	
Lower extremity endarterectomy, etc.	2,390	0.4%	1,061	0.3%	0.078	0.014	
Lower extremity bypass	657	0.1%	279	0.1%	0.025	0.008	
Lower extremity amputation	1,897	0.3%	872	0.2%	0.053	0.010	
All Prior Cardiovascular Disease Covariates	269,767	41.5%	120,821	33.1%	8.461	0.176	
Asthma	54,994	8.5%	25,415	7.0%	1.510	0.057	
Cancer (excluding non-melanoma skin cancer)	59,416	9.1%	25,937	7.1%	2.048	0.075	
Chronic kidney disease (excluding end stage renal disease)	55,070	8.5%	28,650	7.8%	0.636	0.023	
Chronic obstructive pulmonary disease	65,715	10.1%	27,968	7.7%	2.462	0.087	
Dementia	28,414	4.4%	10,379	2.8%	1.534	0.082	
Depression	90,929	14.0%	40,866	11.2%	2.813	0.085	
End stage renal disease (ESRD)	6,526	1.0%	3,443	0.9%	0.062	0.006	
Fracture	26,756	4.1%	12,822	3.5%	0.610	0.032	
Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)	2,071	0.3%	1,223	0.3%	-0.016	-0.003	
Hyperlipidemia or lipid disorder	493,758	76.0%	265,504	72.7%	3.343	0.077	
Hypertension	530,049	81.6%	281,226	77.0%	4.627	0.114	
Hypoglycemia	37,562	5.8%	18,840	5.2%	0.626	0.028	
Obesity (or weight gain)	130,775	20.1%	64,050	17.5%	2.602	0.067	



		Medica	Product		Covariate Balance		
	Sitag	liptin	Piogli	tazone	1	Standardized Difference	
Characteristic	Number	Percent	Number	Percent	Absolute Difference		
Osteoporosis	47,557	7.3%	19,497	5.3%	1.985	0.082	
Peripheral neuropathy	131,967	20.3%	64,496	17.7%	2.663	0.068	
Tobacco use	69,880	10.8%	31,432	8.6%	2.155	0.073	
All comorbidity covariates	615,051	94.7%	336,628	92.1%	2.549	0.103	
History of use:							
Alpha-glucosidase inhibitors (B)	3,902	0.6%	2,363	0.6%	-0.046	-0.006	
Biguanides (B)	463,890	71.4%	250,472	68.6%	2.859	0.062	
Other dipeptidyl peptidase-4 (DPP-4) inhibitors (B)	7,562	1.2%	4,532	1.2%	-0.076	-0.007	
Glucagon-like peptide-1 (GLP-1) analogues (B)	22,628	3.5%	17,057	4.7%	-1.185	-0.060	
Meglitinides (B)	12,634	1.9%	5,836	1.6%	0.348	0.026	
Saxagliptin (B)	22,773	3.5%	10,244	2.8%	0.702	0.040	
Sitagliptin (B)	,	0.0%		0.0%	0.000	-	
Pioglitazone (B)	-	0.0%	-	0.0%	0.000	-	
First-generation sulfonylureas (B)	259	0.0%	3,694	1.0%	-0.971	-0.135	
Second-generation sulfonylureas (B)	301,469	46.4%	183,536	50.2%	-3.825	-0.077	
Long-acting insulins (B)	102,672	15.8%	55,859	15.3%	0.517	0.014	
Short-acting insulins (B)	44,590	6.9%	23,794	6.5%	0.352	0.014	
Other thiazolidinediones (B)	22,518	3.5%	48,084	13.2%	-9.695	-0.357	
Sodium-glucose cotransporter-2 (SGLT-2) inhibitors (B)	5,094	0.8%	2,877	0.8%	-0.003	0.000	
Amylin analog-types (B)	580	0.1%	545	0.1%	-0.060	-0.017	
All anti-diabetics (B)	569,011	87.6%	317,746	87.0%	0.629	0.019	
Angiotensin-converting enzyme inhibitors (B)	308,155	47.4%	180,946	49.5%	-2.086	-0.042	
Alpha blockers (B)	18,120	2.8%	11,175	3.1%	-0.269	-0.016	
Angiotensin receptor blockers (B)	173,000	26.6%	82,076	22.5%	4.168	0.097	
Beta blockers (B)	246,981	38.0%	118,618	32.5%	5.556	0.116	
Calcium channel blockers (B)	166,541	25.6%	79,530	21.8%	3.871	0.091	
Direct vasodilators (B)	10,799	1.7%	4,367	1.2%	0.467	0.039	
Loop diuretics (B)	84,101	12.9%	36,251	9.9%	3.025	0.095	
Aldosterone receptor agonists (ARAs) (B)	15,842	2.4%	6,586	1.8%	0.636	0.044	
Non-ARA potassium sparing diuretics (B)	21,460	3.3%	12,388	3.4%	-0.087	-0.005	
Thiazide diuretics (B)	221,026	34.0%	120,520	33.0%	1.039	0.022	
Renin inhibitors (B)	4,151	0.6%	1,824	0.5%	0.140	0.019	
Central alpha-2 receptor agonists (B)	23,812	3.7%	11,234	3.1%	0.591	0.033	
All anti-hypertensive agents (B)	540,596	83.2%	291,533	79.8%	3.429	0.088	
Lipid lowering agents (B)	456,161	70.2%	250,005	68.4%	1.797	0.039	
Alpha-glucosidase inhibitors (C)	2,396	0.4%	1,484	0.4%	-0.037	-0.006	
	2,350	0.4/0	±,+0+	0.4/0	0.057	0.000	



		Medica	l Product		Covaria	te Balance
	Sitag	liptin	Piogli	tazone		
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Other DPP-4 inhibitors (C)	2,786	0.4%	5,619	1.5%	-1.109	-0.113
GLP-1 analogues (C)	7,594	1.2%	10,466	2.9%	-1.696	-0.121
Meglitinides (C)	8,122	1.3%	3,896	1.1%	0.184	0.017
Saxagliptin (C)	8,032	1.2%	6,841	1.9%	-0.636	-0.051
Sitagliptin (C)	649,547	100.0%	-	0.0%	100.000	-
Pioglitazone (C)	-	0.0%	365,342	100.0%	-100.000	-
First-generation sulfonylureas (C)	122	0.0%	2,316	0.6%	-0.615	-0.108
Second-generation sulfonylureas (C)	235,308	36.2%	154,105	42.2%	-5.955	-0.122
Long-acting insulins (C)	72,569	11.2%	39,013	10.7%	0.494	0.016
Short-acting insulins (C)	23,113	3.6%	12,951	3.5%	0.013	0.001
Other thiazolidinediones (C)	9,455	1.5%	19,482	5.3%	-3.877	-0.215
SGLT-2 inhibitors (C)	3,864	0.6%	2,074	0.6%	0.027	0.004
Amylin analog-types (C)	163	0.0%	208	0.1%	-0.032	-0.016
All anti-diabetics (C)	649,547	100.0%	365,342	100.0%	0.000	-
Angiotensin-converting enzyme inhibitors (C)	251,027	38.6%	151,707	41.5%	-2.878	-0.059
Alpha blockers (C)	13,384	2.1%	8,520	2.3%	-0.272	-0.019
Angiotensin receptor blockers (C)	147,799	22.8%	69,801	19.1%	3.649	0.090
Beta blockers (C)	205,625	31.7%	98,495	27.0%	4.697	0.103
Calcium channel blockers (C)	138,368	21.3%	66,881	18.3%	2.996	0.075
Direct vasodilators (C)	7,832	1.2%	3,049	0.8%	0.371	0.037
Loop diuretics (C)	55,365	8.5%	23,574	6.5%	2.071	0.079
Aldosterone receptor agonists (ARAs) (C)	11,320	1.7%	4,797	1.3%	0.430	0.035
Non-ARA potassium sparing diuretics (C)	14,845	2.3%	8,771	2.4%	-0.115	-0.008
Thiazide diuretics (C)	173,620	26.7%	96,574	26.4%	0.296	0.007
Renin inhibitors (C)	2,541	0.4%	1,260	0.3%	0.046	0.008
Central alpha-2 receptor agonists (C)	16,068	2.5%	7,850	2.1%	0.325	0.022
All anti-hypertensive agents (C)	495,991	76.4%	268,315	73.4%	2.917	0.067
Lipid lowering agents (C)	389,094	59.9%	216,389	59.2%	0.673	0.014
Health Service Utilization Intensity:						
Non-acute institutional stay (IS visit) during	28,852	4.4%	11,300	3.1%	1.349	0.071
prior year						
Any inpatient hospital encounter (IP visit) within prior 30 day	32,562	5.0%	12,311	3.4%	1.643	0.082
Any inpatient hospital encounter (IP visit) 31-	89,639	13.8%	39,619	10.8%	2.956	0.090
365 days prior to index date Any emergency room encounter (ED visit)	33,718	5.2%	16,656	4.6%	0.632	0.029
within prior 30 days Any emergency room encounter (ED visit) 31- 365 days prior to index date	155,458	23.9%	75,539	20.7%	3.257	0.078



		Medical	Covariate Balance			
ľ	Sita	gliptin	Piog	itazone	I	
Characteristic	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters (AV)	17.1	14.6	14.4	13.1	2.764	0.199
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of emergency room encounters (ED)	0.5	1.4	0.4	1.2	0.081	0.061
Mean number of inpatient hospital encounters (IP)	0.3	0.7	0.2	0.6	0.065	0.099
Mean number of non-acute institutional encounters (IS)	0.1	0.4	0.0	0.5	0.017	0.038
Mean number of other ambulatory encounters (OA)	4.8	9.0	4.0	6.9	0.821	0.102
Mean number of unique drug classes	9.6	5.2	8.5	4.9	1.150	0.228
Mean number of generics	10.9	6.1	9.7	5.7	1.168	0.197
Mean number of filled prescriptions	47.6	36.8	40.7	32.4	6.838	0.197

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

¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



		Medical	Product		Covariate Balance		
	Sitagliptin Pioglitazone		tazone				
Chavastavistia	Number	Deveent	Number	Dercent	Absolute Difference	Standardized Difference	
Characteristic Patients	Number 279,295	Percent 43.3%	279,295	Percent 77.0%	-	Difference	
Fatients	279,295		279,295		-	-	
Demographics ¹	Mean	Standard Deviation	Mean	Standard Deviation			
Mean age (years)	62.9	11.7	62.9	11.5	0.027	0.002	
Age (years)	Number	Percent	Number	Percent	0.027	0.002	
18-29	2,088	0.7%	2,300	0.8%	-0.076	-0.009	
30-44	25,769	9.2%	25,268	9.0%	0.179	0.005	
45-54	51,808	18.5%	50,831	18.2%	0.350	0.009	
55-64	65,992	23.6%	65,373	23.4%	0.222	0.005	
65-74	81,529	29.2%	84,971	30.4%	-1.232	-0.027	
75-84	41,221	14.8%	41,354	14.8%	-0.048	-0.001	
85+	10,888	3.9%	9,198	3.3%	0.605	0.033	
Sex	10,000	01070	0)200	0.070	0.000	0.000	
Female	133,023	47.6%	132,910	47.6%	0.040	0.001	
Male	146,272	52.4%	146,385	52.4%	-0.040	-0.001	
Race	- /		-,				
American Indian or Alaska Native	1,907	0.7%	1,910	0.7%	-0.001	0.000	
Asian	7,692	2.8%	7,705	2.8%	-0.005	0.000	
Black or African American	21,730	7.8%	21,738	7.8%	-0.003	0.000	
Native Hawaiian or Other Pacific Islander	555	0.2%	571	0.2%	-0.006	-0.001	
Unknown	130,223	46.6%	130,331	46.7%	-0.039	-0.001	
White	117,188	42.0%	117,040	41.9%	0.053	0.001	
Year							
2006	89	0.0%	111	0.0%	-0.008	-0.004	
2007	17,155	6.1%	17,539	6.3%	-0.137	-0.006	
2008	15,230	5.5%	14,891	5.3%	0.121	0.005	
2009	30,288	10.8%	29,628	10.6%	0.236	0.008	
2010	27,599	9.9%	26,913	9.6%	0.246	0.008	
2011	61,121	21.9%	60,600	21.7%	0.187	0.005	
2012	28,583	10.2%	29,226	10.5%	-0.230	-0.008	
2013	31,288	11.2%	31,592	11.3%	-0.109	-0.003	
2014	36,433	13.0%	37,105	13.3%	-0.241	-0.007	
2015	31,509	11.3%	31,690	11.3%	-0.065	-0.002	
		Standard		Standard			
Recorded history of:	Mean	Deviation	Mean	Deviation			
Prior combined comorbidity raw score	0.8	1.9	0.8	1.9	0.006	0.003	
	Number	Percent	Number	Percent			
Acute myocardial infarction prior to 60 days	1,921	0.7%	1,826	0.7%	0.034	0.004	



		Medica	Product		Covariate Balance		
	Sitag	liptin	Piogli	tazone	I		
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Acute myocardial infarction prior to 60 days before index date (narrow)	677	0.2%	664	0.2%	0.005	0.001	
Acute myocardial infarction (broad)	2,347	0.8%	2,169	0.8%	0.064	0.007	
Hospitalized heart failure prior to 60 days before index date	-	0.0%	-	0.0%	0.000	-	
Other ischemic heart disease	51,994	18.6%	51,536	18.5%	0.164	0.004	
Congestive heart failure	-	0.0%	-	0.0%	0.000	-	
Other heart disease	64,587	23.1%	64,320	23.0%	0.096	0.002	
Stroke (broad)	20,017	7.2%	19,988	7.2%	0.010	0.000	
Stroke (narrow)	1,508	0.5%	1,516	0.5%	-0.003	0.000	
Peripheral arterial disease	16,807	6.0%	16,792	6.0%	0.005	0.000	
All coronary revascularization procedures	14,049	5.0%	13,975	5.0%	0.026	0.001	
Coronary artery bypass graft	6,871	2.5%	6,649	2.4%	0.079	0.005	
Percutaneous coronary intervention	8,986	3.2%	9,042	3.2%	-0.020	-0.001	
All carotid revascularization procedures	423	0.2%	440	0.2%	-0.006	-0.002	
Carotid endarterectomy, etc.	****	****	****	****	-0.006	-0.002	
Carotid bypass	****	****	****	****	0.000	0.002	
All lower extremity revascularization	1,619	0.6%	1,615	0.6%	0.001	0.000	
Lower extremity endarterectomy, etc.	878	0.3%	897	0.3%	-0.007	-0.001	
Lower extremity bypass	256	0.1%	215	0.1%	0.015	0.005	
Lower extremity amputation	714	0.3%	704	0.3%	0.004	0.001	
All Prior Cardiovascular Disease Covariates	100,255	35.9%	99,586	35.7%	0.240	0.005	
Asthma	19,848	7.1%	19,970	7.2%	-0.044	-0.002	
Cancer (excluding non-melanoma skin cancer)	21,488	7.7%	21,202	7.6%	0.102	0.004	
Chronic kidney disease (excluding end stage renal disease)	22,185	7.9%	21,979	7.9%	0.074	0.003	
Chronic obstructive pulmonary disease	23,338	8.4%	23,079	8.3%	0.093	0.003	
Dementia	8,752	3.1%	8,784	3.1%	-0.011	-0.001	
Depression	32,984	11.8%	33,115	11.9%	-0.047	-0.001	
End stage renal disease (ESRD)	2,846	1.0%	2,836	1.0%	0.004	0.000	
Fracture	10,269	3.7%	10,250	3.7%	0.007	0.000	
Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)	927	0.3%	966	0.3%	-0.014	-0.002	
Hyperlipidemia or lipid disorder	206,123	73.8%	206,256	73.8%	-0.048	-0.001	
Hypertension	218,824	78.3%	218,881	78.4%	-0.020	0.000	
Hypoglycemia	14,031	5.0%	14,107	5.1%	-0.027	-0.001	
Obesity (or weight gain)	48,354	17.3%	48,527	17.4%	-0.062	-0.002	
Osteoporosis	16,505	5.9%	16,347	5.9%	0.057	0.002	
Peripheral neuropathy	50,452	18.1%	50,530	18.1%	-0.028	-0.001	



		Medica	l Product		Covaria	te Balance
	Sitag	liptin	Piogli	tazone	1	
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Tobacco use	24,670	8.8%	24,848	8.9%	-0.064	-0.002
All comorbidity covariates	260,371	93.2%	259,808	93.0%	0.202	0.008
History of use:						
Alpha-glucosidase inhibitors (B)	2,166	0.8%	1,711	0.6%	0.163	0.020
Biguanides (B)	190,332	68.1%	190,584	68.2%	-0.090	-0.002
Other dipeptidyl peptidase-4 (DPP-4) inhibitors (B)	3,148	1.1%	4,301	1.5%	-0.413	-0.036
Glucagon-like peptide-1 (GLP-1) analogues (B)	12,853	4.6%	12,968	4.6%	-0.041	-0.002
Meglitinides (B)	7,228	2.6%	4,303	1.5%	1.047	0.074
Saxagliptin (B)	9,690	3.5%	9,346	3.3%	0.123	0.007
Sitagliptin (B)	-	0.0%	-	0.0%	0.000	-
Pioglitazone (B)	-	0.0%	-	0.0%	0.000	-
First-generation sulfonylureas (B)	157	0.1%	183	0.1%	-0.009	-0.004
Second-generation sulfonylureas (B)	133,451	47.8%	132,874	47.6%	0.207	0.004
Long-acting insulins (B)	43,944	15.7%	44,100	15.8%	-0.056	-0.002
Short-acting insulins (B)	19,069	6.8%	19,080	6.8%	-0.004	0.000
Other thiazolidinediones (B)	22,051	7.9%	23,550	8.4%	-0.537	-0.020
Sodium-glucose cotransporter-2 (SGLT-2) inhibitors (B)	2,518	0.9%	2,516	0.9%	0.001	0.000
Amylin analog-types (B)	408	0.1%	398	0.1%	0.004	0.001
All anti-diabetics (B)	242,182	86.7%	239,208	85.6%	1.065	0.031
Angiotensin-converting enzyme inhibitors (B)	133,021	47.6%	133,328	47.7%	-0.110	-0.002
Alpha blockers (B)	7,499	2.7%	7,941	2.8%	-0.158	-0.010
Angiotensin receptor blockers (B)	66,071	23.7%	65,841	23.6%	0.082	0.002
Beta blockers (B)	92,870	33.3%	92,642	33.2%	0.082	0.002
Calcium channel blockers (B)	62,854	22.5%	62,827	22.5%	0.010	0.000
Direct vasodilators (B)	3,589	1.3%	3,551	1.3%	0.014	0.001
Loop diuretics (B)	30,956	11.1%	29,185	10.4%	0.634	0.020
Aldosterone receptor agonists (ARAs) (B)	5,864	2.1%	5,595	2.0%	0.096	0.007
Non-ARA potassium sparing diuretics (B)	9,160	3.3%	9,329	3.3%	-0.061	-0.003
Thiazide diuretics (B)	91,817	32.9%	91,664	32.8%	0.055	0.001
Renin inhibitors (B)	1,775	0.6%	1,541	0.6%	0.084	0.011
Central alpha-2 receptor agonists (B)	8,556	3.1%	8,903	3.2%	-0.124	-0.007
All anti-hypertensive agents (B)	223,320	80.0%	222,366	79.6%	0.342	0.009
Lipid lowering agents (B)	187,818	67.2%	188,105	67.3%	-0.103	-0.002
Alpha-glucosidase inhibitors (C)	1,293	0.5%	1,056	0.4%	0.085	0.013
Biguanides (C)	169,053	60.5%	169,281	60.6%	-0.082	-0.002
Other DPP-4 inhibitors (C)	1,113	0.4%	5,287	1.9%	-1.494	-0.141
GLP-1 analogues (C)	6,394	2.3%	6,701	2.4%	-0.110	-0.007



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Piogli	tazone	ſ		
					Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Meglitinides (C)	4,567	1.6%	2,931	1.0%	0.586	0.051	
Saxagliptin (C)	3,321	1.2%	6,184	2.2%	-1.025	-0.079	
Sitagliptin (C)	279,295	100.0%	-	0.0%	100.000	-	
Pioglitazone (C)	-	0.0%	279,295	100.0%	-100.000	-	
First-generation sulfonylureas (C)	71	0.0%	113	0.0%	-0.015	-0.008	
Second-generation sulfonylureas (C)	109,257	39.1%	109,019	39.0%	0.085	0.002	
Long-acting insulins (C)	30,556	10.9%	30,743	11.0%	-0.067	-0.002	
Short-acting insulins (C)	10,097	3.6%	10,209	3.7%	-0.040	-0.002	
Other thiazolidinediones (C)	9,176	3.3%	9,663	3.5%	-0.174	-0.010	
SGLT-2 inhibitors (C)	1,807	0.6%	1,810	0.6%	-0.001	0.000	
Amylin analog-types (C)	107	0.0%	156	0.1%	-0.018	-0.008	
All anti-diabetics (C)	279,295	100.0%	279,295	100.0%	0.000	-	
Angiotensin-converting enzyme inhibitors (C)	110,242	39.5%	110,588	39.6%	-0.124	-0.003	
Alpha blockers (C)	5,592	2.0%	5,981	2.1%	-0.139	-0.010	
Angiotensin receptor blockers (C)	56,217	20.1%	56,050	20.1%	0.060	0.001	
Beta blockers (C)	76,572	27.4%	76,417	27.4%	0.055	0.001	
Calcium channel blockers (C)	52,194	18.7%	52,292	18.7%	-0.035	-0.001	
Direct vasodilators (C)	2,649	0.9%	2,424	0.9%	0.081	0.008	
Loop diuretics (C)	20,320	7.3%	18,716	6.7%	0.574	0.023	
Aldosterone receptor agonists (ARAs) (C)	4,150	1.5%	4,031	1.4%	0.043	0.004	
Non-ARA potassium sparing diuretics (C)	6,385	2.3%	6,529	2.3%	-0.052	-0.003	
Thiazide diuretics (C)	72,873	26.1%	72,672	26.0%	0.072	0.002	
Renin inhibitors (C)	1,263	0.5%	1,041	0.4%	0.079	0.012	
Central alpha-2 receptor agonists (C)	5,857	2.1%	6,090	2.2%	-0.083	-0.006	
All anti-hypertensive agents (C)	204,157	73.1%	204,031	73.1%	0.045	0.001	
Lipid lowering agents (C)	161,670	57.9%	162,261	58.1%	-0.212	-0.004	
Health Service Utilization Intensity:							
Non-acute institutional stay (IS visit) during	8,330	3.0%	8,427	3.0%	-0.035	-0.002	
prior year							
Any inpatient hospital encounter (IP visit) within prior 30 day	9,948	3.6%	9,939	3.6%	0.003	0.000	
Any inpatient hospital encounter (IP visit) 31- 365 days prior to index date	32,086	11.5%	32,090	11.5%	-0.001	0.000	
Any emergency room encounter (ED visit) within prior 30 days	12,705	4.5%	12,801	4.6%	-0.034	-0.002	
Any emergency room encounter (ED visit) 31- 365 days prior to index date	59,315	21.2%	59,641	21.4%	-0.117	-0.003	



		Medical		Covariate Balance		
I	Sitagliptin		Pioglitazone		1	
Characteristic	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters (AV)	15.4	13.3	15.3	13.7	0.078	0.006
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of emergency room encounters (ED)	0.4	1.2	0.4	1.3	-0.020	-0.016
Mean number of inpatient hospital encounters (IP)	0.2	0.6	0.2	0.6	-0.003	-0.006
Mean number of non-acute institutional encounters (IS)	0.0	0.4	0.0	0.4	0.000	0.000
Mean number of other ambulatory encounters (OA)	4.0	7.7	3.8	7.2	0.171	0.023
Mean number of unique drug classes	8.7	4.9	8.7	5.0	0.052	0.011
Mean number of generics	10.0	5.7	9.9	5.9	0.016	0.003
Mean number of filled prescriptions	43.3	33.9	42.3	33.9	1.014	0.030

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

¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



		Medica	l Product		Covariate Balance		
	Sita	gliptin	Long-Acting Insulins				
					Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Patients	764,558	100.0%	1,016,262	100.0%	-	-	
D U 1		Standard		Standard			
Demographics ¹	Mean	Deviation	Mean	Deviation	4 670	0.427	
Mean age (years)	66.1	11.5	64.5	13.0	1.679	0.137	
Age (years)	Number	Percent	Number	Percent	0.062	0.002	
18-29	3,564	0.5%	13,499	1.3%	-0.862	-0.092	
30-44	49,884	6.5%	85,271	8.4%	-1.866	-0.071	
45-54	109,026	14.3%	160,832	15.8%	-1.566	-0.044	
55-64	152,689	20.0%	218,303	21.5%	-1.510	-0.037	
65-74	249,507	32.6%	296,917	29.2%	3.418	0.074	
75-84	151,205	19.8%	174,478	17.2%	2.608	0.067	
85+	48,683	6.4%	66,962	6.6%	-0.222	-0.009	
Sex							
Female	393,368	51.5%	503,595	49.6%	1.897	0.038	
Male	371,190	48.5%	512,667	50.4%	-1.897	-0.038	
Race							
American Indian or Alaska Native	3,165	0.4%	8,756	0.9%	-0.448	-0.056	
Asian	25,564	3.3%	26,859	2.6%	0.701	0.041	
Black or African American	67,258	8.8%	137,557	13.5%	-4.739	-0.151	
Native Hawaiian or Other Pacific Islander	1,194	0.2%	4,526	0.4%	-0.289	-0.053	
Unknown	280,294	36.7%	279,593	27.5%	9.149	0.197	
White	387,083	50.6%	558,971	55.0%	-4.374	-0.088	
Year							
2006	132	0.0%	3,584	0.4%	-0.335	-0.078	
2007	23,929	3.1%	32,312	3.2%	-0.050	-0.003	
2008	25,212	3.3%	35,101	3.5%	-0.156	-0.009	
2009	44,941	5.9%	59,451	5.8%	0.028	0.001	
2010	38,418	5.0%	54,217	5.3%	-0.310	-0.014	
2011	146,507	19.2%	179,319	17.6%	1.517	0.039	
2012	144,127	18.9%	176,916	17.4%	1.443	0.037	
2013	119,029	15.6%	173,842	17.1%	-1.538	-0.042	
2014	126,660	16.6%	171,998	16.9%	-0.358	-0.010	
2015	95,603	12.5%	129,522	12.7%	-0.241	-0.007	
-	,	Standard	-,	Standard			
Recorded history of:	Mean	Deviation	Mean	Deviation			
Prior combined comorbidity raw score	1.5	2.5	2.9	3.3	-1.378	-0.473	
	Number	Percent	Number	Percent			
Acute myocardial infarction prior to 60 days	10,310	1.3%	23,977	2.4%	-1.011	-0.075	
before index date (broad)							



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Acti	ng Insulins			
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Acute myocardial infarction prior to 60 days before index date (narrow)	3,951	0.5%	9,282	0.9%	-0.397	-0.047	
Acute myocardial infarction (broad)	12,567	1.6%	32,105	3.2%	-1.515	-0.099	
Hospitalized heart failure prior to 60 days before index date	6,854	0.9%	20,804	2.0%	-1.151	-0.096	
Other ischemic heart disease	198,814	26.0%	311,353	30.6%	-4.633	-0.103	
Congestive heart failure	84,082	11.0%	190,028	18.7%	-7.701	-0.218	
Other heart disease	250,412	32.8%	392,958	38.7%	-5.914	-0.124	
Stroke (broad)	75,530	9.9%	123,213	12.1%	-2.245	-0.072	
Stroke (narrow)	6,089	0.8%	20,599	2.0%	-1.231	-0.104	
Peripheral arterial disease	62,735	8.2%	108,042	10.6%	-2.426	-0.083	
All coronary revascularization procedures	62,356	8.2%	123,486	12.2%	-3.995	-0.133	
Coronary artery bypass graft	31,740	4.2%	65,787	6.5%	-2.322	-0.104	
Percutaneous coronary intervention	40,602	5.3%	81,552	8.0%	-2.714	-0.109	
All carotid revascularization procedures	1,756	0.2%	2,999	0.3%	-0.065	-0.013	
Carotid endarterectomy, etc.	****	****	****	****	-0.066	-0.013	
Carotid bypass	****	****	****	****	0.000	0.002	
All lower extremity revascularization	4,933	0.6%	19,070	1.9%	-1.231	-0.111	
Lower extremity endarterectomy, etc.	3,008	0.4%	7,847	0.8%	-0.379	-0.050	
Lower extremity bypass	863	0.1%	2,908	0.3%	-0.173	-0.039	
Lower extremity amputation	1,836	0.2%	11,919	1.2%	-0.933	-0.112	
All Prior Cardiovascular Disease Covariates	356,970	46.7%	548,036	53.9%	-7.237	-0.145	
Asthma	66,937	8.8%	110,273	10.9%	-2.096	-0.071	
Cancer (excluding non-melanoma skin cancer)	73,228	9.6%	112,857	11.1%	-1.527	-0.050	
Chronic kidney disease (excluding end stage renal disease)	75,613	9.9%	157,623	15.5%	-5.620	-0.169	
Chronic obstructive pulmonary disease	93,193	12.2%	179,774	17.7%	-5.501	-0.155	
Dementia	36,084	4.7%	77,022	7.6%	-2.859	-0.119	
Depression	101,301	13.2%	188,099	18.5%	-5.259	-0.144	
End stage renal disease (ESRD)	8,970	1.2%	52,062	5.1%	-3.950	-0.228	
Fracture	34,539	4.5%	63,420	6.2%	-1.723	-0.076	
Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)	2,037	0.3%	5,019	0.5%	-0.227	-0.037	
Hyperlipidemia or lipid disorder	588,869	77.0%	713,030	70.2%	6.859	0.156	
Hypertension	632,555	82.7%	827,852	81.5%	1.274	0.033	
Hypoglycemia	40,069	5.2%	112,331	11.1%	-5.813	-0.214	
Obesity (or weight gain)	150,416	19.7%	258,910	25.5%	-5.803	-0.139	
Osteoporosis	59,697	7.8%	63,334	6.2%	1.576	0.062	
Peripheral neuropathy	147,040	19.2%	262,307	25.8%	-6.579	-0.158	



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Acti	ng Insulins			
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Tobacco use	84,111	11.0%	192,347	18.9%	-7.926	-0.224	
All comorbidity covariates	726,786	95.1%	954,239	93.9%	1.163	0.051	
History of use:							
Alpha-glucosidase inhibitors (B)	5,083	0.7%	8,092	0.8%	-0.131	-0.015	
Biguanides (B)	548,738	71.8%	594,399	58.5%	13.283	0.281	
Other dipeptidyl peptidase-4 (DPP-4) inhibitors (B)	8,150	1.1%	17,069	1.7%	-0.614	-0.053	
Glucagon-like peptide-1 (GLP-1) analogues (B)	22,142	2.9%	65,840	6.5%	-3.583	-0.170	
Meglitinides (B)	16,067	2.1%	21,824	2.1%	-0.046	-0.003	
Saxagliptin (B)	25,818	3.4%	35,337	3.5%	-0.100	-0.006	
Sitagliptin (B)	-	0.0%	-	0.0%	0.000	-	
Pioglitazone (B)	136,999	17.9%	136,921	13.5%	4.446	0.122	
First-generation sulfonylureas (B)	380	0.0%	6,052	0.6%	-0.546	-0.096	
Second-generation sulfonylureas (B)	383,790	50.2%	547,353	53.9%	-3.662	-0.073	
Long-acting insulins (B)	****	****	****	****	0.000	-0.001	
Short-acting insulins (B)	10,346	1.4%	93,692	9.2%	-7.866	-0.357	
Other thiazolidinediones (B)	27,100	3.5%	16,116	1.6%	1.959	0.124	
Sodium-glucose cotransporter-2 (SGLT-2) inhibitors (B)	4,471	0.6%	7,599	0.7%	-0.163	-0.020	
Amylin analog-types (B)	172	0.0%	1,675	0.2%	-0.142	-0.047	
All anti-diabetics (B)	669,941	87.6%	778,756	76.6%	10.995	0.290	
Angiotensin-converting enzyme inhibitors (B)	366,313	47.9%	491,947	48.4%	-0.496	-0.010	
Alpha blockers (B)	23,223	3.0%	38,095	3.7%	-0.711	-0.039	
Angiotensin receptor blockers (B)	209,629	27.4%	208,857	20.6%	6.867	0.161	
Beta blockers (B)	311,845	40.8%	447,041	44.0%	-3.201	-0.065	
Calcium channel blockers (B)	200,968	26.3%	286,354	28.2%	-1.892	-0.043	
Direct vasodilators (B)	15,312	2.0%	41,038	4.0%	-2.035	-0.119	
Loop diuretics (B)	137,220	17.9%	261,477	25.7%	-7.782	-0.189	
Aldosterone receptor agonists (ARAs) (B)	27,962	3.7%	53,744	5.3%	-1.631	-0.079	
Non-ARA potassium sparing diuretics (B)	25,937	3.4%	28,441	2.8%	0.594	0.034	
Thiazide diuretics (B)	261,344	34.2%	297,541	29.3%	4.904	0.106	
Renin inhibitors (B)	5,542	0.7%	4,521	0.4%	0.280	0.037	
Central alpha-2 receptor agonists (B)	28,393	3.7%	56,817	5.6%	-1.877	-0.089	
All anti-hypertensive agents (B)	647,150	84.6%	836,938	82.4%	2.289	0.062	
Lipid lowering agents (B)	549,549	71.9%	, 654,487	64.4%	7.477	0.161	
Alpha-glucosidase inhibitors (C)	3,181	0.4%	4,582	0.5%	-0.035	-0.005	
Biguanides (C)	, 492,538	64.4%	, 432,277	42.5%	21.885	0.450	
Other DPP-4 inhibitors (C)	3,083	0.4%	11,966	1.2%	-0.774	-0.088	
GLP-1 analogues (C)	7,738	1.0%	32,767	3.2%	-2.212	-0.154	



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Actir	ng Insulins	ſ		
	_	-		-	Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Meglitinides (C)	10,729	1.4%	13,713	1.3%	0.054	0.005	
Saxagliptin (C)	9,436	1.2%	20,719	2.0%	-0.805	-0.063	
Sitagliptin (C)	764,558	100.0%	-	0.0%	100.000	-	
Pioglitazone (C)	77,843	10.2%	73,969	7.3%	2.903	0.103	
First-generation sulfonylureas (C)	188	0.0%	3,518	0.3%	-0.322	-0.075	
Second-generation sulfonylureas (C)	303,155	39.7%	402,707	39.6%	0.025	0.001	
Long-acting insulins (C)	****	****	****	****	-100.000	-1236.570	
Short-acting insulins (C)	5,455	0.7%	201,251	19.8%	-19.090	-0.663	
Other thiazolidinediones (C)	9,676	1.3%	5,351	0.5%	0.739	0.078	
SGLT-2 inhibitors (C)	3,410	0.4%	4,589	0.5%	-0.006	-0.001	
Amylin analog-types (C)	43	0.0%	646	0.1%	-0.058	-0.031	
All anti-diabetics (C)	764,558	100.0%	1,016,262	100.0%	0.000	-	
Angiotensin-converting enzyme inhibitors (C)	296,165	38.7%	380,548	37.4%	1.291	0.027	
Alpha blockers (C)	16,970	2.2%	26,751	2.6%	-0.413	-0.027	
Angiotensin receptor blockers (C)	177,206	23.2%	158,950	15.6%	7.537	0.191	
Beta blockers (C)	261,041	34.1%	369,937	36.4%	-2.259	-0.047	
Calcium channel blockers (C)	164,884	21.6%	229,853	22.6%	-1.052	-0.025	
Direct vasodilators (C)	11,044	1.4%	30,567	3.0%	-1.563	-0.106	
Loop diuretics (C)	95,253	12.5%	187,224	18.4%	-5.964	-0.166	
Aldosterone receptor agonists (ARAs) (C)	19,867	2.6%	36,554	3.6%	-0.998	-0.058	
Non-ARA potassium sparing diuretics (C)	17,402	2.3%	17,263	1.7%	0.577	0.041	
Thiazide diuretics (C)	201,426	26.3%	205,967	20.3%	6.078	0.144	
Renin inhibitors (C)	3,388	0.4%	2,207	0.2%	0.226	0.039	
Central alpha-2 receptor agonists (C)	19,116	2.5%	38,971	3.8%	-1.334	-0.076	
All anti-hypertensive agents (C)	596,695	78.0%	763,742	75.2%	2.892	0.068	
Lipid lowering agents (C)	467,959	61.2%	529,654	52.1%	9.089	0.184	
Health Service Utilization Intensity:							
Non-acute institutional stay (IS visit) during	41,654	5.4%	143,488	14.1%	-8.671	-0.295	
prior year							
Any inpatient hospital encounter (IP visit) within prior 30 day	45,171	5.9%	214,246	21.1%	-15.174	-0.455	
Any inpatient hospital encounter (IP visit) 31- 365 days prior to index date	123,437	16.1%	291,609	28.7%	-12.549	-0.304	
Any emergency room encounter (ED visit) within prior 30 days	39,252	5.1%	125,215	12.3%	-7.187	-0.257	
Any emergency room encounter (ED visit) 31- 365 days prior to index date	182,847	23.9%	346,044	34.1%	-10.135	-0.225	



		Medical		Covariate Balance		
I	Sita	Sitagliptin		ting Insulins		I
Characteristic	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters (AV)	17.7	15.0	19.2	17.4	-1.431	-0.088
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of emergency room encounters (ED)	0.5	1.4	0.9	2.1	-0.391	-0.223
Mean number of inpatient hospital encounters (IP)	0.3	0.8	0.8	1.4	-0.465	-0.407
Mean number of non-acute institutional encounters (IS)	0.1	0.5	0.3	1.1	-0.186	-0.216
Mean number of other ambulatory encounters (OA)	5.3	9.9	10.7	17.5	-5.396	-0.380
Mean number of unique drug classes	9.7	5.2	10.4	5.9	-0.684	-0.123
Mean number of generics	11.1	6.1	11.9	6.9	-0.813	-0.125
Mean number of filled prescriptions	48.9	36.8	49.5	40.0	-0.586	-0.015

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

¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



		Medical	Covariate Balance			
	Sita	gliptin	Long-Acti	ing Insulins		
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	477,072	62.5%	477,072	47.7%		-
		Standard		Standard		
Demographics ¹	Mean	Deviation	Mean	Deviation		
Mean age (years)	65.9	12.2	66.1	11.9	-0.140	-0.012
Age (years)	Number	Percent	Number	Percent		
18-29	2,961	0.6%	3,257	0.7%	-0.062	-0.008
30-44	35,384	7.4%	31,090	6.5%	0.900	0.035
45-54	69,018	14.5%	67,133	14.1%	0.395	0.011
55-64	90,218	18.9%	96,606	20.2%	-1.339	-0.034
65-74	153,339	32.1%	155,312	32.6%	-0.414	-0.009
75-84	93,155	19.5%	90,709	19.0%	0.513	0.013
85+	32,997	6.9%	32,965	6.9%	0.007	0.000
Sex						
Female	242,785	50.9%	243,694	51.1%	-0.191	-0.004
Male	234,287	49.1%	233,378	48.9%	0.191	0.004
Race						
American Indian or Alaska Native	2,736	0.6%	2,662	0.6%	0.016	0.002
Asian	8,631	1.8%	9,482	2.0%	-0.178	-0.013
Black or African American	52,793	11.1%	52,115	10.9%	0.142	0.005
Native Hawaiian or Other Pacific Islander	634	0.1%	648	0.1%	-0.003	-0.001
Unknown	149,429	31.3%	149,800	31.4%	-0.078	-0.002
White	262,849	55.1%	262,365	55.0%	0.101	0.002
Year						
2006	132	0.0%	150	0.0%	-0.004	-0.002
2007	10,592	2.2%	10,636	2.2%	-0.009	-0.001
2008	12,000	2.5%	12,021	2.5%	-0.004	0.000
2009	24,105	5.1%	24,281	5.1%	-0.037	-0.002
2010	21,401	4.5%	21,299	4.5%	0.021	0.001
2011	90,225	18.9%	90,722	19.0%	-0.104	-0.003
2012	89,864	18.8%	90,000	18.9%	-0.029	-0.001
2013	82,812	17.4%	82,333	17.3%	0.100	0.003
2014	83,659	17.5%	83,562	17.5%	0.020	0.001
2015	62,282	13.1%	62,068	13.0%	0.045	0.001
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity raw score	2.0	2.8	2.0	2.7	-0.005	-0.002
	Number	Percent	Number	Percent		
Acute myocardial infarction prior to 60 days	8,070	1.7%	8,184	1.7%	-0.024	-0.002



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Acti	ng Insulins			
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Acute myocardial infarction prior to 60 days before index date (narrow)	3,153	0.7%	3,135	0.7%	0.004	0.000	
Acute myocardial infarction (broad)	10,045	2.1%	10,180	2.1%	-0.028	-0.002	
Hospitalized heart failure prior to 60 days before index date	6,161	1.3%	6,299	1.3%	-0.029	-0.003	
Other ischemic heart disease	137,044	28.7%	137,041	28.7%	0.001	0.000	
Congestive heart failure	67,176	14.1%	67,202	14.1%	-0.005	0.000	
Other heart disease	168,362	35.3%	169,172	35.5%	-0.170	-0.004	
Stroke (broad)	51,835	10.9%	52,300	11.0%	-0.097	-0.003	
Stroke (narrow)	5,449	1.1%	5,408	1.1%	0.009	0.001	
Peripheral arterial disease	44,368	9.3%	44,574	9.3%	-0.043	-0.001	
All coronary revascularization procedures	47,468	9.9%	47,104	9.9%	0.076	0.003	
Coronary artery bypass graft	24,589	5.2%	24,773	5.2%	-0.039	-0.002	
Percutaneous coronary intervention	31,105	6.5%	30,391	6.4%	0.150	0.006	
All carotid revascularization procedures	1,278	0.3%	1,250	0.3%	0.006	0.001	
Carotid endarterectomy, etc.	****	****	****	****	0.005	0.001	
Carotid bypass	****	****	****	****	0.001	-	
All lower extremity revascularization	4,412	0.9%	4,530	0.9%	-0.025	-0.003	
Lower extremity endarterectomy, etc.	2,586	0.5%	2,492	0.5%	0.020	0.003	
Lower extremity bypass	809	0.2%	680	0.1%	0.027	0.007	
Lower extremity amputation	1,750	0.4%	2,101	0.4%	-0.074	-0.012	
All Prior Cardiovascular Disease Covariates	238,108	49.9%	242,291	50.8%	-0.877	-0.018	
Asthma	44,896	9.4%	45,094	9.5%	-0.042	-0.001	
Cancer (excluding non-melanoma skin cancer)	49,317	10.3%	49,488	10.4%	-0.036	-0.001	
Chronic kidney disease (excluding end stage renal disease)	59,564	12.5%	59,421	12.5%	0.030	0.001	
Chronic obstructive pulmonary disease	70,860	14.9%	70,512	14.8%	0.073	0.002	
Dementia	27,877	5.8%	28,423	6.0%	-0.114	-0.005	
Depression	74,076	15.5%	74,046	15.5%	0.006	0.000	
End stage renal disease (ESRD)	8,688	1.8%	9,075	1.9%	-0.081	-0.006	
Fracture	24,885	5.2%	25,073	5.3%	-0.039	-0.002	
Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)	1,694	0.4%	1,679	0.4%	0.003	0.001	
Hyperlipidemia or lipid disorder	353,868	74.2%	355,519	74.5%	-0.346	-0.008	
Hypertension	394,079	82.6%	395,131	82.8%	-0.221	-0.006	
Hypoglycemia	32,304	6.8%	32,870	6.9%	-0.119	-0.005	
Obesity (or weight gain)	103,666	21.7%	103,516	21.7%	0.031	0.001	
Osteoporosis	32,176	6.7%	33,179	7.0%	-0.210	-0.008	
Peripheral neuropathy	106,732	22.4%	106,122	22.2%	0.128	0.003	



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Acti	ng Insulins	1		
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Tobacco use	66,803	14.0%	66,058	13.8%	0.156	0.005	
All comorbidity covariates	452,786	94.9%	449,956	94.3%	0.593	0.026	
History of use:							
Alpha-glucosidase inhibitors (B)	3,944	0.8%	3,517	0.7%	0.090	0.010	
Biguanides (B)	314,895	66.0%	316,959	66.4%	-0.433	-0.009	
Other dipeptidyl peptidase-4 (DPP-4) inhibitors (B)	6,602	1.4%	8,521	1.8%	-0.402	-0.032	
Glucagon-like peptide-1 (GLP-1) analogues (B)	20,785	4.4%	20,871	4.4%	-0.018	-0.001	
Meglitinides (B)	12,064	2.5%	10,488	2.2%	0.330	0.022	
Saxagliptin (B)	19,699	4.1%	20,446	4.3%	-0.157	-0.008	
Sitagliptin (B)	-	0.0%	-	0.0%	0.000	-	
Pioglitazone (B)	75,871	15.9%	75,888	15.9%	-0.004	0.000	
First-generation sulfonylureas (B)	248	0.1%	293	0.1%	-0.009	-0.004	
Second-generation sulfonylureas (B)	265,622	55.7%	262,603	55.0%	0.633	0.013	
Long-acting insulins (B)	****	****	****	****	0.000	0.000	
Short-acting insulins (B)	10,274	2.2%	12,346	2.6%	-0.434	-0.029	
Other thiazolidinediones (B)	10,640	2.2%	10,915	2.3%	-0.058	-0.004	
Sodium-glucose cotransporter-2 (SGLT-2) inhibitors (B)	3,519	0.7%	3,413	0.7%	0.022	0.003	
Amylin analog-types (B)	154	0.0%	318	0.1%	-0.034	-0.015	
All anti-diabetics (B)	413,961	86.8%	384,503	80.6%	6.175	0.168	
Angiotensin-converting enzyme inhibitors (B)	234,890	49.2%	234,672	49.2%	0.046	0.001	
Alpha blockers (B)	, 16,184	3.4%	15,873	3.3%	0.065	0.004	
Angiotensin receptor blockers (B)	110,423	23.1%	112,468	23.6%	-0.429	-0.010	
Beta blockers (B)	203,717	42.7%	204,250	42.8%	-0.112	-0.002	
Calcium channel blockers (B)	130,766	27.4%	131,135	27.5%	-0.077	-0.002	
Direct vasodilators (B)	12,441	2.6%	13,414	2.8%	-0.204	-0.013	
Loop diuretics (B)	103,930	21.8%	108,474	22.7%	-0.952	-0.023	
Aldosterone receptor agonists (ARAs) (B)	21,294	4.5%	21,903	4.6%	-0.128	-0.006	
Non-ARA potassium sparing diuretics (B)	16,855	3.5%	13,731	2.9%	0.655	0.037	
Thiazide diuretics (B)	152,119	31.9%	153,090	32.1%	-0.204	-0.004	
Renin inhibitors (B)	3,295	0.7%	2,432	0.5%	0.181	0.023	
Central alpha-2 receptor agonists (B)	20,791	4.4%	21,827	4.6%	-0.217	-0.011	
All anti-hypertensive agents (B)	401,623	84.2%	399,441	83.7%	0.457	0.012	
Lipid lowering agents (B)	324,207	68.0%	326,543	68.4%	-0.490	-0.011	
Alpha-glucosidase inhibitors (C)	2,441	0.5%	2,056	0.4%	0.081	0.012	
Biguanides (C)	249,511	52.3%	255,430	53.5%	-1.241	-0.025	
Other DPP-4 inhibitors (C)	2,428	0.5%	6,262	1.3%	-0.804	-0.085	
GLP-1 analogues (C)	7,660	1.6%	8,034	1.7%	-0.078	-0.006	



		Medica	l Product		Covariate Balance		
	Sitag	liptin	Long-Acti	ng Insulins			
	-	•	-	-	Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Meglitinides (C)	8,117	1.7%	6,919	1.5%	0.251	0.020	
Saxagliptin (C)	7,019	1.5%	13,045	2.7%	-1.263	-0.088	
Sitagliptin (C)	477,072	100.0%	-	0.0%	100.000	-	
Pioglitazone (C)	42,063	8.8%	42,009	8.8%	0.011	0.000	
First-generation sulfonylureas (C)	113	0.0%	127	0.0%	-0.003	-0.002	
Second-generation sulfonylureas (C)	205,467	43.1%	203,519	42.7%	0.408	0.008	
Long-acting insulins (C)	****	****	****	****	-100.000	-976.802	
Short-acting insulins (C)	5,452	1.1%	7,925	1.7%	-0.518	-0.044	
Other thiazolidinediones (C)	3,722	0.8%	3,735	0.8%	-0.003	0.000	
SGLT-2 inhibitors (C)	2,415	0.5%	2,302	0.5%	0.024	0.003	
Amylin analog-types (C)	37	0.0%	140	0.0%	-0.022	-0.016	
All anti-diabetics (C)	477,072	100.0%	477,072	100.0%	0.000	-	
Angiotensin-converting enzyme inhibitors (C)	186,267	39.0%	186,252	39.0%	0.003	0.000	
Alpha blockers (C)	11,618	2.4%	11,593	2.4%	0.005	0.000	
Angiotensin receptor blockers (C)	88,181	18.5%	90,385	18.9%	-0.462	-0.012	
Beta blockers (C)	168,283	35.3%	169,023	35.4%	-0.155	-0.003	
Calcium channel blockers (C)	105,628	22.1%	106,262	22.3%	-0.133	-0.003	
Direct vasodilators (C)	8,963	1.9%	9,712	2.0%	-0.157	-0.011	
Loop diuretics (C)	72,706	15.2%	77,178	16.2%	-0.937	-0.026	
Aldosterone receptor agonists (ARAs) (C)	14,900	3.1%	15,309	3.2%	-0.086	-0.005	
Non-ARA potassium sparing diuretics (C)	11,021	2.3%	8,917	1.9%	0.441	0.031	
Thiazide diuretics (C)	111,307	23.3%	112,467	23.6%	-0.243	-0.006	
Renin inhibitors (C)	1,930	0.4%	1,281	0.3%	0.136	0.023	
Central alpha-2 receptor agonists (C)	13,912	2.9%	15,088	3.2%	-0.247	-0.014	
All anti-hypertensive agents (C)	366,257	76.8%	365,431	76.6%	0.173	0.004	
Lipid lowering agents (C)	267,438	56.1%	270,368	56.7%	-0.614	-0.012	
Health Service Utilization Intensity:							
Non-acute institutional stay (IS visit) during	37,823	7.9%	38,739	8.1%	-0.192	-0.007	
prior year							
Any inpatient hospital encounter (IP visit) within prior 30 day	43,384	9.1%	44,390	9.3%	-0.211	-0.007	
Any inpatient hospital encounter (IP visit) 31- 365 days prior to index date	99,142	20.8%	99,215	20.8%	-0.015	0.000	
Any emergency room encounter (ED visit) within prior 30 days	34,629	7.3%	34,767	7.3%	-0.029	-0.001	
Any emergency room encounter (ED visit) 31- 365 days prior to index date	136,734	28.7%	135,913	28.5%	0.172	0.004	



		Medical		Covariate Balance		
I	Sita	gliptin	Long-Act	ing Insulins	I	
Characteristic	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters (AV)	18.5	15.4	18.5	16.2	-0.052	-0.003
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of emergency room encounters (ED)	0.6	1.6	0.6	1.6	-0.004	-0.003
Mean number of inpatient hospital encounters (IP)	0.4	1.0	0.4	1.0	-0.002	-0.003
Mean number of non-acute institutional encounters (IS)	0.1	0.6	0.1	0.7	-0.006	-0.009
Mean number of other ambulatory encounters (OA)	6.5	11.6	6.7	12.2	-0.236	-0.020
Mean number of unique drug classes	10.0	5.4	10.0	5.5	0.036	0.007
Mean number of generics	11.5	6.3	11.5	6.4	-0.041	-0.006
Mean number of filled prescriptions	50.5	38.0	50.1	39.2	0.406	0.011

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells ¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



		Medica	Covariate Balance			
	I Sita	gliptin		∎ ieneration ylureas	•	
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Patients	466,768	100.0%	1,392,538	100.0%	-	-
		Standard		Standard		
Demographics ¹	Mean	Deviation	Mean	Deviation		
Mean age (years)	64.9	11.9	64.7	12.2	0.151	0.013
Age (years)	Number	Percent	Number	Percent		
18-29	3,006	0.6%	9,948	0.7%	-0.070	-0.009
30-44	36,834	7.9%	112,357	8.1%	-0.177	-0.007
45-54	75,021	16.1%	223,020	16.0%	0.057	0.002
55-64	98,911	21.2%	296,758	21.3%	-0.120	-0.003
65-74	142,264	30.5%	425,226	30.5%	-0.058	-0.001
75-84	82,859	17.8%	243 <i>,</i> 884	17.5%	0.238	0.006
85+	27,873	6.0%	81,345	5.8%	0.130	0.006
Sex						
Female	248,073	53.1%	688,443	49.4%	3.709	0.074
Male	218,695	46.9%	704,095	50.6%	-3.709	-0.074
Race						
American Indian or Alaska Native	2,267	0.5%	9,092	0.7%	-0.167	-0.022
Asian	13,277	2.8%	51,304	3.7%	-0.840	-0.047
Black or African American	45,205	9.7%	152,840	11.0%	-1.291	-0.042
Native Hawaiian or Other Pacific Islander	469	0.1%	7,234	0.5%	-0.419	-0.075
Unknown	176,349	37.8%	438,315	31.5%	6.305	0.133
White	229,201	49.1%	733,753	52.7%	-3.588	-0.072
Year						
2006	91	0.0%	10,707	0.8%	-0.749	-0.120
2007	13,610	2.9%	59,739	4.3%	-1.374	-0.074
2008	14,105	3.0%	54,054	3.9%	-0.860	-0.047
2009	26,401	5.7%	, 96,878	7.0%	-1.301	-0.054
2010	23,267	5.0%	, 90,990	6.5%	-1.549	-0.067
2011	85,332	18.3%	246,037	17.7%	0.613	0.016
2012	84,424	18.1%	229,088	16.5%	1.636	0.043
2013	71,931	15.4%	212,947	15.3%	0.118	0.003
2014	82,411	17.7%	220,909	15.9%	1.792	0.048
2015	65,196	14.0%	171,189	12.3%	1.674	0.050
		Standard Deviation		Standard Deviation	-	
Recorded history of:	Mean		Mean		0.000	0.022
Prior combined comorbidity raw score	1.7 Number	2.7	1.6	2.7	0.090	0.033
Acute myocardial infarction prior to 60 days	7,246	Percent 1.6%	Number 20,586	Percent 1.5%	0.074	0.006
before index date (broad)	7,240	1.0%	20,300	1.370	0.074	0.000



	Medical Product				Covariate Balance		
	Sitagliptin		Second-Generation Sulfonylureas				
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Acute myocardial infarction prior to 60 days	2,786	0.6%	8,048	0.6%	0.019	0.002	
before index date (narrow)	2,700	0.070	0,010	010/0	0.015	0.002	
Acute myocardial infarction (broad)	8,852	1.9%	25,658	1.8%	0.054	0.004	
Hospitalized heart failure prior to 60 days	5,189	1.1%	14,824	1.1%	0.047	0.005	
before index date	0,200		,		01017	0.000	
Other ischemic heart disease	124,198	26.6%	338,496	24.3%	2.300	0.053	
Congestive heart failure	57,870	12.4%	164,106	11.8%	0.613	0.019	
Other heart disease	158,447	33.9%	424,700	30.5%	3.447	0.015	
Stroke (broad)	48,484	10.4%	125,129	9.0%	1.401	0.047	
Stroke (narrow)	4,414	0.9%	14,519	1.0%	-0.097	-0.010	
Peripheral arterial disease	41,669	8.9%	105,128	7.5%	1.378	0.050	
All coronary revascularization procedures	40,695	8.7%	116,753	8.4%	0.334	0.012	
Coronary artery bypass graft	20,645	4.4%	60,038	4.3%	0.112	0.0012	
Percutaneous coronary intervention	27,104	5.8%	76,395	5.5%	0.321	0.014	
All carotid revascularization procedures	1,019	0.2%	3,059	0.2%	-0.001	0.000	
Carotid endarterectomy, etc.	****	****	****	****	-0.001	0.000	
Carotid bypass	****	****	****	****	0.002	0.002	
All lower extremity revascularization	4,039	0.9%	11,815	0.8%	0.017	0.002	
Lower extremity endarterectomy, etc.	2,167	0.5%	5,888	0.4%	0.041	0.002	
Lower extremity bypass	664	0.1%	2,082	0.1%	-0.007	-0.002	
Lower extremity apputation	1,911	0.1%	5,803	0.4%	-0.007	-0.001	
All Prior Cardiovascular Disease Covariates	223,138	47.8%	611,814	43.9%	3.870	0.078	
Asthma	47,166	10.1%	128,620	9.2%	0.868	0.029	
Cancer (excluding non-melanoma skin cancer)	44,084	9.4%	129,968	9.3%	0.000	0.025	
Chronic kidney disease (excluding end stage	45,098	9.7%	144,162	10.4%	-0.691	-0.023	
Chronic obstructive pulmonary disease	43,030 64,111	13.7%	187,129	13.4%	0.297	0.009	
Dementia	25,314	5.4%	68,809	4.9%	0.482	0.022	
Depression	72,895	15.6%	201,557	14.5%	1.143	0.032	
End stage renal disease (ESRD)	8,286	1.8%	26,141	1.9%	-0.102	-0.008	
Fracture	23,658	5.1%	62,462	4.5%	0.583	0.027	
Human immunodeficiency virus (HIV) /	1,622	0.3%	4,784	4.3% 0.3%	0.004	0.001	
acquired immunodeficiency syndrome (AIDS)	1,022	0.370	7,704	0.570	0.004	0.001	
Hyperlipidemia or lipid disorder	352,865	75.6%	967,028	69.4%	6.154	0.138	
Hypertension	379,900	81.4%	1,088,640	78.2%	3.213	0.080	
Hypoglycemia	28,673	6.1%	82,633	5.9%	0.209	0.009	
Obesity (or weight gain)	102,971	22.1%	300,205	21.6%	0.502	0.012	
Osteoporosis	38,556	8.3%	83,653	6.0%	2.253	0.088	



	Medical Product				Covariate Balance		
	Sitagliptin		Second-Generation Sulfonylureas				
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Peripheral neuropathy	95,798	20.5%	254,041	18.2%	2.281	0.058	
Tobacco use	58,243	12.5%	191,268	13.7%	-1.257	-0.037	
All comorbidity covariates	441,762	94.6%	1,284,677	92.3%	2.388	0.097	
History of use:							
Alpha-glucosidase inhibitors (B)	1,968	0.4%	3,981	0.3%	0.136	0.023	
Biguanides (B)	301,090	64.5%	857,904	61.6%	2.898	0.060	
Other dipeptidyl peptidase-4 (DPP-4) inhibitors	5,301	1.1%	12,337	0.9%	0.250	0.025	
(B)							
Glucagon-like peptide-1 (GLP-1) analogues (B)	16,120	3.5%	35,093	2.5%	0.933	0.055	
Meglitinides (B)	12,360	2.6%	17,711	1.3%	1.376	0.099	
Saxagliptin (B)	15,395	3.3%	28,668	2.1%	1.240	0.077	
Sitagliptin (B)	-	0.0%	-	0.0%	0.000	-	
Pioglitazone (B)	69,383	14.9%	122,557	8.8%	6.064	0.189	
First-generation sulfonylureas (B)	253	0.1%	25,077	1.8%	-1.747	-0.183	
Second-generation sulfonylureas (B)	****	****	****	****	0.000	-	
Long-acting insulins (B)	93,894	20.1%	183,729	13.2%	6.922	0.187	
Short-acting insulins (B)	48,628	10.4%	85,454	6.1%	4.281	0.156	
Other thiazolidinediones (B)	13,631	2.9%	19,859	1.4%	1.494	0.103	
Sodium-glucose cotransporter-2 (SGLT-2) inhibitors (B)	3,166	0.7%	5 <i>,</i> 283	0.4%	0.299	0.041	
Amylin analog-types (B)	686	0.1%	608	0.0%	0.103	0.033	
All anti-diabetics (B)	375,169	80.4%	1,017,390	73.1%	7.316	0.174	
Angiotensin-converting enzyme inhibitors (B)	204,866	43.9%	637,646	45.8%	-1.900	-0.038	
Alpha blockers (B)	12,194	2.6%	46,899	3.4%	-0.755	-0.044	
Angiotensin receptor blockers (B)	128,531	27.5%	283,041	20.3%	7.211	0.170	
Beta blockers (B)	187,408	40.2%	537,572	38.6%	1.546	0.032	
Calcium channel blockers (B)	118,397	25.4%	342,499	24.6%	0.770	0.018	
Direct vasodilators (B)	10,922	2.3%	32,752	2.4%	-0.012	-0.001	
Loop diuretics (B)	89,292	19.1%	249,190	17.9%	1.235	0.032	
Aldosterone receptor agonists (ARAs) (B)	19,226	4.1%	51,261	3.7%	0.438	0.023	
Non-ARA potassium sparing diuretics (B)	14,614	3.1%	47,175	3.4%	-0.257	-0.014	
Thiazide diuretics (B)	151,389	32.4%	430,307	30.9%	1.533	0.033	
Renin inhibitors (B)	3,766	0.8%	5,438	0.4%	0.416	0.055	
Central alpha-2 receptor agonists (B)	18,848	4.0%	55,238	4.0%	0.410	0.004	
All anti-hypertensive agents (B)	383,964	4.0 <i>%</i> 82.3%	1,102,381	4.0 <i>%</i> 79.2%	3.097	0.004	
Lipid lowering agents (B)	383,904 322,646	69.1%	877,253	63.0%	6.127	0.130	
Alpha-glucosidase inhibitors (C)	1,213	0.3%	2,568	0.2%	0.127	0.130	
Biguanides (C)	290,474	62.2%	778,664	55.9%	6.314	0.129	



	Medical Product				Covariate Balance		
	Sitagliptin		Second-Generation Sulfonylureas				
					Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Other DPP-4 inhibitors (C)	2,045	0.4%	9,130	0.7%	-0.218	-0.029	
GLP-1 analogues (C)	5 <i>,</i> 580	1.2%	18,990	1.4%	-0.168	-0.015	
Meglitinides (C)	8,565	1.8%	9,217	0.7%	1.173	0.106	
Saxagliptin (C)	5,657	1.2%	18,708	1.3%	-0.131	-0.012	
Sitagliptin (C)	466,768	100.0%	-	0.0%	100.000	-	
Pioglitazone (C)	40,490	8.7%	80,073	5.8%	2.924	0.113	
First-generation sulfonylureas (C)	162	0.0%	15,668	1.1%	-1.090	-0.144	
Second-generation sulfonylureas (C)	-	0.0%	1,392,538	100.0%	-100.000	-	
Long-acting insulins (C)	66,500	14.2%	121,424	8.7%	5.527	0.174	
Short-acting insulins (C)	25,530	5.5%	42,929	3.1%	2.387	0.118	
Other thiazolidinediones (C)	4,865	1.0%	9,406	0.7%	0.367	0.040	
SGLT-2 inhibitors (C)	2,586	0.6%	3,514	0.3%	0.302	0.048	
Amylin analog-types (C)	172	0.0%	164	0.0%	0.025	0.016	
All anti-diabetics (C)	466,768	100.0%	1,392,538	100.0%	0.000	-	
Angiotensin-converting enzyme inhibitors (C)	163,662	35.1%	548,931	39.4%	-4.357	-0.090	
Alpha blockers (C)	8,678	1.9%	35,836	2.6%	-0.714	-0.049	
Angiotensin receptor blockers (C)	107,762	23.1%	233,954	16.8%	6.286	0.158	
Beta blockers (C)	154,631	33.1%	459,555	33.0%	0.127	0.003	
Calcium channel blockers (C)	94,903	20.3%	287,424	20.6%	-0.308	-0.008	
Direct vasodilators (C)	7,671	1.6%	24,201	1.7%	-0.094	-0.007	
Loop diuretics (C)	61,293	13.1%	179,817	12.9%	0.218	0.006	
Aldosterone receptor agonists (ARAs) (C)	13,355	2.9%	37,012	2.7%	0.203	0.012	
Non-ARA potassium sparing diuretics (C)	9,673	2.1%	32,854	2.4%	-0.287	-0.019	
Thiazide diuretics (C)	114,599	24.6%	338,839	24.3%	0.219	0.005	
Renin inhibitors (C)	2,266	0.5%	2,942	0.2%	0.274	0.047	
Central alpha-2 receptor agonists (C)	12,044	2.6%	38,298	2.8%	-0.170	-0.011	
All anti-hypertensive agents (C)	352,150	75.4%	1,047,399	75.2%	0.229	0.005	
Lipid lowering agents (C)	273,747	58.6%	766,320	55.0%	3.617	0.073	
Health Service Utilization Intensity:							
Non-acute institutional stay (IS visit) during	32,646	7.0%	98,024	7.0%	-0.045	-0.002	
prior year							
Any inpatient hospital encounter (IP visit)	33,646	7.2%	129,267	9.3%	-2.075	-0.075	
within prior 30 day			•				
Any inpatient hospital encounter (IP visit) 31-	88,668	19.0%	252,384	18.1%	0.872	0.022	
365 days prior to index date			-				
Any emergency room encounter (ED visit)	26,986	5.8%	112,508	8.1%	-2.298	-0.091	
within prior 30 days							


		Medical	Product		Covariate Balance		
	Sita	gliptin		eneration ylureas			
Health Service Utilization Intensity:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Any emergency room encounter (ED visit) 31- 365 days prior to index date	124,402	26.7%	370,939	26.6%	0.014	0.000	
		Standard		Standard			
	Mean	Deviation	Mean	Deviation			
Mean number of ambulatory encounters (AV)	18.6	16.0	16.1	14.9	2.499	0.162	
Mean number of emergency room encounters (ED)	0.6	1.6	0.6	1.6	-0.029	-0.018	
Mean number of inpatient hospital encounters (IP)	0.4	1.0	0.4	1.0	-0.002	-0.002	
Mean number of non-acute institutional encounters (IS)	0.1	0.6	0.1	0.8	-0.006	-0.009	
Mean number of other ambulatory encounters (OA)	6.7	13.3	6.5	11.9	0.164	0.013	
Mean number of unique drug classes	10.2	5.8	9.1	5.5	1.170	0.208	
Mean number of generics	11.4	6.8	10.0	6.4	1.428	0.216	
Mean number of filled prescriptions	49.8	41.0	40.3	35.4	9.496	0.248	

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

¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



		Medical	Covariate Balance			
	Sita	gliptin		Generation Nylureas	ſ	
				-	Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Patients	460,792	98.9%	460,792	34.4%	-	-
		Standard		Standard		
Demographics ¹	Mean	Deviation	Mean	Deviation		
Mean age (years)	64.9	11.9	64.9	11.8	-0.020	-0.002
Age (years)	Number	Percent	Number	Percent		
18-29	2,967	0.6%	3,039	0.7%	-0.016	-0.002
30-44	36,338	7.9%	35,726	7.8%	0.133	0.005
45-54	73,837	16.0%	72,625	15.8%	0.263	0.007
55-64	97,207	21.1%	96,716	21.0%	0.107	0.003
65-74	140,707	30.5%	144,058	31.3%	-0.727	-0.016
75-84	82,058	17.8%	82,258	17.9%	-0.043	-0.001
85+	27,678	6.0%	26,370	5.7%	0.284	0.012
Sex						
Female	244,395	53.0%	245,451	53.3%	-0.229	-0.005
Male	216,397	47.0%	215,341	46.7%	0.229	0.005
Race						
American Indian or Alaska Native	2,244	0.5%	2,219	0.5%	0.005	0.001
Asian	12,693	2.8%	12,393	2.7%	0.065	0.004
Black or African American	44,879	9.7%	44,553	9.7%	0.071	0.002
Native Hawaiian or Other Pacific Islander	417	0.1%	411	0.1%	0.001	0.000
Unknown	173,150	37.6%	172,944	37.5%	0.045	0.001
White	227,409	49.4%	228,272	49.5%	-0.187	-0.004
Year						
2006	88	0.0%	90	0.0%	0.000	0.000
2007	13,052	2.8%	12,833	2.8%	0.048	0.003
2008	13,467	2.9%	13,393	2.9%	0.016	0.001
2009	26,024	5.6%	25,893	5.6%	0.028	0.001
2010	22,962	5.0%	23,034	5.0%	-0.016	-0.001
2011	84,330	18.3%	83,702	18.2%	0.136	0.004
2012	83,424	18.1%	, 83,031	18.0%	0.085	0.002
2013	, 71,366	15.5%	, 71,448	15.5%	-0.018	0.000
2014	81,612	17.7%	82,276	17.9%	-0.144	-0.004
2015	64,467	14.0%	65,092	14.1%	-0.136	-0.004
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity raw score	1.7	2.7	1.7	2.7	-0.010	-0.004
the complete completing ruw score	Number	Percent	Number	Percent	0.010	0.004
Acute myocardial infarction prior to 60 days before index date (broad)	7,148	1.6%	7,393	1.6%	-0.053	-0.004



Second-Generation SulforyUureas Characteristic Number Percent Number Percent Difference Difference Acute myocardial infarction prior to 60 days 2,755 0.6% 2,752 0.6% 0.0001 0.0000 Acute myocardial infarction (broad) 8,738 1.9% 8,794 1.9% -0.012 -0.001 Acute myocardial infarction (broad) 5,141 1.1% 5,153 1.1% -0.002 -0.001 Congestive heart failure 57,104 12.4% -0.002 -0.001 Other ischemic heart disease 126,172 33.9% 156,645 34.0% -0.103 -0.002 Stroke (narrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Stroke (narrow) 4,365 8.9% 40,628 8.8% 0.001 0.000 Connary revascularization procedures 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid pass ***** ***** ***** ***** ***** 0			Medica	l Product		Covariate Balance		
Characteristic Number Percent Number Percent Absolute Standardized Difference Differenc Difference <thdifference< th=""></thdifference<>		Sitaa	lintin			ſ		
Acute myocardial infarction prior to 60 days 2,755 0.6% 2,752 0.6% 0.001 0.000 before index date (narrow) Acute myocardial infarction (broad) 8,738 1.9% 8,794 1.9% -0.012 -0.001 Hospitalized heart failure prior to 60 days 5,141 1.1% 5,153 1.1% -0.003 0.000 before index date 0ther ischemic heart disease 122,395 26.6% 122,818 26.7% -0.092 -0.002 Congestive heart failure 57,104 12.4% 57,194 12.4% -0.020 -0.001 Other ischemic heart disease 156,617 33.9% 156,645 34.0% -0.103 -0.002 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.003 All coronary convariation procedures 40,955 8.9% 40,628 8.8% -0.011 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.001 0.000 Carotid endatrerectomy, etc. 1.066		_			-			
before index date (narrow) Acute myocardial infarction (broad) 8,738 1.9% 8,794 1.9% -0.012 -0.001 Hospitalized heart failure prior to 60 days 5,141 1.1% 5,153 1.1% -0.002 -0.002 Congestive heart failure 57,104 12.4% 57,194 12.4% -0.002 -0.001 Other ischemic heart disease 156,172 33.9% 156,645 34.0% -0.008 -0.002 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.003 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% 0.071 0.002 All coronary revascularization procedures 40,175 8.7% 40,362 8.8% 0.021 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.007 0.000 Carotid endarterectomy, etc. ***** ***** ***** ***** 0.002 0.001 Lower extremity endarterectomy, etc. 2,135								
Hospitalized heart failure prior to 60 days 5,141 1.1% 5,153 1.1% -0.003 0.000 before index date 0ther ischemic heart disease 122,395 26.6% 122,818 26.7% -0.002 Congestive heart failure 57,104 12.4% 57,194 12.4% 0.000 -0.001 Other heart disease 156,172 33.9% 156,645 34.0% -0.003 0.000 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.001 Stroke (narrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% -0.041 -0.001 Coronary revascularization procedures 40,0175 8.7% 40,362 8.8% -0.041 -0.001 Carotid endarterectomy, etc. 20,404 4.4% 20,438 4.4% -0.002 0.000 Carotid bypass 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass 600 0.5% 2,152 0.5% -0.002		2,/55	0.6%	2,/52	0.6%	0.001	0.000	
before index date Other ischemic heart disease 122,395 26.6% 122,818 26.7% -0.092 -0.002 Congestive heart failure 57,104 12.4% 57,194 12.4% -0.003 -0.001 Other heart disease 156,172 33.9% 156,645 34.0% -0.003 -0.002 Stroke (norad) 47,731 10.4% 48,138 10.4% -0.088 -0.003 Stroke (narrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% 0.071 0.002 All coronary retravscularization procedures 40,06 8.2% 40,362 0.001 0.000 Carotid endarterectomy, etc. 2.75 5.8% 26,612 5.8% 0.025 0.001 Carotid bypass 1.006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass 1.006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass 660 0.1% 657 0.1% 0.001 0.00	Acute myocardial infarction (broad)	8,738	1.9%	8,794	1.9%	-0.012	-0.001	
Congestive heart failure 57,104 12.4% 57,194 12.4% -0.020 -0.001 Other heart disease 156,172 33.9% 156,645 34.0% -0.038 -0.002 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.001 Peripheral arterial disease 40,955 8.9% 40,628 8.8% -0.011 -0.002 All coronary revascularization procedures 40,175 8.7% 40,362 8.8% -0.001 -0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 All carotid revascularization procedures 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass ***** ***** ***** ***** 0.000 0.002 All lower extremity revascularization 3,987 0.9% 4,085 0.9% -0.021 -0.002 Lower extremity andarterectomy, etc. 2,135 0.5% 2,152 0.5% -0.004 -0.001 Lower extremity andarterectomy, etc. 2,135 0.5% 1,909 <td></td> <td>5,141</td> <td>1.1%</td> <td>5,153</td> <td>1.1%</td> <td>-0.003</td> <td>0.000</td>		5,141	1.1%	5,153	1.1%	-0.003	0.000	
Other heart disease 156,172 33.9% 156,645 34.0% -0.103 -0.002 Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.003 Stroke (parrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% -0.041 -0.001 All coronary revascularization procedures 20,404 4.4% 20,438 4.4% -0.007 0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 All carotid revascularization procedures 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass ***** ***** ***** 0.000 0.002 Lower extremity revascularization 3,987 0.9% 4,085 0.9% -0.021 -0.002 Lower extremity endarterectomy, etc. 2,135 0.5% 2,152 0.5% -0.004 -0.001 Lower extrem	Other ischemic heart disease	122,395	26.6%	122,818	26.7%	-0.092	-0.002	
Stroke (broad) 47,731 10.4% 48,138 10.4% -0.088 -0.003 Stroke (narrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% 0.011 0.002 All coronary revascularization procedures 40,75 8.7% 40,362 8.8% -0.011 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.007 0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 All carotid revascularization procedures 1,006 0.2% 1,011 0.2% -0.002 0.000 Carotid bypass ***** ***** ***** ***** 0.000 0.002 Lower extremity revascularization 3,987 0.9% 4,085 0.9% -0.021 -0.002 Lower extremity pagas 660 0.1% 657 0.1% 0.001 -0.002 Lower extremity aputation 1,892 0.4% 659 0.1% -0.001	Congestive heart failure	57,104	12.4%	57,194	12.4%	-0.020	-0.001	
Stroke (narrow) 4,366 0.9% 4,370 0.9% -0.001 0.000 Peripheral arterial disease 40,955 8.9% 40,628 8.8% 0.071 0.002 All coronary revascularization procedures 40,175 8.7% 40,362 8.8% -0.041 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.007 0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 Carotid endarterectomy, etc. ***** ***** ***** -0.002 0.000 Carotid bypass ***** ***** ***** ***** 0.000 0.002 Lower extremity revascularization 3,987 0.9% 4,085 0.9% -0.021 -0.002 Lower extremity andarterectomy, etc. 2,135 0.5% 2,152 0.5% -0.004 -0.001 Lower extremity anputation 1,892 0.4% 1,909 0.4% -0.004 -0.001 Lower extremity anputation 1,892 0.4% 1,909 0.4% -0.004	Other heart disease	156,172	33.9%	156,645	34.0%	-0.103	-0.002	
Peripheral arterial disease 40,955 8.9% 40,628 8.8% 0.071 0.002 All coronary revascularization procedures 40,175 8.7% 40,362 8.8% -0.041 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.007 0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 All corotid revascularization procedures 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid bypass ***** ***** ***** -***** -***** -0.002 0.000 Lower extremity revascularization 3,987 0.9% 4.025 0.5% -0.04 -0.001 Lower extremity andutation 1,892 0.4% 1,909 0.4% -0.004 -0.001 Lower extremity amputation 1,892 0.4% 1,909 0.4% -0.004 -0.001 All Prior Cardiovascular Disease Covariates 220,014 47.7% 220,375 47.8%	Stroke (broad)	47,731	10.4%	48,138	10.4%	-0.088	-0.003	
All coronary revascularization procedures 40,175 8.7% 40,362 8.8% -0.041 -0.001 Coronary artery bypass graft 20,404 4.4% 20,438 4.4% -0.007 0.000 Percutaneous coronary intervention 26,725 5.8% 26,612 5.8% 0.025 0.001 All carotid revascularization procedures 1,006 0.2% 1,011 0.2% -0.001 0.000 Carotid endarterectomy, etc. ***** ***** ***** ***** 0.000 0.002 Clower extremity revascularization 3,987 0.9% 4,085 0.9% -0.001 -0.002 Lower extremity nedarterectomy, etc. 2,135 0.5% 2,152 0.5% -0.004 -0.001 Lower extremity aputation 1,892 0.4% 1,909 0.4% -0.004 -0.001 Lower extremity apputation 1,892 0.4% 1,909 0.4% -0.004 -0.001 Lower extremity aputation 1,892 0.4% 1,909 0.4% -0.004 -0.001 Lower extremity apputation 1,892 0.4% 1,0	Stroke (narrow)	4,366	0.9%	4,370	0.9%	-0.001	0.000	
Coronary artery bypass graft20,4044.4%20,4384.4%-0.0070.000Percutaneous coronary intervention26,7255.8%26,6125.8%0.0250.001All carotid revascularization procedures1,0060.2%1,0110.2%-0.0010.000Carotid endarterectomy, etc.************************0.0000.002Carotid bypass************************0.0000.002All lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity anputation1,8920.4%1,9090.4%-0.004-0.001Lower extremity apuptation1,8920.4%1,9090.4%-0.0070.000Lower extremity apuptation1,8920.4%1,9090.4%-0.0070.000Lower extremity apuptation1,8920.4%1,9090.4%-0.001-0.001Lower extremity apuptation1,8920.4%1,9090.4%-0.001-0.002Lower extremity apuptation1,8920.4%1,9090.4%-0.001-0.001Lower extremity apuptation1,8921.0%46,29610.0%-0.0070.000Carcer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage<	Peripheral arterial disease	40,955	8.9%	40,628	8.8%	0.071	0.002	
Percutaneous coronary intervention26,7255.8%26,6125.8%0.0250.001All carotid revascularization procedures1,0060.2%1,0110.2%-0.0010.000Carotid endarterectomy, etc.********************0.0000.002Carotid bypass*************************0.0000.002All lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity anputation1,8920.4%1,9090.4%-0.004-0.001Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.001Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%-0.024-0.001Dementia25,0215.4%25,1335.5%-0.024-0.001Dementia23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001reacture23,269	All coronary revascularization procedures	40,175	8.7%	40,362	8.8%	-0.041	-0.001	
All carotid revascularization procedures1,060.2%1,0110.2%-0.0010.000Carotid endarterectomy, etc.********************0.0000.002All lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity andurterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.001Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic bstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Indigeneral disease (ESRD)8,2061.8%8,2371.8%-0.005-0.002Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.035-0.001 <tr <tr=""><tr <td="">Hyperlipidemia or lipid disorder</tr></tr>	Coronary artery bypass graft	20,404	4.4%	20,438	4.4%	-0.007	0.000	
Carotid endarterectomy, etc.********************0.0020.000Carotid bypass********************0.0000.002All lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.001Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%-0.024-0.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)1-0.034-0.032-0.007-0.001Hyperlipidemia or lipid disorder347,742	Percutaneous coronary intervention	26,725	5.8%	26,612	5.8%	0.025	0.001	
Carotid Endatretection, etc.******************0.0000.002Carotid bypass************************0.0000.002All lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.000-0.001Chronic kidney disease (excluding end stage44,5499.7%44,9129.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.036-0.002Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder374,80781.3%375,41481.5%-0.132-0.003Hyperlension374,80781.3%375,41481.5%-0.1	All carotid revascularization procedures	1,006	0.2%	1,011	0.2%	-0.001	0.000	
Caloria bypass3,9870.9%4,0850.9%-0.021-0.002Lower extremity revascularization3,9870.9%4,0850.9%-0.021-0.002Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.000Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.002End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.005-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder347,74275.5%349	Carotid endarterectomy, etc.	****	****	****	****	-0.002	0.000	
Lower extremity endarterectomy, etc.2,1350.5%2,1520.5%-0.004-0.001Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.000Carcer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)U1,6020.3%1,6250.4%-0.025-0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hyperlension374,80781.3%375,41481.5%-0.132-0.003Hypeglycemia28,0126.1%27,8336.0%0.0390.002	Carotid bypass	****	****	****	****	0.000	0.002	
Lower extremity bypass6600.1%6570.1%0.0010.000Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.000Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.004Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.005-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)Hyperlipidemia or lipid disorder374,80781.3%375,41481.5%-0.132-0.003Hypeglycemia28,0126.1%27,8336.0%0.3990.002-	All lower extremity revascularization	3,987	0.9%	4,085	0.9%	-0.021	-0.002	
Lower extremity amputation1,8920.4%1,9090.4%-0.004-0.001All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.0000.000Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.002End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.005-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hyperlension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Lower extremity endarterectomy, etc.	2,135	0.5%	2,152	0.5%	-0.004	-0.001	
All Prior Cardiovascular Disease Covariates220,01447.7%220,37547.8%-0.078-0.002Asthma46,26510.0%46,29610.0%-0.0070.000Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.004Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)347,74275.5%349,09175.8%-0.293-0.007Hyperlipidemia or lipid disorder347,80781.3%375,41481.5%-0.132-0.003Hyperglipidemia28,0126.1%27,8336.0%0.0390.002	Lower extremity bypass	660	0.1%	657	0.1%	0.001	0.000	
Asthma46,26510.0%46,29610.0%-0.0070.000Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.004Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.293-0.007Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.003Hypeglycemia28,0126.1%27,8336.0%0.0390.002	Lower extremity amputation	1,892	0.4%	1,909	0.4%	-0.004	-0.001	
Cancer (excluding non-melanoma skin cancer)43,5999.5%44,1159.6%-0.112-0.004Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007-0.003Hyperlemia28,0126.1%27,8336.0%0.0390.002-0.003	All Prior Cardiovascular Disease Covariates	220,014	47.7%	220,375	47.8%	-0.078	-0.002	
Chronic kidney disease (excluding end stage44,5499.7%44,9229.7%-0.081-0.003Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)115.5%349,09175.8%-0.293-0.007Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.003Hypeglycemia28,0126.1%27,8336.0%0.0390.002	Asthma	46,265	10.0%	46,296	10.0%	-0.007	0.000	
Chronic obstructive pulmonary disease63,36913.8%63,23513.7%0.0290.001Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.0070.0030.0030.0030.003 </td <td>Cancer (excluding non-melanoma skin cancer)</td> <td>43,599</td> <td>9.5%</td> <td>44,115</td> <td>9.6%</td> <td>-0.112</td> <td>-0.004</td>	Cancer (excluding non-melanoma skin cancer)	43,599	9.5%	44,115	9.6%	-0.112	-0.004	
Dementia25,0215.4%25,1335.5%-0.024-0.001Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Chronic kidney disease (excluding end stage	44,549	9.7%	44,922	9.7%	-0.081	-0.003	
Depression71,81015.6%72,43815.7%-0.136-0.004End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)0.0010.0010.0020.001 <td>Chronic obstructive pulmonary disease</td> <td>63,369</td> <td>13.8%</td> <td>63,235</td> <td>13.7%</td> <td>0.029</td> <td>0.001</td>	Chronic obstructive pulmonary disease	63,369	13.8%	63,235	13.7%	0.029	0.001	
End stage renal disease (ESRD)8,2061.8%8,2371.8%-0.007-0.001Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) /1,6020.3%1,6250.4%-0.005-0.001acquired immunodeficiency syndrome (AIDS)0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Dementia	25,021	5.4%	25,133	5.5%	-0.024	-0.001	
Fracture23,2695.0%23,4355.1%-0.036-0.002Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Depression	71,810	15.6%	72,438	15.7%	-0.136	-0.004	
Human immunodeficiency virus (HIV) / acquired immunodeficiency syndrome (AIDS)1,6020.3%1,6250.4%-0.005-0.001Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	End stage renal disease (ESRD)	8,206	1.8%	8,237	1.8%	-0.007	-0.001	
acquired immunodeficiency syndrome (AIDS)Hyperlipidemia or lipid disorder347,74275.5%349,09175.8%-0.293-0.007Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Fracture	23,269	5.0%	23,435	5.1%	-0.036	-0.002	
Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002		1,602	0.3%	1,625	0.4%	-0.005	-0.001	
Hypertension374,80781.3%375,41481.5%-0.132-0.003Hypoglycemia28,0126.1%27,8336.0%0.0390.002	Hyperlipidemia or lipid disorder	347,742	75.5%	349,091	75.8%	-0.293	-0.007	
Hypoglycemia 28,012 6.1% 27,833 6.0% 0.039 0.002								
Obesity (or weight gain) 101,166 22.0% 101,572 22.0% -0.088 -0.002		28,012	6.1%	-				
	Obesity (or weight gain)	101,166	22.0%	101,572	22.0%	-0.088	-0.002	



Osteoporosis 37,535 8 Peripheral neuropathy 93,884 20 Tobacco use 57,729 12 All comorbidity covariates 435,990 94 History of use: - 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) - 0 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) - 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 46,582 10 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 inhibitors (B) 369,447 80 Angiotensin-converting enzyme inhibitors (B) 202,474	n rcent .1% 0.4% 2.5% 4.6% .4% .4% .4% .4% .6% .2% .0% 1.5% .0% .0% .0% .0%	Second-Ge Sulfony Number 37,598 93,664 57,956 434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 - 90,405	Alureas	Absolute Difference -0.014 0.048 -0.049 0.247 -0.013 -0.435 -0.334 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	Standardized Difference 0.000 0.001 -0.001 0.011 -0.002 -0.0030 -0.002 -0.002 -0.002 -0.002 -0.0037 -0.006 - -0.002 -0.0037
Osteoporosis 37,535 8 Peripheral neuropathy 93,884 20 Tobacco use 57,729 12 All comorbidity covariates 435,990 94 History of use: - 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) - 0 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) - 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 15 Short-acting insulins (B) 12,636 2 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 Inhibitors (B) 369,447 80	.1% 0.4% 2.5% 4.6% 4.4% 1.4% .1% .4% .6% .2% .0% 1.5% .0% .0% .0% .0% .0%	37,598 93,664 57,956 434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	8.2% 20.3% 12.6% 94.4% 0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	Difference -0.014 0.048 -0.049 0.247 -0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	Difference 0.000 0.001 -0.001 0.011 -0.002 -0.009 -0.030 -0.037 -0.002 0.037 -0.002 0.037 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.003 -0.002 -0.003 -0.005
Osteoporosis 37,535 8 Peripheral neuropathy 93,884 20 Tobacco use 57,729 12 All comorbidity covariates 435,990 94 History of use: - 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) - 0 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) - 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 15 Short-acting insulins (B) 12,636 2 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 Inhibitors (B) 369,447 80	.1% 0.4% 2.5% 4.6% 4.4% 1.4% .1% .4% .6% .2% .0% 1.5% .0% .0% .0% .0% .0%	37,598 93,664 57,956 434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	8.2% 20.3% 12.6% 94.4% 0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.014 0.048 -0.049 0.247 -0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	0.000 0.001 -0.001 0.011 -0.002 -0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.002 -0.030 -
Peripheral neuropathy 93,884 20 Tobacco use 57,729 12 All comorbidity covariates 435,990 94 History of use: - 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) - 0 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) - 0 Socond-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 12 Short-acting insulins (B) 46,582 10 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 inhibitors (B) 369,447 80 Angiotensin-converting enzyme inhibitors (B) 202,474 43 Alpha blockers (B) 12,056	0.4% 2.5% 4.6% 4.4% 1.4% 1.1% 4.4% 6.6% 2.2% 0.0% 1.5% 0.0% 0.0% 0.7%	93,664 57,956 434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	20.3% 12.6% 94.4% 0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	0.048 -0.049 0.247 -0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	0.001 -0.001 0.011 -0.002 -0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.002 -0.030 -
Tobacco use 57,729 12 All comorbidity covariates 435,990 94 History of use: - 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) - 0 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 14,930 3 Saxagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) - 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 15 Short-acting insulins (B) 46,582 10 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 inhibitors (B) 617 0 All anti-diabetics (B) 369,447 86 Angiotensin-converting enzyme inhibitors (B) 202,474 43 Allpha blockers (B) 12,056	2.5% 4.6% 4.4% 1.1% .4% .6% .2% .0% 1.5% .0% .0% .0% .0% .0%	57,956 434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	12.6% 94.4% 0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.049 0.247 -0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.001 0.011 -0.002 -0.030 -0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
All comorbidity covariates 435,990 94 History of use: 1 1,857 0 Alpha-glucosidase inhibitors (B) 1,857 0 Biguanides (B) 296,837 64 Other dipeptidyl peptidase-4 (DPP-4) inhibitors 5,137 1 (B) 5,137 1 Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 11,899 2 Saxagliptin (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) 200 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 15 Short-acting insulins (B) 46,582 10 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 inhibitors (B) 369,447 43 All anti-diabetics (B) 369,447 43 Alpha blockers (B) 12,056 2	1.6% .4% .1% .4% .6% .2% .0% 1.5% .0% .0% .0% .0%	434,851 1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	94.4% 0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	0.247 -0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	0.011 -0.002 -0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
History of use:Alpha-glucosidase inhibitors (B)1,8570Biguanides (B)296,83764Other dipeptidyl peptidase-4 (DPP-4) inhibitors5,1371(B)11,8992Glucagon-like peptide-1 (GLP-1) analogues (B)15,4453Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)-0Second-generation sulfonylureas (B)-0Cher thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Alpha blockers (B)12,0562	.4% 1.4% .1% .6% .2% .0% 1.5% .0% .0% .0%	1,918 298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	0.4% 64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.013 -0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.002 -0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
Alpha-glucosidase inhibitors (B)1,8570Biguanides (B)296,83764Other dipeptidyl peptidase-4 (DPP-4) inhibitors5,1371(B)Glucagon-like peptide-1 (GLP-1) analogues (B)15,4453Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74519Short-acting insulins (B)12,6362Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	1.4% .1% .6% .2% .0% 1.5% .0% .0% .0%	298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
Biguanides (B)296,83764Other dipeptidyl peptidase-4 (DPP-4) inhibitors5,1371(B)Glucagon-like peptide-1 (GLP-1) analogues (B)15,4453Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74515Short-acting insulins (B)12,6362Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)369,44780Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	1.4% .1% .6% .2% .0% 1.5% .0% .0% .0%	298,842 6,676 15,643 9,336 15,420 - 66,418 605 -	64.9% 1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.435 -0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.009 -0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
Other dipeptidyl peptidase-4 (DPP-4) inhibitors5,1371(B)Glucagon-like peptide-1 (GLP-1) analogues (B)15,4453Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74515Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44743Alpha blockers (B)12,0562	.1% .4% .6% .2% .0% I.5% .0% .0% .0%	6,676 15,643 9,336 15,420 - 66,418 605 -	1.4% 3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.334 -0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.030 -0.002 0.037 -0.006 - 0.002 -0.030 -
(B) Glucagon-like peptide-1 (GLP-1) analogues (B) 15,445 3 Meglitinides (B) 11,899 2 Saxagliptin (B) 14,930 3 Sitagliptin (B) - 0 Pioglitazone (B) 66,716 14 First-generation sulfonylureas (B) 200 0 Second-generation sulfonylureas (B) - 0 Long-acting insulins (B) 90,745 19 Short-acting insulins (B) 46,582 10 Other thiazolidinediones (B) 12,636 2 Sodium-glucose cotransporter-2 (SGLT-2) 3,019 0 inhibitors (B) 617 0 Amylin analog-types (B) 617 0 All anti-diabetics (B) 369,447 80 Angiotensin-converting enzyme inhibitors (B) 202,474 43 Alpha blockers (B) 12,056 2	.4% .6% .2% .0% 5% .0% .0% .0%	15,643 9,336 15,420 - 66,418 605 -	3.4% 2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	-0.043 0.556 -0.106 0.000 0.065 -0.088 0.000	-0.002 0.037 -0.006 - 0.002 -0.030 -
Glucagon-like peptide-1 (GLP-1) analogues (B)15,4453Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74515Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44744Alpha blockers (B)12,0562	.6% .2% .0% I.5% .0% .0% 9.7%	9,336 15,420 - 66,418 605 -	2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	0.556 -0.106 0.000 0.065 -0.088 0.000	0.037 -0.006 - 0.002 -0.030 -
Meglitinides (B)11,8992Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74515Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.6% .2% .0% I.5% .0% .0% 9.7%	9,336 15,420 - 66,418 605 -	2.0% 3.3% 0.0% 14.4% 0.1% 0.0%	0.556 -0.106 0.000 0.065 -0.088 0.000	0.037 -0.006 - 0.002 -0.030 -
Saxagliptin (B)14,9303Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74515Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.2% .0% .5% .0% .0% 0.7%	15,420 - 66,418 605 -	3.3% 0.0% 14.4% 0.1% 0.0%	-0.106 0.000 0.065 -0.088 0.000	-0.006 - 0.002 -0.030 -
Sitagliptin (B)-0Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74512Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.0% I.5% .0% .0% 9.7%	- 66,418 605 -	0.0% 14.4% 0.1% 0.0%	0.000 0.065 -0.088 0.000	- 0.002 -0.030 -
Pioglitazone (B)66,71614First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74519Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	1.5% .0% .0% 9.7%	605 -	14.4% 0.1% 0.0%	0.065 -0.088 0.000	0.002 -0.030 -
First-generation sulfonylureas (B)2000Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74519Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.0% .0% 9.7%	605 -	0.1% 0.0%	-0.088 0.000	-0.030 -
Second-generation sulfonylureas (B)-0Long-acting insulins (B)90,74519Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.0% 9.7%	-	0.0%	0.000	-
Long-acting insulins (B)90,74519Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	9.7%	- 90,405			-
Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562		90,405	10 60/		
Short-acting insulins (B)46,58210Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562			19.6%	0.074	0.002
Other thiazolidinediones (B)12,6362Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562).1%	46,018	10.0%	0.122	0.004
Sodium-glucose cotransporter-2 (SGLT-2)3,0190inhibitors (B)6170Amylin analog-types (B)6170All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.7%	12,523	2.7%	0.025	0.002
inhibitors (B) Amylin analog-types (B) 617 0 All anti-diabetics (B) 369,447 80 Angiotensin-converting enzyme inhibitors (B) 202,474 43 Alpha blockers (B) 12,056 2	.7%	3,021	0.7%	0.000	0.000
All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562					
All anti-diabetics (B)369,44780Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562	.1%	408	0.1%	0.045	0.014
Angiotensin-converting enzyme inhibitors (B)202,47443Alpha blockers (B)12,0562		368,242	79.9%	0.262	0.007
Alpha blockers (B) 12,056 2		203,733	44.2%	-0.273	-0.006
		12,931	2.8%	-0.190	-0.012
		125,716	27.3%	-0.069	-0.002
		186,091	40.4%	-0.245	-0.005
		117,679	25.5%	-0.151	-0.003
		11,543	2.5%	-0.163	-0.011
		89,170	19.4%	-0.228	-0.006
	.1%	18,263	4.0%	0.152	0.008
		14,236	3.1%	0.045	0.003
		149,213	32.4%	-0.031	-0.001
		2,316	0.5%	0.301	0.037
	8%		4.2%	-0.155	-0.008
All anti-hypertensive agents (B) 378,611 82	.8% .0%	19,329			0.000



		Medica		Covariate Balance			
	Sitag	liptin		eneration ylureas	ſ		
				1.0.000	Absolute	Standardized	
Characteristic	Number	Percent	Number	Percent	Difference	Difference	
Lipid lowering agents (B)	317,410	68.9%	319,304	69.3%	-0.411	-0.009	
Alpha-glucosidase inhibitors (C)	1,146	0.2%	1,182	0.3%	-0.008	-0.002	
Biguanides (C)	285,930	62.1%	286,738	62.2%	-0.175	-0.004	
Other DPP-4 inhibitors (C)	1,982	0.4%	4,954	1.1%	-0.645	-0.075	
GLP-1 analogues (C)	5,543	1.2%	5,738	1.2%	-0.042	-0.004	
Meglitinides (C)	8,244	1.8%	4,887	1.1%	0.729	0.062	
Saxagliptin (C)	5,459	1.2%	10,124	2.2%	-1.012	-0.079	
Sitagliptin (C)	460,792	100.0%	-	0.0%	100.000	-	
Pioglitazone (C)	39,153	8.5%	39,217	8.5%	-0.014	0.000	
First-generation sulfonylureas (C)	119	0.0%	316	0.1%	-0.043	-0.020	
Second-generation sulfonylureas (C)	-	0.0%	460,792	100.0%	-100.000	-	
Long-acting insulins (C)	63,845	13.9%	62,891	13.6%	0.207	0.006	
Short-acting insulins (C)	24,159	5.2%	23,351	5.1%	0.175	0.008	
Other thiazolidinediones (C)	4,711	1.0%	4,693	1.0%	0.004	0.000	
SGLT-2 inhibitors (C)	2,405	0.5%	2,291	0.5%	0.025	0.003	
Amylin analog-types (C)	155	0.0%	124	0.0%	0.007	0.004	
All anti-diabetics (C)	460,792	100.0%	460,792	100.0%	0.000	-	
Angiotensin-converting enzyme inhibitors (C)	162,167	35.2%	162,156	35.2%	0.002	0.000	
Alpha blockers (C)	8,587	1.9%	9,655	2.1%	-0.232	-0.017	
Angiotensin receptor blockers (C)	104,990	22.8%	105,014	22.8%	-0.005	0.000	
Beta blockers (C)	152,770	33.2%	153,295	33.3%	-0.114	-0.002	
Calcium channel blockers (C)	93,914	20.4%	94,194	20.4%	-0.061	-0.002	
Direct vasodilators (C)	7,588	1.6%	8,001	1.7%	-0.090	-0.007	
Loop diuretics (C)	60,542	13.1%	62,617	13.6%	-0.450	-0.013	
Aldosterone receptor agonists (ARAs) (C)	13,193	2.9%	12,772	2.8%	0.091	0.006	
Non-ARA potassium sparing diuretics (C)	9,584	2.1%	9,461	2.1%	0.027	0.002	
Thiazide diuretics (C)	112,978	24.5%	112,562	24.4%	0.090	0.002	
Renin inhibitors (C)	2,233	0.5%	1,219	0.3%	0.220	0.036	
Central alpha-2 receptor agonists (C)	11,900	2.6%	12,698	2.8%	-0.173	-0.011	
All anti-hypertensive agents (C)	347,376	75.4%	349,857	75.9%	-0.538	-0.013	
Lipid lowering agents (C)	269,391	58.5%	270,245	58.6%	-0.185	-0.004	
Health Service Utilization Intensity:	205,551	50.570	270,245	50.070	0.105	0.004	
Non-acute institutional stay (IS visit) during	32,309	7.0%	32,854	7.1%	-0.118	-0.005	
prior year	52,505	7.070	52,054	7.170	0.110	0.005	
Any inpatient hospital encounter (IP visit)	33,440	7.3%	33,511	7.3%	-0.015	-0.001	
within prior 30 day	55,440	1.570	JJ,JII	1.3/0	-0.013	-0.001	
Any inpatient hospital encounter (IP visit) 31-	87,528	19.0%	88,006	19.1%	-0.104	-0.003	
365 days prior to index date	07,520	13.0%	00,000	13.1/0	-0.104	-0.005	
	76 010	E 00/	<u>זר זי</u> ב	5.8%	0 076	0.001	
Any emergency room encounter (ED visit)	26,843	5.8%	26,725	5.6%	0.026	0.001	
within prior 30 days							



		Medical	Product		Covariate Balance		
	Sita	gliptin		Generation Seneration	I		
Characteristic	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Any emergency room encounter (ED visit) 31- 365 days prior to index date	122,940	26.7%	123,599	26.8%	-0.143	-0.003	
		Standard		Standard			
	Mean	Deviation	Mean	Deviation			
Mean number of ambulatory encounters (AV)	18.5	15.8	18.6	16.7	-0.077	-0.005	
Mean number of emergency room encounters (ED)	0.6	1.6	0.6	1.7	-0.025	-0.015	
Mean number of inpatient hospital encounters (IP)	0.4	1.0	0.4	1.0	-0.007	-0.007	
Mean number of non-acute institutional encounters (IS)	0.1	0.6	0.1	0.6	0.002	0.003	
Mean number of other ambulatory encounters (OA)	6.7	13.3	6.5	12.9	0.168	0.013	
Mean number of unique drug classes	10.2	5.7	10.2	5.8	0.003	0.000	
Mean number of generics	11.3	6.7	11.4	6.9	-0.033	-0.005	
Mean number of filled prescriptions	49.5	40.7	48.3	40.1	1.218	0.030	

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

¹All metrics are based on total number of episodes per group, except for sex, race, and hispanic origin which are based on total number of unique patients



Table 2. Effect Estimates for New Users of Sitagliptin vs New Users of Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type

Medical Product	Number of New Users	Person-Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person-Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis (Site-adjusted o	nly)									
Sitagliptin	649,547	373,753.57	210.17	0.58	2,518	6.74	3.88	0.14	-0.24	0.84 (0.78, 0.90)	<0.001
Pioglitazone	365,342	227,877.05	227.82	0.62	1,503	6.60	4.11	0.14	-0.24	0.84 (0.78, 0.90)	<0.001
1:1 Matched Condition	nal Predefined	Analysis; Calipo	er= 0.01								
Sitagliptin	279,295	66,859.61	87.44	0.24	324	4.85	1.16	-2.29	-0.55	0.68 (0.59, 0.78)	<0.001
Pioglitazone	279,295	66,859.61	87.44	0.24	477	7.13	1.71	-2.29	-0.33	0.08 (0.39, 0.78)	<0.001
1:1 Matched Uncondit	tional Predefine	ed Analysis; Ca	liper= 0.01								
Sitagliptin	279,295	170,333.83	222.76	0.61	861	5.05	3.08	-2.17	-0.90	0.69 (0.63, 0.76)	<0.001
Pioglitazone	279,295	153,836.08	201.18	0.55	1,111	7.22	3.98	-2.17	-0.90	0.03 (0.05, 0.70)	\U.UU1



 Table 3. Effect Estimates for New Users of Sitagliptin vs New Users of Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD)

 between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Prior Cardiovascular Disease Status

Medical Product	Number of New Users	Person-Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No prior cardiovascular o	lisease covari	iates									
Unmatched Analysis (Site	-adjusted onl	y)									
Sitagliptin	379,780	215,970.49	207.71	0.57	643	2.98	1.69	-0.58	-0.57	0.71 (0.63, 0.80)	<0.001
Pioglitazone	244,521	155,842.52	232.79	0.64	554	3.55	2.27	-0.38	-0.37	0.71 (0.03, 0.80)	<0.001
1:1 Matched Conditional	Predefined A	nalysis; Caliper=	0.01								
Sitagliptin	179,244	42,448.65	86.50	0.24	87	2.05	0.49	-1.60	-0.38	0.56 (0.43, 0.73)	<0.001
Pioglitazone	179,244	42,448.65	86.50	0.24	155	3.65	0.86	-1.00	-0.38	0.30 (0.43, 0.73)	<0.001
1:1 Matched Uncondition	al Predefined	l Analysis; Calipe	er= 0.01								
Sitagliptin	179,244	108,281.25	220.65	0.60	250	2.31	1.39	-1.45	-0.68	0.60 (0.51, 0.71)	<0.001
Pioglitazone	179,244	98,685.14	201.09	0.55	371	3.76	2.07	-1.45	-0.08	0.00 (0.51, 0.71)	<0.001
Presence of prior cardiov	ascular disea	se covariates									
Unmatched Analysis (Site	-adjusted onl	y)									
Sitagliptin	269,767	157,783.08	213.63	0.58	1,875	11.88	6.95	-1.29	-0.90	0.83 (0.76, 0.90)	<0.001
Pioglitazone	120,821	72,034.52	217.77	0.60	949	13.17	7.85	-1.25	-0.50	0.85 (0.76, 0.56)	\0.001
1:1 Matched Conditional	Predefined A	nalysis; Caliper=	0.01								
Sitagliptin	99,898	24,585.20	89.89	0.25	222	9.03	2.22	-5.17	-1.27	0.64 (0.54, 0.75)	<0.001
Pioglitazone	99,898	24,585.20	89.89	0.25	349	14.20	3.49	-3.17	-1.27	0.04 (0.04, 0.73)	×0.001
1:1 Matched Uncondition	al Predefined	Analysis; Calipe	er= 0.01								
Sitagliptin	99,898	62,177.88	227.34	0.62	622	10.00	6.23	-3.25	-1.10	0.75 (0.67, 0.84)	<0.001
Pioglitazone	99,898	55,242.40	201.98	0.55	732	13.25	7.33	-3.23	-1.10	0.75 (0.07, 0.84)	\U.UUI



Table 4. Effect Estimates for New Users of Sitagliptin vs New Users of Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Sex

		Number		Average	Average		Incidence Rate per	Risk per	Incidence Rate	Difference in		
		of New	Person- Years	Person Days	Person- Years	Number of	1,000 Person-	1,000 New	Difference per 1,000	Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	Sex	Users	at Risk	at Risk	at Risk	Events	Years	Users	Person-Years	New Users	Interval)	P-Value
Unmatched Analys	sis (Site-ad	justed only)									
Sitagliptin	Male	306,469	180,001.75	214.53	0.59	1,092	6.07	3.56	0.77	0.01	0.97 (0.88, 1.08)	0.598
Pioglitazone	Male	195,466	131,328.48	245.40	0.67	695	5.29	3.56	0.77	0.01	0.97 (0.88, 1.08)	0.338
1:1 Matched Cond	itional Pre	defined An	alysis; Calipe	-= 0.01								
Sitagliptin	Male	145,968	36,565.43	91.50	0.25	167	4.57	1.14	-1.15	-0.29	0.80 (0.65, 0.98)	0.031
Pioglitazone	Male	145,968	36,565.43	91.50	0.25	209	5.72	1.43	-1.15	-0.29	0.80 (0.05, 0.98)	0.031
1:1 Matched Unco	nditional P	redefined	Analysis; Cali	per= 0.01								
Sitagliptin	Male	145,968	91,110.22	227.98	0.62	441	4.84	3.02	-0.81	-0.32	0.85 (0.75, 0.97)	0.013
Pioglitazone	Male	145,968	86,224.19	215.76	0.59	487	5.65	3.34	-0.81	-0.52	0.85 (0.75, 0.97)	0.015
Unmatched Analys	sis (Site-ad	justed only)									
Sitagliptin	Female	343,078	193,751.82	206.27	0.56	1,426	7.36	4.16	-1.01	-0.60	0.72 (0.66, 0.79)	<0.001
Pioglitazone	Female	169,876	96,548.57	207.59	0.57	808	8.37	4.76	-1.01	-0.00	0.72 (0.00, 0.79)	<0.001
1:1 Matched Cond	itional Pre	defined An	alysis; Calipe	-= 0.01								
Sitagliptin	Female	133,170	30,321.28	83.16	0.23	165	5.44	1.24	-3.89	-0.89	0.58 (0.48, 0.71)	<0.001
Pioglitazone	Female	133,170	30,321.28	83.16	0.23	283	9.33	2.13	-3.89	-0.89	0.38 (0.48, 0.71)	<0.001
1:1 Matched Unco	nditional P	redefined	Analysis; Cali	per= 0.01								
Sitagliptin	Female	133,170	78,997.89	216.67	0.59	457	5.78	3.43	-3.39	-1.22	0.63 (0.56, 0.71)	<0.001
Pioglitazone	Female	133,170	67,590.90	185.38	0.51	620	9.17	4.66	-3.39	-1.22	0.05 (0.50, 0.71)	<0.001



Table 5. Effect Estimates for New Users of Sitagliptin vs New Users of Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Age Group

		Number		Average	Average		Incidence Rate per	Risk per	Incidence Rate	Difference in		
	Age	of	Person-	Person	Person-	Number	1,000	1,000	Difference	Risk per	Hazard Ratio	
	Group	New	Years	Days	Years	of	Person-	New	per 1,000	1,000	(95% Confidence	Wald
Medical Product	(years)	Users	at Risk	at Risk	at Risk	Events	Years	Users	Person-Years	New Users	Interval)	P-Value
Unmatched Analy	sis (Site-a	djusted or	nly)									
Sitagliptin	18-64	290,749	156,440.81	196.53	0.54	389	2.49	1.34	-0.06	-0.18	0.80 (0.68, 0.95)	0.008
Pioglitazone	18-64	196,548	117,112.56	217.63	0.60	298	2.54	1.52	-0.00	-0.18	0.80 (0.08, 0.93)	0.008
1:1 Matched Cond	litional Pr	redefined A	Analysis; Calip	er= 0.01								
Sitagliptin	18-64	144,591	31,725.35	80.14	0.22	63	1.99	0.44	-0.69	-0.15	0.74 (0.54, 1.03)	0.072
Pioglitazone	18-64	144,591	31,725.35	80.14	0.22	85	2.68	0.59	-0.09	-0.15	0.74 (0.54, 1.05)	0.072
1:1 Matched Unco	onditional	Predefine	d Analysis; Ca	liper= 0.01	L							
Sitagliptin	18-64	144,591	83,237.60	210.27	0.58	160	1.92	1.11	-0.79	-0.30	0.70 (0.57, 0.86)	<0.001
Pioglitazone	18-64	144,591	74,726.80	188.77	0.52	203	2.72	1.40	-0.79	-0.30	0.70 (0.37, 0.80)	<0.001
Unmatched Analy	sis (Site-a	djusted or	nly)									
Sitagliptin	65+	358,798	217,312.76	221.22	0.61	2,129	9.80	5.93	-1.08	-1.21	0.85 (0.79, 0.91)	<0.001
Pioglitazone	65+	168,794	110,764.49	239.68	0.66	1,205	10.88	7.14	-1.08	-1.21	0.85 (0.79, 0.91)	<0.001
1:1 Matched Cond	litional Pi	redefined A	Analysis; Calip	er= 0.01								
Sitagliptin	65+	134,587	35,333.92	95.89	0.26	263	7.44	1.95	-3.85	-1.01	0.66 (0.56, 0.77)	<0.001
Pioglitazone	65+	134,587	35,333.92	95.89	0.26	399	11.29	2.96	-3.85	-1.01	0.00 (0.30, 0.77)	<0.001
1:1 Matched Unco	onditional	Predefine	d Analysis; Ca	liper= 0.01	L							
Sitagliptin	65+	134,587	87,024.29	236.17	0.65	714	8.20	5.31	-3.05	-1.31	0.72 (0.66, 0.80)	<0.001
Pioglitazone	65+	134,587	79,051.53	214.53	0.59	890	11.26	6.61	-3.05	-1.91	0.72 (0.00, 0.80)	\U.UUI



Table 6. Effect Estimates for New Users of Sitagliptin vs New Users of Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type

Medical Product	Number of New Users	Person-Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value	
Unmatched Analysis (Site	e-adjusted on	ly)										
Sitagliptin	764,558	460,707.58	220.09	0.60	6,274	13.62	8.21	-18.40	-2.64	0.50(0.48,0.51)	<0.001	
Long-Acting Insulins	1,016,262	344,377.11	123.77	0.34	11,026	32.02	10.85	-10.40	-2.04	0.50 (0.48, 0.51)	<0.001	
1:1 Matched Conditional	Predefined A	nalysis; Calipe	r= 0.01									
Sitagliptin	477,072	88,737.33	67.94	0.19	2,196	24.75	4.60	-2.73	-0.51	0.90 (0.85, 0.95)	<0.001	
Long-Acting Insulins	477,072	88,737.33	67.94	0.19	2,438	27.47	5.11	-2.75	-0.31	0.90 (0.83, 0.93)	<0.001	
1:1 Matched Uncondition	1:1 Matched Unconditional Predefined Analysis; Caliper= 0.01											
Sitagliptin	477,072	265,038.16	202.92	0.56	4,914	18.54	10.30	-5.12	1.83		<0.001	
Long-Acting Insulins	477,072	170,764.89	130.74	0.36	4,040	23.66	8.47	-3.12	1.05	0.88 (0.85, 0.92)	\U.UU1	



Table 7. Effect Estimates for New Users of Sitagliptin vs New Users of Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Prior Cardiovascular Disease Status

Medical Product	Number of New Users	Person-Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No prior cardiovascular	disease cova	riates									
Unmatched Analysis (Sit	e-adjusted on	ly)									
Sitagliptin	407,588	246,317.16	220.73	0.60	659	2.68	1.62	-3.01	-0.39	0.49 (0.44, 0.55)	<0.001
Long-Acting Insulins	468,226	165,271.60	128.92	0.35	939	5.68	2.01	-5.01	-0.35	0.49 (0.44, 0.33)	<0.001
1:1 Matched Conditiona	l Predefined A	Analysis; Caliper	= 0.01								
Sitagliptin	234,101	43,354.96	67.64	0.19	140	3.23	0.60	-2.42	-0.45	0.57 (0.46, 0.70)	<0.001
Long-Acting Insulins	234,101	43,354.96	67.64	0.19	245	5.65	1.05	-2.42	-0.43	0.37 (0.40, 0.70)	<0.001
1:1 Matched Uncondition	onal Predefine	d Analysis; Calip	oer= 0.01								
Sitagliptin	234,101	130,652.42	203.85	0.56	398	3.05	1.70	-2.46	-0.26	0.59 (0.51, 0.67)	<0.001
Long-Acting Insulins	234,101	83,478.85	130.25	0.36	460	5.51	1.96	-2.40	-0.20	0.59 (0.51, 0.07)	<0.001
Presence of prior cardio	ovascular dise	ase covariates									
Unmatched Analysis (Sit	e-adjusted on	ly)									
Sitagliptin	356,970	214,390.42	219.36	0.60	5,615	26.19	15.73	-30.13	-2.68	0.56 (0.54, 0.58)	<0.001
Long-Acting Insulins	548,036	179,105.51	119.37	0.33	10,087	56.32	18.41	-30.13	-2.08	0.50 (0.54, 0.58)	<0.001
1:1 Matched Conditiona	l Predefined A	Analysis; Caliper	= 0.01								
Sitagliptin	242,646	45,311.65	68.21	0.19	2,084	45.99	8.59	-1.90	0.25		0.187
Long-Acting Insulins	242,646	45,311.65	68.21	0.19	2,170	47.89	8.94	-1.90	-0.35	0.96 (0.90, 1.02)	0.187
1:1 Matched Unconditio	onal Predefine	d Analysis; Calip	oer= 0.01								
Sitagliptin	242,646	133,903.24	201.56	0.55	4,589	34.27	18.91	-7.08	1.09		<0.001
Long-Acting Insulins	242,646	87,068.51	131.06	0.36	3,600	41.35	14.84	-7.00	4.08	0.92 (0.88, 0.97)	<0.001



 Table 8. Effect Estimates for New Users of Sitagliptin vs New Users of Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database

 (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Sex

Medical Product	Sex	Number of New Users	Person- Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis (Sit	te-adjuste	ed only)										
Sitagliptin	Male	371,190	229,192.96	225.53	0.62	2,838	12.38	7.65	-18.38	-2.78	0.48 (0.46, 0.51)	<0.001
Long-Acting Insulins	Male	512,667	173,743.20	123.78	0.34	5,345	30.76	10.43	10.50	2.70	0.40 (0.40, 0.31)	\$0.001
1:1 Matched Conditiona	l Predefir	ned Analys	is; Caliper= 0.	01								
Sitagliptin	Male	231,506	43,454.81	68.56	0.19	989	22.76	4.27	-1.96	-0.37	0.92 (0.84, 1.00)	0.061
Long-Acting Insulins	Male	231,506	43,454.81	68.56	0.19	1,074	24.72	4.64	-1.90	-0.57	0.92 (0.84, 1.00)	0.001
1:1 Matched Uncondition	onal Prede	efined Ana	lysis; Caliper=	0.01								
Sitagliptin	Male	231,506	131,378.66	207.28	0.57	2,246	17.10	9.70	1 70	1 05	0.89 (0.83, 0.94)	<0.001
Long-Acting Insulins	Male	231,506	83,062.98	131.05	0.36	1,817	21.87	7.85	-4.78	1.85		<0.001
Unmatched Analysis (Sit	te-adjuste	ed only)										
Sitagliptin	Female	393,368	231,514.62	214.97	0.59	3,436	14.84	8.73	-18.45	2 55	0.51 (0.48, 0.53)	<0.001
Long-Acting Insulins	Female	503,595	170,633.91	123.76	0.34	5,681	33.29	11.28	-18.45	-2.55	0.51 (0.48, 0.53)	<0.001
1:1 Matched Conditiona	l Predefir	ned Analys	is; Caliper= 0.	01								
Sitagliptin	Female	245,496	45,221.42	67.28	0.18	1,154	25.52	4.70	4 5 6	-0.84		<0.001
Long-Acting Insulins	Female	245,496	45,221.42	67.28	0.18	1,360	30.07	5.54	-4.56	-0.84	0.85 (0.78, 0.92)	<0.001
1:1 Matched Uncondition	onal Prede	efined Ana	lysis; Caliper=	0.01								
Sitagliptin	Female	245,496	133,430.54	198.52	0.54	2,711	20.32	11.04	-4.64	2.13	0.90 (0.85, 0.96)	<0.001
Long-Acting Insulins	Female	245,496	87,695.65	130.47	0.36	2,189	24.96	8.92	-4.04	2.15	0.90 (0.85, 0.96)	\U.UU1



 Table 9. Effect Estimates for New Users of Sitagliptin vs New Users of Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database

 (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Age Group

Medical Product	Age Group (years)	Number of New Users	Person- Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis (Si	te-adjuste	ed only)										
Sitagliptin	18-64	315,163	177,904.60	206.18	0.56	734	4.13	2.33	-11.94	-2.81	0.35 (0.32, 0.38)	<0.001
Long-Acting Insulins	18-64	477,905	152,910.69	116.87	0.32	2,456	16.06	5.14	-11.34	-2.01	0.55 (0.52, 0.56)	<0.001
1:1 Matched Conditiona	al Predefi	ned Analys	sis; Caliper= 0	.01								
Sitagliptin	18-64	195,981	33,232.54	61.94	0.17	281	8.46	1.43	-2.86	-0.48	0.75 (0.64, 0.87)	<0.001
Long-Acting Insulins	18-64	195,981	33,232.54	61.94	0.17	376	11.31	1.92	-2.00	-0.46	0.75 (0.04, 0.87)	<0.001
1:1 Matched Uncondition	onal Pred	efined Ana	lysis; Caliper=	= 0.01								
Sitagliptin	18-64	195,981	102,106.81	190.30	0.52	621	6.08	3.17	-4.15	0.11	0.70 (0.63, 0.78)	<0.001
Long-Acting Insulins	18-64	195,981	62,774.99	116.99	0.32	642	10.23	3.28	-4.15	-0.11		<0.001
Unmatched Analysis (Si	te-adjust	ed only)										
Sitagliptin	65+	449,395	282,802.98	229.85	0.63	5,540	19.59	12.33	25 17	2 50		-0.001
Long-Acting Insulins	65+	538,357	191,466.42	129.90	0.36	8,570	44.76	15.92	-25.17	-3.59	0.50 (0.48, 0.52)	<0.001
1:1 Matched Conditiona	al Predefi	ned Analys	sis; Caliper= 0	.01								
Sitagliptin	65+	280,953	55,596.10	72.28	0.20	1,879	33.80	6.69	2 71	0.72		0.001
Long-Acting Insulins	65+	280,953	55,596.10	72.28	0.20	2,085	37.50	7.42	-3.71	-0.73	0.90 (0.85, 0.96)	0.001
1:1 Matched Uncondition	onal Pred	efined Ana	lysis; Caliper=	= 0.01								
Sitagliptin	65+	280,953	163,392.52	212.42	0.58	4,298	26.30	15.30	E 16	2 21		<0.001
Long-Acting Insulins	65+	280,953	107,941.81	140.33	0.38	3,396	31.46	12.09	-5.16	3.21	0.92 (0.88, 0.96)	\U.UU1



Table 10. Effect Estimates for New Users of Sitagliptin vs New Users of Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type

Medical Product	Number of New Users	Person-Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person-Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis (Site-adjusted of	only)										
Sitagliptin	466,768	259,111.62	202.76	0.56	4,001	15.44	8.57	-0.56	-2.72	0.85 (0.82, 0.88)	<0.001
Second-Generation Sulfonylureas	1,392,538	982,645.79	257.74	0.71	15,719	16.00	11.29	-0.30	-2.72	0.85 (0.82, 0.88)	<0.001
1:1 Matched Conditional Predefined	l Analysis; Ca	liper= 0.01									
Sitagliptin	460,792	110,460.33	87.56	0.24	2,165	19.60	4.70	-2.77	-0.66	0.88 (0.83, 0.93)	<0.001
Second-Generation Sulfonylureas	460,792	110,460.33	87.56	0.24	2,471	22.37	5.36	-2.77	-0.00	0.88 (0.85, 0.95)	<0.001
1:1 Matched Unconditional Predefin	ned Analysis;	Caliper= 0.01									
Sitagliptin	460,792	255,322.44	202.38	0.55	3,933	15.40	8.54	-2.30	-2.29	0.87 (0.84, 0.91)	<0.001
Second-Generation Sulfonylureas	460,792	281,698.26	223.29	0.61	4,986	17.70	10.82	-2.50	-2.29	0.87 (0.84, 0.91)	<0.001



 Table 11. Effect Estimates for New Users of Sitagliptin vs New Users of Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed

 Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Prior Cardiovascular Disease Status

Medical Product	Number of New Users	Person- Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No prior cardiovascular disease cova			_	_	_						
Unmatched Analysis (Site-adjusted or											
Sitagliptin	243,630	135,142.61	202.61	0.55	337	2.49	1.38	-0.98	-1.15	0.74	< 0.001
Second-Generation Sulfonylureas	780,724	568,706.15	266.06	0.73	1,978	3.48	2.53			(0.65, 0.83)	
1:1 Matched Conditional Predefined	Analysis; Ca	aliper= 0.01									
Sitagliptin	240,528	57,049.06	86.63	0.24	150	2.63	0.62	-0.79	-0.19	0.77	0.016
Second-Generation Sulfonylureas	240,528	57,049.06	86.63	0.24	195	3.42	0.81	0.75	0.15	(0.62, 0.95)	0.010
1:1 Matched Unconditional Predefine	ed Analysis;	; Caliper= 0.01									
Sitagliptin	240,528	133,174.84	202.23	0.55	332	2.49	1.38	-1.10	-0.79	0.73	<0.001
Second-Generation Sulfonylureas	240,528	145,097.46	220.34	0.60	521	3.59	2.17	-1.10	-0.79	(0.63, 0.83)	<0.001
Presence of prior cardiovascular dise	ease covari	ates									
Unmatched Analysis (Site-adjusted or	nly)										
Sitagliptin	223,138	123,969.01	202.92	0.56	3,664	29.56	16.42	-3.64	-6.04	0.84	<0.001
Second-Generation Sulfonylureas	611,814	413,939.64	247.12	0.68	13,741	33.20	22.46	-5.04	-0.04	(0.81, 0.87)	<0.001
1:1 Matched Conditional Predefined	Analysis; Ca	aliper= 0.01									
Sitagliptin	220,054	53,523.68	88.84	0.24	2,020	37.74	9.18	4.02	0.00	0.90	-0.001
Second-Generation Sulfonylureas	220,054	53,523.68	88.84	0.24	2,235	41.76	10.16	-4.02	-0.98	(0.85 <i>,</i> 0.96)	<0.001
1:1 Matched Unconditional Predefine	ed Analysis;	; Caliper= 0.01									
Sitagliptin	220,054	122,049.51	202.58	0.55	3,610	29.58	16.41			0.90	
Second-Generation Sulfonylureas	220,054	137,069.54	227.51	0.62	4,416	32.22	20.07	-2.64	-3.66	(0.86, 0.94)	<0.001



Table 12. Effect Estimates for New Users of Sitagliptin vs New Users of Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Sex

Medical Product	Sex	Number of New Users	Person- Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	(95%	zard Ratio Confidence nterval)	Wald P-Value
Unmatched Analysis (Site-adjusted o	only)												
Sitagliptin	Male	218,695	124,668.28	208.21	0.57	1,708	13.70	7.81	-1.74	-3.48	0.80	(0.76, 0.85)	<0.001
Second-Generation Sulfonylureas	Male	704,095	514,861.66	267.09	0.73	7,949	15.44	11.29	1.74	5.40	0.00	(0.70, 0.03)	\0.001
1:1 Matched Conditional Predefined	Analysis	; Caliper=	0.01										
Sitagliptin	Male	217,850	53,823.71	90.24	0.25	470	8.73	2.16	-1.95	-0.48	0.82	(0.72, 0.92)	0.001
Second-Generation Sulfonylureas	Male	217,850	53,823.71	90.24	0.25	575	10.68	2.64	-1.95	-0.46	0.82	(0.72, 0.92)	0.001
1:1 Matched Unconditional Predefin	ed Analy	sis; Calipe	r= 0.01										
Sitagliptin	Male	217,850	123,937.10	207.79	0.57	924	7.46	4.24	-1.95	-1.69	0 00	(0.74, 0.87)	<0.001
Second-Generation Sulfonylureas	Male	217,850	137,437.77	230.43	0.63	1,293	9.41	5.94	-1.95	-1.09	0.80 (0.74, 0.87)		<0.001
Unmatched Analysis (Site-adjusted o	only)												
Sitagliptin	Female	248,073	134,443.34	197.95	0.54	2,293	17.06	9.24	0.45	-2.04	0.90	(0.86, 0.94)	<0.001
Second-Generation Sulfonylureas	Female	688,443	467,784.14	248.18	0.68	7,770	16.61	11.29	0.45	-2.04	0.90	(0.86, 0.94)	<0.001
1:1 Matched Conditional Predefined	Analysis	; Caliper=	0.01										
Sitagliptin	Female	220,054	53,523.68	88.84	0.24	2,020	37.74	9.18	-4.02	0.00	0.00		<0.001
Second-Generation Sulfonylureas	Female	220,054	53,523.68	88.84	0.24	2,235	41.76	10.16	-4.02	-0.98	0.90	(0.85, 0.96)	\U.UU1
1:1 Matched Unconditional Predefine	ed Analy	sis; Calipe	r= 0.01										
Sitagliptin	Female	220,054	122,049.51	202.58	0.55	3,610	29.58	16.41	2.64	2.66	0.00		<0.001
Second-Generation Sulfonylureas	Female	220,054	137,069.54	227.51	0.62	4,416	32.22	20.07	-2.64	-3.66	0.90	(0.86, 0.94)	<0.001



Table 13. Effect Estimates for New Users of Sitagliptin vs New Users of Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated) by Analysis Type and Age Group

Medical Product	Age Group (years)	Number of New Users	Person- Years at Risk	Average Person Days at Risk	Average Person- Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person-Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis (Site-adjusted	only)											
Sitagliptin Second-Generation Sulfonylureas	18-64 18-64	213,772 642,083	110,605.65 396,308.19	188.98 225.44	0.52 0.62	650 2,520	5.88 6.36	3.04 3.92	-0.48	-0.88	0.82 (0.75, 0.90)	<0.001
1:1 Matched Conditional Predefine	d Analysis; C	Caliper= 0.01										
Sitagliptin Second-Generation Sulfonylureas	18-64 18-64	209,985 209,985	44,264.45 44,264.45	76.99 76.99	0.21 0.21	352 412	7.95 9.31	1.68 1.96	-1.36	-0.29	0.85 (0.74, 0.98)	0.03
1:1 Matched Unconditional Predefi	ned Analysis	s; Caliper= 0.	.01									
Sitagliptin Second-Generation Sulfonylureas	18-64 18-64	209,985 209,985	108,274.26 107,745.70	188.33 187.41	0.52 0.51	632 808	5.84 7.50	3.01 3.85	-1.66	-0.84	0.81 (0.73, 0.90)	<0.001
Unmatched Analysis (Site-adjusted	only)											
Sitagliptin Second-Generation Sulfonylureas	65+ 65+	252,996 750,455	148,505.97 586,337.60	214.40 285.37	0.59 0.78	3,351 13,199	22.56 22.51	13.25 17.59	0.05	-4.34	0.89 (0.86, 0.93)	<0.001
1:1 Matched Conditional Predefine	d Analysis; C	Caliper= 0.01	1									
Sitagliptin Second-Generation Sulfonylureas	65+ 65+	250,581 250,581	66,560.25 66,560.25	97.02 97.02	0.27 0.27	1,838 2,051	27.61 30.81	7.33 8.18	-3.20	-0.85	0.90 (0.84, 0.95)	<0.001
1:1 Matched Unconditional Predefi	ned Analysis	s; Caliper= 0.	.01									
Sitagliptin Second-Generation Sulfonylureas	65+ 65+	250,581 250,581	146,813.75 174,051.06	214.00 253.70	0.59 0.69	3,309 4,176	22.54 23.99	13.21 16.67	-1.45	-3.46	0.91 (0.87, 0.95)	<0.001



Figure 1a. Propensity Score Distributions for New Users of Sitagliptin and Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unmatched, Aggregated





Figure 1b. Propensity Score Distributions for New Users of Sitagliptin and Pioglitazone with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Matched, Aggregated





Figure 2a. Propensity Score Distributions for New Users of Sitagliptin and Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unmatched, Aggregated





Figure 2b. Propensity Score Distributions for New Users of Sitagliptin and Long-Acting Insulins with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Matched, Aggregated





Figure 3a. Propensity Score Distributions for New Users of Sitagliptin and Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unmatched, Aggregated



🔲 Histogram of Sitagliptin 📃 Histogram of Sulfonylurea



Figure 3b. Propensity Score Distributions for New Users of Sitagliptin and Second-Generation Sulfonylureas with Hospitalized Heart Failure in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Matched, Aggregated





Figure 4. Kaplan Meier Survival Curves for Hospitalized Heart Failure Among New Users of Sitagliptin vs Pioglitazone in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unconditional Matched Cohort





Figure 5. Kaplan Meier Survival Curves for Hospitalized Heart Failure Among New Users of Sitagliptin vs Long-Acting Insulinsin the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unconditional Matched Cohort





Figure 6. Kaplan Meier Survival Curves for Hospitalized Heart Failure Among New Users of Sitagliptin vs Second-Generation Sulfonylureas in the Sentinel Distributed Database (SDD) between August 1, 2009 and September 30, 2015, (Updated), Unconditional Matched Cohort





Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request End Date (September 30, 2015)

DP ID	DP Start Date ¹	DP End Date ¹
DP01	01/01/2000	09/30/2015
DP02	01/01/2004	09/30/2015
DP03	01/01/2000	09/30/2015
DP04	01/01/2005	09/30/2015
DP05	01/01/2006	09/30/2015
DP06	01/01/2000	09/30/2015
DP07	06/01/2007	09/30/2015
DP08	01/01/2000	09/30/2015
DP09	01/01/2000	09/30/2015
DP10	01/01/2000	09/30/2015
DP11	01/01/2010	09/30/2015
DP12	01/01/2012	09/30/2015
DP13	01/01/2008	09/30/2015
DP14	01/01/2000	09/30/2015
DP15	01/01/2008	09/30/2015
DP16	01/01/2000	09/30/2015

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



Appendix B. List of Generic and Brand Names of Medical Products Used to Define Exposure and Incidence Criteria in this Report

Generic Name	Brand Name
	xagliptin
dapagliflozin propanediol/saxagliptin hcl	Qtern
saxagliptin hcl	Onglyza
saxagliptin hcl/metformin hcl	Kombiglyze XR
Si	tagliptin
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
sitagliptin phosphate	Januvia
sitagliptin phosphate/metformin hcl	Janumet
sitagliptin phosphate/metformin hcl	Janumet XR
sitagliptin phosphate/simvastatin	Juvisync
Long-A	cting Insulins
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30flexpen U-100
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insuln
insulin degludec	Tresiba Flextouch U-200
insulin degludec	Tresiba Flextouch U-100
insulin degludec/liraglutide	Xultophy 100/3.6
insulin detemir	Levemir Flextouch U-100 Insuln
insulin detemir	Levemir Flexpen
insulin detemir	Levemir U-100 Insulin
insulin glargine, human recombinant analog	Lantus U-100 Insulin
insulin glargine, human recombinant analog	Basaglar Kwikpen U-100 Insulin
insulin glargine, human recombinant analog	Toujeo Solostar U-300 Insulin
insulin glargine, human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insuln U-100
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 Kwikpen
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Kwikpen
insulin nph human isophane	Novolin N Penfill
insulin nph human isophane	Humulin N Pen
insulin nph human isophane	Humulin N NPH Insulin Kwikpen
insulin nph human isophane	Novolin N Innolet
insulin nph human isophane	Humulin N Nph U-100 Insulin
insulin nph human isophane	Novolin N Nph U-100 Insulin
insulin nph human isophane/insulin regular, human	Novolin 70/30 Penfill
insulin nph human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin nph human isophane/insulin regular, human	Humulin 70/30 U-100 Kwikpen
insulin nph human isophane/insulin regular, human	Novolin 70/30 Innolet Insulin
insulin nph human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin nph human isophane/insulin regular, human	Humulin 50/50
insulin nph human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin



Appendix B. List of Generic and Brand Names of Medical Products Used to Define Exposure and Incidence Criteria in this Report

Generic Name	Brand Name
	Pioglitazone
alogliptin benzoate/pioglitazone hcl	Alogliptin-Pioglitazone
alogliptin benzoate/pioglitazone hcl	Oseni
pioglitazone hcl	Pioglitazone
pioglitazone hcl	Actos
pioglitazone hcl/glimepiride	Pioglitazone-Glimepiride
pioglitazone hcl/glimepiride	Duetact
pioglitazone hcl/metformin hcl	Pioglitazone-Metformin
pioglitazone hcl/metformin hcl	Actoplus MET
pioglitazone hcl/metformin hcl	Actoplus Met Xr
S	Second-Generation Sulfonylureas
glimepiride	Amaryl
glimepiride	Glimepiride
glipizide	Glucotrol
glipizide	Glipizide
glipizide	Glucotrol XL
glipizide/metformin hcl	Metaglip
glipizide/metformin hcl	Glipizide-Metformin
glyburide	Micronase
glyburide	Diabeta
glyburide	Glyburide
glyburide,micronized	Glynase
glyburide,micronized	Glyburide Micronized
glyburide/metformin hcl	Glucovance
glyburide/metformin hcl	Glyburide-Metformin
pioglitazone hcl/glimepiride	Pioglitazone-Glimepiride
pioglitazone hcl/glimepiride	Duetact
rosiglitazone maleate/glimepiride	Avandaryl



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis
Codes Used to Define Inclusion and Exclusion Criteria in this Report

Code	Description	Code Type	Code Category
	Diabetes		
250	Diabetes mellitus	ICD-9-CM	Diagnosis
250.0	Diabetes mellitus without mention of complication	ICD-9-CM	Diagnosis
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.1	Diabetes with ketoacidosis	ICD-9-CM	Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.2	Diabetes with hyperosmolarity	ICD-9-CM	Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.3	Diabetes with other coma	ICD-9-CM	Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.4	Diabetes with renal manifestations	ICD-9-CM	Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.5	Diabetes with ophthalmic manifestations	ICD-9-CM	Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Report

Code	Description	Code Type	Code Category
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.6	Disketes with neurological manifestations		Diagnosis
250.6 250.60	Diabetes with neurological manifestations	ICD-9-CM ICD-9-CM	Diagnosis
250.00	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled		Diagnosis
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM	Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.8	Diabetes with other specified manifestations	ICD-9-CM	Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM	Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
	Congestive Heart Failure	100.0.00	
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Report

Code	Description	Code Type	Code Category
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and	ICD-9-CM	Diagnosis
	with chronic kidney disease stage V or end-stage renal disease		
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
428	Heart failure	ICD-9-CM	Diagnosis
428.0	Congestive heart failure, unspecified	ICD-9-CM	Diagnosis
428.1	Left heart failure	ICD-9-CM	Diagnosis
428.2	Systolic heart failure	ICD-9-CM	Diagnosis
428.20	Unspecified systolic heart failure	ICD-9-CM	Diagnosis
428.21	Acute systolic heart failure	ICD-9-CM	Diagnosis
428.22	Chronic systolic heart failure	ICD-9-CM	Diagnosis
428.23	Acute on chronic systolic heart failure	ICD-9-CM	Diagnosis
428.3	Diastolic heart failure	ICD-9-CM	Diagnosis
428.30	Unspecified diastolic heart failure	ICD-9-CM	Diagnosis
428.31	Acute diastolic heart failure	ICD-9-CM	Diagnosis
428.32	Chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.33	Acute on chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.4	Combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.40	Unspecified combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.41	Acute combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.42	Chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.43	Acute on chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.9	Unspecified heart failure	ICD-9-CM	Diagnosis
	End of Pregnancy		
630	Hydatidiform mole	ICD-9-CM	Diagnosis
631	Other abnormal product of conception	ICD-9-CM	Diagnosis
631.0	Inappropriate change in quantitative human chorionic gonadotropin (hCG) in early pregnancy	ICD-9-CM	Diagnosis
631.8	Other abnormal products of conception	ICD-9-CM	Diagnosis
632	Missed abortion	ICD-9-CM	Diagnosis
633	Ectopic pregnancy	ICD-9-CM	Diagnosis
633.0	Abdominal pregnancy	ICD-9-CM	Diagnosis
633.00	Abdominal pregnancy without intrauterine pregnancy	ICD-9-CM	Diagnosis
633.01	Abdominal pregnancy with intrauterine pregnancy	ICD-9-CM	Diagnosis
633.1	Tubal pregnancy	ICD-9-CM	Diagnosis
633.10	Tubal pregnancy without intrauterine pregnancy	ICD-9-CM	Diagnosis



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Report

633.2 Ovarian pregnancy ICD-9-CM Diagnosis 633.2.0 Ovarian pregnancy with intrauterine pregnancy ICD-9-CM Diagnosis 633.2.1 Ovarian pregnancy with intrauterine pregnancy ICD-9-CM Diagnosis 633.8 Other ectopic pregnancy with intrauterine pregnancy ICD-9-CM Diagnosis 633.8 Other ectopic pregnancy with intrauterine pregnancy ICD-9-CM Diagnosis 633.9 Unspecified ectopic pregnancy ICD-9-CM Diagnosis 633.9 Unspecified ectopic pregnancy ICD-9-CM Diagnosis 633.9 Unspecified ectopic pregnancy ICD-9-CM Diagnosis 634.0 Spontaneous abortion ICD-9-CM Diagnosis 634.0 Inspecified ectopic pregnancy with intrauterine pregnancy ICD-9-CM Diagnosis 634.0 Inspecified spontaneous abortion complicated by genital tract and pelvic infection ICD-9-CM Diagnosis 634.0 Unspecified spontaneous abortion complicated by genital tract and pelvic infection ICD-9-CM Diagnosis 634.1 Spontaneous abortion complicated by delayed or excessive hemorrhage ICD-9-CM Diagnosis 634.1 Incomplete spontaneou	Code	Description	Code Type	Code Category
633.21Ovarian pregnancy with intrauterine pregnancyICD-9-CMDiagnosis633.80Other ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.81Other ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.90Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.90Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.91Unspecified ectopic pregnancy with intrauterine pregnancyICD-9-CMDiagnosis634.03Spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.00Unspecified ectopic pregnancy without normplicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.01Incomplete spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.01Incomplete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.11Spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.12Complete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.23Spontaneous abortion complicated by damage to pelvic organs or itsuesICD-9-CMDiagnosis634.24Complete spontaneous abortion complicated by damage to pelvic organs or itsuesICD-9-CMDiagnosis634.30Unspecified spontaneous abortion complicated by renal failureICD-9-CMDiagnosis634.	633.2	Ovarian pregnancy	ICD-9-CM	Diagnosis
633.8Other ectopic pregnancyICD-9-CMDiagnosis633.80Other ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.91Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.9Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.91Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.91Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis634.01Spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.02Complete spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.02Complete spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.10Incomplete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.11Incomplete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.12Complete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.23Spontaneous abortion complicated by damage to pelvic organs or tissuesICD-9-CMDiagnosis634.24Complete spontaneous abortion complicated by damage to pelvic organs or tissuesD-9-CMDiagnosis634.24Unspecified spontaneous abortion complicated by renal failureICD-9-CMDiagnosis634.25Comp	633.20	Ovarian pregnancy without intrauterine pregnancy	ICD-9-CM	Diagnosis
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633.81Other ectopic pregnancy with intrauterine pregnancyICD-9-CMDiagnosis633.90Unspecified ectopic pregnancy without intrauterine pregnancyICD-9-CMDiagnosis633.91Unspecified ectopic pregnancy with intrauterine pregnancyICD-9-CMDiagnosis634.00Unspecified ectopic pregnancy with intrauterine pregnancyICD-9-CMDiagnosis634.01Unspecified ectopic pregnancy with intrauterine pregnancyICD-9-CMDiagnosis634.02Spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.01Incomplete spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.02Complete spontaneous abortion complicated by genital tract and pelvic infectionICD-9-CMDiagnosis634.11Incomplete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.12Complete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.12Complete spontaneous abortion complicated by delayed or excessive hemorrhageICD-9-CMDiagnosis634.23Spontaneous abortion complicated by damage to pelvic organs or tissuesICD-9-CMDiagnosis634.24Spontaneous abortion complicated by damage to pelvic organs or tissuesICD-9-CMDiagnosis634.35Spontaneous abortion complicated by damage to pelvic organs or tissuesICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by renal failureICD-9-CMDiagnosis	633.8	Other ectopic pregnancy	ICD-9-CM	Diagnosis
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634.31Incomplete spontaneous abortion complicated by renal failureICD-9-CMDiagnosis634.32Complete spontaneous abortion complicated by renal failureICD-9-CMDiagnosis634.4Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.40Unspecified spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.41Incomplete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.53Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.54Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.55Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.3	Spontaneous abortion complicated by renal failure	ICD-9-CM	Diagnosis
634.32Complete spontaneous abortion complicated by renal failureICD-9-CMDiagnosis634.4Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.40Unspecified spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.41Incomplete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.53Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.54Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.55Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.30	Unspecified spontaneous abortion complicated by renal failure	ICD-9-CM	Diagnosis
634.4Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.40Unspecified spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.41Incomplete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.53Spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.31	Incomplete spontaneous abortion complicated by renal failure	ICD-9-CM	Diagnosis
634.40Unspecified spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.41Incomplete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.53Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.32	Complete spontaneous abortion complicated by renal failure	ICD-9-CM	Diagnosis
634.41Incomplete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.5Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.4	Spontaneous abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
634.42Complete spontaneous abortion complicated by metabolic disorderICD-9-CMDiagnosis634.5Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.40	Unspecified spontaneous abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
634.5Spontaneous abortion complicated by shockICD-9-CMDiagnosis634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.41	Incomplete spontaneous abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
634.50Unspecified spontaneous abortion complicated by shockICD-9-CMDiagnosis634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.42	Complete spontaneous abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
634.51Incomplete spontaneous abortion complicated by shockICD-9-CMDiagnosis634.52Complete spontaneous abortion complicated by shockICD-9-CMDiagnosis	634.5	Spontaneous abortion complicated by shock	ICD-9-CM	Diagnosis
634.52 Complete spontaneous abortion complicated by shock ICD-9-CM Diagnosis	634.50	Unspecified spontaneous abortion complicated by shock	ICD-9-CM	Diagnosis
	634.51	Incomplete spontaneous abortion complicated by shock	ICD-9-CM	Diagnosis
634.6 Spontaneous abortion complicated by embolism ICD-9-CM Diagnosis	634.52	Complete spontaneous abortion complicated by shock	ICD-9-CM	Diagnosis
	634.6	Spontaneous abortion complicated by embolism	ICD-9-CM	Diagnosis



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Report

Code	Description	Code Type	Code Category
634.60	Unspecified spontaneous abortion complicated by embolism	ICD-9-CM	Diagnosis
634.61	Incomplete spontaneous abortion complicated by embolism	ICD-9-CM	Diagnosis
634.62	Complete spontaneous abortion complicated by embolism	ICD-9-CM	Diagnosis
634.7	Spontaneous abortion with other specified complications	ICD-9-CM	Diagnosis
634.70	Unspecified spontaneous abortion with other specified complications	ICD-9-CM	Diagnosis
634.71	Incomplete spontaneous abortion with other specified complications	ICD-9-CM	Diagnosis
634.72	Complete spontaneous abortion with other specified complications	ICD-9-CM	Diagnosis
634.8	Spontaneous abortion with unspecified complication	ICD-9-CM	Diagnosis
634.80	Unspecified spontaneous abortion with unspecified complication	ICD-9-CM	Diagnosis
634.81	Incomplete spontaneous abortion with unspecified complication	ICD-9-CM	Diagnosis
634.82	Complete spontaneous abortion with unspecified complication	ICD-9-CM	Diagnosis
634.9	Spontaneous abortion without mention of complication	ICD-9-CM	Diagnosis
634.90	Unspecified spontaneous abortion without mention of complication	ICD-9-CM	Diagnosis
634.91	Incomplete spontaneous abortion without mention of complication	ICD-9-CM	Diagnosis
634.92	Complete spontaneous abortion without mention of complication	ICD-9-CM	Diagnosis
635	Legally induced abortion	ICD-9-CM	Diagnosis
635.0	Legally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
635.00	Unspecified legally induced abortion complicated by genital tract and pelvic	ICD-9-CM	Diagnosis
	infection		
635.01	Incomplete legally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
635.02	Complete legally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
635.1	Legally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
635.10	Unspecified legally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
635.11	Incomplete legally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
635.12	Complete legally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
635.2	Legally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
635.20	Unspecified legally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
635.21	Legally induced abortion complicated by damage to pelvic organs or tissues, incomplete	ICD-9-CM	Diagnosis
635.22	Complete legally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
635.3	Legally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
635.30	Unspecified legally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
635.31	Incomplete legally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
635.32	Complete legally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
635.4	Legally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
635.40	Unspecified legally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
635.41	Incomplete legally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
			-



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Report

Code	Description	Code Type	Code Category
635.42	Complete legally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
635.5	Legally induced abortion complicated by shock	ICD-9-CM	Diagnosis
635.50	Unspecified legally induced abortion complicated by shock	ICD-9-CM	Diagnosis
635.51	Legally induced abortion, complicated by shock, incomplete	ICD-9-CM	Diagnosis
635.52	Complete legally induced abortion complicated by shock	ICD-9-CM	Diagnosis
635.6	Legally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
635.60	Unspecified legally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
635.61	Incomplete legally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
635.62	Complete legally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
635.7	Legally induced abortion with other specified complications	ICD-9-CM	Diagnosis
635.70	Unspecified legally induced abortion with other specified complications	ICD-9-CM	Diagnosis
635.71	Incomplete legally induced abortion with other specified complications	ICD-9-CM	Diagnosis
635.72	Complete legally induced abortion with other specified complications	ICD-9-CM	Diagnosis
635.8	Legally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
635.80	Unspecified legally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
635.81	Incomplete legally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
635.82	Complete legally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
635.9	Legally induced abortion without mention of complication	ICD-9-CM	Diagnosis
635.90	Unspecified legally induced abortion without mention of complication	ICD-9-CM	Diagnosis
635.91	Incomplete legally induced abortion without mention of complication	ICD-9-CM	Diagnosis
635.92	Complete legally induced abortion without mention of complication	ICD-9-CM	Diagnosis
636	Illegally induced abortion	ICD-9-CM	Diagnosis
636.0	Illegally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
636.00	Unspecified illegally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
636.01	Incomplete illegally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
636.02	Complete illegally induced abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
636.1	Illegally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
636.10	Unspecified illegally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
636.11	Incomplete illegally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
636.12	Complete illegally induced abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
636.2	Illegally induced abortion complicated by damage to pelvic organs or tissue	ICD-9-CM	Diagnosis
636.20	Unspecified illegally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
636.21	Incomplete illegally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
636.22	Complete illegally induced abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
636.3	Illegally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis


Code	Description	Code Type	Code Category
636.30	Unspecified illegally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
636.31	Incomplete illegally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
636.32	Complete illegally induced abortion complicated by renal failure	ICD-9-CM	Diagnosis
636.4	Illegally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
636.40	Unspecified illegally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
636.41	Incomplete illegally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
636.42	Complete illegally induced abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
636.5	Illegally induced abortion complicated by shock	ICD-9-CM	Diagnosis
636.50	Unspecified illegally induced abortion complicated by shock	ICD-9-CM	Diagnosis
636.51	Incomplete illegally induced abortion complicated by shock	ICD-9-CM	Diagnosis
636.52	Complete illegally induced abortion complicated by shock	ICD-9-CM	Diagnosis
636.6	Illegally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
636.60	Unspecified illegally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
636.61	Incomplete illegally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
636.62	Complete illegally induced abortion complicated by embolism	ICD-9-CM	Diagnosis
636.7	Illegally induced abortion with other specified complications	ICD-9-CM	Diagnosis
636.70	Unspecified illegally induced abortion with other specified complications	ICD-9-CM	Diagnosis
636.71	Incomplete illegally induced abortion with other specified complications	ICD-9-CM	Diagnosis
636.72	Complete illegally induced abortion with other specified complications	ICD-9-CM	Diagnosis
636.8	Illegally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
636.80	Unspecified illegally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
636.81	Incomplete illegally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
636.82	Complete illegally induced abortion with unspecified complication	ICD-9-CM	Diagnosis
636.9	Illegally induced abortion without mention of complication	ICD-9-CM	Diagnosis
636.90	Unspecified illegally induced abortion without mention of complication	ICD-9-CM	Diagnosis
636.91	Incomplete illegally induced abortion without mention of complication	ICD-9-CM	Diagnosis
636.92	Complete illegally induced abortion without mention of complication	ICD-9-CM	Diagnosis
637	Abortion, unspecified as to legality	ICD-9-CM	Diagnosis
637.0	Abortion, unspecified as to legality, complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
637.00	Abortion, unspecified as to completion or legality, complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
637.01	Abortion, unspecified as to legality, incomplete, complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
637.02	Abortion, unspecified as to legality, complete, complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
637.1	Abortion, unspecified as to legality, complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
637.10	Abortion, unspecified as to completion or legality, complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
637.11	Abortion, unspecified as to legality, incomplete, complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
637.12	Abortion, unspecified as to legality, complete, complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
637.2	Abortion, unspecified as to legality, complicated by damage to pelvic organs or	ICD-9-CM	Diagnosis
	tissues		
637.20	Abortion, unspecified as to completion or legality, complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
637.21	Abortion, unspecified as to legality, incomplete, complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
637.22	Abortion, unspecified as to legality, complete, complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
637.3	Abortion, unspecified as to legality, complicated by renal failure	ICD-9-CM	Diagnosis
637.30	Abortion, unspecified as to completion or legality, complicated by renal failure	ICD-9-CM	Diagnosis
007100			2.08.0000
637.31	Abortion, unspecified as to legality, incomplete, complicated by renal failure	ICD-9-CM	Diagnosis
637.32	Abortion, unspecified as to legality, complete, complicated by renal failure	ICD-9-CM	Diagnosis
637.4	Abortion, unspecified as to legality, complicated by metabolic disorder	ICD-9-CM	Diagnosis
637.40	Abortion, unspecified as to completion or legality, complicated by metabolic disorder	ICD-9-CM	Diagnosis
637.41	Abortion, unspecified as to legality, incomplete, complicated by metabolic disorder	ICD-9-CM	Diagnosis
637.42	Abortion, unspecified as to legality, complete, complicated by metabolic disorder	ICD-9-CM	Diagnosis
637.5	Abortion, unspecified as to legality, complicated by shock	ICD-9-CM	Diagnosis
637.50	Abortion, unspecified as to completion or legality, complicated by shock	ICD-9-CM	Diagnosis
637.51	Abortion, unspecified as to legality, incomplete, complicated by shock	ICD-9-CM	Diagnosis
637.52	Abortion, unspecified as to legality, complete, complicated by shock	ICD-9-CM	Diagnosis
637.6	Abortion, unspecified as to legality, complicated by embolism	ICD-9-CM	Diagnosis
637.60	Abortion, unspecified as to completion or legality, complicated by embolism	ICD-9-CM	Diagnosis
637.61	Abortion, unspecified as to legality, incomplete, complicated by embolism	ICD-9-CM	Diagnosis
637.62	Abortion, unspecified as to legality, complete, complicated by embolism	ICD-9-CM	Diagnosis
637.7	Abortion, unspecified as to legality, with other specified complications	ICD-9-CM	Diagnosis
637.70	Abortion, unspecified as to completion or legality, with other specified complications	ICD-9-CM	Diagnosis
637.71	Abortion, unspecified as to legality, incomplete, with other specified complications	ICD-9-CM	Diagnosis
637.72	Abortion, unspecified as to legality, complete, with other specified complications	ICD-9-CM	Diagnosis
637.8	Abortion, unspecified as to legality, with unspecified complication	ICD-9-CM	Diagnosis
637.80	Abortion, unspecified as to completion or legality, with unspecified complication	ICD-9-CM	Diagnosis
			-
637.81	Abortion, unspecified as to legality, incomplete, with unspecified complication	ICD-9-CM	Diagnosis
637.82	Abortion, unspecified as to legality, complete, with unspecified complication	ICD-9-CM	Diagnosis
637.9	Abortion, unspecified as to legality, without mention of complication	ICD-9-CM	Diagnosis
637.90	Unspecified type of abortion, unspecified as to completion or legality, without mention of complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
637.91	Abortion, unspecified as to legality, incomplete, without mention of complication	ICD-9-CM	Diagnosis
			0
637.92	Abortion, unspecified as to legality, complete, without mention of complication	ICD-9-CM	Diagnosis
638	Failed attempted abortion	ICD-9-CM	Diagnosis
638.0	Failed attempted abortion complicated by genital tract and pelvic infection	ICD-9-CM	Diagnosis
638.1	Failed attempted abortion complicated by delayed or excessive hemorrhage	ICD-9-CM	Diagnosis
638.2	Failed attempted abortion complicated by damage to pelvic organs or tissues	ICD-9-CM	Diagnosis
638.3	Failed attempted abortion complicated by renal failure	ICD-9-CM	Diagnosis
638.4	Failed attempted abortion complicated by metabolic disorder	ICD-9-CM	Diagnosis
638.5	Failed attempted abortion complicated by shock	ICD-9-CM	Diagnosis
638.6	Failed attempted abortion complicated by embolism	ICD-9-CM	Diagnosis
638.7	Failed attempted abortion with other specified complication	ICD-9-CM	Diagnosis
638.8	Failed attempted abortion with unspecified complication	ICD-9-CM	Diagnosis
638.9	Failed attempted abortion without mention of complication	ICD-9-CM	Diagnosis
639	Complications following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.0	Genital tract and pelvic infection following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.1	Delayed or excessive hemorrhage following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.2	Damage to pelvic organs and tissues following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.3	Complications following abortion and ectopic and molar pregnancies, kidney failure	ICD-9-CM	Diagnosis
639.4	Metabolic disorders following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.5	Shock following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.6	Embolism following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.8	Other specified complication following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
639.9	Unspecified complication following abortion or ectopic and molar pregnancies	ICD-9-CM	Diagnosis
640	Hemorrhage in early pregnancy	ICD-9-CM	Diagnosis
640.0	Threatened abortion	ICD-9-CM	Diagnosis
640.00	Threatened abortion, unspecified as to episode of care	ICD-9-CM	Diagnosis
640.01	Threatened abortion, delivered	ICD-9-CM	Diagnosis
640.03	Threatened abortion, antepartum	ICD-9-CM	Diagnosis
640.8	Other specified hemorrhage in early pregnancy	ICD-9-CM	Diagnosis
640.80	Other specified hemorrhage in early pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
640.81	Other specified hemorrhage in early pregnancy, delivered	ICD-9-CM	Diagnosis
640.83	Other specified hemorrhage in early pregnancy, antepartum	ICD-9-CM	Diagnosis
640.9	Unspecified hemorrhage in early pregnancy	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
640.90	Unspecified hemorrhage in early pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
640.91	Unspecified hemorrhage in early pregnancy, delivered	ICD-9-CM	Diagnosis
640.93	Unspecified hemorrhage in early pregnancy, antepartum	ICD-9-CM	Diagnosis
641	Antepartum hemorrhage, abruptio placentae, and placenta previa	ICD-9-CM	Diagnosis
641.0	Placenta previa without hemorrhage	ICD-9-CM	Diagnosis
641.00	Placenta previa without hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.01	Placenta previa without hemorrhage, with delivery	ICD-9-CM	Diagnosis
641.03	Placenta previa without hemorrhage, antepartum	ICD-9-CM	Diagnosis
641.1	Hemorrhage from placenta previa	ICD-9-CM	Diagnosis
641.10	Hemorrhage from placenta previa, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.11	Hemorrhage from placenta previa, with delivery	ICD-9-CM	Diagnosis
641.13	Hemorrhage from placenta previa, antepartum	ICD-9-CM	Diagnosis
641.2	Premature separation of placenta	ICD-9-CM	Diagnosis
641.20	Premature separation of placenta, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.21	Premature separation of placenta, with delivery	ICD-9-CM	Diagnosis
641.23	Premature separation of placenta, antepartum	ICD-9-CM	Diagnosis
641.3	Antepartum hemorrhage associated with coagulation defects	ICD-9-CM	Diagnosis
641.30	Antepartum hemorrhage associated with coagulation defects, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.31	Antepartum hemorrhage associated with coagulation defects, with delivery	ICD-9-CM	Diagnosis
641.33	Antepartum hemorrhage associated with coagulation defect, antepartum	ICD-9-CM	Diagnosis
641.8	Other antepartum hemorrhage	ICD-9-CM	Diagnosis
641.80	Other antepartum hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.81	Other antepartum hemorrhage, with delivery	ICD-9-CM	Diagnosis
641.83	Other antepartum hemorrhage, antepartum	ICD-9-CM	Diagnosis
641.9	Unspecified antepartum hemorrhage	ICD-9-CM	Diagnosis
641.90	Unspecified antepartum hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
641.91	Unspecified antepartum hemorrhage, with delivery	ICD-9-CM	Diagnosis
641.93	Unspecified antepartum hemorrhage, antepartum	ICD-9-CM	Diagnosis
642	Hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM	Diagnosis
642.0	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM	Diagnosis
642.00	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.01	Benign essential hypertension with delivery	ICD-9-CM	Diagnosis
642.02	Benign essential hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
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642.03	Benign essential hypertension antepartum	ICD-9-CM	Diagnosis
642.04	Benign essential hypertension, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
642.1	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
642.10	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and	ICD-9-CM	Diagnosis
	the puerperium, unspecified as to episode of care		
642.11	Hypertension secondary to renal disease, with delivery	ICD-9-CM	Diagnosis
642.12	Hypertension secondary to renal disease, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
642.13	Hypertension secondary to renal disease, antepartum	ICD-9-CM	Diagnosis
642.14	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and	ICD-9-CM	Diagnosis
	the puerperium, postpartum condition or complication		
642.2	Other pre-existing hypertension complicating pregnancy, childbirth, and the	ICD-9-CM	Diagnosis
	puerperium		
642.20	Other pre-existing hypertension complicating pregnancy, childbirth, and the	ICD-9-CM	Diagnosis
	puerperium, unspecified as to episode of care		
642.21	Other pre-existing hypertension, with delivery	ICD-9-CM	Diagnosis
642.22	Other pre-existing hypertension, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
642.23	Other pre-existing hypertension, antepartum	ICD-9-CM	Diagnosis
642.24	Other pre-existing hypertension complicating pregnancy, childbirth, and the	ICD-9-CM	Diagnosis
	puerperium, postpartum condition or complication		
642.3	Transient hypertension of pregnancy	ICD-9-CM	Diagnosis
642.30	Transient hypertension of pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.31	Transient hypertension of pregnancy, with delivery	ICD-9-CM	Diagnosis
642.32	Transient hypertension of pregnancy, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
642.33	Transient hypertension of pregnancy, antepartum	ICD-9-CM	Diagnosis
642.34	Transient hypertension of pregnancy, postpartum condition or complication	ICD-9-CM	Diagnosis
642.4	Mild or unspecified pre-eclampsia	ICD-9-CM	Diagnosis
642.40	Mild or unspecified pre-eclampsia, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.41	Mild or unspecified pre-eclampsia, with delivery	ICD-9-CM	Diagnosis
642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
642.43	Mild or unspecified pre-eclampsia, antepartum	ICD-9-CM	Diagnosis
642.44	Mild or unspecified pre-eclampsia, postpartum condition or complication	ICD-9-CM	Diagnosis
642.5	Severe pre-eclampsia	ICD-9-CM	Diagnosis
642.50	Severe pre-eclampsia, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.51	Severe pre-eclampsia, with delivery	ICD-9-CM	Diagnosis
642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.53	Severe pre-eclampsia, antepartum	ICD-9-CM	Diagnosis
642.54	Severe pre-eclampsia, postpartum condition or complication	ICD-9-CM	Diagnosis
642.6	Eclampsia complicating pregnancy, childbirth or the puerperium	ICD-9-CM	Diagnosis
642.60	Eclampsia complicating pregnancy, childbirth or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.61	Eclampsia, with delivery	ICD-9-CM	Diagnosis
642.62	Eclampsia, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.63	Eclampsia, antepartum	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
642.64	Eclampsia, postpartum condition or complication	ICD-9-CM	Diagnosis
642.7	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension	ICD-9-CM	Diagnosis
642.70	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	ICD-9-CM	Diagnosis
642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.73	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, antepartum	ICD-9-CM	Diagnosis
642.74	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, postpartum condition or complication	ICD-9-CM	Diagnosis
642.9	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
642.90	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
642.91	Unspecified hypertension, with delivery	ICD-9-CM	Diagnosis
642.92	Unspecified hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.93	Unspecified hypertension antepartum	ICD-9-CM	Diagnosis
642.94	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
643	Excessive vomiting in pregnancy	ICD-9-CM	Diagnosis
643.0	Mild hyperemesis gravidarum	ICD-9-CM	Diagnosis
643.00	Mild hyperemesis gravidarum, unspecified as to episode of care	ICD-9-CM	Diagnosis
643.01	Mild hyperemesis gravidarum, delivered	ICD-9-CM	Diagnosis
643.03	Mild hyperemesis gravidarum, antepartum	ICD-9-CM	Diagnosis
643.1	Hyperemesis gravidarum with metabolic disturbance	ICD-9-CM	Diagnosis
643.10	Hyperemesis gravidarum with metabolic disturbance, unspecified as to episode of care	ICD-9-CM	Diagnosis
643.11	Hyperemesis gravidarum with metabolic disturbance, delivered	ICD-9-CM	Diagnosis
643.13	Hyperemesis gravidarum with metabolic disturbance, antepartum	ICD-9-CM	Diagnosis
643.2	Late vomiting of pregnancy	ICD-9-CM	Diagnosis
643.20	Late vomiting of pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
643.21	Late vomiting of pregnancy, delivered	ICD-9-CM	Diagnosis
643.23	Late vomiting of pregnancy, antepartum	ICD-9-CM	Diagnosis
643.8	Other vomiting complicating pregnancy	ICD-9-CM	Diagnosis
643.80	Other vomiting complicating pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
643.81	Other vomiting complicating pregnancy, delivered	ICD-9-CM	Diagnosis
643.83	Other vomiting complicating pregnancy, antepartum	ICD-9-CM	Diagnosis
643.9	Unspecified vomiting of pregnancy	ICD-9-CM	Diagnosis
643.90	Unspecified vomiting of pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
643.91	Unspecified vomiting of pregnancy, delivered	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
643.93	Unspecified vomiting of pregnancy, antepartum	ICD-9-CM	Diagnosis
644	Early or threatened labor	ICD-9-CM	Diagnosis
644.0	Threatened premature labor	ICD-9-CM	Diagnosis
644.00	Threatened premature labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
644.03	Threatened premature labor, antepartum	ICD-9-CM	Diagnosis
644.1	Other threatened labor	ICD-9-CM	Diagnosis
644.10	Other threatened labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
644.13	Other threatened labor, antepartum	ICD-9-CM	Diagnosis
644.2	Early onset of delivery	ICD-9-CM	Diagnosis
644.20	Early onset of delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
644.21	Early onset of delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645	Late pregnancy	ICD-9-CM	Diagnosis
645.0	Prolonged pregnancy	ICD-9-CM	Diagnosis
645.00	Prolonged pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
645.01	Prolonged pregnancy, with delivery	ICD-9-CM	Diagnosis
645.03	Prolonged pregnancy, antepartum	ICD-9-CM	Diagnosis
645.1	Post term pregnancy	ICD-9-CM	Diagnosis
645.10	Post term pregnancy, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
645.11	Post term pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645.13	Post term pregnancy, antepartum condition or complication	ICD-9-CM	Diagnosis
645.15 645.2	Prolonged pregnancy		Diagnosis
		ICD-9-CM	Diagnosis
645.20	Prolonged pregnancy, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
645.21	Prolonged pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645.23	Prolonged pregnancy, antepartum condition or complication	ICD-9-CM	Diagnosis
646	Other complications of pregnancy, not elsewhere classified	ICD-9-CM	Diagnosis
646.0	Papyraceous fetus	ICD-9-CM	Diagnosis
646.00	Papyraceous fetus, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.01	Papyraceous fetus, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
646.03	Papyraceous fetus, antepartum	ICD-9-CM	Diagnosis
646.1	Edema or excessive weight gain in pregnancy, without mention of hypertension	ICD-9-CM	Diagnosis
646.10	Edema or excessive weight gain in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.11	Edema or excessive weight gain in pregnancy, with delivery, with or without mention of antepartum complication	ICD-9-CM	Diagnosis
646.12	Edema or excessive weight gain in pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
646.13	Edema or excessive weight gain, antepartum	ICD-9-CM	Diagnosis
646.14	Edema or excessive weight gain in pregnancy, without mention of hypertension,	ICD-9-CM	Diagnosis
	postpartum condition or complication		



Code	Description	Code Type	Code Category
646.2	Unspecified renal disease in pregnancy, without mention of hypertension	ICD-9-CM	Diagnosis
646.20	Unspecified renal disease in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.21	Unspecified renal disease in pregnancy, with delivery	ICD-9-CM	Diagnosis
646.22	Unspecified renal disease in pregnancy, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
646.23	Unspecified antepartum renal disease	ICD-9-CM	Diagnosis
646.24	Unspecified renal disease in pregnancy, without mention of hypertension,	ICD-9-CM	Diagnosis
	postpartum condition or complication		
646.3	Pregnancy complication, recurrent pregnancy loss	ICD-9-CM	Diagnosis
646.30	Pregnancy complication, recurrent pregnancy loss, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.31	Pregnancy complication, recurrent pregnancy loss, with or without mention of	ICD-9-CM	Diagnosis
	antepartum condition		
646.33	Pregnancy complication, recurrent pregnancy loss, antepartum condition or	ICD-9-CM	Diagnosis
	complication		
646.4	Peripheral neuritis in pregnancy	ICD-9-CM	Diagnosis
646.40	Peripheral neuritis in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.41	Peripheral neuritis in pregnancy, with delivery	ICD-9-CM	Diagnosis
646.42	Peripheral neuritis in pregnancy, with delivery, with current postpartum	ICD-9-CM	Diagnosis
	complication		
646.43	Peripheral neuritis antepartum	ICD-9-CM	Diagnosis
646.44	Peripheral neuritis in pregnancy, postpartum condition or complication	ICD-9-CM	Diagnosis
646.5	Asymptomatic bacteriuria in pregnancy	ICD-9-CM	Diagnosis
646.50	Asymptomatic bacteriuria in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.51	Asymptomatic bacteriuria in pregnancy, with delivery	ICD-9-CM	Diagnosis
646.52	Asymptomatic bacteriuria in pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
646.53	Asymptomatic bacteriuria antepartum	ICD-9-CM	Diagnosis
646.54			Diagnosis
040.54	Asymptomatic bacteriuria in pregnancy, postpartum condition or complication	ICD-9-CM	Diagnosis
646.6	Infections of genitourinary tract in pregnancy	ICD-9-CM	Diagnosis
646.60	Infections of genitourinary tract in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.61	Infections of genitourinary tract in pregnancy, with delivery	ICD-9-CM	Diagnosis
646.62	Infections of genitourinary tract in pregnancy, with delivery, with current	ICD-9-CM	Diagnosis
	postpartum complication		
646.63	Infections of genitourinary tract antepartum	ICD-9-CM	Diagnosis
646.64	Infections of genitourinary tract in pregnancy, postpartum condition or	ICD-9-CM	Diagnosis
	complication		
646.7	Liver and biliary tract disorders in pregnancy	ICD-9-CM	Diagnosis
646.70	Liver and biliary tract disorders in pregnancy, unspecified as to episode of care or	ICD-9-CM	Diagnosis
	not applicable		
646.71	Liver and biliary tract disorders in pregnancy, delivered, with or without mention of	ICD-9-CM	Diagnosis
	antepartum condition		



Code	Description	Code Type	Code Category
646.73	Liver and biliary tract disorders in pregnancy, antepartum condition or complication		Diagnosis
010110			Diagnosis
646.8	Other specified complications of pregnancy	ICD-9-CM	Diagnosis
646.80	Other specified complication of pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.81	Other specified complication of pregnancy, with delivery	ICD-9-CM	Diagnosis
646.82	Other specified complications of pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
646.83	Other specified complication, antepartum	ICD-9-CM	Diagnosis
646.84	Other specified complications of pregnancy, postpartum condition or complication	ICD-9-CM	Diagnosis
646.9	Unspecified complication of pregnancy	ICD-9-CM	Diagnosis
646.90	Unspecified complication of pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
646.91	Unspecified complication of pregnancy, with delivery	ICD-9-CM	Diagnosis
646.93	Unspecified complication of pregnancy, antepartum	ICD-9-CM	Diagnosis
647	Infectious and parasitic conditions in the mother classifiable elsewhere, but complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.0	Maternal syphilis complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.00	Maternal syphilis, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.01	Maternal syphilis, complicating pregnancy, with delivery	ICD-9-CM	Diagnosis
647.02	Maternal syphilis, complicating pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.03	Maternal syphilis, antepartum	ICD-9-CM	Diagnosis
647.04	Maternal syphilis complicating pregnancy, childbrith, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.1	Maternal gonorrhea complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.10	Maternal gonorrhea complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.11	Maternal gonorrhea with delivery	ICD-9-CM	Diagnosis
647.12	Maternal gonorrhea, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.13	Maternal gonorrhea, antepartum	ICD-9-CM	Diagnosis
647.14	Maternal gonorrhea complicating pregnancy, childbrith, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.2	Other maternal venereal diseases complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.20	Other maternal venereal diseases, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.21	Other maternal venereal diseases with delivery	ICD-9-CM	Diagnosis
647.22	Other maternal venereal diseases with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.23	Other maternal venereal diseases, antepartum condition or complication	ICD-9-CM	Diagnosis
647.24	Other venereal diseases complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
647.3	Maternal tuberculosis complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.30	Maternal tuberculosis complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.31	Maternal tuberculosis with delivery	ICD-9-CM	Diagnosis
647.32	Maternal tuberculosis with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.33	Maternal tuberculosis, antepartum	ICD-9-CM	Diagnosis
647.34	Maternal tuberculosis complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.4	Maternal malaria complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.40	Maternal malaria complicating pregnancy, childbirth or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.41	Maternal malaria with delivery	ICD-9-CM	Diagnosis
647.42	Maternal malaria with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.43	Maternal malaria, antepartum	ICD-9-CM	Diagnosis
647.44	Maternal malaria, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.5	Maternal rubella complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.50	Maternal rubella complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.51	Maternal rubella with delivery	ICD-9-CM	Diagnosis
647.52	Maternal rubella with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.53	Maternal rubella, antepartum	ICD-9-CM	Diagnosis
647.54	Maternal rubella complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.6	Other maternal viral disease complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.60	Other maternal viral disease complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.61	Other maternal viral disease with delivery	ICD-9-CM	Diagnosis
647.62	Other maternal viral disease with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.63	Other maternal viral disease, antepartum	ICD-9-CM	Diagnosis
647.64	Other maternal viral diseases complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.8	Other specified maternal infectious and parasitic disease complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.80	Other specified maternal infectious and parasitic disease complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.81	Other specified maternal infectious and parasitic disease with delivery	ICD-9-CM	Diagnosis
647.82	Other specified maternal infectious and parasitic disease with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.83	Other specified maternal infectious and parasitic disease, antepartum	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
647.84	Other specified maternal infectious and parasitic diseases complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
647.9	Unspecified maternal infection or infestation complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
647.90	Unspecified maternal infection or infestation complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
647.91	Unspecified maternal infection or infestation with delivery	ICD-9-CM	Diagnosis
647.92	Unspecified maternal infection or infestation with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
647.93	Unspecified maternal infection or infestation, antepartum	ICD-9-CM	Diagnosis
647.94	Unspecified maternal infection or infestation complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648	Other current conditions in the mother classifiable elsewhere, but complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.0	Maternal diabetes mellitus complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.00	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.01	Maternal diabetes mellitus with delivery	ICD-9-CM	Diagnosis
648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.03	Maternal diabetes mellitus, antepartum	ICD-9-CM	Diagnosis
648.04	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.1	Thyroid dysfunction complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.10	Maternal thyroid dysfunction complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
648.11	Maternal thyroid dysfunction with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
648.12	Maternal thyroid dysfunction with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.13	Maternal thyroid dysfunction, antepartum condition or complication	ICD-9-CM	Diagnosis
648.14	Maternal thyroid dysfunction complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.2	Maternal anemia complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.20	Maternal anemia of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.21	Maternal anemia, with delivery	ICD-9-CM	Diagnosis
648.22	Maternal anemia with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.23	Maternal anemia, antepartum	ICD-9-CM	Diagnosis
648.24	Maternal anemia complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
648.3	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.30	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.31	Maternal drug dependence, with delivery	ICD-9-CM	Diagnosis
648.32	Maternal drug dependence, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.33	Maternal drug dependence, antepartum	ICD-9-CM	Diagnosis
648.34	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.4	Maternal mental disorders complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.40	Maternal mental disorders, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.41	Maternal mental disorders, with delivery	ICD-9-CM	Diagnosis
648.42	Maternal mental disorders, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
<i></i>			.
648.43	Maternal mental disorders, antepartum	ICD-9-CM	Diagnosis
648.44	Maternal mental disorders complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.5	Maternal congenital cardiovascular disorders complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.50	Maternal congenital cardiovascular disorders, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.51	Maternal congenital cardiovascular disorders, with delivery	ICD-9-CM	Diagnosis
648.52	Maternal congenital cardiovascular disorders, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.53	Maternal congenital cardiovascular disorders, antepartum	ICD-9-CM	Diagnosis
648.54	Maternal congenital cardiovascular disorders complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.6	Other maternal cardiovascular diseases complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.60	Other maternal cardiovascular diseases complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.61	Other maternal cardiovascular diseases, with delivery	ICD-9-CM	Diagnosis
648.62	Other maternal cardiovascular diseases, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.63	Other maternal cardiovascular diseases, antepartum	ICD-9-CM	Diagnosis
648.64	Other maternal cardiovascular diseases complicating pregnancy, childbirth, or the	ICD-9-CM	Diagnosis
	puerperium, postpartum condition or complication		
648.7	Bone and joint disorders of maternal back, pelvis, and lower limbs, complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
648.70	Bone and joint disorders of maternal back, pelvis, and lower limbs, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.71	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery	ICD-9-CM	Diagnosis
648.72	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.73	Bone and joint disorders of maternal back, pelvis, and lower limbs, antepartum	ICD-9-CM	Diagnosis
648.74	Bone and joint disorders of maternal back, pelvis, and lower limbs complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.8	Abnormal maternal glucose tolerance, complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.80	Abnormal maternal glucose tolerance, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.81	Abnormal maternal glucose tolerance, with delivery	ICD-9-CM	Diagnosis
648.82	Abnormal maternal glucose tolerance, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.83	Abnormal maternal glucose tolerance, antepartum	ICD-9-CM	Diagnosis
648.84	Abnormal maternal glucose tolerance complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
648.9	Other current maternal conditions complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
648.90	Other current maternal conditions classifiable elsewhere, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
648.91	Other current maternal conditions classifiable elsewhere, with delivery	ICD-9-CM	Diagnosis
648.92	Other current maternal conditions classifiable elsewhere, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
648.93	Other current maternal conditions classifiable elsewhere, antepartum	ICD-9-CM	Diagnosis
648.94	Other current maternal conditions classifiable elsewhere complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
649	Other conditions or status of the mother complicating pregnancy, childbirth, or puerperium	ICD-9-CM	Diagnosis
649.0	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
649.00	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.03	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
649.04	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium,	ICD-9-CM	Diagnosis
	postpartum condition or complication		
649.1	Obesity complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
649.10	Obesity complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.13	Obesity complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	ICD-9-CM	Diagnosis
649.14	Obesity complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
649.2	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
649.20	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.23	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	ICD-9-CM	Diagnosis
649.24	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
649.3	Coagulation defects complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
649.30	Coagulation defects complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.31	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.32	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.33	Coagulation defects complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	ICD-9-CM	Diagnosis
649.34	Coagulation defects complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
649.4	Epilepsy complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
649.40	Epilepsy complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
649.43	Epilepsy complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	ICD-9-CM	Diagnosis
649.44	Epilepsy complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
649.5	Spotting complicating pregnancy	ICD-9-CM	Diagnosis
649.50	Spotting complicating pregnancy, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.53	Spotting complicating pregnancy, antepartum condition or complication	ICD-9-CM	Diagnosis
649.6	Uterine size date discrepancy	ICD-9-CM	Diagnosis
649.60	Uterine size date discrepancy, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.61	Uterine size date discrepancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.62	Uterine size date discrepancy, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.63	Uterine size date discrepancy, antepartum condition or complication	ICD-9-CM	Diagnosis
649.64	Uterine size date discrepancy, postpartum condition or complication	ICD-9-CM	Diagnosis
649.7	Cervical shortening	ICD-9-CM	Diagnosis
649.70	Cervical shortening, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
649.71	Cervical shortening, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.73	Cervical shortening, antepartum condition or complication	ICD-9-CM	Diagnosis
649.8	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section	ICD-9-CM	Diagnosis
649.81	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.82	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
650	Normal delivery	ICD-9-CM	Diagnosis
651	Multiple gestation	ICD-9-CM	Diagnosis
651.0	Twin pregnancy	ICD-9-CM	Diagnosis
651.00	Twin pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
651.01	Twin pregnancy, delivered	ICD-9-CM	Diagnosis
651.03	Twin pregnancy, antepartum	ICD-9-CM	Diagnosis
651.1	Triplet pregnancy	ICD-9-CM	Diagnosis
651.10	Triplet pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
651.11	Triplet pregnancy, delivered	ICD-9-CM	Diagnosis
651.13	Triplet pregnancy, antepartum	ICD-9-CM	Diagnosis
651.2	Quadruplet pregnancy	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
651.20	Quadruplet pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
651.21	Quadruplet pregnancy, delivered	ICD-9-CM	Diagnosis
651.23	Quadruplet pregnancy, antepartum	ICD-9-CM	Diagnosis
651.3	Twin pregnancy with fetal loss and retention of one fetus	ICD-9-CM	Diagnosis
651.30	Twin pregnancy with fetal loss and retention of one fetus, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
651.31	Twin pregnancy with fetal loss and retention of one fetus, delivered	ICD-9-CM	Diagnosis
651.33	Twin pregnancy with fetal loss and retention of one fetus, antepartum	ICD-9-CM	Diagnosis
651.4	Triplet pregnancy with fetal loss and retention of one or more	ICD-9-CM	Diagnosis
651.40	Triplet pregnancy with fetal loss and retention of one or more, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
651.41	Triplet pregnancy with fetal loss and retention of one or more, delivered	ICD-9-CM	Diagnosis
651.43	Triplet pregnancy with fetal loss and retention of one or more, antepartum	ICD-9-CM	Diagnosis
651.5	Quadruplet pregnancy with fetal loss and retention of one or more	ICD-9-CM	Diagnosis
651.50	Quadruplet pregnancy with fetal loss and retention of one or more, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
651.51	Quadruplet pregnancy with fetal loss and retention of one or more, delivered	ICD-9-CM	Diagnosis
651.53	Quadruplet pregnancy with fetal loss and retention of one or more, antepartum	ICD-9-CM	Diagnosis
651.6	Other multiple pregnancy with fetal loss and retention of one or more fetus(es)	ICD-9-CM	Diagnosis
651.60	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
651.61	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), delivered	ICD-9-CM	Diagnosis
651.63	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), antepartum	ICD-9-CM	Diagnosis
651.7	Multiple gestation following (elective) fetal reduction	ICD-9-CM	Diagnosis
651.70	Multiple gestation following (elective) fetal reduction, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
651.71	Multiple gestation following (elective) fetal reduction, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
651.73	Multiple gestation following (elective) fetal reduction, antepartum condition or complication	ICD-9-CM	Diagnosis
651.8	Other specified multiple gestation	ICD-9-CM	Diagnosis
651.80	Other specified multiple gestation, unspecified as to episode of care	ICD-9-CM	Diagnosis
651.81	Other specified multiple gestation, delivered	ICD-9-CM	Diagnosis
651.83	Other specified multiple gestation, antepartum	ICD-9-CM	Diagnosis
651.9	Unspecified multiple gestation	ICD-9-CM	Diagnosis
651.90	Unspecified multiple gestation, unspecified as to episode of care	ICD-9-CM	Diagnosis
651.91	Unspecified multiple gestation, delivered	ICD-9-CM	Diagnosis
651.93	Unspecified multiple gestation, antepartum	ICD-9-CM	Diagnosis
652	Malposition and malpresentation of fetus	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
652.0	Unstable lie of fetus	ICD-9-CM	Diagnosis
652.00	Unstable lie of fetus, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.01	Unstable lie of fetus, delivered	ICD-9-CM	Diagnosis
652.03	Unstable lie of fetus, antepartum	ICD-9-CM	Diagnosis
652.1	Breech or other malpresentation successfully converted to cephalic presentation	ICD-9-CM	Diagnosis
652.10	Breech or other malpresentation successfully converted to cephalic presentation, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.11	Breech or other malpresentation successfully converted to cephalic presentation, delivered	ICD-9-CM	Diagnosis
652.13	Breech or other malpresentation successfully converted to cephalic presentation, antepartum	ICD-9-CM	Diagnosis
652.2	Breech presentation without mention of version	ICD-9-CM	Diagnosis
652.20	Breech presentation without mention of version, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.21	Breech presentation without mention of version, delivered	ICD-9-CM	Diagnosis
652.23	Breech presentation without mention of version, antepartum	ICD-9-CM	Diagnosis
652.3	Transverse or oblique presentation of fetus	ICD-9-CM	Diagnosis
652.30	Transverse or oblique fetal presentation, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.31	Transverse or oblique fetal presentation, delivered	ICD-9-CM	Diagnosis
652.33	Transverse or oblique fetal presentation, antepartum	ICD-9-CM	Diagnosis
652.4	Fetal face or brow presentation of fetus	ICD-9-CM	Diagnosis
652.40	Fetal face or brow presentation, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.41	Fetal face or brow presentation, delivered	ICD-9-CM	Diagnosis
652.43	Fetal face or brow presentation, antepartum	ICD-9-CM	Diagnosis
652.5	High fetal head at term	ICD-9-CM	Diagnosis
652.50	High fetal head at term, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.51	High fetal head at term, delivered	ICD-9-CM	Diagnosis
652.53	High fetal head at term, antepartum	ICD-9-CM	Diagnosis
652.6	Multiple gestation with malpresentation of one fetus or more	ICD-9-CM	Diagnosis
652.60	Multiple gestation with malpresentation of one fetus or more, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.61	Multiple gestation with malpresentation of one fetus or more, delivered	ICD-9-CM	Diagnosis
652.63	Multiple gestation with malpresentation of one fetus or more, antepartum	ICD-9-CM	Diagnosis
652.7	Prolapsed arm of fetus	ICD-9-CM	Diagnosis
652.70	Prolapsed arm of fetus, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.71	Prolapsed arm of fetus, delivered	ICD-9-CM	Diagnosis
652.73	Prolapsed arm of fetus, antepartum condition or complication	ICD-9-CM	Diagnosis
652.8	Other specified malposition or malpresentation of fetus	ICD-9-CM	Diagnosis
652.80	Other specified malposition or malpresentation of fetus, unspecified as to episode of care	ICD-9-CM	Diagnosis
652.81	Other specified malposition or malpresentation of fetus, delivered	ICD-9-CM	Diagnosis
652.83	Other specified malposition or malpresentation of fetus, antepartum	ICD-9-CM	Diagnosis
652.9	Unspecified malposition or malpresentation of fetus	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
652.90	Unspecified malposition or malpresentation of fetus, unspecified as to episode of	ICD-9-CM	Diagnosis
	care		
652.91	Unspecified malposition or malpresentation of fetus, delivered	ICD-9-CM	Diagnosis
652.93	Unspecified malposition or malpresentation of fetus, antepartum	ICD-9-CM	Diagnosis
653	Disproportion in pregnancy, labor, and delivery	ICD-9-CM	Diagnosis
653.0	Major abnormality of bony pelvis, not further specified, in pregnancy	ICD-9-CM	Diagnosis
653.00	Major abnormality of bony pelvis, not further specified in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.01	Major abnormality of bony pelvis, not further specified, delivered	ICD-9-CM	Diagnosis
653.03	Major abnormality of bony pelvis, not further specified, antepartum	ICD-9-CM	Diagnosis
653.1	Generally contracted pelvis in pregnancy	ICD-9-CM	Diagnosis
653.10	Generally contracted pelvis in pregnancy, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
653.11	Generally contracted pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.13	Generally contracted pelvis in pregnancy, antepartum	ICD-9-CM	Diagnosis
653.2	Inlet contraction of pelvis in pregnancy	ICD-9-CM	Diagnosis
653.20	Inlet contraction of pelvis in pregnancy, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
653.21	Inlet contraction of pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.23	Inlet contraction of pelvis in pregnancy, antepartum	ICD-9-CM	Diagnosis
653.3	Outlet contraction of pelvis in pregnancy	ICD-9-CM	Diagnosis
653.30	Outlet contraction of pelvis in pregnancy, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
653.31	Outlet contraction of pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.33	Outlet contraction of pelvis in pregnancy, antepartum	ICD-9-CM	Diagnosis
653.4	Fetopelvic disproportion	ICD-9-CM	Diagnosis
653.40	Fetopelvic disproportion, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.41	Fetopelvic disproportion, delivered	ICD-9-CM	Diagnosis
653.43	Fetopelvic disproportion, antepartum	ICD-9-CM	Diagnosis
653.5	Unusually large fetus causing disproportion	ICD-9-CM	Diagnosis
653.50	Unusually large fetus causing disproportion, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.51	Unusually large fetus causing disproportion, delivered	ICD-9-CM	Diagnosis
653.53	Unusually large fetus causing disproportion, antepartum	ICD-9-CM	Diagnosis
653.6	Hydrocephalic fetus causing disproportion	ICD-9-CM	Diagnosis
653.60	Hydrocephalic fetus causing disproportion, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.61	Hydrocephalic fetus causing disproportion, delivered	ICD-9-CM	Diagnosis
653.63	Hydrocephalic fetus causing disproportion, antepartum	ICD-9-CM	Diagnosis
653.7	Other fetal abnormality causing disproportion	ICD-9-CM	Diagnosis
653.70	Other fetal abnormality causing disproportion, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.71	Other fetal abnormality causing disproportion, delivered	ICD-9-CM	Diagnosis
653.73	Other fetal abnormality causing disproportion, antepartum	ICD-9-CM	Diagnosis
653.8	Fetal disproportion of other origin	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
653.80	Fetal disproportion of other origin, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.81	Fetal disproportion of other origin, delivered	ICD-9-CM	Diagnosis
653.83	Fetal disproportion of other origin, antepartum	ICD-9-CM	Diagnosis
653.9	Unspecified fetal disproportion	ICD-9-CM	Diagnosis
653.90	Unspecified fetal disproportion, unspecified as to episode of care	ICD-9-CM	Diagnosis
653.91	Unspecified fetal disproportion, delivered	ICD-9-CM	Diagnosis
653.93	Unspecified fetal disproportion, antepartum	ICD-9-CM	Diagnosis
654	Abnormality of organs and soft tissues of pelvis complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.0	Congenital abnormalities of pregnant uterus complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.00	Congenital abnormalities of pregnant uterus, unspecified as to episode of care	ICD-9-CM	Diagnosis
654.01	Congenital abnormalities of pregnant uterus, delivered	ICD-9-CM	Diagnosis
654.02	Congenital abnormalities of pregnant uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.03	Congenital abnormalities of pregnant uterus, antepartum	ICD-9-CM	Diagnosis
654.04	Congenital abnormalities of uterus, postpartum condition or complication	ICD-9-CM	Diagnosis
654.1	Tumors of body of pregnant uterus	ICD-9-CM	Diagnosis
654.10	Tumors of body of pregnant uterus, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.11	Tumors of body of uterus, delivered	ICD-9-CM	Diagnosis
654.12	Tumors of body of uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.13	Tumors of body of uterus, antepartum condition or complication	ICD-9-CM	Diagnosis
654.14	Tumors of body of uterus, postpartum condition or complication	ICD-9-CM	Diagnosis
654.2	Previous cesarean section complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.20	Previous cesarean delivery, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
654.21	Previous cesarean delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
654.23	Previous cesarean delivery, antepartum condition or complication	ICD-9-CM	Diagnosis
654.3	Retroverted and incarcerated gravid uterus	ICD-9-CM	Diagnosis
654.30	Retroverted and incarcerated gravid uterus, unspecified as to episode of care	ICD-9-CM	Diagnosis
654.31	Retroverted and incarcerated gravid uterus, delivered	ICD-9-CM	Diagnosis
654.32	Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.33	Retroverted and incarcerated gravid uterus, antepartum	ICD-9-CM	Diagnosis
654.34	Retroverted and incarcerated gravid uterus, postpartum condition or complication	ICD-9-CM	Diagnosis
654.4	Other abnormalities in shape or position of gravid uterus and of neighboring structures	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
654.40	Other abnormalities in shape or position of gravid uterus and of neighboring structures, unspecified as to episode of care	ICD-9-CM	Diagnosis
654.41	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered	ICD-9-CM	Diagnosis
654.42	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.43	Other abnormalities in shape or position of gravid uterus and of neighboring structures, antepartum	ICD-9-CM	Diagnosis
654.44	Other abnormalities in shape or position of gravid uterus and of neighboring structures, postpartum condition or complication	ICD-9-CM	Diagnosis
654.5	Cervical incompetence complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.50	Cervical incompetence, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.51	Cervical incompetence, delivered	ICD-9-CM	Diagnosis
654.52	Cervical incompetence, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.53	Cervical incompetence, antepartum condition or complication	ICD-9-CM	Diagnosis
654.54	Cervical incompetence, postpartum condition or complication	ICD-9-CM	Diagnosis
654.6	Other congenital or acquired abnormality of cervix complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.60	Other congenital or acquired abnormality of cervix, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.61	Other congenital or acquired abnormality of cervix, with delivery	ICD-9-CM	Diagnosis
654.62	Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.63	Other congenital or acquired abnormality of cervix, antepartum condition or complication	ICD-9-CM	Diagnosis
654.64	Other congenital or acquired abnormality of cervix, postpartum condition or complication	ICD-9-CM	Diagnosis
654.7	Congenital or acquired abnormality of vagina complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.70	Congenital or acquired abnormality of vagina, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.71	Congenital or acquired abnormality of vagina, with delivery	ICD-9-CM	Diagnosis
654.72	Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.73	Congenital or acquired abnormality of vagina, antepartum condition or complication	ICD-9-CM	Diagnosis
654.74	Congenital or acquired abnormality of vagina, postpartum condition or complication	ICD-9-CM	Diagnosis
654.8	Congenital or acquired abnormality of vulva complicating pregnancy, childbirth, or the puerperium	ICD-9-CM	Diagnosis
654.80	Congenital or acquired abnormality of vulva, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.81	Congenital or acquired abnormality of vulva, with delivery	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
654.82	Congenital or acquired abnormality of vulva, delivered, with mention of postpartum	ICD-9-CM	Diagnosis
	complication		
654.83	Congenital or acquired abnormality of vulva, antepartum condition or complication	ICD-9-CM	Diagnosis
654.84	Congenital or acquired abnormality of vulva, postpartum condition or complication	ICD-9-CM	Diagnosis
654.9	Other and unspecified abnormality of organs and soft tissues of pelvis complicating pregnancy, childbirth, and the puerperium	ICD-9-CM	Diagnosis
654.90	Other and unspecified abnormality of organs and soft tissues of pelvis, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
654.91	Other and unspecified abnormality of organs and soft tissues of pelvis, with delivery	ICD-9-CM	Diagnosis
654.92	Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.93	Other and unspecified abnormality of organs and soft tissues of pelvis, antepartum condition or complication	ICD-9-CM	Diagnosis
654.94	Other and unspecified abnormality of organs and soft tissues of pelvis, postpartum condition or complication	ICD-9-CM	Diagnosis
655	Known or suspected fetal abnormality affecting management of mother	ICD-9-CM	Diagnosis
655.0	Central nervous system malformation in fetus affecting management of mother	ICD-9-CM	Diagnosis
655.00	Central nervous system malformation in fetus, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
655.01	Central nervous system malformation in fetus, with delivery	ICD-9-CM	Diagnosis
655.03	Central nervous system malformation in fetus, antepartum	ICD-9-CM	Diagnosis
655.1	Chromosomal abnormality in fetus affecting management of mother	ICD-9-CM	Diagnosis
655.10	Chromosomal abnormality in fetus, affecting management of mother, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
655.11	Chromosomal abnormality in fetus, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.13	Chromosomal abnormality in fetus, affecting management of mother, antepartum	ICD-9-CM	Diagnosis
655.2	Hereditary disease in family possibly affecting fetus, affecting management of mother	ICD-9-CM	Diagnosis
655.20	Hereditary disease in family possibly affecting fetus, affecting management of mother, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
655.21	Hereditary disease in family possibly affecting fetus, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.23	Hereditary disease in family possibly affecting fetus, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.3	Suspected damage to fetus from viral disease in mother, affecting management of mother	ICD-9-CM	Diagnosis
655.30	Suspected damage to fetus from viral disease in mother, affecting management of mother, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
655.31	Suspected damage to fetus from viral disease in mother, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.33	Suspected damage to fetus from viral disease in mother, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.4	Suspected damage to fetus from other disease in mother, affecting management of mother	ICD-9-CM	Diagnosis
655.40	Suspected damage to fetus from other disease in mother, affecting management of mother, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
655.41	Suspected damage to fetus from other disease in mother, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.43	Suspected damage to fetus from other disease in mother, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.5	Suspected damage to fetus from drugs, affecting management of mother	ICD-9-CM	Diagnosis
655.50	Suspected damage to fetus from drugs, affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
655.51	Suspected damage to fetus from drugs, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.53	Suspected damage to fetus from drugs, affecting management of mother, antepartum	ICD-9-CM	Diagnosis
655.6	Suspected damage to fetus from radiation, affecting management of mother	ICD-9-CM	Diagnosis
655.60	Suspected damage to fetus from radiation, affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
655.61	Suspected damage to fetus from radiation, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.63	Suspected damage to fetus from radiation, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.7	Decreased fetal movements	ICD-9-CM	Diagnosis
655.70	Decreased fetal movements, unspecified as to episode of care	ICD-9-CM	Diagnosis
655.71	Decreased fetal movements, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.73	Decreased fetal movements, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.8	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother	ICD-9-CM	Diagnosis
655.80	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
655.81	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivery	ICD-9-CM	Diagnosis
655.83	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
655.9	Unspecified fetal abnormality affecting management of mother	ICD-9-CM	Diagnosis
655.90	Unspecified fetal abnormality affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
655.91	Unspecified fetal abnormality affecting management of mother, delivery	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
655.93	Unspecified fetal abnormality affecting management of mother, antepartum	ICD-9-CM	Diagnosis
	condition or complication		-
656	Other known or suspected fetal and placental problems affecting management of mother	ICD-9-CM	Diagnosis
656.0	Fetal-maternal hemorrhage affecting management of mother	ICD-9-CM	Diagnosis
656.00	Fetal-maternal hemorrhage, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
656.01	Fetal-maternal hemorrhage, with delivery	ICD-9-CM	Diagnosis
656.03	Fetal-maternal hemorrhage, antepartum condition or complication	ICD-9-CM	Diagnosis
656.1	Rhesus isoimmunization affecting management of mother	ICD-9-CM	Diagnosis
656.10	Rhesus isoimmunization unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
656.11	Rhesus isoimmunization affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.13	Rhesus isoimmunization affecting management of mother, antepartum condition	ICD-9-CM	Diagnosis
656.2	Isoimmunization from other and unspecified blood-group incompatibility affecting management of mother	ICD-9-CM	Diagnosis
656.20	Isoimmunization from other and unspecified blood-group incompatibility, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
656.21	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.23	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.3	Fetal distress affecting management of mother	ICD-9-CM	Diagnosis
656.30	Fetal distress affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.31	Fetal distress affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.33	Fetal distress affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.4	Intrauterine death affecting management of mother	ICD-9-CM	Diagnosis
656.40	Intrauterine death affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.41	Intrauterine death affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.43	Intrauterine death affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.5	Poor fetal growth affecting management of mother	ICD-9-CM	Diagnosis
656.50	Poor fetal growth, affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.51	Poor fetal growth, affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.53	Poor fetal growth, affecting management of mother, antepartum condition or complication	ICD-9-CM	Diagnosis
656.6	Excessive fetal growth affecting management of mother	ICD-9-CM	Diagnosis
656.60	Excessive fetal growth affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.61	Excessive fetal growth affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.63	Excessive fetal growth affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.7	Other placental conditions affecting management of mother	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
656.70	Other placental conditions affecting management of mother, unspecified as to	ICD-9-CM	Diagnosis
	episode of care		
656.71	Other placental conditions affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.73	Other placental conditions affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.8	Other specified fetal and placental problems affecting management of mother	ICD-9-CM	Diagnosis
656.80	Other specified fetal and placental problems affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.81	Other specified fetal and placental problems affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.83	Other specified fetal and placental problems affecting management of mother, antepartum	ICD-9-CM	Diagnosis
656.9	Unspecified fetal and placental problem affecting management of mother	ICD-9-CM	Diagnosis
656.90	Unspecified fetal and placental problem affecting management of mother, unspecified as to episode of care	ICD-9-CM	Diagnosis
656.91	Unspecified fetal and placental problem affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.93	Unspecified fetal and placental problem affecting management of mother, antepartum	ICD-9-CM	Diagnosis
657	Polyhydramnios	ICD-9-CM	Diagnosis
657.0	Polyhydramnios	ICD-9-CM	Diagnosis
657.00	Polyhydramnios, unspecified as to episode of care	ICD-9-CM	Diagnosis
657.01	Polyhydramnios, with delivery	ICD-9-CM	Diagnosis
657.03	Polyhydramnios, antepartum complication	ICD-9-CM	Diagnosis
658	Other problems associated with amniotic cavity and membranes	ICD-9-CM	Diagnosis
658.0	Oligohydramnios	ICD-9-CM	Diagnosis
658.00	Oligohydramnios, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.01	Oligohydramnios, delivered	ICD-9-CM	Diagnosis
658.03	Oligohydramnios, antepartum	ICD-9-CM	Diagnosis
658.1	Premature rupture of membranes in pregnancy	ICD-9-CM	Diagnosis
658.10	Premature rupture of membranes in pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.11	Premature rupture of membranes in pregnancy, delivered	ICD-9-CM	Diagnosis
658.13	Premature rupture of membranes in pregnancy, antepartum	ICD-9-CM	Diagnosis
658.2	Delayed delivery after spontaneous or unspecified rupture of membranes	ICD-9-CM	Diagnosis
658.20	Delayed delivery after spontaneous or unspecified rupture of membranes, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.21	Delayed delivery after spontaneous or unspecified rupture of membranes, delivered	ICD-9-CM	Diagnosis
658.23	Delayed delivery after spontaneous or unspecified rupture of membranes, antepartum	ICD-9-CM	Diagnosis
658.3	Delayed delivery after artificial rupture of membranes	ICD-9-CM	Diagnosis
658.30	Delayed delivery after artificial rupture of membranes, unspecified as to episode of care	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
658.31	Delayed delivery after artificial rupture of membranes, delivered	ICD-9-CM	Diagnosis
658.33	Delayed delivery after artificial rupture of membranes, antepartum	ICD-9-CM	Diagnosis
658.4	Infection of amniotic cavity	ICD-9-CM	Diagnosis
658.40	Infection of amniotic cavity, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.41	Infection of amniotic cavity, delivered	ICD-9-CM	Diagnosis
658.43	Infection of amniotic cavity, antepartum	ICD-9-CM	Diagnosis
658.8	Other problems associated with amniotic cavity and membranes	ICD-9-CM	Diagnosis
658.80	Other problem associated with amniotic cavity and membranes, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.81	Other problem associated with amniotic cavity and membranes, delivered	ICD-9-CM	Diagnosis
658.83	Other problem associated with amniotic cavity and membranes, antepartum	ICD-9-CM	Diagnosis
658.9	Unspecified problem associated with amniotic cavity and membranes	ICD-9-CM	Diagnosis
658.90	Unspecified problem associated with amniotic cavity and membranes, unspecified as to episode of care	ICD-9-CM	Diagnosis
658.91	Unspecified problem associated with amniotic cavity and membranes, delivered	ICD-9-CM	Diagnosis
658.93	Unspecified problem associated with amniotic cavity and membranes, antepartum	ICD-9-CM	Diagnosis
659	Other indications for care or intervention related to labor and delivery, not elsewhere classified	ICD-9-CM	Diagnosis
659.0	Failed mechanical induction of labor	ICD-9-CM	Diagnosis
659.00	Failed mechanical induction of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.01	Failed mechanical induction of labor, delivered	ICD-9-CM	Diagnosis
659.03	Failed mechanical induction of labor, antepartum	ICD-9-CM	Diagnosis
659.1	Failed medical or unspecified induction of labor	ICD-9-CM	Diagnosis
659.10	Failed medical or unspecified induction of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.11	Failed medical or unspecified induction of labor, delivered	ICD-9-CM	Diagnosis
659.13	Failed medical or unspecified induction of labor, antepartum	ICD-9-CM	Diagnosis
659.2	Maternal pyrexia during labor, unspecified	ICD-9-CM	Diagnosis
659.20	Unspecified maternal pyrexia during labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.21	Unspecified maternal pyrexia during labor, delivered	ICD-9-CM	Diagnosis
659.23	Unspecified maternal pyrexia, antepartum	ICD-9-CM	Diagnosis
659.3	Generalized infection during labor	ICD-9-CM	Diagnosis
659.30	Generalized infection during labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.31	Generalized infection during labor, delivered	ICD-9-CM	Diagnosis
659.33	Generalized infection during labor, antepartum	ICD-9-CM	Diagnosis
659.4	Grand multiparity, with current pregnancy	ICD-9-CM	Diagnosis
659.40	Grand multiparity with current pregnancy, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.41	Grand multiparity, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
659.43	Grand multiparity with current pregnancy, antepartum	ICD-9-CM	Diagnosis
659.5	Elderly primigravida	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
659.50	Elderly primigravida, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.51	Elderly primigravida, delivered	ICD-9-CM	Diagnosis
659.53	Elderly primigravida, antepartum	ICD-9-CM	Diagnosis
659.6	Elderly multigravida	ICD-9-CM	Diagnosis
659.60	Elderly multigravida, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
659.61	Elderly multigravida, delivered, with mention of antepartum condition	ICD-9-CM	Diagnosis
659.63	Elderly multigravida, with antepartum condition or complication	ICD-9-CM	Diagnosis
659.7	Abnormality in fetal heart rate or rhythm	ICD-9-CM	Diagnosis
659.70	Abnormality in fetal heart rate or rhythm, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
659.71	Abnormality in fetal heart rate or rhythm, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
659.73	Abnormality in fetal heart rate or rhythm, antepartum condition or complication	ICD-9-CM	Diagnosis
659.8	Other specified indications for care or intervention related to labor and delivery	ICD-9-CM	Diagnosis
659.80	Other specified indication for care or intervention related to labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.81	Other specified indication for care or intervention related to labor and delivery, delivered	ICD-9-CM	Diagnosis
659.83	Other specified indication for care or intervention related to labor and delivery, antepartum	ICD-9-CM	Diagnosis
659.9	Unspecified indication for care or intervention related to labor and delivery	ICD-9-CM	Diagnosis
659.90	Unspecified indication for care or intervention related to labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
659.91	Unspecified indication for care or intervention related to labor and delivery, delivered	ICD-9-CM	Diagnosis
659.93	Unspecified indication for care or intervention related to labor and delivery, antepartum	ICD-9-CM	Diagnosis
660	Obstructed labor	ICD-9-CM	Diagnosis
660.0	Obstruction caused by malposition of fetus at onset of labor	ICD-9-CM	Diagnosis
660.00	Obstruction caused by malposition of fetus at onset of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.01	Obstruction caused by malposition of fetus at onset of labor, delivered	ICD-9-CM	Diagnosis
660.03	Obstruction caused by malposition of fetus at onset of labor, antepartum	ICD-9-CM	Diagnosis
660.1	Obstruction by bony pelvis during labor and delivery	ICD-9-CM	Diagnosis
660.10	Obstruction by bony pelvis during labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.11	Obstruction by bony pelvis during labor and delivery, delivered	ICD-9-CM	Diagnosis
660.13	Obstruction by bony pelvis during labor and delivery, antepartum	ICD-9-CM	Diagnosis
660.2	Obstruction by abnormal pelvic soft tissues during labor and delivery	ICD-9-CM	Diagnosis
660.20	Obstruction by abnormal pelvic soft tissues during labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
660.21	Obstruction by abnormal pelvic soft tissues during labor and delivery, delivered	ICD-9-CM	Diagnosis
000.21	obstruction by abnormal pervicisor tissues during labor and delivery, delivered		Diagnosis
660.23	Obstruction by abnormal pelvic soft tissues during labor and delivery, antepartum	ICD-9-CM	Diagnosis
660.3	Deep transverse arrest and persistent occipitoposterior position during labor and delivery	ICD-9-CM	Diagnosis
660.30	Deep transverse arrest and persistent occipitoposterior position during labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.31	Deep transverse arrest and persistent occipitoposterior position during labor and deliver, delivered	ICD-9-CM	Diagnosis
660.33	Deep transverse arrest and persistent occipitoposterior position during labor and delivery, antepartum	ICD-9-CM	Diagnosis
660.4	Shoulder (girdle) dystocia during labor and delivery	ICD-9-CM	Diagnosis
660.40	Shoulder (girdle) dystocia during labor and delivery, unspecified as to episode of	ICD-9-CM	Diagnosis
	care		
660.41	Shoulder (girdle) dystocia during labor and deliver, delivered	ICD-9-CM	Diagnosis
660.43	Shoulder (girdle) dystocia during labor and delivery, antepartum	ICD-9-CM	Diagnosis
660.5	Locked twins	ICD-9-CM	Diagnosis
660.50	Locked twins during labor and delivery, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
660.51	Locked twins, delivered	ICD-9-CM	Diagnosis
660.53	Locked twins, antepartum	ICD-9-CM	Diagnosis
660.6	Unspecified failed trial of labor	ICD-9-CM	Diagnosis
660.60	Unspecified failed trial of labor, unspecified as to episode	ICD-9-CM	Diagnosis
660.61	Unspecified failed trial of labor, delivered	ICD-9-CM	Diagnosis
660.63	Unspecified failed trial of labor, antepartum	ICD-9-CM	Diagnosis
660.7	Unspecified failed forceps or vacuum extractor	ICD-9-CM	Diagnosis
660.70	Unspecified failed forceps or vacuum extractor, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.71	Unspecified failed forceps or vacuum extractor, delivered	ICD-9-CM	Diagnosis
660.73	Failed forceps or vacuum extractor, unspecified, antepartum	ICD-9-CM	Diagnosis
660.8	Other causes of obstructed labor	ICD-9-CM	Diagnosis
660.80	Other causes of obstructed labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.81	Other causes of obstructed labor, delivered	ICD-9-CM	Diagnosis
660.83	Other causes of obstructed labor, antepartum	ICD-9-CM	Diagnosis
660.9	Unspecified obstructed labor	ICD-9-CM	Diagnosis
660.90	Unspecified obstructed labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
660.91	Unspecified obstructed labor, with delivery	ICD-9-CM	Diagnosis
660.93	Unspecified obstructed labor, antepartum	ICD-9-CM	Diagnosis
661	Abnormality of forces of labor	ICD-9-CM	Diagnosis
661.0	Primary uterine inertia	ICD-9-CM	Diagnosis
661.00	Primary uterine inertia, unspecified as to episode of care	ICD-9-CM	Diagnosis
661.01	Primary uterine inertia, with delivery	ICD-9-CM	Diagnosis
661.03	Primary uterine inertia, antepartum	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
661.1	Secondary uterine inertia	ICD-9-CM	Diagnosis
661.10	Secondary uterine inertia, unspecified as to episode of care	ICD-9-CM	Diagnosis
661.11	Secondary uterine inertia, with delivery	ICD-9-CM	Diagnosis
661.13	Secondary uterine inertia, antepartum	ICD-9-CM	Diagnosis
661.2	Other and unspecified uterine inertia	ICD-9-CM	Diagnosis
661.20	Other and unspecified uterine inertia, unspecified as to episode of care	ICD-9-CM	Diagnosis
661.21	Other and unspecified uterine inertia, with delivery	ICD-9-CM	Diagnosis
661.23	Other and unspecified uterine inertia, antepartum	ICD-9-CM	Diagnosis
661.3	Precipitate labor	ICD-9-CM	Diagnosis
661.30	Precipitate labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
661.31	Precipitate labor, with delivery	ICD-9-CM	Diagnosis
661.33	Precipitate labor, antepartum	ICD-9-CM	Diagnosis
661.4	Hypertonic, incoordinate, or prolonged uterine contractions	ICD-9-CM	Diagnosis
661.40	Hypertonic, incoordinate, or prolonged uterine contractions, unspecified as to	ICD-9-CM	Diagnosis
	episode of care		
661.41	Hypertonic, incoordinate, or prolonged uterine contractions, with delivery	ICD-9-CM	Diagnosis
661.43	Hypertonic, incoordinate, or prolonged uterine contractions, antepartum	ICD-9-CM	Diagnosis
661.9	Unspecified abnormality of labor	ICD-9-CM	Diagnosis
661.90	Unspecified abnormality of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
661.91	Unspecified abnormality of labor, with delivery	ICD-9-CM	Diagnosis
661.93	Unspecified abnormality of labor, antepartum	ICD-9-CM	Diagnosis
662	Long labor	ICD-9-CM	Diagnosis
662.0	Prolonged first stage of labor	ICD-9-CM	Diagnosis
662.00	Prolonged first stage of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
662.01	Prolonged first stage of labor, delivered	ICD-9-CM	Diagnosis
662.03	Prolonged first stage of labor, antepartum	ICD-9-CM	Diagnosis
662.1	Unspecified prolonged labor	ICD-9-CM	Diagnosis
662.10	Unspecified prolonged labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
662.11	Unspecified prolonged labor, delivered	ICD-9-CM	Diagnosis
662.13	Unspecified prolonged labor, antepartum	ICD-9-CM	Diagnosis
662.2	Prolonged second stage of labor	ICD-9-CM	Diagnosis
662.20	Prolonged second stage of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
662.21	Prolonged second stage of labor, delivered	ICD-9-CM	Diagnosis
662.23	Prolonged second stage of labor, antepartum	ICD-9-CM	Diagnosis
662.3	Delayed delivery of second twin, triplet, etc.	ICD-9-CM	Diagnosis
662.30	Delayed delivery of second twin, triplet, etc., unspecified as to episode of care	ICD-9-CM	Diagnosis
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662.31	Delayed delivery of second twin, triplet, etc., delivered	ICD-9-CM	Diagnosis
662.33	Delayed delivery of second twin, triplet, etc., antepartum	ICD-9-CM	Diagnosis
663	Umbilical cord complications during labor and delivery	ICD-9-CM	Diagnosis
663.0	Prolapse of cord, complicating labor and delivery	ICD-9-CM	Diagnosis
663.00	Prolapse of cord, complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
663.03	Prolapse of cord, complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.1	Cord around neck, with compression, complicating labor and delivery	ICD-9-CM	Diagnosis
663.10	Cord around neck, with compression, complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.11	Cord around neck, with compression, complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.13	Cord around neck, with compression, complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.2	Other and unspecified cord entanglement, with compression, complicating labor and delivery	ICD-9-CM	Diagnosis
663.20	Other and unspecified cord entanglement, with compression, complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.21	Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.23	Other and unspecified cord entanglement, with compression, complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.3	Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery	ICD-9-CM	Diagnosis
663.30	Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.31	Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.33	Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.4	Short cord complicating labor and delivery	ICD-9-CM	Diagnosis
663.40	Short cord complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.41	Short cord complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.43	Short cord complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.5	Vasa previa complicating labor and delivery	ICD-9-CM	Diagnosis
663.50	Vasa previa complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.51	Vasa previa complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.53	Vasa previa complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.6	Vascular lesions of cord complicating labor and delivery	ICD-9-CM	Diagnosis
663.60	Vascular lesions of cord complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.61	Vascular lesions of cord complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
663.63	Vascular lesions of cord complicating labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.8	Other umbilical cord complications during labor and delivery	ICD-9-CM	Diagnosis
663.80	Other umbilical cord complications during labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
663.81	Other umbilical cord complications during labor and delivery, delivered	ICD-9-CM	Diagnosis
663.83	Other umbilical cord complications during labor and delivery, antepartum	ICD-9-CM	Diagnosis
663.9	Unspecified umbilical cord complication during labor and delivery	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
663.90	Unspecified umbilical cord complication during labor and delivery, unspecified as to	ICD-9-CM	Diagnosis
	episode of care		
663.91	Unspecified umbilical cord complication during labor and delivery, delivered	ICD-9-CM	Diagnosis
663.93	Unspecified umbilical cord complication during labor and delivery, antepartum	ICD-9-CM	Diagnosis
664	Trauma to perineum and vulva during delivery	ICD-9-CM	Diagnosis
664.0	First-degree perineal laceration during delivery	ICD-9-CM	Diagnosis
664.00	First-degree perineal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.01	First-degree perineal laceration, with delivery	ICD-9-CM	Diagnosis
664.04	First-degree perineal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
664.1	Second-degree perineal laceration during delivery	ICD-9-CM	Diagnosis
664.10	Second-degree perineal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.11	Second-degree perineal laceration, with delivery	ICD-9-CM	Diagnosis
664.14	Second-degree perineal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
664.2	Third-degree perineal laceration during delivery	ICD-9-CM	Diagnosis
664.20	Third-degree perineal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.21	Third-degree perineal laceration, with delivery	ICD-9-CM	Diagnosis
664.24	Third-degree perineal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
664.3	Fourth-degree perineal laceration during delivery	ICD-9-CM	Diagnosis
664.30	Fourth-degree perineal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.31	Fourth-degree perineal laceration, with delivery	ICD-9-CM	Diagnosis
664.34	Fourth-degree perineal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
664.4	Unspecified perineal laceration during delivery	ICD-9-CM	Diagnosis
664.40	Unspecified perineal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.41	Unspecified perineal laceration, with delivery	ICD-9-CM	Diagnosis
664.44	Unspecified perineal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
664.5	Vulvar and perineal hematoma during delivery	ICD-9-CM	Diagnosis
664.50	Vulvar and perineal hematoma, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
664.51	Vulvar and perineal hematoma, with delivery	ICD-9-CM	Diagnosis
664.54	Vulvar and perineal hematoma, postpartum condition or complication	ICD-9-CM	Diagnosis
664.6	Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration	ICD-9-CM	Diagnosis
664.60	Anal sphincter tear complicating delivery, not associated with third-degree perineal	ICD-9-CM	Diagnosis
	laceration, unspecified as to episode of care or not applicable		
664.61	Anal sphincter tear complicating delivery, not associated with third-degree perineal	ICD-9-CM	Diagnosis
	laceration, delivered, with or without mention of antepartum condition		



Code	Description	Code Type	Code Category
664.64	Anal sphincter tear complicating delivery, not associated with third-degree perineal	ICD-9-CM	Diagnosis
	laceration, postpartum condition or complication		
664.8	Other specified trauma to perineum and vulva during delivery	ICD-9-CM	Diagnosis
664.80	Other specified trauma to perineum and vulva, unspecified as to episode of care in	ICD-9-CM	Diagnosis
	pregnancy		
664.81	Other specified trauma to perineum and vulva, with delivery	ICD-9-CM	Diagnosis
664.84	Other specified trauma to perineum and vulva, postpartum condition or	ICD-9-CM	Diagnosis
	complication		
664.9	Unspecified trauma to perineum and vulva during delivery	ICD-9-CM	Diagnosis
664.90	Unspecified trauma to perineum and vulva, unspecified as to episode of care in	ICD-9-CM	Diagnosis
	pregnancy		
664.91	Unspecified trauma to perineum and vulva, with delivery	ICD-9-CM	Diagnosis
664.94	Unspecified trauma to perineum and vulva, postpartum condition or complication	ICD-9-CM	Diagnosis
665	Other obstetrical trauma	ICD-9-CM	Diagnosis
665.0	Rupture of uterus before onset of labor	ICD-9-CM	Diagnosis
665.00	Rupture of uterus before onset of labor, unspecified as to episode of care	ICD-9-CM	Diagnosis
665.01	Rupture of uterus before onset of labor, with delivery	ICD-9-CM	Diagnosis
665.03	Rupture of uterus before onset of labor, antepartum	ICD-9-CM	Diagnosis
665.1	Rupture of uterus during and after labor	ICD-9-CM	Diagnosis
665.10	Rupture of uterus during labor, unspecified as to episode	ICD-9-CM	Diagnosis
665.11	Rupture of uterus during labor, with delivery	ICD-9-CM	Diagnosis
665.2	Obstetrical inversion of uterus	ICD-9-CM	Diagnosis
665.20	Inversion of uterus, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
665.22	Inversion of uterus, delivered with postpartum complication	ICD-9-CM	Diagnosis
665.24	Inversion of uterus, postpartum condition or complication	ICD-9-CM	Diagnosis
665.3	Obstetrical laceration of cervix	ICD-9-CM	Diagnosis
665.30	Laceration of cervix, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
665.31	Laceration of cervix, with delivery	ICD-9-CM	Diagnosis
665.34	Laceration of cervix, postpartum condition or complication	ICD-9-CM	Diagnosis
665.4	High vaginal laceration during and after labor	ICD-9-CM	Diagnosis
665.40	High vaginal laceration, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
665.41	High vaginal laceration, with delivery	ICD-9-CM	Diagnosis
665.44	High vaginal laceration, postpartum condition or complication	ICD-9-CM	Diagnosis
665.5	Other obstetrical injury to pelvic organs	ICD-9-CM	Diagnosis
665.50	Other injury to pelvic organs, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
665.51	Other injury to pelvic organs, with delivery	ICD-9-CM	Diagnosis
665.54	Other injury to pelvic organs, postpartum condition or complication	ICD-9-CM	Diagnosis
665.6	Obstetrical damage to pelvic joints and ligaments	ICD-9-CM	Diagnosis
665.60	Damage to pelvic joints and ligaments, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
665.61	Damage to pelvic joints and ligaments, with delivery	ICD-9-CM	Diagnosis
665.64	Damage to pelvic joints and ligaments, postpartum condition or complication	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
665.7	Obstetrical pelvic hematoma	ICD-9-CM	Diagnosis
665.70	Pelvic hematoma, unspecified as to episode of care	ICD-9-CM	Diagnosis
665.71	Pelvic hematoma, with delivery	ICD-9-CM	Diagnosis
665.72	Pelvic hematoma, delivered with postpartum complication	ICD-9-CM	Diagnosis
665.74	Pelvic hematoma, postpartum condition or complication	ICD-9-CM	Diagnosis
665.8	Other specified obstetrical trauma	ICD-9-CM	Diagnosis
665.80	Other specified obstetrical trauma, unspecified as to episode of care	ICD-9-CM	Diagnosis
665.81	Other specified obstetrical trauma, with delivery	ICD-9-CM	Diagnosis
665.82	Other specified obstetrical trauma, delivered, with postpartum	ICD-9-CM	Diagnosis
665.83	Other specified obstetrical trauma, antepartum	ICD-9-CM	Diagnosis
665.84	Other specified obstetrical trauma, postpartum condition or complication	ICD-9-CM	Diagnosis
665.9	Unspecified obstetrical trauma	ICD-9-CM	Diagnosis
665.90	Unspecified obstetrical trauma, unspecified as to episode of care	ICD-9-CM	Diagnosis
665.91	Unspecified obstetrical trauma, with delivery	ICD-9-CM	Diagnosis
665.92	Unspecified obstetrical trauma, delivered, with postpartum complication	ICD-9-CM	Diagnosis
665.93	Unspecified obstetrical trauma, antepartum	ICD-9-CM	Diagnosis
665.94	Unspecified obstetrical trauma, postpartum condition or complication	ICD-9-CM	Diagnosis
666	Postpartum hemorrhage	ICD-9-CM	Diagnosis
666.0	Third-stage postpartum hemorrhage	ICD-9-CM	Diagnosis
666.00	Third-stage postpartum hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
666.02	Third-stage postpartum hemorrhage, with delivery	ICD-9-CM	Diagnosis
666.04	Third-stage postpartum hemorrhage, postpartum condition or complication	ICD-9-CM	Diagnosis
666.1	Other immediate postpartum hemorrhage	ICD-9-CM	Diagnosis
666.10	Other immediate postpartum hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
666.12	Other immediate postpartum hemorrhage, with delivery	ICD-9-CM	Diagnosis
666.14	Other immediate postpartum hemorrhage, postpartum condition or complication	ICD-9-CM	Diagnosis
666.2	Delayed and secondary postpartum hemorrhage	ICD-9-CM	Diagnosis
666.20	Delayed and secondary postpartum hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
			0
666.22	Delayed and secondary postpartum hemorrhage, with delivery	ICD-9-CM	Diagnosis
666.24	Delayed and secondary postpartum hemorrhage, postpartum condition or complication	ICD-9-CM	Diagnosis
666.3	Postpartum coagulation defects	ICD-9-CM	Diagnosis
666.30	Postpartum coagulation defects, unspecified as to episode of care	ICD-9-CM	Diagnosis
666.32	Postpartum coagulation defects, with delivery	ICD-9-CM	Diagnosis
666.34	Postpartum coagulation defects, postpartum condition or complication	ICD-9-CM	Diagnosis
667	Retained placenta or membranes, without hemorrhage	ICD-9-CM	Diagnosis
667.0	Retained placenta without hemorrhage	ICD-9-CM	Diagnosis
667.00	Retained placenta without hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
667.02	Retained placenta without hemorrhage, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
667.04	Retained placenta without hemorrhage, postpartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
667.1	Retained portions of placenta or membranes, without hemorrhage	ICD-9-CM	Diagnosis
667.10	Retained portions of placenta or membranes, without hemorrhage, unspecified as to episode of care	ICD-9-CM	Diagnosis
667.12	Retained portions of placenta or membranes, without hemorrhage, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
667.14	Retained portions of placenta or membranes, without hemorrhage, postpartum condition or complication	ICD-9-CM	Diagnosis
668	Complications of the administration of anesthetic or other sedation in labor and delivery	ICD-9-CM	Diagnosis
668.0	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery	ICD-9-CM	Diagnosis
668.00	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
668.01	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.02	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.03	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, antepartum	ICD-9-CM	Diagnosis
668.04	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
668.1	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery	ICD-9-CM	Diagnosis
668.10	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
668.11	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.12	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.13	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, antepartum	ICD-9-CM	Diagnosis
668.14	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
668.2	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery	ICD-9-CM	Diagnosis
668.20	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
668.21	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.22	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
668.23	Central nervous system complications of the administration of anesthesia or other	ICD-9-CM	Diagnosis
	sedation in labor and delivery, antepartum		
668.24	Central nervous system complications of the administration of anesthesia or other	ICD-9-CM	Diagnosis
	sedation in labor and delivery, postpartum condition or complication		U
668.8	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery		-
668.80	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery, unspecified as to episode of care		
668.81	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery, delivered		
668.82	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery, delivered, with mention of postpartum complication		
668.83	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery, antepartum		
668.84	Other complications of the administration of anesthesia or other sedation in labor	ICD-9-CM	Diagnosis
	and delivery, postpartum condition or complication		
668.9	Unspecified complication of the administration of anesthesia or other sedation in	ICD-9-CM	Diagnosis
	labor and delivery		
668.90	Unspecified complication of the administration of anesthesia or other sedation in	ICD-9-CM	Diagnosis
660.04	labor and delivery, unspecified as to episode of care		Diamania
668.91	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.92	Unspecified complication of the administration of anesthesia or other sedation in		Diagnosis
006.92	labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
	abor and derivery, derivered, with mention of postpartum complication		
668.93	Unspecified complication of the administration of anesthesia or other sedation in	ICD-9-CM	Diagnosis
000000	labor and delivery, antepartum		2108.0000
668.94	Unspecified complication of the administration of anesthesia or other sedation in	ICD-9-CM	Diagnosis
	labor and delivery, postpartum condition or complication		
669	Other complications of labor and delivery, not elsewhere classified	ICD-9-CM	Diagnosis
669.0	Maternal distress	ICD-9-CM	Diagnosis
669.00	Maternal distress complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.01	Maternal distress, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.02	Maternal distress, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.03	Maternal distress complicating labor and delivery, antepartum condition or	ICD-9-CM	Diagnosis
	complication		
669.04	Maternal distress complicating labor and delivery, postpartum condition or	ICD-9-CM	Diagnosis
	complication		
669.1	Shock during or following labor and delivery	ICD-9-CM	Diagnosis
669.10	Shock during or following labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
669.11	Shock during or following labor and delivery, with delivery, with or without mention		Diagnosis
	of antepartum condition		
669.12	Shock during or following labor and delivery, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.13	Shock during or following labor and delivery, antepartum shock	ICD-9-CM	Diagnosis
669.14	Shock during or following labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
669.2	Maternal hypotension syndrome	ICD-9-CM	Diagnosis
669.20	Maternal hypotension syndrome complicating labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.21	Maternal hypotension syndrome, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.22	Maternal hypotension syndrome, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.23	Maternal hypotension syndrome, antepartum	ICD-9-CM	Diagnosis
669.24	Maternal hypotension syndrome, postpartum condition or complication	ICD-9-CM	Diagnosis
669.3	Acute kidney failure following labor and delivery	ICD-9-CM	Diagnosis
669.30	Acute kidney failure following labor and delivery, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
669.32	Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.34	Acute kidney failure following labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
669.4	Other complications of obstetrical surgery and procedures	ICD-9-CM	Diagnosis
669.40	Other complications of obstetrical surgery and procedures, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.41	Other complications of obstetrical surgery and procedures, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.42	Other complications of obstetrical surgery and procedures, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.43	Other complications of obstetrical surgery and procedures, antepartum condition or complication	ICD-9-CM	Diagnosis
669.44	Other complications of obstetrical surgery and procedures, postpartum condition or complication	ICD-9-CM	Diagnosis
669.5	Forceps or vacuum extractor delivery without mention of indication	ICD-9-CM	Diagnosis
669.50	Forceps or vacuum extractor delivery without mention of indication, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.51	Forceps or vacuum extractor delivery without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.6	Breech extraction, without mention of indication	ICD-9-CM	Diagnosis
669.60	Breech extraction, without mention of indication, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.61	Breech extraction, without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
669.7	Cesarean delivery, without mention of indication	ICD-9-CM	Diagnosis
669.70	Cesarean delivery, without mention of indication, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.71	Cesarean delivery, without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.8	Other complications of labor and delivery	ICD-9-CM	Diagnosis
669.80	Other complication of labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.81	Other complication of labor and delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.82	Other complication of labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.83	Other complication of labor and delivery, antepartum condition or complication	ICD-9-CM	Diagnosis
669.84	Other complication of labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
669.9	Unspecified complication of labor and delivery	ICD-9-CM	Diagnosis
669.90	Unspecified complication of labor and delivery, unspecified as to episode of care	ICD-9-CM	Diagnosis
669.91	Unspecified complication of labor and delivery, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.92	Unspecified complication of labor and delivery, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.93	Unspecified complication of labor and delivery, antepartum condition or complication	ICD-9-CM	Diagnosis
669.94	Unspecified complication of labor and delivery, postpartum condition or complication	ICD-9-CM	Diagnosis
670	Major puerperal infection	ICD-9-CM	Diagnosis
670.0	Major puerperal infection, unspecified	ICD-9-CM	Diagnosis
670.00	Major puerperal infection, unspecified, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
670.02	Major puerperal infection, unspecified, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.04	Major puerperal infection, unspecified, postpartum condition or complication	ICD-9-CM	Diagnosis
670.1	Puerperal endometritis	ICD-9-CM	Diagnosis
670.10	Puerperal endometritis, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
670.12	Puerperal endometritis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.14	Puerperal endometritis, postpartum condition or complication	ICD-9-CM	Diagnosis
670.2	Puerperal sepsis	ICD-9-CM	Diagnosis
670.20	Puerperal sepsis, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
670.22	Puerperal sepsis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.24	Puerperal sepsis, postpartum condition or complication	ICD-9-CM	Diagnosis
670.3	Puerperal septic thrombophlebitis	ICD-9-CM	Diagnosis


Code	Description	Code Type	Code Category
670.30	Puerperal septic thrombophlebitis, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
670.32	Puerperal septic thrombophlebitis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.34	Puerperal septic thrombophlebitis, postpartum condition or complication	ICD-9-CM	Diagnosis
670.8	Other major puerperal infection	ICD-9-CM	Diagnosis
670.80	Other major puerperal infection, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
670.82	Other major puerperal infection, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.84	Other major puerperal infection, postpartum condition or complication	ICD-9-CM	Diagnosis
671	Venous complications in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.0	Varicose veins of legs in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.00	Varicose veins of legs complicating pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.01	Varicose veins of legs, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.02	Varicose veins of legs, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.03	Varicose veins of legs, antepartum	ICD-9-CM	Diagnosis
671.04	Varicose veins of legs, postpartum condition or complication	ICD-9-CM	Diagnosis
671.1	Varicose veins of vulva and perineum in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.10	Varicose veins of vulva and perineum complicating pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.11	Varicose veins of vulva and perineum, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.12	Varicose veins of vulva and perineum, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.13	Varicose veins of vulva and perineum, antepartum	ICD-9-CM	Diagnosis
671.14	Varicose veins of vulva and perineum, postpartum condition or complication	ICD-9-CM	Diagnosis
671.2	Superficial thrombophlebitis in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.20	Superficial thrombophlebitis complicating pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.21	Superficial thrombophlebitis with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.22	Superficial thrombophlebitis with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.23	Superficial thrombophlebitis, antepartum	ICD-9-CM	Diagnosis
671.24	Superficial thrombophlebitis, postpartum condition or complication	ICD-9-CM	Diagnosis
671.3	Deep phlebothrombosis, antepartum	ICD-9-CM	Diagnosis
671.30	Deep phlebothrombosis, antepartum, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.31	Deep phlebothrombosis, antepartum, with delivery	ICD-9-CM	Diagnosis
671.33	Deep phlebothrombosis, antepartum	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
671.4	Deep phlebothrombosis, postpartum	ICD-9-CM	Diagnosis
671.40	Deep phlebothrombosis, postpartum, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.42	Deep phlebothrombosis, postpartum, with delivery	ICD-9-CM	Diagnosis
671.44	Deep phlebothrombosis, postpartum condition or complication	ICD-9-CM	Diagnosis
671.5	Other phlebitis and thrombosis in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.50	Other phlebitis and thrombosis complicating pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.51	Other phlebitis and thrombosis with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.52	Other phlebitis and thrombosis with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.53	Other antepartum phlebitis and thrombosis	ICD-9-CM	Diagnosis
671.54	Other phlebitis and thrombosis, postpartum condition or complication	ICD-9-CM	Diagnosis
671.8	Other venous complications in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.80	Other venous complication of pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.81	Other venous complication, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.82	Other venous complication, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.83	Other venous complication, antepartum	ICD-9-CM	Diagnosis
671.84	Other venous complications, postpartum condition or complication	ICD-9-CM	Diagnosis
671.9	Unspecified venous complication in pregnancy and the puerperium	ICD-9-CM	Diagnosis
671.90	Unspecified venous complication of pregnancy and the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
671.91	Unspecified venous complication, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.92	Unspecified venous complication, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.93	Unspecified venous complication, antepartum	ICD-9-CM	Diagnosis
671.94	Unspecified venous complication, postpartum condition or complication	ICD-9-CM	Diagnosis
672	Pyrexia of unknown origin during the puerperium	ICD-9-CM	Diagnosis
672.0	Pyrexia of unknown origin during the puerperium	ICD-9-CM	Diagnosis
672.00	Puerperal pyrexia of unknown origin, unspecified as to episode of care	ICD-9-CM	Diagnosis
672.02	Puerperal pyrexia of unknown origin, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
672.04	Puerperal pyrexia of unknown origin, postpartum condition or complication	ICD-9-CM	Diagnosis
673	Obstetrical pulmonary embolism	ICD-9-CM	Diagnosis
673.0	Obstetrical air embolism	ICD-9-CM	Diagnosis
673.00	Obstetrical air embolism, unspecified as to episode of care	ICD-9-CM	Diagnosis
673.01	Obstetrical air embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.02	Obstetrical air embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
673.03	Obstetrical air embolism, antepartum condition or complication	ICD-9-CM	Diagnosis
673.04	Obstetrical air embolism, postpartum condition or complication	ICD-9-CM	Diagnosis
673.1	Amniotic fluid embolism	ICD-9-CM	Diagnosis
673.10	Amniotic fluid embolism, unspecified as to episode of care	ICD-9-CM	Diagnosis
673.11	Amniotic fluid embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.12	Amniotic fluid embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.13	Amniotic fluid embolism, antepartum condition or complication	ICD-9-CM	Diagnosis
673.14	Amniotic fluid embolism, postpartum condition or complication	ICD-9-CM	Diagnosis
673.2	Obstetrical blood-clot embolism	ICD-9-CM	Diagnosis
673.20	Obstetrical blood-clot embolism, unspecified as to episode of care	ICD-9-CM	Diagnosis
673.21	Obstetrical blood-clot embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.22	Obstetrical blood-clot embolism, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.23	Obstetrical blood-clot embolism, antepartum	ICD-9-CM	Diagnosis
673.24	Obstetrical blood-clot embolism, postpartum condition or complication	ICD-9-CM	Diagnosis
673.3	Obstetrical pyemic and septic embolism	ICD-9-CM	Diagnosis
673.30	Obstetrical pyemic and septic embolism, unspecified as to episode of care	ICD-9-CM	Diagnosis
673.31	Obstetrical pyemic and septic embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.32	Obstetrical pyemic and septic embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.33	Obstetrical pyemic and septic embolism, antepartum	ICD-9-CM	Diagnosis
673.34	Obstetrical pyemic and septic embolism, postpartum condition or complication	ICD-9-CM	Diagnosis
673.8	Other obstetrical pulmonary embolism	ICD-9-CM	Diagnosis
673.80	Other obstetrical pulmonary embolism, unspecified as to episode of care	ICD-9-CM	Diagnosis
673.81	Other obstetrical pulmonary embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.82	Other obstetrical pulmonary embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.83	Other obstetrical pulmonary embolism, antepartum	ICD-9-CM	Diagnosis
673.84	Other obstetrical pulmonary embolism, postpartum condition or complication	ICD-9-CM	Diagnosis
674	Other and unspecified complications of the puerperium, not elsewhere classified	ICD-9-CM	Diagnosis
674.0	Cerebrovascular disorders in the puerperium	ICD-9-CM	Diagnosis
674.00	Cerebrovascular disorder occurring in pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.01	Cerebrovascular disorder, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
674.02	Cerebrovascular disorder, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
674.03	Cerebrovascular disorder, antepartum	ICD-9-CM	Diagnosis
674.04	Cerebrovascular disorders in the puerperium, postpartum condition or complication		Diagnosis
			0
674.1	Disruption of cesarean wound	ICD-9-CM	Diagnosis
674.10	Disruption of cesarean wound, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.12	Disruption of cesarean wound, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.14	Disruption of cesarean wound, postpartum condition or complication	ICD-9-CM	Diagnosis
674.2	Disruption of obstetrical perineal wound	ICD-9-CM	Diagnosis
674.20	Disruption of perineal wound, unspecified as to episode of care in pregnancy	ICD-9-CM	Diagnosis
674.22	Disruption of perineal wound, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.24	Disruption of perineal wound, postpartum condition or complication	ICD-9-CM	Diagnosis
674.3	Other complications of obstetrical surgical wounds	ICD-9-CM	Diagnosis
674.30	Other complication of obstetrical surgical wounds, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.32	Other complication of obstetrical surgical wounds, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.34	Other complications of obstetrical surgical wounds, postpartum condition or complication	ICD-9-CM	Diagnosis
674.4	Placental polyp	ICD-9-CM	Diagnosis
674.40	Placental polyp, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.42	Placental polyp, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.44	Placental polyp, postpartum condition or complication	ICD-9-CM	Diagnosis
674.5	Peripartum cardiomyopathy	ICD-9-CM	Diagnosis
674.50	Peripartum cardiomyopathy, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
674.51	Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
674.52	Peripartum cardiomyopathy, delivered, with mention of postpartum condition	ICD-9-CM	Diagnosis
674.53	Peripartum cardiomyopathy, antepartum condition or complication	ICD-9-CM	Diagnosis
674.54	Peripartum cardiomyopathy, postpartum condition or complication	ICD-9-CM	Diagnosis
674.8	Other complications of the puerperium	ICD-9-CM	Diagnosis
674.80	Other complication of puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.82	Other complication of puerperium, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.84	Other complications of puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis
674.9	Unspecified complications of the puerperium	ICD-9-CM	Diagnosis
674.90	Unspecified complications of puerperium, unspecified as to episode of care	ICD-9-CM	Diagnosis
674.92	Unspecified complications of puerperium, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.94	Unspecified complications of puerperium, postpartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
675	Infection of the breast and nipple associated with childbirth	ICD-9-CM	Diagnosis
675.0	Infection of nipple associated with childbirth	ICD-9-CM	Diagnosis
675.00	Infection of nipple associated with childbirth, unspecified as to episode of care	ICD-9-CM	Diagnosis
675.01	Infection of nipple associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.02	Infection of nipple associated with childbirth, delivered with mention of postpartum complication	ICD-9-CM	Diagnosis
675.03	Infection of nipple, antepartum	ICD-9-CM	Diagnosis
675.04	Infection of nipple, postpartum condition or complication	ICD-9-CM	Diagnosis
675.1	Abscess of breast associated with childbirth	ICD-9-CM	Diagnosis
675.10	Abscess of breast associated with childbirth, unspecified as to episode of care	ICD-9-CM	Diagnosis
675.11	Abscess of breast associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.12	Abscess of breast associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.13	Abscess of breast, antepartum	ICD-9-CM	Diagnosis
675.14	Abscess of breast, postpartum condition or complication	ICD-9-CM	Diagnosis
675.2	Nonpurulent mastitis associated with childbirth	ICD-9-CM	Diagnosis
675.20	Nonpurulent mastitis, unspecified as to episode of prenatal or postnatal care	ICD-9-CM	Diagnosis
675.21	Nonpurulent mastitis, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.22	Nonpurulent mastitis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.23	Nonpurulent mastitis, antepartum	ICD-9-CM	Diagnosis
675.24	Nonpurulent mastitis, postpartum condition or complication	ICD-9-CM	Diagnosis
675.8	Other specified infection of the breast and nipple associated with childbirth	ICD-9-CM	Diagnosis
675.80	Other specified infection of the breast and nipple associated with childbirth, unspecified as to episode of care	ICD-9-CM	Diagnosis
675.81	Other specified infection of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.82	Other specified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.83	Other specified infection of the breast and nipple, antepartum	ICD-9-CM	Diagnosis
675.84	Other specified infections of the breast and nipple, postpartum condition or complication	ICD-9-CM	Diagnosis
675.9	Unspecified infection of the breast and nipple associated with childbirth	ICD-9-CM	Diagnosis
675.90	Unspecified infection of the breast and nipple, unspecified as to prenatal or postnatal episode of care	ICD-9-CM	Diagnosis
675.91	Unspecified infection of the breast and nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.92	Unspecified infection of the breast and nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
675.93	Unspecified infection of the breast and nipple, antepartum	ICD-9-CM	Diagnosis
675.94	Unspecified infection of the breast and nipple, postpartum condition or complication	ICD-9-CM	Diagnosis
676	Other disorders of the breast associated with childbirth and disorders of lactation	ICD-9-CM	Diagnosis
676.0	Retracted nipple associated with childbirth	ICD-9-CM	Diagnosis
676.00	Retracted nipple, unspecified as to prenatal or postnatal episode of care	ICD-9-CM	Diagnosis
676.01	Retracted nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.02	Retracted nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.03	Retracted nipple, antepartum condition or complication	ICD-9-CM	Diagnosis
676.04	Retracted nipple, postpartum condition or complication	ICD-9-CM	Diagnosis
676.1	Cracked nipple associated with childbirth	ICD-9-CM	Diagnosis
676.10	Cracked nipple, unspecified as to prenatal or postnatal episode of care	ICD-9-CM	Diagnosis
676.11	Cracked nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.12	Cracked nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.13	Cracked nipple, antepartum condition or complication	ICD-9-CM	Diagnosis
676.14	Cracked nipple, postpartum condition or complication	ICD-9-CM	Diagnosis
676.2	Engorgement of breasts associated with childbirth	ICD-9-CM	Diagnosis
676.20	Engorgement of breasts, unspecified as to prenatal or postnatal episode of care	ICD-9-CM	Diagnosis
676.21	Engorgement of breasts, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.22	Engorgement of breasts, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.23	Engorgement of breast, antepartum	ICD-9-CM	Diagnosis
676.24	Engorgement of breasts, postpartum condition or complication	ICD-9-CM	Diagnosis
676.3	Other and unspecified disorder of breast associated with childbirth	ICD-9-CM	Diagnosis
676.30	Other and unspecified disorder of breast associated with childbirth, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.31	Other and unspecified disorder of breast associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.32	Other and unspecified disorder of breast associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.33	Other and unspecified disorder of breast associated with childbirth, antepartum condition or complication	ICD-9-CM	Diagnosis
676.34	Other and unspecified disorder of breast associated with childbirth, postpartum condition or complication	ICD-9-CM	Diagnosis
676.4	Failure of lactation	ICD-9-CM	Diagnosis
676.40	Failure of lactation, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.41	Failure of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.42	Failure of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.43	Failure of lactation, antepartum condition or complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
676.44	Failure of lactation, postpartum condition or complication	ICD-9-CM	Diagnosis
676.5	Suppressed lactation	ICD-9-CM	Diagnosis
676.50	Suppressed lactation, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.51	Suppressed lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.52	Suppressed lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.53	Suppressed lactation, antepartum condition or complication	ICD-9-CM	Diagnosis
676.54	Suppressed lactation, postpartum condition or complication	ICD-9-CM	Diagnosis
676.6	Galactorrhea	ICD-9-CM	Diagnosis
676.60	Galactorrhea associated with childbirth, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.61	Galactorrhea, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.62	Galactorrhea, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.63	Galactorrhea, antepartum condition or complication	ICD-9-CM	Diagnosis
676.64	Galactorrhea, postpartum condition or complication	ICD-9-CM	Diagnosis
676.8	Other disorders of lactation	ICD-9-CM	Diagnosis
676.80	Other disorder of lactation, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.81	Other disorder of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.82	Other disorder of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.83	Other disorder of lactation, antepartum condition or complication	ICD-9-CM	Diagnosis
676.84	Other disorders of lactation, postpartum condition or complication	ICD-9-CM	Diagnosis
676.9	Unspecified disorder of lactation	ICD-9-CM	Diagnosis
676.90	Unspecified disorder of lactation, unspecified as to episode of care	ICD-9-CM	Diagnosis
676.91	Unspecified disorder of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.92	Unspecified disorder of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.93	Unspecified disorder of lactation, antepartum condition or complication	ICD-9-CM	Diagnosis
676.94	Unspecified disorder of lactation, postpartum condition or complication	ICD-9-CM	Diagnosis
677	Late effect of complication of pregnancy, childbirth, and the puerperium	ICD-9-CM	Diagnosis
678	Other fetal conditions	ICD-9-CM	Diagnosis
678.0	Fetal hematologic conditions	ICD-9-CM	Diagnosis
678.00	Fetal hematologic conditions, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
678.01	Fetal hematologic conditions, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
678.03	Fetal hematologic conditions, antepartum condition or complication	ICD-9-CM	Diagnosis
678.1	Fetal conjoined twins	ICD-9-CM	Diagnosis
678.10	Fetal conjoined twins, unspecified as to episode of care or not applicable	ICD-9-CM	Diagnosis
678.11	Fetal conjoined twins, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
678.13	Fetal conjoined twins, antepartum condition or complication	ICD-9-CM	Diagnosis
679	Complications of in utero procedures	ICD-9-CM	Diagnosis
679.0	Maternal complications from in utero procedure	ICD-9-CM	Diagnosis
679.00	Maternal complications from in utero procedure, unspecified as to episode of care	ICD-9-CM	Diagnosis
	or not applicable		
679.01	Maternal complications from in utero procedure, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
679.02	Maternal complications from in utero procedure, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
679.03	Maternal complications from in utero procedure, antepartum condition or complication	ICD-9-CM	Diagnosis
679.04	Maternal complications from in utero procedure, postpartum condition or complication	ICD-9-CM	Diagnosis
679.1	Fetal complications from in utero procedure	ICD-9-CM	Diagnosis
679.10	Fetal complications from in utero procedure, unspecified as to episode of care or	ICD-9-CM	Diagnosis
	not applicable		
679.11	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
679.12	Fetal complications from in utero procedure, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
679.13	Fetal complications from in utero procedure, antepartum condition or complication	ICD-9-CM	Diagnosis
679.14	Fetal complications from in utero procedure, postpartum condition or complication	ICD-9-CM	Diagnosis
V22	Normal pregnancy	ICD-9-CM	Diagnosis
V22.0	Supervision of normal first pregnancy	ICD-9-CM	Diagnosis
V22.1	Supervision of other normal pregnancy	ICD-9-CM	Diagnosis
V22.2	Pregnant state, incidental	ICD-9-CM	Diagnosis
V23	Supervision of high-risk pregnancy	ICD-9-CM	Diagnosis
V23.0	Pregnancy with history of infertility	ICD-9-CM	Diagnosis
V23.1	Pregnancy with history of trophoblastic disease	ICD-9-CM	Diagnosis
V23.2	Pregnancy with history of abortion	ICD-9-CM	Diagnosis
V23.3	Pregnancy with grand multiparity	ICD-9-CM	Diagnosis
V23.4	Pregnancy with other poor obstetric history	ICD-9-CM	Diagnosis
V23.41	Supervision of pregnancy with history of pre-term labor	ICD-9-CM	Diagnosis
V23.42	Pregnancy with history of ectopic pregnancy	ICD-9-CM	Diagnosis
V23.49	Supervision of pregnancy with other poor obstetric history	ICD-9-CM	Diagnosis
V23.5	Pregnancy with other poor reproductive history	ICD-9-CM	Diagnosis
V23.7	Insufficient prenatal care	ICD-9-CM	Diagnosis
V23.8	Supervision of other high-risk pregnancy	ICD-9-CM	Diagnosis
V23.81	Supervision of high-risk pregnancy of elderly primigravida	ICD-9-CM	Diagnosis
V23.82	Supervision of high-risk pregnancy of elderly multigravida	ICD-9-CM	Diagnosis
V23.83	Supervision of high-risk pregnancy of young primigravida	ICD-9-CM	Diagnosis
V23.84	Supervision of high-risk pregnancy of young multigravida	ICD-9-CM	Diagnosis



Code	Description	Codo Turo	Codo Cotogony
		Code Type	Code Category
V23.85	Supervision of high risk pregnancy, pregnancy resulting from assisted reproductive	ICD-9-CM	Diagnosis
	technology		
V23.86	Supervision of high risk pregnancy, pregnancy with history of in utero procedure	ICD-9-CM	Diagnosis
	during previous pregnancy		
V23.87	Pregnancy with inconclusive fetal viability	ICD-9-CM	Diagnosis
V23.89	Supervision of other high-risk pregnancy	ICD-9-CM	Diagnosis
V23.9	Unspecified high-risk pregnancy	ICD-9-CM	Diagnosis
V28	Encounter for antenatal screening of mother	ICD-9-CM	Diagnosis
V28.0	Screening for chromosomal anomalies by amniocentesis	ICD-9-CM	Diagnosis
V28.1	Screening for raised alpha-fetoprotein levels in amniotic fluid	ICD-9-CM	Diagnosis
V28.2	Other antenatal screening based on amniocentesis	ICD-9-CM	Diagnosis
V28.3	Encounter for routine screening for malformation using ultrasonics	ICD-9-CM	Diagnosis
V28.4	Antenatal screening for fetal growth retardation using ultrasonics	ICD-9-CM	Diagnosis
V28.5	Antenatal screening for isoimmunization	ICD-9-CM	Diagnosis
V28.6	Screening of Streptococcus B	ICD-9-CM	Diagnosis
V28.8	Encounter for other specified antenatal screening	ICD-9-CM	Diagnosis
V28.81	Encounter for fetal anatomic survey	ICD-9-CM	Diagnosis
V28.82	Encounter for screening for risk of pre-term labor	ICD-9-CM	Diagnosis
V28.89	Other specified antenatal screening	ICD-9-CM	Diagnosis
V28.9	Unspecified antenatal screening	ICD-9-CM	Diagnosis



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glipizideGlucotrol XLglipizideGlucotrolglyburide/metformin hclGlucovanceglipizide/metformin hclMetaglipglyburide/metformin hclGlyburide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglipizide/metformin hclGlipizide-Metforminglyburide,micronizedGlyburide Micronized	glyburide	Diabeta
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glyburide/metformin hclGlyburide-MetforminglimepirideGlimepirideglipizide/metformin hclGlipizide-Metforminglyburide,micronizedGlyburide Micronized	glyburide/metformin hcl	Glucovance
glimepirideGlimepirideglipizide/metformin hclGlipizide-Metforminglyburide,micronizedGlyburide Micronized	glipizide/metformin hcl	Metaglip
glipizide/metformin hclGlipizide-Metforminglyburide,micronizedGlyburide Micronized	glyburide/metformin hcl	Glyburide-Metformin
glyburide,micronized Glyburide Micronized	glimepiride	Glimepiride
	glipizide/metformin hcl	Glipizide-Metformin
glyburide Glyburide	glyburide,micronized	Glyburide Micronized
8.1	glyburide	Glyburide



Generic Name	Brand Name	
glipizide	Glipizide	
pioglitazone hcl/glimepiride	Pioglitazone-Glimepiride	
pioglitazone hcl/glimepiride	Duetact	
Alpha	a-Glucosidase Inhibitor	
miglitol	Glyset	
acarbose	Precose	
acarbose	Acarbose	
miglitol	Miglitol	
A	mylin Analog-Type	
pramlintide acetate	Symlinpen 60	
pramlintide acetate	Symlinpen 120	
pramlintide acetate	Symlin	
	Biguanide	
saxagliptin hcl/metformin hcl	Kombiglyze XR	
sitagliptin phosphate/metformin hcl	Janumet XR	
sitagliptin phosphate/metformin hcl	Janumet	
rosiglitazone maleate/metformin hcl	Avandamet	
metformin hcl	Glucophage	
metformin hcl	Glucophage XR	
glyburide/metformin hcl	Glucovance	
glipizide/metformin hcl	Metaglip	
metformin hcl	Metformin	
pioglitazone hcl/metformin hcl	Pioglitazone-Metformin	
glyburide/metformin hcl	Glyburide-Metformin	
glipizide/metformin hcl	Glipizide-Metformin	
repaglinide/metformin hcl	Prandimet	
dapagliflozin propanediol/metformin hcl	Xigduo XR	
linagliptin/metformin hcl	Jentadueto	
empagliflozin/metformin hcl	Synjardy	
linagliptin/metformin hcl	Jentadueto XR	
empagliflozin/metformin hcl	Synjardy XR	
metformin hcl	Riomet	
metformin hcl	Glumetza	
pioglitazone hcl/metformin hcl	Actoplus MET	
alogliptin benzoate/metformin hcl	Alogliptin-Metformin	
canagliflozin/metformin hcl	Invokamet	
canagliflozin/metformin hcl	Invokamet XR	
metformin hcl	Fortamet	
pioglitazone hcl/metformin hcl	Actoplus Met Xr	
alogliptin benzoate/metformin hcl	Kazano	
repaglinide/metformin hcl	Repaglinide-Metformin	
metformin/caffeine/amino acids 7/herbal comb 125/c	holine b Appformin	
metformin/amino acids no.7/herbal cmb.125/choline	bitartrat Appformin-D	
metformin hcl/blood sugar diagnostic	Dm2	



Generic Name	Brand Name
Other Dipeptidyl Pe	ptidase-4 (Dpp-4) Inhibitor
linagliptin	Tradjenta
linagliptin/metformin hcl	Jentadueto
empagliflozin/linagliptin	Glyxambi
linagliptin/metformin hcl	Jentadueto XR
alogliptin benzoate	Alogliptin
alogliptin benzoate/metformin hcl	Alogliptin-Metformin
alogliptin benzoate	Nesina
alogliptin benzoate/metformin hcl	Kazano
alogliptin benzoate/pioglitazone hcl	Alogliptin-Pioglitazone
alogliptin benzoate/pioglitazone hcl	Oseni
Glucagon-Like Per	otide-1 (GLP-1) Analogue
dulaglutide	Trulicity
lixisenatide	Adlyxin
insulin glargine,human recombinant analog/lixisenatide	Soliqua 100/33
insulin degludec/liraglutide	Xultophy 100/3.6
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
semaglutide	Ozempic
albiglutide	Tanzeum
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon Bcise
M	eglitinide
nateglinide	Starlix
repaglinide	Prandin
repaglinide/metformin hcl	Prandimet
repaglinide	Repaglinide
nateglinide	Nateglinide
Sodium-Glucose Cotra	ansporter-2 (Sglt-2) Inhibitor
dapagliflozin propanediol	Farxiga
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
dapagliflozin propanediol/metformin hcl	Xigduo XR
dapagliflozin propanediol/saxagliptin hcl	Qtern
empagliflozin	Jardiance
empagliflozin/metformin hcl	Synjardy
empagliflozin/linagliptin	Glyxambi
empagliflozin/metformin hcl	Synjardy XR
canagliflozin	Invokana
canagliflozin/metformin hcl	Invokamet
canagliflozin/metformin hcl	Invokamet XR
First-Gener	ation Sulfonylurea
chlorpropamide	Chlorpropamide



Generic Name	Brand Name	
tolbutamide	Tolbutamide	
tolazamide	Tolazamide	
	Other Thiazolidinedione	
rosiglitazone maleate/glimepiride	Avandaryl	
rosiglitazone maleate/metformin hcl	Avandamet	
rosiglitazone maleate	Avandia	



Code	Description	Code Type	Code Category	
Acute Myocardial Infarction				
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM	Diagnosis	
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM	Diagnosis	
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM	Diagnosis	
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM	Diagnosis	
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM	Diagnosis	
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	ICD-9-CM	Diagnosis	
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM	Diagnosis	
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	ICD-9-CM	Diagnosis	
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM	Diagnosis	
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	ICD-9-CM	Diagnosis	
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM	Diagnosis	
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	ICD-9-CM	Diagnosis	
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM	Diagnosis	
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	ICD-9-CM	Diagnosis	
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM	Diagnosis	



Code	Description	Code Type	Code Category			
	Cardiovascular Disease					
	Prior Acute Myocardial Infarction (AMI)					
410	Acute myocardial infarction	ICD-9-CM	Diagnosis			
410.0	Acute myocardial infarction of anterolateral wall	ICD-9-CM	Diagnosis			
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM	Diagnosis			
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	ICD-9-CM	Diagnosis			
410.1	Acute myocardial infarction of other anterior wall	ICD-9-CM	Diagnosis			
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM	Diagnosis			
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	ICD-9-CM	Diagnosis			
410.2	Acute myocardial infarction of inferolateral wall	ICD-9-CM	Diagnosis			
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM	Diagnosis			
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	ICD-9-CM	Diagnosis			
410.3	Acute myocardial infarction of inferoposterior wall	ICD-9-CM	Diagnosis			
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM	Diagnosis			
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	ICD-9-CM	Diagnosis			
410.4	Acute myocardial infarction of other inferior wall	ICD-9-CM	Diagnosis			
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM	Diagnosis			
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	ICD-9-CM	Diagnosis			
410.5	Acute myocardial infarction of other lateral wall	ICD-9-CM	Diagnosis			
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	ICD-9-CM	Diagnosis			
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM	Diagnosis			



Code	Description	Code Type	Code Category
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.6	Acute myocardial infarction, true posterior wall infarction	ICD-9-CM	Diagnosis
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	ICD-9-CM	Diagnosis
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM	Diagnosis
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	ICD-9-CM	Diagnosis
410.7	Acute myocardial infarction, subendocardial infarction	ICD-9-CM	Diagnosis
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	ICD-9-CM	Diagnosis
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM	Diagnosis
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	ICD-9-CM	Diagnosis
410.8	Acute myocardial infarction of other specified sites	ICD-9-CM	Diagnosis
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	ICD-9-CM	Diagnosis
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM	Diagnosis
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	ICD-9-CM	Diagnosis
410.9	Acute myocardial infarction, unspecified site	ICD-9-CM	Diagnosis
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	ICD-9-CM	Diagnosis
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM	Diagnosis
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	ICD-9-CM	Diagnosis

	Other Ischemic Heart Disease		
411	Other acute and subacute forms of ischemic heart disease	ICD-9-CM	Diagnosis
411.0	Postmyocardial infarction syndrome	ICD-9-CM	Diagnosis
411.1	Intermediate coronary syndrome	ICD-9-CM	Diagnosis
411.8	Other acute and subacute forms of ischemic heart disease	ICD-9-CM	Diagnosis
411.81	Acute coronary occlusion without myocardial infarction	ICD-9-CM	Diagnosis
411.89	Other acute and subacute form of ischemic heart disease	ICD-9-CM	Diagnosis
412	Old myocardial infarction	ICD-9-CM	Diagnosis
413	Angina pectoris	ICD-9-CM	Diagnosis
413.0	Angina decubitus	ICD-9-CM	Diagnosis
413.1	Prinzmetal angina	ICD-9-CM	Diagnosis
413.9	Other and unspecified angina pectoris	ICD-9-CM	Diagnosis
414	Other forms of chronic ischemic heart disease	ICD-9-CM	Diagnosis
414.0	Coronary atherosclerosis	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	ICD-9-CM	Diagnosis
414.01	Coronary atherosclerosis of native coronary artery	ICD-9-CM	Diagnosis
414.02	Coronary atherosclerosis of autologous vein bypass graft	ICD-9-CM	Diagnosis
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	ICD-9-CM	Diagnosis
414.04	Coronary atherosclerosis of artery bypass graft	ICD-9-CM	Diagnosis
414.05	Coronary atherosclerosis of unspecified type of bypass graft	ICD-9-CM	Diagnosis
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	ICD-9-CM	Diagnosis
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	ICD-9-CM	Diagnosis
414.1	Aneurysm and dissection of heart	ICD-9-CM	Diagnosis
414.10	Aneurysm of heart	ICD-9-CM	Diagnosis
414.11	Aneurysm of coronary vessels	ICD-9-CM	Diagnosis
414.12	Dissection of coronary artery	ICD-9-CM	Diagnosis
414.19	Other aneurysm of heart	ICD-9-CM	Diagnosis
414.2	Chronic total occlusion of coronary artery	ICD-9-CM	Diagnosis
414.3	Coronary atherosclerosis due to lipid rich plaque	ICD-9-CM	Diagnosis
414.4	Coronary atherosclerosis due to calcified coronary lesion	ICD-9-CM	Diagnosis
414.8	Other specified forms of chronic ischemic heart disease	ICD-9-CM	Diagnosis
414.9	Unspecified chronic ischemic heart disease	ICD-9-CM	Diagnosis
	Congestive Heart Failure		
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
428	Heart failure	ICD-9-CM	Diagnosis
428.0	Congestive heart failure, unspecified	ICD-9-CM	Diagnosis
428.1	Left heart failure	ICD-9-CM	Diagnosis
428.2	Systolic heart failure	ICD-9-CM	Diagnosis
428.20	Unspecified systolic heart failure	ICD-9-CM	Diagnosis
428.21	Acute systolic heart failure	ICD-9-CM	Diagnosis
428.22	Chronic systolic heart failure	ICD-9-CM	Diagnosis
428.23	Acute on chronic systolic heart failure	ICD-9-CM	Diagnosis
428.3	Diastolic heart failure	ICD-9-CM	Diagnosis
428.30	Unspecified diastolic heart failure	ICD-9-CM	Diagnosis
428.31	Acute diastolic heart failure	ICD-9-CM	Diagnosis
428.32	Chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.33	Acute on chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.4	Combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.40	Unspecified combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.41	Acute combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.42	Chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.43	Acute on chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.9	, Unspecified heart failure	ICD-9-CM	Diagnosis
	Other Heart Disease		0
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart	ICD-9-CM	Diagnosis
	failure and with chronic kidney disease stage I through stage IV, or unspecified		
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
420	Acute pericarditis	ICD-9-CM	Diagnosis
			-



Code	Description	Code Type	Code Category
420.9	Other and unspecified acute pericarditis	ICD-9-CM	Diagnosis
420.90	Unspecified acute pericarditis	ICD-9-CM	Diagnosis
420.91	Acute idiopathic pericarditis	ICD-9-CM	Diagnosis
420.99	Other acute pericarditis	ICD-9-CM	Diagnosis
421	Acute and subacute endocarditis	ICD-9-CM	Diagnosis
421.0	Acute and subacute bacterial endocarditis	ICD-9-CM	Diagnosis
421.1	Acute and subacute infective endocarditis in diseases classified elsewhere	ICD-9-CM	Diagnosis
421.9	Unspecified acute endocarditis	ICD-9-CM	Diagnosis
422	Acute myocarditis	ICD-9-CM	Diagnosis
422.0	Acute myocarditis in diseases classified elsewhere	ICD-9-CM	Diagnosis
422.9	Other and unspecified acute myocarditis	ICD-9-CM	Diagnosis
422.90	Unspecified acute myocarditis	ICD-9-CM	Diagnosis
422.91	Idiopathic myocarditis	ICD-9-CM	Diagnosis
422.92	Septic myocarditis	ICD-9-CM	Diagnosis
422.93	Toxic myocarditis	ICD-9-CM	Diagnosis
422.99	Other acute myocarditis	ICD-9-CM	Diagnosis
423	Other diseases of pericardium	ICD-9-CM	Diagnosis
423.0	Hemopericardium	ICD-9-CM	Diagnosis
423.1	Adhesive pericarditis	ICD-9-CM	Diagnosis
423.2	Constrictive pericarditis	ICD-9-CM	Diagnosis
423.3	Cardiac tamponade	ICD-9-CM	Diagnosis
423.8	Other specified diseases of pericardium	ICD-9-CM	Diagnosis
423.9	Unspecified disease of pericardium	ICD-9-CM	Diagnosis
424	Other diseases of endocardium	ICD-9-CM	Diagnosis
424.0	Mitral valve disorders	ICD-9-CM	Diagnosis
424.1	Aortic valve disorders	ICD-9-CM	Diagnosis
424.2	Tricuspid valve disorders, specified as nonrheumatic	ICD-9-CM	Diagnosis
424.3	Pulmonary valve disorders	ICD-9-CM	Diagnosis
424.9	Endocarditis, valve unspecified	ICD-9-CM	Diagnosis
424.90	Endocarditis, valve unspecified, unspecified cause	ICD-9-CM	Diagnosis
424.91	Endocarditis in diseases classified elsewhere	ICD-9-CM	Diagnosis
424.99	Other endocarditis, valve unspecified	ICD-9-CM	Diagnosis
425	Cardiomyopathy	ICD-9-CM	Diagnosis
425.0	Endomyocardial fibrosis	ICD-9-CM	Diagnosis
425.1	Hypertrophic cardiomyopathy	ICD-9-CM	Diagnosis
425.11	Hypertrophic obstructive cardiomyopathy	ICD-9-CM	Diagnosis
425.18	Other hypertrophic cardiomyopathy	ICD-9-CM	Diagnosis
425.2	Obscure cardiomyopathy of Africa	ICD-9-CM	Diagnosis
425.3	Endocardial fibroelastosis	ICD-9-CM	Diagnosis
425.4	Other primary cardiomyopathies	ICD-9-CM	Diagnosis
425.5	Alcoholic cardiomyopathy	ICD-9-CM	Diagnosis
425.7	Nutritional and metabolic cardiomyopathy	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
425.8	Cardiomyopathy in other diseases classified elsewhere	ICD-9-CM	Diagnosis
425.9	Unspecified secondary cardiomyopathy	ICD-9-CM	Diagnosis
426	Conduction disorders	ICD-9-CM	Diagnosis
426.0	Atrioventricular block, complete	ICD-9-CM	Diagnosis
426.1	Atrioventricular block, other and unspecified	ICD-9-CM	Diagnosis
426.10	Unspecified atrioventricular block	ICD-9-CM	Diagnosis
426.11	First degree atrioventricular block	ICD-9-CM	Diagnosis
426.12	Mobitz (type) II atrioventricular block	ICD-9-CM	Diagnosis
426.13	Other second degree atrioventricular block	ICD-9-CM	Diagnosis
426.2	Left bundle branch hemiblock	ICD-9-CM	Diagnosis
426.3	Other left bundle branch block	ICD-9-CM	Diagnosis
426.4	Right bundle branch block	ICD-9-CM	Diagnosis
426.5	Bundle branch block, other and unspecified	ICD-9-CM	Diagnosis
426.50	Unspecified bundle branch block	ICD-9-CM	Diagnosis
426.51	Right bundle branch block and left posterior fascicular block	ICD-9-CM	Diagnosis
426.52	Right bundle branch block and left anterior fascicular block	ICD-9-CM	Diagnosis
426.53	Other bilateral bundle branch block	ICD-9-CM	Diagnosis
426.54	Trifascicular block	ICD-9-CM	Diagnosis
426.6	Other heart block	ICD-9-CM	Diagnosis
426.7	Anomalous atrioventricular excitation	ICD-9-CM	Diagnosis
426.8	Other specified conduction disorders	ICD-9-CM	Diagnosis
426.81	Lown-Ganong-Levine syndrome	ICD-9-CM	Diagnosis
426.82	Long QT syndrome	ICD-9-CM	Diagnosis
426.89	Other specified conduction disorder	ICD-9-CM	Diagnosis
426.9	Unspecified conduction disorder	ICD-9-CM	Diagnosis
427	Cardiac dysrhythmias	ICD-9-CM	Diagnosis
427.0	Paroxysmal supraventricular tachycardia	ICD-9-CM	Diagnosis
427.1	Paroxysmal ventricular tachycardia	ICD-9-CM	Diagnosis
427.2	Unspecified paroxysmal tachycardia	ICD-9-CM	Diagnosis
427.3	Atrial fibrillation and flutter	ICD-9-CM	Diagnosis
427.31	Atrial fibrillation	ICD-9-CM	Diagnosis
427.32	Atrial flutter	ICD-9-CM	Diagnosis
427.4	Ventricular fibrillation and flutter	ICD-9-CM	Diagnosis
427.41	Ventricular fibrillation	ICD-9-CM	Diagnosis
427.42	Ventricular flutter	ICD-9-CM	Diagnosis
427.5	Cardiac arrest	ICD-9-CM	Diagnosis
427.6	Premature beats	ICD-9-CM	Diagnosis
427.60	Unspecified premature beats	ICD-9-CM	Diagnosis
427.61	Supraventricular premature beats	ICD-9-CM	Diagnosis
427.69	Other premature beats	ICD-9-CM	Diagnosis
427.8	Other specified cardiac dysrhythmias	ICD-9-CM	Diagnosis
427.81	Sinoatrial node dysfunction	ICD-9-CM	Diagnosis
427.89	Other specified cardiac dysrhythmias	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
427.9	Unspecified cardiac dysrhythmia	ICD-9-CM	Diagnosis
429	Ill-defined descriptions and complications of heart disease	ICD-9-CM	Diagnosis
429.0	Unspecified myocarditis	ICD-9-CM	Diagnosis
429.1	Myocardial degeneration	ICD-9-CM	Diagnosis
429.2	Unspecified cardiovascular disease	ICD-9-CM	Diagnosis
429.3	Cardiomegaly	ICD-9-CM	Diagnosis
429.4	Functional disturbances following cardiac surgery	ICD-9-CM	Diagnosis
429.5	Rupture of chordae tendineae	ICD-9-CM	Diagnosis
429.6	Rupture of papillary muscle	ICD-9-CM	Diagnosis
429.7	Certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosis
429.71	Acquired cardiac septal defect	ICD-9-CM	Diagnosis
429.79	Other certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosis
429.8	Other ill-defined heart diseases	ICD-9-CM	Diagnosis
429.81	Other disorders of papillary muscle	ICD-9-CM	Diagnosis
429.82	Hyperkinetic heart disease	ICD-9-CM	Diagnosis
429.83	Takotsubo syndrome	ICD-9-CM	Diagnosis
429.89	Other ill-defined heart disease	ICD-9-CM	Diagnosis
429.9	Unspecified heart disease	ICD-9-CM	Diagnosis
140	Atherosclerosis	ICD-9-CM	Diagnosis
140.0	Atherosclerosis of aorta	ICD-9-CM	Diagnosis
440.1	Atherosclerosis of renal artery	ICD-9-CM	Diagnosis
140.2	Atherosclerosis of native arteries of the extremities	ICD-9-CM	Diagnosis
140.20	Atherosclerosis of native arteries of the extremities, unspecified	ICD-9-CM	Diagnosis
440.21	Atherosclerosis of native arteries of the extremities with intermittent claudication	ICD-9-CM	Diagnosis
440.22	Atherosclerosis of native arteries of the extremities with rest pain	ICD-9-CM	Diagnosis
140.23	Atherosclerosis of native arteries of the extremities with ulceration	ICD-9-CM	Diagnosis
140.24	Atherosclerosis of native arteries of the extremities with gangrene	ICD-9-CM	Diagnosis
140.29	Other atherosclerosis of native arteries of the extremities	ICD-9-CM	Diagnosis
140.3	Atherosclerosis of bypass graft of extremities	ICD-9-CM	Diagnosis
140.30	Atherosclerosis of unspecified bypass graft of extremities	ICD-9-CM	Diagnosis
40.31	Atherosclerosis of autologous vein bypass graft of extremities	ICD-9-CM	Diagnosis
140.32	Atherosclerosis of nonautologous biological bypass graft of extremities	ICD-9-CM	Diagnosis
440.4	Chronic total occlusion of artery of the extremities	ICD-9-CM	Diagnosis
440.8	Atherosclerosis of other specified arteries	ICD-9-CM	Diagnosis
140.9	Generalized and unspecified atherosclerosis	ICD-9-CM	Diagnosis
	Stroke (Broad Definition)		
430	Subarachnoid hemorrhage	ICD-9-CM	Diagnosis
431	Intracerebral hemorrhage	ICD-9-CM	Diagnosis
432	Other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
432.0	Nontraumatic extradural hemorrhage	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
432.1	Subdural hemorrhage	ICD-9-CM	Diagnosis
432.9	Unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
433	Occlusion and stenosis of precerebral arteries	ICD-9-CM	Diagnosis
433.0	Occlusion and stenosis of basilar artery	ICD-9-CM	Diagnosis
433.00	Occlusion and stenosis of basilar artery without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM	Diagnosis
433.1	Occlusion and stenosis of carotid artery	ICD-9-CM	Diagnosis
433.10	Occlusion and stenosis of carotid artery without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM	Diagnosis
433.2	Occlusion and stenosis of vertebral artery	ICD-9-CM	Diagnosis
433.20	Occlusion and stenosis of vertebral artery without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.3	Occlusion and stenosis of multiple and bilateral precerebral arteries	ICD-9-CM	Diagnosis
433.30	Occlusion and stenosis of multiple and bilateral precerebral arteries without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM	Diagnosis
433.8	Occlusion and stenosis of other specified precerebral artery	ICD-9-CM	Diagnosis
433.80	Occlusion and stenosis of other specified precerebral artery without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.9	Occlusion and stenosis of unspecified precerebral artery	ICD-9-CM	Diagnosis
433.90	Occlusion and stenosis of unspecified precerebral artery without mention of cerebral infarction	ICD-9-CM	Diagnosis
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
434	Occlusion of cerebral arteries	ICD-9-CM	Diagnosis
434.0	Cerebral thrombosis	ICD-9-CM	Diagnosis
434.00	Cerebral thrombosis without mention of cerebral infarction	ICD-9-CM	Diagnosis
434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM	Diagnosis
434.1	Cerebral embolism	ICD-9-CM	Diagnosis
434.10	Cerebral embolism without mention of cerebral infarction	ICD-9-CM	Diagnosis
434.11	Cerebral embolism with cerebral infarction	ICD-9-CM	Diagnosis
434.9	Unspecified cerebral artery occlusion	ICD-9-CM	Diagnosis
434.90	Unspecified cerebral artery occlusion without mention of cerebral infarction	ICD-9-CM	Diagnosis
434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM	Diagnosis
436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
	Stroke (Narrow Definition)		
430	Subarachnoid hemorrhage	ICD-9-CM	Diagnosis
431	Intracerebral hemorrhage	ICD-9-CM	Diagnosis
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM	Diagnosis
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM	Diagnosis
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM	Diagnosis
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM	Diagnosis
434.11	Cerebral embolism with cerebral infarction	ICD-9-CM	Diagnosis
434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM	Diagnosis
436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM	Diagnosis
	Peripheral Arterial Disease		
443.9	Unspecified peripheral vascular disease	ICD-9-CM	Diagnosis
	Coronary Revascularization Procedure		
	Coronary Artery Bypass Graft		
33510	Coronary artery bypass, vein only; single coronary venous graft	CPT-4	Procedure
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	CPT-4	Procedure
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	CPT-4	Procedure
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	CPT-4	Procedure
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	CPT-4	Procedure
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	CPT-4	Procedure
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	Procedure
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	Procedure
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	Procedure
3351F	Negative screen for depressive symptoms as categorized by using a standardized depression screening/assessment tool (MDD)	CPT-2	Procedure
33520	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Single Graft	CPT-4	Procedure
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	Procedure



Code	Description	Code Type	Code Category
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	Procedure
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	Procedure
33525	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Two Coronary Grafts	CPT-4	Procedure
33528	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Three Or More Coronary Grafts	CPT-4	Procedure
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	CPT-4	Procedure
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	CPT-4	Procedure
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	CPT-4	Procedure
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	CPT-4	Procedure
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	CPT-4	Procedure
33560	Myocardial Operation Combined With Coronary Bypass Procedure	CPT-4	Procedure
33570	CORONARY ANGIOPLASTY W/BYPASS	CPT-4	Procedure
33572	Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right coronary artery performed in conjunction with coronary artery bypass graft procedure, each vessel (List separately in addition to primary procedure)	CPT-4	Procedure
33575	CORON ANGIOPLSTY W/BYPASS; COMBO W/VASCULARIZAT	CPT-4	Procedure
35600	Harvest of upper extremity artery, 1 segment, for coronary artery bypass procedure (List separately in addition to code for primary procedure)	CPT-4	Procedure
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	ICD-9-CM	Procedure
36.11	(Aorto)coronary bypass of one coronary artery	ICD-9-CM	Procedure
36.12	(Aorto)coronary bypass of two coronary arteries	ICD-9-CM	Procedure
36.13	(Aorto)coronary bypass of three coronary arteries	ICD-9-CM	Procedure
36.14	(Aorto)coronary bypass of four or more coronary arteries	ICD-9-CM	Procedure
36.15	Single internal mammary-coronary artery bypass	ICD-9-CM	Procedure
36.16	Double internal mammary-coronary artery bypass	ICD-9-CM	Procedure
36.17	Abdominal-coronary artery bypass	ICD-9-CM	Procedure
36.19	Other bypass anastomosis for heart revascularization	ICD-9-CM	Procedure
36.2	Heart revascularization by arterial implant	ICD-9-CM	Procedure
996.03	Mechanical complication due to coronary bypass graft	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
S2205	Minimally invasive direct coronary artery bypass surgery involving mini- thoracotomy or mini-sternotomy surgery, performed under direct vision; using arterial graft(s), single coronary arterial graft	HCPCS	Procedure
S2206	Minimally invasive direct coronary artery bypass surgery involving mini- thoracotomy or mini-sternotomy surgery, performed under direct vision; using arterial graft(s), 2 coronary arterial grafts	HCPCS	Procedure
S2207	Minimally invasive direct coronary artery bypass surgery involving mini- thoracotomy or mini-sternotomy surgery, performed under direct vision; using venous graft only, single coronary venous graft	HCPCS	Procedure
S2208	Minimally invasive direct coronary artery bypass surgery involving mini- thoracotomy or mini-sternotomy surgery, performed under direct vision; using single arterial and venous graft(s), single venous graft	HCPCS	Procedure
S2209	Minimally invasive direct coronary artery bypass surgery involving mini- thoracotomy or mini-sternotomy surgery, performed under direct vision; using 2 arterial grafts and single venous graft	HCPCS	Procedure
V45.81	Postprocedural aortocoronary bypass status	ICD-9-CM	Diagnosis
	Percutaneous Coronary Intervention		
00.66	Percutaneous transluminal coronary angioplasty [PTCA]	ICD-9-CM	Procedure
17.55	Transluminal coronary atherectomy	ICD-9-CM	Procedure
36.01	Single vessel percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy without mention of thrombolytic agent	ICD-9-CM	Procedure
36.02	Single vessel percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy with thrombolytic agent	ICD-9-CM	Procedure
36.03	Open chest coronary artery angioplasty	ICD-9-CM	Procedure
36.04	Intracoronary artery thrombolytic infusion	ICD-9-CM	Procedure
36.05	Multiple vessel (percutaneous) transluminal coronary angioplasty [PTCA] or coronary atherectomy performed during the same operation, with or without mention of thrombolytic agent	ICD-9-CM	Procedure
36.06	Insertion of non-drug-eluting coronary artery stent(s)	ICD-9-CM	Procedure
36.07	Insertion of drug-eluting coronary artery stent(s)	ICD-9-CM	Procedure
36.09	Other removal of coronary artery obstruction	ICD-9-CM	Procedure
37.22	Left heart cardiac catheterization	ICD-9-CM	Procedure
37.23	Combined right and left heart cardiac catheterization	ICD-9-CM	Procedure
88.50	Angiocardiography, not otherwise specified	ICD-9-CM	Procedure
88.51	Angiocardiography of venae cavae	ICD-9-CM	Procedure
88.52	Angiocardiography of right heart structures	ICD-9-CM	Procedure
88.53	Angiocardiography of left heart structures	ICD-9-CM	Procedure
88.54	Combined right and left heart angiocardiography	ICD-9-CM	Procedure
88.55	Coronary arteriography using single catheter	ICD-9-CM	Procedure
88.56	Coronary arteriography using two catheters	ICD-9-CM	Procedure
88.57	Other and unspecified coronary arteriography	ICD-9-CM	Procedure



Code	Description	Code Type	Code Category
88.58	Negative-contrast cardiac roentgenography	ICD-9-CM	Procedure
88.59	Intra-operative coronary fluorescence vascular angiography	ICD-9-CM	Procedure
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure)	CPT-4	Procedure
92974	Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure)	CPT-4	Procedure
92977	Thrombolysis, coronary; by intravenous infusion	CPT-4	Procedure
92980	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	CPT-4	Procedure
92981	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
92982	Percutaneous transluminal coronary balloon angioplasty; single vessel	CPT-4	Procedure
92984	Percutaneous transluminal coronary balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
92987	Percutaneous balloon valvuloplasty; mitral valve	CPT-4	Procedure
92995	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; single vessel	CPT-4	Procedure
92996	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
G0290	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	HCPCS	Procedure
G0291	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel	HCPCS	Procedure
V45.82	Postprocedural percutaneous transluminal coronary angioplasty status	ICD-9-CM	Diagnosis
	Carotid Revascularization Procedure		
	Carotid Endarterectomy, Stenting, Angioplasty or Atherec	ctomy	
00.61	Percutaneous angioplasty of extracranial vessel(s)	ICD-9-CM	Procedure
00.63	Percutaneous insertion of carotid artery stent(s)	ICD-9-CM	Procedure



Code	Description	Code Type	Code Category
0076T	Transcatheter placement of extracranial vertebral artery stent(s), including radiologic supervision and interpretation, open or percutaneous; each additional vessel (List separately in addition to code for primary procedure)	CPT Category III	Procedure
35301	Thromboendarterectomy, including patch graft, if performed; carotid, vertebral, subclavian, by neck incision	CPT-4	Procedure
35390	Reoperation, carotid, thromboendarterectomy, more than 1 month after original operation (List separately in addition to code for primary procedure)	CPT-4	Procedure
35501	Bypass graft, with vein; common carotid-ipsilateral internal carotid	CPT-4	Procedure
35601	Bypass graft, with other than vein; common carotid-ipsilateral internal carotid	CPT-4	Procedure
35901	Excision of infected graft; neck	CPT-4	Procedure
37215	Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological supervision and interpretation; with distal embolic protection	CPT-4	Procedure
37216	Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological supervision and interpretation; without distal embolic protection	СРТ-4	Procedure
38.11	Endarterectomy of intracranial vessels	ICD-9-CM	Procedure
38.12	Endarterectomy of other vessels of head and neck	ICD-9-CM	Procedure
S2211	Transcatheter placement of intravascular stent(s), carotid artery, percutaneous, unilateral (if performed bilaterally, use-50 modifier)	HCPCS	Procedure
	Carotid Bypass		
39.28	Extracranial-intracranial (EC-IC) vascular bypass	ICD-9-CM	Procedure
	Lower Extremity Revascularization Procedure		
	Lower Extremity Endarterectomy, Stenting, Angioplasty or Art	· ·	
35454	Transluminal balloon angioplasty, open; iliac	CPT-4	Procedure
35456	Transluminal balloon angioplasty, open; femoral-popliteal	CPT-4	Procedure
35459	Transluminal balloon angioplasty, open; tibioperoneal trunk and branches	CPT-4	Procedure
35470	Transluminal balloon angioplasty, percutaneous; tibioperoneal trunk or branches, each vessel	CPT-4	Procedure
35473	Transluminal balloon angioplasty, percutaneous; iliac	CPT-4	Procedure
35474	Transluminal balloon angioplasty, percutaneous; femoral-popliteal	CPT-4	Procedure
35482	Transluminal peripheral atherectomy, open; iliac	CPT-4	Procedure
35483	Transluminal peripheral atherectomy, open; femoral-popliteal	CPT-4	Procedure
35492	Transluminal peripheral atherectomy, percutaneous; iliac	CPT-4	Procedure
35493	Transluminal peripheral atherectomy, percutaneous; femoral-popliteal	CPT-4	Procedure



Code	Description	Code Type	Code Category
35495	Transluminal peripheral atherectomy, percutaneous; tibioperoneal trunk and branches		Procedure
37207	Transcatheter placement of an intravascular stent(s) (except coronary, carotid, vertebral, iliac and lower extremity arteries), open; initial vessel	CPT-4	Procedure
37208	Transcatheter placement of an intravascular stent(s) (except coronary, carotid, vertebral, iliac and lower extremity arteries), open; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	CPT-4	Procedure
37221	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37222	Revascularization, endovascular, open or percutaneous, iliac artery, each additional ipsilateral iliac vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)	CPT-4	Procedure
37223	Revascularization, endovascular, open or percutaneous, iliac artery, each additional ipsilateral iliac vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	CPT-4	Procedure
37224	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty	CPT-4	Procedure
37225	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with atherectomy, includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37226	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37227	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37228	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty	CPT-4	Procedure
37229	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with atherectomy, includes angioplasty within the same vessel, when performed	CPT-4	Procedure



Code	Description	Code Type	Code Category
37230	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37231	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	CPT-4	Procedure
37232	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)	CPT-4	Procedure
37233	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	CPT-4	Procedure
37234	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	CPT-4	Procedure
37235	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	CPT-4	Procedure
38.10	Endarterectomy, unspecified site	ICD-9-CM	Procedure
38.18	Endarterectomy of lower limb arteries	ICD-9-CM	Procedure
	Lower Extremity Bypass		
35666	Bypass graft, with other than vein; femoral-anterior tibial, posterior tibial, or peroneal artery	CPT-4	Procedure
35351	Thromboendarterectomy, including patch graft, if performed; iliac	CPT-4	Procedure
35355	Thromboendarterectomy, including patch graft, if performed; iliofemoral	CPT-4	Procedure
35361	Thromboendarterectomy, including patch graft, if performed; combined aortoiliac	CPT-4	Procedure
35363	Thromboendarterectomy, including patch graft, if performed; combined aortoiliofemoral	CPT-4	Procedure
35371	Thromboendarterectomy, including patch graft, if performed; common femoral	CPT-4	Procedure
35372	Thromboendarterectomy, including patch graft, if performed; deep (profunda) femoral	CPT-4	Procedure



Code	Description	Code Type	Code Category
35521	Bypass graft, with vein; axillary-femoral	CPT-4	Procedure
35533	Bypass graft, with vein; axillary-femoral-femoral	CPT-4	Procedure
35541	Bypass graft, with vein; aortoiliac or bi-iliac	CPT-4	Procedure
35546	Bypass graft, with vein; aortofemoral or bifemoral	CPT-4	Procedure
35548	Bypass graft, with vein; aortoiliofemoral, unilateral	CPT-4	Procedure
35549	Bypass graft, with vein; aortoiliofemoral, bilateral	CPT-4	Procedure
35551	Bypass graft, with vein; aortofemoral-popliteal	CPT-4	Procedure
35556	Bypass graft, with vein; femoral-popliteal	CPT-4	Procedure
35558	Bypass graft, with vein; femoral-femoral	CPT-4	Procedure
35563	Bypass graft, with vein; ilioiliac	CPT-4	Procedure
35565	Bypass graft, with vein; iliofemoral	CPT-4	Procedure
35566	Bypass graft, with vein; femoral-anterior tibial, posterior tibial, peroneal artery or other distal vessels	CPT-4	Procedure
35570	Bypass graft, with vein; tibial-tibial, peroneal-tibial, or tibial/peroneal trunk-tibial	CPT-4	Procedure
35571	Bypass graft, with vein; popliteal-tibial, -peroneal artery or other distal vessels	CPT-4	Procedure
35582	In-situ vein bypass; aortofemoral-popliteal (only femoral-popliteal portior in-situ)	n CPT-4	Procedure
35583	In-situ vein bypass; femoral-popliteal	CPT-4	Procedure
35585	In-situ vein bypass; femoral-anterior tibial, posterior tibial, or peroneal artery	CPT-4	Procedure
35587	In-situ vein bypass; popliteal-tibial, peroneal	CPT-4	Procedure
35621	Bypass graft, with other than vein; axillary-femoral	CPT-4	Procedure
35623	Bypass graft, with other than vein; axillary-popliteal or -tibial	CPT-4	Procedure
35637	Bypass graft, with other than vein; aortoiliac	CPT-4	Procedure
35638	Bypass graft, with other than vein; aortobi-iliac	CPT-4	Procedure
35641	Bypass graft, with other than vein; aortoiliac or bi-iliac	CPT-4	Procedure
35646	Bypass graft, with other than vein; aortobifemoral	CPT-4	Procedure
35647	Bypass graft, with other than vein; aortofemoral	CPT-4	Procedure
35651	Bypass graft, with other than vein; aortofemoral-popliteal	CPT-4	Procedure
35654	Bypass graft, with other than vein; axillary-femoral-femoral	CPT-4	Procedure
35656	Bypass graft, with other than vein; femoral-popliteal	CPT-4	Procedure
35661	Bypass graft, with other than vein; femoral-femoral	CPT-4	Procedure
35663	Bypass graft, with other than vein; ilioiliac	CPT-4	Procedure
35665	Bypass graft, with other than vein; iliofemoral	CPT-4	Procedure
35671	Bypass graft, with other than vein; popliteal-tibial or -peroneal artery	CPT-4	Procedure
35681	Bypass graft; composite, prosthetic and vein (List separately in addition to code for primary procedure)	o CPT-4	Procedure
35682	Bypass graft; autogenous composite, 2 segments of veins from 2 locations (List separately in addition to code for primary procedure)	S CPT-4	Procedure



Code	Description	Code Type	Code Category
35683	Bypass graft; autogenous composite, 3 or more segments of vein from 2 or more locations (List separately in addition to code for primary procedure)	CPT-4	Procedure
35879	Revision, lower extremity arterial bypass, without thrombectomy, open; with vein patch angioplasty	CPT-4	Procedure
39.25	Aorta-iliac-femoral bypass	ICD-9-CM	Procedure
39.29	Other (peripheral) vascular shunt or bypass	ICD-9-CM	Procedure
	Lower Extremity Amputation		
27295	Disarticulation of hip	CPT-4	Procedure
27590	Amputation, thigh, through femur, any level;	CPT-4	Procedure
27591	Amputation, thigh, through femur, any level; immediate fitting technique including first cast	CPT-4	Procedure
27592	Amputation, thigh, through femur, any level; open, circular (guillotine)	CPT-4	Procedure
27598	Disarticulation at knee	CPT-4	Procedure
27880	Amputation, leg, through tibia and fibula;	CPT-4	Procedure
27881	Amputation, leg, through tibia and fibula; with immediate fitting technique including application of first cast	CPT-4	Procedure
27882	Amputation, leg, through tibia and fibula; open, circular (guillotine)	CPT-4	Procedure
27888	Amputation, ankle, through malleoli of tibia and fibula (eg, Syme, Pirogoff type procedures), with plastic closure and resection of nerves	CPT-4	Procedure
27889	Ankle disarticulation	CPT-4	Procedure
28800	Amputation, foot; midtarsal (eg, Chopart type procedure)	CPT-4	Procedure
28805	Amputation, foot; transmetatarsal	CPT-4	Procedure
28810	Amputation, metatarsal, with toe, single	CPT-4	Procedure
28820	Amputation, toe; metatarsophalangeal joint	CPT-4	Procedure
28825	Amputation, toe; interphalangeal joint	CPT-4	Procedure
34.10	Lower limb amputation, not otherwise specified	ICD-9-CM	Procedure
34.11	Amputation of toe	ICD-9-CM	Procedure
34.12	Amputation through foot	ICD-9-CM	Procedure
34.13	Disarticulation of ankle	ICD-9-CM	Procedure
34.14	Amputation of ankle through malleoli of tibia and fibula	ICD-9-CM	Procedure
34.15	Other amputation below knee	ICD-9-CM	Procedure
34.16	Disarticulation of knee	ICD-9-CM	Procedure
34.17	Amputation above knee	ICD-9-CM	Procedure
	Comorbidity		
102	Asthma		Diagrandia
493	Asthma	ICD-9-CM	Diagnosis
493.0	Extrinsic asthma	ICD-9-CM	Diagnosis
493.00	Extrinsic asthma, unspecified	ICD-9-CM	Diagnosis
493.01	Extrinsic asthma with status asthmaticus	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
493.02	Extrinsic asthma, with (acute) exacerbation	ICD-9-CM	Diagnosis
493.1	Intrinsic asthma	ICD-9-CM	Diagnosis
493.10	Intrinsic asthma, unspecified	ICD-9-CM	Diagnosis
493.11	Intrinsic asthma with status asthmaticus	ICD-9-CM	Diagnosis
493.12	Intrinsic asthma, with (acute) exacerbation	ICD-9-CM	Diagnosis
493.2	Chronic obstructive asthma	ICD-9-CM	Diagnosis
493.20	Chronic obstructive asthma, unspecified	ICD-9-CM	Diagnosis
493.21	Chronic obstructive asthma with status asthmaticus	ICD-9-CM	Diagnosis
493.22	Chronic obstructive asthma, with (acute) exacerbation	ICD-9-CM	Diagnosis
493.8	Other forms of asthma	ICD-9-CM	Diagnosis
493.81	Exercise induced bronchospasm	ICD-9-CM	Diagnosis
493.82	Cough variant asthma	ICD-9-CM	Diagnosis
493.9	Unspecified asthma	ICD-9-CM	Diagnosis
493.90	Asthma, unspecified, unspecified status	ICD-9-CM	Diagnosis
493.91	Asthma, unspecified with status asthmaticus	ICD-9-CM	Diagnosis
493.92	Asthma, unspecified, with (acute) exacerbation	ICD-9-CM	Diagnosis
	Cancer (Excluding Non-Melanoma Skin Cancer)		
140	Malignant neoplasm of lip	ICD-9-CM	Diagnosis
140.0	Malignant neoplasm of upper lip, vermilion border	ICD-9-CM	Diagnosis
140.1	Malignant neoplasm of lower lip, vermilion border	ICD-9-CM	Diagnosis
140.3	Malignant neoplasm of upper lip, inner aspect	ICD-9-CM	Diagnosis
140.4	Malignant neoplasm of lower lip, inner aspect	ICD-9-CM	Diagnosis
140.5	Malignant neoplasm of lip, inner aspect, unspecified as to upper or lower	ICD-9-CM	Diagnosis
140.6	Malignant neoplasm of commissure of lip	ICD-9-CM	Diagnosis
140.8	Malignant neoplasm of other sites of lip	ICD-9-CM	Diagnosis
140.9	Malignant neoplasm of lip, vermilion border, unspecified as to upper or lower	ICD-9-CM	Diagnosis
141	Malignant neoplasm of tongue	ICD-9-CM	Diagnosis
141.0	Malignant neoplasm of base of tongue	ICD-9-CM	Diagnosis
141.1	Malignant neoplasm of dorsal surface of tongue	ICD-9-CM	Diagnosis
141.2	Malignant neoplasm of tip and lateral border of tongue	ICD-9-CM	Diagnosis
141.3	Malignant neoplasm of ventral surface of tongue	ICD-9-CM	Diagnosis
141.4	Malignant neoplasm of anterior two-thirds of tongue, part unspecified	ICD-9-CM	Diagnosis
141.5	Malignant neoplasm of junctional zone of tongue	ICD-9-CM	Diagnosis
141.6	Malignant neoplasm of lingual tonsil	ICD-9-CM	Diagnosis
141.8	Malignant neoplasm of other sites of tongue	ICD-9-CM	Diagnosis
141.9	Malignant neoplasm of tongue, unspecified site	ICD-9-CM	Diagnosis
142	Malignant neoplasm of major salivary glands	ICD-9-CM	Diagnosis
142.0	Malignant neoplasm of parotid gland	ICD-9-CM	Diagnosis
142.1	Malignant neoplasm of submandibular gland	ICD-9-CM	Diagnosis
142.2	Malignant neoplasm of sublingual gland	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
142.8	Malignant neoplasm of other major salivary glands	ICD-9-CM	Diagnosis
142.9	Malignant neoplasm of salivary gland, unspecified	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 of other sites of gum	ICD-9-CM	Diagnosis
143.9	Malignant neoplasm of gum, unspecified site	ICD-9-CM	Diagnosis
144	Malignant neoplasm of floor of mouth	ICD-9-CM	Diagnosis
144.0	Malignant neoplasm of anterior portion of floor of mouth	ICD-9-CM	Diagnosis
144.1	Malignant neoplasm of lateral portion of floor of mouth	ICD-9-CM	Diagnosis
144.8	Malignant neoplasm of other sites of floor of mouth	ICD-9-CM	Diagnosis
144.9	Malignant neoplasm of floor of mouth, part unspecified	ICD-9-CM	Diagnosis
145	Malignant neoplasm of other and unspecified parts of mouth	ICD-9-CM	Diagnosis
145.0	Malignant neoplasm of cheek mucosa	ICD-9-CM	Diagnosis
145.1	Malignant neoplasm of vestibule of 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 of palate, unspecified	ICD-9-CM	Diagnosis
145.6	Malignant neoplasm of retromolar area	ICD-9-CM	Diagnosis
145.8	Malignant neoplasm of other specified parts of mouth	ICD-9-CM	Diagnosis
145.9	Malignant neoplasm of mouth, unspecified 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 of tonsillar fossa	ICD-9-CM	Diagnosis
146.2	Malignant neoplasm of tonsillar pillars (anterior) (posterior)	ICD-9-CM	Diagnosis
146.3	Malignant neoplasm of vallecula	ICD-9-CM	Diagnosis
146.4	Malignant neoplasm of anterior aspect of epiglottis	ICD-9-CM	Diagnosis
146.5	Malignant neoplasm of junctional region of oropharynx	ICD-9-CM	Diagnosis
146.6	Malignant neoplasm of lateral wall of oropharynx	ICD-9-CM	Diagnosis
146.7	Malignant neoplasm of posterior wall of oropharynx	ICD-9-CM	Diagnosis
146.8	Malignant neoplasm of other specified sites of oropharynx	ICD-9-CM	Diagnosis
146.9	Malignant neoplasm of oropharynx, unspecified site	ICD-9-CM	Diagnosis
147	Malignant neoplasm of nasopharynx	ICD-9-CM	Diagnosis
147.0	Malignant neoplasm of superior wall of nasopharynx	ICD-9-CM	Diagnosis
147.1	Malignant neoplasm of posterior wall of nasopharynx	ICD-9-CM	Diagnosis
147.2	Malignant neoplasm of lateral wall of nasopharynx	ICD-9-CM	Diagnosis
147.3	Malignant neoplasm of anterior wall of nasopharynx	ICD-9-CM	Diagnosis
147.8	Malignant neoplasm of other specified sites of nasopharynx	ICD-9-CM	Diagnosis
147.9	Malignant neoplasm of nasopharynx, unspecified site	ICD-9-CM	Diagnosis
148	Malignant neoplasm of hypopharynx	ICD-9-CM	Diagnosis
148.0	Malignant neoplasm of postcricoid region of hypopharynx	ICD-9-CM	Diagnosis
148.1	Malignant neoplasm of pyriform sinus	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
148.2	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	ICD-9-CM	Diagnosis
148.3	Malignant neoplasm of posterior hypopharyngeal wall	ICD-9-CM	Diagnosis
148.8	Malignant neoplasm of other specified sites of hypopharynx	ICD-9-CM	Diagnosis
148.9	Malignant neoplasm of hypopharynx, unspecified site	ICD-9-CM	Diagnosis
149	Malignant neoplasm of other and ill-defined sites within the lip, oral	ICD-9-CM	Diagnosis
	cavity, and pharynx		
149.0	Malignant neoplasm of pharynx, unspecified	ICD-9-CM	Diagnosis
149.1	Malignant neoplasm of Waldeyer's ring	ICD-9-CM	Diagnosis
149.8	Malignant neoplasm of other sites within the lip and oral cavity	ICD-9-CM	Diagnosis
149.9	Malignant neoplasm of ill-defined sites of lip and oral cavity	ICD-9-CM	Diagnosis
150	Malignant neoplasm of esophagus	ICD-9-CM	Diagnosis
150.0	Malignant neoplasm of cervical esophagus	ICD-9-CM	Diagnosis
150.1	Malignant neoplasm of thoracic esophagus	ICD-9-CM	Diagnosis
150.2	Malignant neoplasm of abdominal esophagus	ICD-9-CM	Diagnosis
150.3	Malignant neoplasm of upper third of esophagus	ICD-9-CM	Diagnosis
150.4	Malignant neoplasm of middle third of esophagus	ICD-9-CM	Diagnosis
150.5	Malignant neoplasm of lower third of esophagus	ICD-9-CM	Diagnosis
150.8	Malignant neoplasm of other specified part of esophagus	ICD-9-CM	Diagnosis
150.9	Malignant neoplasm of esophagus, unspecified 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 of pyloric antrum	ICD-9-CM	Diagnosis
151.3	Malignant neoplasm of fundus of stomach	ICD-9-CM	Diagnosis
151.4	Malignant neoplasm of body of stomach	ICD-9-CM	Diagnosis
151.5	Malignant neoplasm of lesser curvature of stomach, unspecified	ICD-9-CM	Diagnosis
151.6	Malignant neoplasm of greater curvature of stomach, unspecified	ICD-9-CM	Diagnosis
151.8	Malignant neoplasm of other specified sites of stomach	ICD-9-CM	Diagnosis
151.9	Malignant neoplasm of stomach, unspecified site	ICD-9-CM	Diagnosis
152	Malignant neoplasm of small intestine, including duodenum	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	Malignant neoplasm of Meckel's diverticulum	ICD-9-CM	Diagnosis
152.8	Malignant neoplasm of other specified sites of small intestine	ICD-9-CM	Diagnosis
152.9	Malignant neoplasm of small intestine, unspecified site	ICD-9-CM	Diagnosis
153	Malignant neoplasm of colon	ICD-9-CM	Diagnosis
153.0	Malignant neoplasm of hepatic flexure	ICD-9-CM	Diagnosis
153.1	Malignant neoplasm of transverse colon	ICD-9-CM	Diagnosis
153.2	Malignant neoplasm of descending colon	ICD-9-CM	Diagnosis
153.3	Malignant neoplasm of sigmoid colon	ICD-9-CM	Diagnosis
153.4	Malignant neoplasm of signification and a second se	ICD-9-CM	Diagnosis
153.5	Malignant neoplasm of appendix	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
153.6	Malignant neoplasm of ascending colon	ICD-9-CM	Diagnosis
153.7	Malignant neoplasm of splenic flexure	ICD-9-CM	Diagnosis
153.8	Malignant neoplasm of other specified sites of large intestine	ICD-9-CM	Diagnosis
153.9	Malignant neoplasm of colon, unspecified site	ICD-9-CM	Diagnosis
154	Malignant neoplasm of rectum, rectosigmoid junction, and anus	ICD-9-CM	Diagnosis
154.0	Malignant neoplasm of rectosigmoid junction	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 of anus, unspecified site	ICD-9-CM	Diagnosis
154.8	Malignant neoplasm of other sites of rectum, rectosigmoid junction, and anus	ICD-9-CM	Diagnosis
155	Malignant neoplasm of liver and intrahepatic bile ducts	ICD-9-CM	Diagnosis
155.0	Malignant neoplasm of liver, primary	ICD-9-CM	Diagnosis
155.1	Malignant neoplasm of intrahepatic bile ducts	ICD-9-CM	Diagnosis
155.2	Malignant neoplasm of liver, not specified as primary or secondary	ICD-9-CM	Diagnosis
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	ICD-9-CM	Diagnosis
156.0	Malignant neoplasm of gallbladder	ICD-9-CM	Diagnosis
156.1	Malignant neoplasm of extrahepatic bile ducts	ICD-9-CM	Diagnosis
156.2	Malignant neoplasm of ampulla of Vater	ICD-9-CM	Diagnosis
156.8	Malignant neoplasm of other specified sites of gallbladder and extrahepatic bile ducts	ICD-9-CM	Diagnosis
156.9	Malignant neoplasm of biliary tract, part unspecified site	ICD-9-CM	Diagnosis
157	Malignant neoplasm of pancreas	ICD-9-CM	Diagnosis
157.0	Malignant neoplasm of head of pancreas	ICD-9-CM	Diagnosis
157.1	Malignant neoplasm of body of pancreas	ICD-9-CM	Diagnosis
157.2	Malignant neoplasm of tail of pancreas	ICD-9-CM	Diagnosis
157.3	Malignant neoplasm of pancreatic duct	ICD-9-CM	Diagnosis
157.4	Malignant neoplasm of islets of Langerhans	ICD-9-CM	Diagnosis
157.8	Malignant neoplasm of other specified sites of pancreas	ICD-9-CM	Diagnosis
157.9	Malignant neoplasm of pancreas, part unspecified	ICD-9-CM	Diagnosis
158	Malignant neoplasm of retroperitoneum and peritoneum	ICD-9-CM	Diagnosis
158.0	Malignant neoplasm of retroperitoneum	ICD-9-CM	Diagnosis
158.8	Malignant neoplasm of specified parts of peritoneum	ICD-9-CM	Diagnosis
158.9	Malignant neoplasm of peritoneum, unspecified	ICD-9-CM	Diagnosis
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	ICD-9-CM	Diagnosis
159.0	Malignant neoplasm of intestinal tract, part unspecified	ICD-9-CM	Diagnosis
159.1	Malignant neoplasm of spleen, not elsewhere classified	ICD-9-CM	Diagnosis
159.8	Malignant neoplasm of other sites of digestive system and intra- abdominal organs	ICD-9-CM	Diagnosis
159.9	Malignant neoplasm of ill-defined sites of digestive organs and peritoneum	ICD-9-CM	Diagnosis


Code	Description	Code Type	Code Category
160	Malignant neoplasm of nasal cavities, middle ear, and accessory sinuses	ICD-9-CM	Diagnosis
160.0	Malignant neoplasm of nasal cavities	ICD-9-CM	Diagnosis
160.1	Malignant neoplasm of auditory tube, middle ear, and mastoid air cells	ICD-9-CM	Diagnosis
160.2	Malignant neoplasm of maxillary sinus	ICD-9-CM	Diagnosis
160.3	Malignant neoplasm of ethmoidal sinus	ICD-9-CM	Diagnosis
160.4	Malignant neoplasm of frontal sinus	ICD-9-CM	Diagnosis
160.5	Malignant neoplasm of sphenoidal sinus	ICD-9-CM	Diagnosis
160.8	Malignant neoplasm of other sites of nasal cavities, middle ear, and accessory sinuses	ICD-9-CM	Diagnosis
160.9	Malignant neoplasm of site of nasal cavities, middle ear, and accessory sinus, unspecified site	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	Malignant neoplasm of laryngeal cartilages	ICD-9-CM	Diagnosis
161.8	Malignant neoplasm of other specified sites of larynx	ICD-9-CM	Diagnosis
161.9	Malignant neoplasm of larynx, unspecified site	ICD-9-CM	Diagnosis
162	Malignant neoplasm of trachea, bronchus, and 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	Malignant neoplasm of upper lobe, bronchus, or lung	ICD-9-CM	Diagnosis
162.4	Malignant neoplasm of middle lobe, bronchus, or lung	ICD-9-CM	Diagnosis
162.5	Malignant neoplasm of lower lobe, bronchus, or lung	ICD-9-CM	Diagnosis
162.8	Malignant neoplasm of other parts of bronchus or lung	ICD-9-CM	Diagnosis
162.9	Malignant neoplasm of bronchus and lung, unspecified site	ICD-9-CM	Diagnosis
163	Malignant neoplasm of pleura	ICD-9-CM	Diagnosis
163.0	Malignant neoplasm of parietal pleura	ICD-9-CM	Diagnosis
163.1	Malignant neoplasm of visceral pleura	ICD-9-CM	Diagnosis
163.8	Malignant neoplasm of other specified sites of pleura	ICD-9-CM	Diagnosis
163.9	Malignant neoplasm of pleura, unspecified site	ICD-9-CM	Diagnosis
164	Malignant neoplasm of thymus, heart, and mediastinum	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	Malignant neoplasm of anterior mediastinum	ICD-9-CM	Diagnosis
164.3	Malignant neoplasm of posterior mediastinum	ICD-9-CM	Diagnosis
164.8	Malignant neoplasm of other parts of mediastinum	ICD-9-CM	Diagnosis
164.9	Malignant neoplasm of mediastinum, part unspecified	ICD-9-CM	Diagnosis
165	Malignant neoplasm of other and ill-defined sites within the respiratory system and intrathoracic organs	ICD-9-CM	Diagnosis
165.0	Malignant neoplasm of upper respiratory tract, part unspecified	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
165.8	Malignant neoplasm of other sites within the respiratory system and intrathoracic organs	ICD-9-CM	Diagnosis
165.9	Malignant neoplasm of ill-defined sites within the respiratory system	ICD-9-CM	Diagnosis
170	Malignant neoplasm of bone and articular cartilage	ICD-9-CM	Diagnosis
170.0	Malignant neoplasm of bones of skull and face, except mandible	ICD-9-CM	Diagnosis
170.1	Malignant neoplasm of mandible	ICD-9-CM	Diagnosis
170.2	Malignant neoplasm of vertebral column, excluding sacrum and coccyx	ICD-9-CM	Diagnosis
170.3	Malignant neoplasm of ribs, sternum, and clavicle	ICD-9-CM	Diagnosis
170.4	Malignant neoplasm of scapula and long bones of upper limb	ICD-9-CM	Diagnosis
170.5	Malignant neoplasm of short bones of upper limb	ICD-9-CM	Diagnosis
170.6	Malignant neoplasm of pelvic bones, sacrum, and coccyx	ICD-9-CM	Diagnosis
170.7	Malignant neoplasm of long bones of lower limb	ICD-9-CM	Diagnosis
170.8	Malignant neoplasm of short bones of lower limb	ICD-9-CM	Diagnosis
170.9	Malignant neoplasm of bone and articular cartilage, site unspecified	ICD-9-CM	Diagnosis
171	Malignant neoplasm of connective and other soft tissue	ICD-9-CM	Diagnosis
171.0	Malignant neoplasm of connective and other soft tissue of head, face, and neck	ICD-9-CM	Diagnosis
171.2	Malignant neoplasm of connective and other soft tissue of upper limb, including shoulder	ICD-9-CM	Diagnosis
171.3	Malignant neoplasm of connective and other soft tissue of lower limb, including hip	ICD-9-CM	Diagnosis
171.4	Malignant neoplasm of connective and other soft tissue of thorax	ICD-9-CM	Diagnosis
171.5	Malignant neoplasm of connective and other soft tissue of abdomen	ICD-9-CM	Diagnosis
171.6	Malignant neoplasm of connective and other soft tissue of pelvis	ICD-9-CM	Diagnosis
171.7	Malignant neoplasm of connective and other soft tissue of trunk, unspecified site	ICD-9-CM	Diagnosis
171.8	Malignant neoplasm of other specified sites of connective and other soft tissue	ICD-9-CM	Diagnosis
171.9	Malignant neoplasm of connective and other soft tissue, site unspecified	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	Malignant melanoma of skin of eyelid, including canthus	ICD-9-CM	Diagnosis
172.2	Malignant melanoma of skin of ear and external auditory canal	ICD-9-CM	Diagnosis
172.3	Malignant melanoma of skin of other and unspecified parts of face	ICD-9-CM	Diagnosis
172.4	Malignant melanoma of skin of scalp and neck	ICD-9-CM	Diagnosis
172.5	Malignant melanoma of skin of trunk, except scrotum	ICD-9-CM	Diagnosis
172.6	Malignant melanoma of skin of upper limb, including shoulder	ICD-9-CM	Diagnosis
172.7	Malignant melanoma of skin of lower limb, including hip	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
172.8	Malignant melanoma of other specified sites of skin	ICD-9-CM	Diagnosis
172.9	Melanoma of skin, site unspecified	ICD-9-CM	Diagnosis
174	Malignant neoplasm of female breast	ICD-9-CM	Diagnosis
174.0	Malignant neoplasm of nipple and areola of female breast	ICD-9-CM	Diagnosis
174.1	Malignant neoplasm of central portion of female breast	ICD-9-CM	Diagnosis
174.2	Malignant neoplasm of upper-inner quadrant of female breast	ICD-9-CM	Diagnosis
174.3	Malignant neoplasm of lower-inner quadrant of female breast	ICD-9-CM	Diagnosis
174.4	Malignant neoplasm of upper-outer quadrant of female breast	ICD-9-CM	Diagnosis
174.5	Malignant neoplasm of lower-outer quadrant of female breast	ICD-9-CM	Diagnosis
174.6	Malignant neoplasm of axillary tail of female breast	ICD-9-CM	Diagnosis
174.8	Malignant neoplasm of other specified sites of female breast	ICD-9-CM	Diagnosis
174.9	Malignant neoplasm of breast (female), unspecified site	ICD-9-CM	Diagnosis
175	Malignant neoplasm of male breast	ICD-9-CM	Diagnosis
175.0	Malignant neoplasm of nipple and areola of male breast	ICD-9-CM	Diagnosis
175.9	Malignant neoplasm of other and unspecified sites of male breast	ICD-9-CM	Diagnosis
176	Kaposi's sarcoma	ICD-9-CM	Diagnosis
176.0	Kaposi's sarcoma of skin	ICD-9-CM	Diagnosis
176.1	Kaposi's sarcoma of soft tissue	ICD-9-CM	Diagnosis
176.2	Kaposi's sarcoma of palate	ICD-9-CM	Diagnosis
176.3	Kaposi's sarcoma of gastrointestinal sites	ICD-9-CM	Diagnosis
176.4	Kaposi's sarcoma of lung	ICD-9-CM	Diagnosis
176.5	Kaposi's sarcoma of lymph nodes	ICD-9-CM	Diagnosis
176.8	Kaposi's sarcoma of other specified sites	ICD-9-CM	Diagnosis
176.9	Kaposi's sarcoma of unspecified site	ICD-9-CM	Diagnosis
179	Malignant neoplasm of uterus, part unspecified	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	Malignant neoplasm of other specified sites of cervix	ICD-9-CM	Diagnosis
180.9	Malignant neoplasm of cervix uteri, unspecified site	ICD-9-CM	Diagnosis
181	Malignant neoplasm of placenta	ICD-9-CM	Diagnosis
182	Malignant neoplasm of body of uterus	ICD-9-CM	Diagnosis
182.0	Malignant neoplasm of corpus uteri, except isthmus	ICD-9-CM	Diagnosis
182.1	Malignant neoplasm of isthmus	ICD-9-CM	Diagnosis
182.8	Malignant neoplasm of other specified sites of body of uterus	ICD-9-CM	Diagnosis
183	Malignant neoplasm of ovary and other uterine adnexa	ICD-9-CM	Diagnosis
183.0	Malignant neoplasm of ovary	ICD-9-CM	Diagnosis
183.2	Malignant neoplasm of fallopian tube	ICD-9-CM	Diagnosis
183.3	Malignant neoplasm of broad ligament of uterus	ICD-9-CM	Diagnosis
183.4	Malignant neoplasm of parametrium of uterus	ICD-9-CM	Diagnosis
183.5	Malignant neoplasm of round ligament of uterus	ICD-9-CM	Diagnosis
183.8	Malignant neoplasm of other specified sites of uterine adnexa	ICD-9-CM	Diagnosis
183.9	Malignant neoplasm of uterine adnexa, unspecified site	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
184	Malignant neoplasm of other and unspecified female genital organs	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
184.4	Malignant neoplasm of vulva, unspecified site	ICD-9-CM	Diagnosis
184.8	Malignant neoplasm of other specified sites of female genital organs	ICD-9-CM	Diagnosis
184.9	Malignant neoplasm of female genital organ, site unspecified	ICD-9-CM	Diagnosis
185	Malignant neoplasm of prostate	ICD-9-CM	Diagnosis
186	Malignant neoplasm of testis	ICD-9-CM	Diagnosis
186.0	Malignant neoplasm of undescended testis	ICD-9-CM	Diagnosis
186.9	Malignant neoplasm of other and unspecified testis	ICD-9-CM	Diagnosis
187	Malignant neoplasm of penis and other male genital organs	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	Malignant neoplasm of penis, part unspecified	ICD-9-CM	Diagnosis
187.5	Malignant neoplasm of epididymis	ICD-9-CM	Diagnosis
187.6	Malignant neoplasm of spermatic cord	ICD-9-CM	Diagnosis
187.7	Malignant neoplasm of scrotum	ICD-9-CM	Diagnosis
187.8	Malignant neoplasm of other specified sites of male genital organs	ICD-9-CM	Diagnosis
187.9	Malignant neoplasm of male genital organ, site unspecified	ICD-9-CM	Diagnosis
188	Malignant neoplasm of bladder	ICD-9-CM	Diagnosis
188.0	Malignant neoplasm of trigone of urinary bladder	ICD-9-CM	Diagnosis
188.1	Malignant neoplasm of dome of urinary bladder	ICD-9-CM	Diagnosis
188.2	Malignant neoplasm of lateral wall of urinary bladder	ICD-9-CM	Diagnosis
188.3	Malignant neoplasm of anterior wall of urinary bladder	ICD-9-CM	Diagnosis
188.4	Malignant neoplasm of posterior wall of urinary bladder	ICD-9-CM	Diagnosis
188.5	Malignant neoplasm of bladder neck	ICD-9-CM	Diagnosis
188.6	Malignant neoplasm of ureteric orifice	ICD-9-CM	Diagnosis
188.7	Malignant neoplasm of urachus	ICD-9-CM	Diagnosis
188.8	Malignant neoplasm of other specified sites of bladder	ICD-9-CM	Diagnosis
188.9	Malignant neoplasm of bladder, part unspecified	ICD-9-CM	Diagnosis
189	Malignant neoplasm of kidney and other and unspecified urinary organs	ICD-9-CM	Diagnosis
189.0	Malignant neoplasm of 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	Malignant neoplasm of paraurethral glands	ICD-9-CM	Diagnosis
189.8	Malignant neoplasm of other specified sites of urinary organs	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
189.9	Malignant neoplasm of urinary organ, site unspecified	ICD-9-CM	Diagnosis
190	Malignant neoplasm of eye	ICD-9-CM	Diagnosis
190.0	Malignant neoplasm of eyeball, except conjunctiva, cornea, retina, and choroid	ICD-9-CM	Diagnosis
190.1	Malignant neoplasm of orbit	ICD-9-CM	Diagnosis
190.2	Malignant neoplasm of 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
190.8	Malignant neoplasm of other specified sites of eye	ICD-9-CM	Diagnosis
190.9	Malignant neoplasm of eye, part unspecified	ICD-9-CM	Diagnosis
191	Malignant neoplasm of brain	ICD-9-CM	Diagnosis
191.0	Malignant neoplasm of cerebrum, except lobes and ventricles	ICD-9-CM	Diagnosis
191.1	Malignant neoplasm of frontal lobe of brain	ICD-9-CM	Diagnosis
191.2	Malignant neoplasm of temporal lobe of brain	ICD-9-CM	Diagnosis
191.3	Malignant neoplasm of parietal lobe of brain	ICD-9-CM	Diagnosis
191.4	Malignant neoplasm of occipital lobe of brain	ICD-9-CM	Diagnosis
191.5	Malignant neoplasm of ventricles of brain	ICD-9-CM	Diagnosis
191.6	Malignant neoplasm of cerebellum NOS	ICD-9-CM	Diagnosis
191.7	Malignant neoplasm of brain stem	ICD-9-CM	Diagnosis
191.8	Malignant neoplasm of other parts of brain	ICD-9-CM	Diagnosis
191.9	Malignant neoplasm of brain, unspecified site	ICD-9-CM	Diagnosis
192	Malignant neoplasm of other and unspecified parts of nervous system	ICD-9-CM	Diagnosis
192.0	Malignant neoplasm of cranial nerves	ICD-9-CM	Diagnosis
192.1	Malignant neoplasm of cerebral meninges	ICD-9-CM	Diagnosis
192.2	Malignant neoplasm of spinal cord	ICD-9-CM	Diagnosis
192.3	Malignant neoplasm of spinal meninges	ICD-9-CM	Diagnosis
192.8	Malignant neoplasm of other specified sites of nervous system	ICD-9-CM	Diagnosis
192.9	Malignant neoplasm of nervous system, part unspecified	ICD-9-CM	Diagnosis
193	Malignant neoplasm of thyroid gland	ICD-9-CM	Diagnosis
194	Malignant neoplasm of other endocrine glands and related structures	ICD-9-CM	Diagnosis
194.0	Malignant neoplasm of adrenal gland	ICD-9-CM	Diagnosis
194.1	Malignant neoplasm of parathyroid gland	ICD-9-CM	Diagnosis
194.3	Malignant neoplasm of pituitary gland and craniopharyngeal duct	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	Malignant neoplasm of aortic body and other paraganglia	ICD-9-CM	Diagnosis
194.8	Malignant neoplasm of other endocrine glands and related structures	ICD-9-CM	Diagnosis
			0



Code	Description	Code Type	Code Category
194.9	Malignant neoplasm of endocrine gland, site unspecified	ICD-9-CM	Diagnosis
195	Malignant neoplasm of other and ill-defined sites	ICD-9-CM	Diagnosis
195.0	Malignant neoplasm of head, face, and 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 of other specified sites	ICD-9-CM	Diagnosis
196	Secondary and unspecified malignant neoplasm of lymph nodes	ICD-9-CM	Diagnosis
196.0	Secondary and unspecified malignant neoplasm of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
196.1	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
196.2	Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
196.3	Secondary and unspecified malignant neoplasm of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
196.5	Secondary and unspecified malignant neoplasm of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
196.6	Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
196.8	Secondary and unspecified malignant neoplasm of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
196.9	Secondary and unspecified malignant neoplasm of lymph nodes, site unspecified	ICD-9-CM	Diagnosis
197	Secondary malignant neoplasm of respiratory and digestive systems	ICD-9-CM	Diagnosis
197.0	Secondary malignant neoplasm of lung	ICD-9-CM	Diagnosis
197.1	Secondary malignant neoplasm of mediastinum	ICD-9-CM	Diagnosis
197.2	Secondary malignant neoplasm of pleura	ICD-9-CM	Diagnosis
197.3	Secondary malignant neoplasm of other respiratory organs	ICD-9-CM	Diagnosis
197.4	Secondary malignant neoplasm of small intestine including duodenum	ICD-9-CM	Diagnosis
197.5	Secondary malignant neoplasm of large intestine and rectum	ICD-9-CM	Diagnosis
197.6	Secondary malignant neoplasm of retroperitoneum and peritoneum	ICD-9-CM	Diagnosis
197.7	Secondary malignant neoplasm of liver	ICD-9-CM	Diagnosis
197.8	Secondary malignant neoplasm of other digestive organs and spleen	ICD-9-CM	Diagnosis
198	Secondary malignant neoplasm of other specified sites	ICD-9-CM	Diagnosis
198.0	Secondary malignant neoplasm of kidney	ICD-9-CM	Diagnosis
198.1	Secondary malignant neoplasm of other urinary organs	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
198.2	Secondary malignant neoplasm of skin	ICD-9-CM	Diagnosis
198.3	Secondary malignant neoplasm of brain and spinal cord	ICD-9-CM	Diagnosis
198.4	Secondary malignant neoplasm of other parts of nervous system	ICD-9-CM	Diagnosis
198.5	Secondary malignant neoplasm of bone and bone marrow	ICD-9-CM	Diagnosis
198.6	Secondary malignant neoplasm of ovary	ICD-9-CM	Diagnosis
198.7	Secondary malignant neoplasm of adrenal gland	ICD-9-CM	Diagnosis
198.8	Secondary malignant neoplasm of other specified sites	ICD-9-CM	Diagnosis
198.81	Secondary malignant neoplasm of breast	ICD-9-CM	Diagnosis
198.82	Secondary malignant neoplasm of genital organs	ICD-9-CM	Diagnosis
198.89	Secondary malignant neoplasm of other specified sites	ICD-9-CM	Diagnosis
199	Malignant neoplasm without specification of site	ICD-9-CM	Diagnosis
199.0	Disseminated malignant neoplasm	ICD-9-CM	Diagnosis
199.1	Other malignant neoplasm of unspecified site	ICD-9-CM	Diagnosis
199.2	Malignant neoplasm associated with transplanted organ	ICD-9-CM	Diagnosis
200	Lymphosarcoma and reticulosarcoma and other specified malignant	ICD-9-CM	Diagnosis
	tumors of lymphatic tissue		
200.0	Reticulosarcoma	ICD-9-CM	Diagnosis
200.00	Reticulosarcoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
200.01	Reticulosarcoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.02	Reticulosarcoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.03	Reticulosarcoma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
200.04	Reticulosarcoma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
200.05	Reticulosarcoma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.06	Reticulosarcoma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.07	Reticulosarcoma of spleen	ICD-9-CM	Diagnosis
200.08	Reticulosarcoma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
200.1	Lymphosarcoma	ICD-9-CM	Diagnosis
200.10	Lymphosarcoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
200.11	Lymphosarcoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.12	Lymphosarcoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.13	Lymphosarcoma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
200.14	Lymphosarcoma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
200.15	Lymphosarcoma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.16	Lymphosarcoma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.17	Lymphosarcoma of spleen	ICD-9-CM	Diagnosis
200.18	Lymphosarcoma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
200.2	Burkitt's tumor or lymphoma	ICD-9-CM	Diagnosis
200.20	Burkitt's tumor or lymphoma, unspecified site, extranodal and solid organ		Diagnosis
200.21	sites Burkitt's tumor or lymphoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.05			
200.22	Burkitt's tumor or lymphoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.23	Burkitt's tumor or lymphoma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis



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



Code	Description	Code Type	Code Category
200.55	Primary central nervous system lymphoma, lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.56	Primary central nervous system lymphoma, intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.57	Primary central nervous system lymphoma, spleen	ICD-9-CM	Diagnosis
200.58	Primary central nervous system lymphoma, lymph nodes of multiple sites	ICD-9-CM	Diagnosis
200.6	Anaplastic large cell lymphoma	ICD-9-CM	Diagnosis
200.60	Anaplastic large cell lymphoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
200.61	Anaplastic large cell lymphoma, lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.62	Anaplastic large cell lymphoma, intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.63	Anaplastic large cell lymphoma, intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
200.64	Anaplastic large cell lymphoma, lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
200.65	Anaplastic large cell lymphoma, lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.66	Anaplastic large cell lymphoma, intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.67	Anaplastic large cell lymphoma, spleen	ICD-9-CM	Diagnosis
200.68	Anaplastic large cell lymphoma, lymph nodes of multiple sites	ICD-9-CM	Diagnosis
200.7	Large cell lymphoma	ICD-9-CM	Diagnosis
200.70	Large cell lymphoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
200.71	Large cell lymphoma, lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.72	Large cell lymphoma, intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.73	Large cell lymphoma, intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
200.74	Large cell lymphoma, lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
200.75	Large cell lymphoma, lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.76	Large cell lymphoma, intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.77	Large cell lymphoma, spleen	ICD-9-CM	Diagnosis
200.78	Large cell lymphoma, lymph nodes of multiple sites	ICD-9-CM	Diagnosis
200.8	Other named variants of lymphosarcoma and reticulosarcoma	ICD-9-CM	Diagnosis
200.80	Other named variants, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
200.81	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
200.82	Other named variants of lymphosarcoma and reticulosarcoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
200.83	Other named variants of lymphosarcoma and reticulosarcoma of intra- abdominal lymph nodes	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
200.84	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
200.85	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
200.86	Other named variants of lymphosarcoma and reticulosarcoma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
200.87	Other named variants of lymphosarcoma and reticulosarcoma of spleen	ICD-9-CM	Diagnosis
200.88	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201	Hodgkin's disease	ICD-9-CM	Diagnosis
201.0	Hodgkin's paragranuloma	ICD-9-CM	Diagnosis
201.00	Hodgkin's paragranuloma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.01	Hodgkin's paragranuloma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.02	Hodgkin's paragranuloma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.03	Hodgkin's paragranuloma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.04	Hodgkin's paragranuloma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.05	Hodgkin's paragranuloma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.06	Hodgkin's paragranuloma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.07	Hodgkin's paragranuloma of spleen	ICD-9-CM	Diagnosis
201.08	Hodgkin's paragranuloma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.1	Hodgkin's granuloma	ICD-9-CM	Diagnosis
201.10	Hodgkin's granuloma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.11	Hodgkin's granuloma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.12	Hodgkin's granuloma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.13	Hodgkin's granuloma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.14	Hodgkin's granuloma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.15	Hodgkin's granuloma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.16	Hodgkin's granuloma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.17	Hodgkin's granuloma of spleen	ICD-9-CM	Diagnosis
201.18	Hodgkin's granuloma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.2	Hodgkin's sarcoma	ICD-9-CM	Diagnosis
201.20	Hodgkin's sarcoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.21	Hodgkin's sarcoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.22	Hodgkin's sarcoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.23	Hodgkin's sarcoma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.24	Hodgkin's sarcoma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
201.25	Hodgkin's sarcoma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.26	Hodgkin's sarcoma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.27	Hodgkin's sarcoma of spleen	ICD-9-CM	Diagnosis
201.28	Hodgkin's sarcoma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.4	Hodgkin's disease, lymphocytic-histiocytic predominance	ICD-9-CM	Diagnosis
201.40	Hodgkin's disease, lymphocytic-histiocytic predominance, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.41	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.42	Hodgkin's disease, lymphocytic-histiocytic predominance of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.43	Hodgkin's disease, lymphocytic-histiocytic predominance of intra- abdominal lymph nodes	ICD-9-CM	Diagnosis
201.44	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.45	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.46	Hodgkin's disease, lymphocytic-histiocytic predominance of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.47	Hodgkin's disease, lymphocytic-histiocytic predominance of spleen	ICD-9-CM	Diagnosis
201.48	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.5	Hodgkin's disease, nodular sclerosis	ICD-9-CM	Diagnosis
201.50	Hodgkin's disease, nodular sclerosis, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.51	Hodgkin's disease, nodular sclerosis, of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.52	Hodgkin's disease, nodular sclerosis, of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.53	Hodgkin's disease, nodular sclerosis, of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.54	Hodgkin's disease, nodular sclerosis, of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.55	Hodgkin's disease, nodular sclerosis, of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.56	Hodgkin's disease, nodular sclerosis, of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.57	Hodgkin's disease, nodular sclerosis, of spleen	ICD-9-CM	Diagnosis
201.58	Hodgkin's disease, nodular sclerosis, of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.6	Hodgkin's disease, mixed cellularity	ICD-9-CM	Diagnosis
201.60	Hodgkin's disease, mixed cellularity, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
201.61	Hodgkin's disease, mixed cellularity, involving lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.62	Hodgkin's disease, mixed cellularity, of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.63	Hodgkin's disease, mixed cellularity, of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.64	Hodgkin's disease, mixed cellularity, of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.65	Hodgkin's disease, mixed cellularity, of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.66	Hodgkin's disease, mixed cellularity, of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.67	Hodgkin's disease, mixed cellularity, of spleen	ICD-9-CM	Diagnosis
201.68	Hodgkin's disease, mixed cellularity, of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.7	Hodgkin's disease, lymphocytic depletion	ICD-9-CM	Diagnosis
201.70	Hodgkin's disease, lymphocytic depletion, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.71	Hodgkin's disease, lymphocytic depletion, of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.72	Hodgkin's disease, lymphocytic depletion, of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.73	Hodgkin's disease, lymphocytic depletion, of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.74	Hodgkin's disease, lymphocytic depletion, of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.75	Hodgkin's disease, lymphocytic depletion, of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
201.76	Hodgkin's disease, lymphocytic depletion, of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.77	Hodgkin's disease, lymphocytic depletion, of spleen	ICD-9-CM	Diagnosis
201.78	Hodgkin's disease, lymphocytic depletion, of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
201.9	Hodgkin's disease, unspecified type	ICD-9-CM	Diagnosis
201.90	Hodgkin's disease, unspecified type, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
201.91	Hodgkin's disease, unspecified type, of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
201.92	Hodgkin's disease, unspecified type, of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
201.93	Hodgkin's disease, unspecified type, of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
201.94	Hodgkin's disease, unspecified type, of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
201.95	Hodgkin's disease, unspecified type, of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
201.96	Hodgkin's disease, unspecified type, of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
201.97	Hodgkin's disease, unspecified type, of spleen	ICD-9-CM	Diagnosis
201.98	Hodgkin's disease, unspecified type, of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202	Other malignant neoplasms of lymphoid and histiocytic tissue	ICD-9-CM	Diagnosis
202.0	Nodular lymphoma	ICD-9-CM	Diagnosis
202.00	Nodular lymphoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.01	Nodular lymphoma of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.02	Nodular lymphoma of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.03	Nodular lymphoma of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.04	Nodular lymphoma of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.05	Nodular lymphoma of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.06	Nodular lymphoma of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.07	Nodular lymphoma of spleen	ICD-9-CM	Diagnosis
202.08	Nodular lymphoma of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.1	Mycosis fungoides	ICD-9-CM	Diagnosis
202.10	Mycosis fungoides, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.11	Mycosis fungoides of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.12	Mycosis fungoides of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.13	Mycosis fungoides of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.14	Mycosis fungoides of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.15	Mycosis fungoides of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.16	Mycosis fungoides of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.17	Mycosis fungoides of spleen	ICD-9-CM	Diagnosis
202.18	Mycosis fungoides of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.2	Sezary's disease	ICD-9-CM	Diagnosis
202.20	Sezary's disease, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.21	Sezary's disease of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.22	Sezary's disease of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.23	Sezary's disease of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.24	Sezary's disease of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.25	Sezary's disease of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.26	Sezary's disease of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.27	Sezary's disease of spleen	ICD-9-CM	Diagnosis
202.28	Sezary's disease of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.3	Malignant histiocytosis	ICD-9-CM	Diagnosis
202.30	Malignant histiocytosis, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.31	Malignant histiocytosis of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
202.32	Malignant histiocytosis of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.33	Malignant histiocytosis of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.34	Malignant histiocytosis of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.35	Malignant histiocytosis of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.36	Malignant histiocytosis of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.37	Malignant histiocytosis of spleen	ICD-9-CM	Diagnosis
202.38	Malignant histiocytosis of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.4	Leukemic reticuloendotheliosis	ICD-9-CM	Diagnosis
202.40	Leukemic reticuloendotheliosis, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.41	Leukemic reticuloendotheliosis of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.42	Leukemic reticuloendotheliosis of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.43	Leukemic reticuloendotheliosis of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.44	Leukemic reticuloendotheliosis of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.45	Leukemic reticuloendotheliosis of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.46	Leukemic reticuloendotheliosis of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.47	Leukemic reticuloendotheliosis of spleen	ICD-9-CM	Diagnosis
202.48	Leukemic reticuloendotheliosis of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.5	Letterer-Siwe disease	ICD-9-CM	Diagnosis
202.50	Letterer-Siwe disease, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.51	Letterer-Siwe disease of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.52	Letterer-Siwe disease of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.53	Letterer-Siwe disease of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.54	Letterer-Siwe disease of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.55	Letterer-Siwe disease of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.56	Letterer-Siwe disease of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.57	Letterer-Siwe disease of spleen	ICD-9-CM	Diagnosis
202.58	Letterer-Siwe disease of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.6	Malignant mast cell tumors	ICD-9-CM	Diagnosis
202.60	Malignant mast cell tumors, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.61	Malignant mast cell tumors of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.62	Malignant mast cell tumors of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.63	Malignant mast cell tumors of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.64	Malignant mast cell tumors of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
202.65	Malignant mast cell tumors of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.66	Malignant mast cell tumors of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.67	Malignant mast cell tumors of spleen	ICD-9-CM	Diagnosis
202.68	Malignant mast cell tumors of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.7	Peripheral T-cell lymphoma	ICD-9-CM	Diagnosis
202.70	Peripheral T-cell lymphoma, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.71	Peripheral T-cell lymphoma, lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.72	Peripheral T-cell lymphoma, intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.73	Peripheral T-cell lymphoma, intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.74	Peripheral T-cell lymphoma, lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.75	Peripheral T-cell lymphoma, lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.76	Peripheral T-cell lymphoma, intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.77	Peripheral T-cell lymphoma, spleen	ICD-9-CM	Diagnosis
202.78	Peripheral T-cell lymphoma, lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.8	Other malignant lymphomas	ICD-9-CM	Diagnosis
202.80	Other malignant lymphomas, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.81	Other malignant lymphomas of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.82	Other malignant lymphomas of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.83	Other malignant lymphomas of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.84	Other malignant lymphomas of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis
202.85	Other malignant lymphomas of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.86	Other malignant lymphomas of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.87	Other malignant lymphomas of spleen	ICD-9-CM	Diagnosis
202.88	Other malignant lymphomas of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
202.9	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue	ICD-9-CM	Diagnosis
202.90	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue, unspecified site, extranodal and solid organ sites	ICD-9-CM	Diagnosis
202.91	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of head, face, and neck	ICD-9-CM	Diagnosis
202.92	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrathoracic lymph nodes	ICD-9-CM	Diagnosis
202.93	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intra-abdominal lymph nodes	ICD-9-CM	Diagnosis
202.94	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of axilla and upper limb	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
202.95	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of inguinal region and lower limb	ICD-9-CM	Diagnosis
202.96	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrapelvic lymph nodes	ICD-9-CM	Diagnosis
202.97	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of spleen	ICD-9-CM	Diagnosis
202.98	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of multiple sites	ICD-9-CM	Diagnosis
203	Multiple myeloma and immunoproliferative neoplasms	ICD-9-CM	Diagnosis
203.0	Multiple myeloma	ICD-9-CM	Diagnosis
203.00	Multiple myeloma, without mention of having 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	Plasma cell leukemia, without mention of having 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	Other immunoproliferative neoplasms, without mention of having achieved remission	ICD-9-CM	Diagnosis
203.81	Other immunoproliferative neoplasms in remission	ICD-9-CM	Diagnosis
203.82	Other immunoproliferative neoplasms, in relapse	ICD-9-CM	Diagnosis
204	Lymphoid leukemia	ICD-9-CM	Diagnosis
204.0	Acute lymphoid leukemia	ICD-9-CM	Diagnosis
204.00	Acute lymphoid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
204.01	Acute lymphoid leukemia in 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	Chronic lymphoid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
204.11	Chronic lymphoid leukemia in remission	ICD-9-CM	Diagnosis
204.12	Chronic lymphoid leukemia, in relapse	ICD-9-CM	Diagnosis
204.2	Subacute lymphoid leukemia	ICD-9-CM	Diagnosis
204.20	Subacute lymphoid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
204.21	Subacute lymphoid leukemia in remission	ICD-9-CM	Diagnosis
204.22	Subacute lymphoid leukemia, in relapse	ICD-9-CM	Diagnosis
204.8	Other lymphoid leukemia	ICD-9-CM	Diagnosis
204.80	Other lymphoid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
204.81	Other lymphoid leukemia in remission	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
204.82	Other lymphoid leukemia, in relapse	ICD-9-CM	Diagnosis
204.9	Unspecified lymphoid leukemia	ICD-9-CM	Diagnosis
204.90	Unspecified lymphoid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
204.91	Unspecified lymphoid leukemia in remission	ICD-9-CM	Diagnosis
204.92	Unspecified 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	Acute myeloid leukemia, without mention of having 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	Chronic myeloid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
205.11	Chronic myeloid leukemia in 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 myeloid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
205.21	Subacute myeloid leukemia in remission	ICD-9-CM	Diagnosis
205.22	Subacute myeloid leukemia, in relapse	ICD-9-CM	Diagnosis
205.3	Myeloid sarcoma	ICD-9-CM	Diagnosis
205.30	Myeloid sarcoma, without mention of having achieved remission	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	Other myeloid leukemia, without mention of having 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	Unspecified myeloid leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
205.91	Unspecified myeloid leukemia in remission	ICD-9-CM	Diagnosis
205.92	Unspecified 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	Acute monocytic leukemia, without mention of having achieved remission		Diagnosis
206.01	Acute monocytic leukemia in 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



Code	Description	Code Type	Code Category
206.10	Chronic monocytic leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
206.11	Chronic monocytic leukemia in remission	ICD-9-CM	Diagnosis
206.12	, Chronic monocytic leukemia, in relapse	ICD-9-CM	Diagnosis
206.2	Subacute monocytic leukemia	ICD-9-CM	Diagnosis
206.20	Subacute monocytic leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
206.21	Subacute monocytic leukemia in remission	ICD-9-CM	Diagnosis
206.22	Subacute monocytic leukemia, in relapse	ICD-9-CM	Diagnosis
206.8	Other monocytic leukemia	ICD-9-CM	Diagnosis
206.80	Other monocytic leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
206.81	Other monocytic leukemia in 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	Unspecified monocytic leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
206.91	Unspecified monocytic leukemia in remission	ICD-9-CM	Diagnosis
206.92	Unspecified monocytic leukemia, in relapse	ICD-9-CM	Diagnosis
207	Other specified leukemia	ICD-9-CM	Diagnosis
207.0	Acute erythremia and erythroleukemia	ICD-9-CM	Diagnosis
207.00	Acute erythremia and erythroleukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
207.01	Acute erythremia and erythroleukemia in remission	ICD-9-CM	Diagnosis
207.02	Acute erythremia and erythroleukemia, in relapse	ICD-9-CM	Diagnosis
207.1	Chronic erythremia	ICD-9-CM	Diagnosis
207.10	Chronic erythremia, without mention of having achieved 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	Megakaryocytic leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
207.21	Megakaryocytic leukemia in 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	Other specified leukemia, without mention of having achieved remission	ICD-9-CM	Diagnosis
207.81	Other specified leukemia in 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 of unspecified cell type	ICD-9-CM	Diagnosis
208.00	Acute leukemia of unspecified cell type, without mention of having achieved remission	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
208.01	Acute leukemia of unspecified cell type in remission	ICD-9-CM	Diagnosis
208.02	Acute leukemia of unspecified cell type, in relapse	ICD-9-CM	Diagnosis
208.1	Chronic leukemia of unspecified cell type	ICD-9-CM	Diagnosis
208.10	Chronic leukemia of unspecified cell type, without mention of having achieved remission	ICD-9-CM	Diagnosis
208.11	Chronic leukemia of unspecified cell type in remission	ICD-9-CM	Diagnosis
208.12	Chronic leukemia of unspecified cell type, in relapse	ICD-9-CM	Diagnosis
208.2	Subacute leukemia of unspecified cell type	ICD-9-CM	Diagnosis
208.20	Subacute leukemia of unspecified cell type, without mention of having achieved remission	ICD-9-CM	Diagnosis
208.21	Subactue leukemia of unspecified cell type in remission	ICD-9-CM	Diagnosis
208.22	Subacute leukemia of unspecified cell type, in relapse	ICD-9-CM	Diagnosis
208.8	Other leukemia of unspecified cell type	ICD-9-CM	Diagnosis
208.80	Other leukemia of unspecified cell type, without mention of having achieved remission	ICD-9-CM	Diagnosis
208.81	Other leukemia of unspecified cell type in remission	ICD-9-CM	Diagnosis
208.82	Other leukemia of unspecified cell type, in relapse	ICD-9-CM	Diagnosis
208.9	Unspecified leukemia	ICD-9-CM	Diagnosis
208.90	Unspecified leukemia, without mention of having 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	Malignant carcinoid tumors of the small intestine	ICD-9-CM	Diagnosis
209.00	Malignant carcinoid tumor of the small intestine, unspecified portion	ICD-9-CM	Diagnosis
209.01	Malignant carcinoid tumor of the duodenum	ICD-9-CM	Diagnosis
209.02	Malignant carcinoid tumor of the jejunum	ICD-9-CM	Diagnosis
209.03	Malignant carcinoid tumor of the ileum	ICD-9-CM	Diagnosis
209.1	Malignant carcinoid tumors of the appendix, large intestine, and rectum	ICD-9-CM	Diagnosis
209.10	Malignant carcinoid tumor of the large intestine, unspecified portion	ICD-9-CM	Diagnosis
209.11	Malignant carcinoid tumor of the appendix	ICD-9-CM	Diagnosis
209.12	Malignant carcinoid tumor of the cecum	ICD-9-CM	Diagnosis
209.13	Malignant carcinoid tumor of the ascending colon	ICD-9-CM	Diagnosis
209.14	Malignant carcinoid tumor of the transverse colon	ICD-9-CM	Diagnosis
209.15	Malignant carcinoid tumor of the descending colon	ICD-9-CM	Diagnosis
209.16	Malignant carcinoid tumor of the sigmoid colon	ICD-9-CM	Diagnosis
209.17	Malignant carcinoid tumor of the rectum	ICD-9-CM	Diagnosis
209.2	Malignant carcinoid tumors of other and unspecified sites	ICD-9-CM	Diagnosis
209.20	Malignant carcinoid tumor of unknown primary site	ICD-9-CM	Diagnosis
209.21	Malignant carcinoid tumor of the bronchus and lung	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
209.22	Malignant carcinoid tumor of the thymus	ICD-9-CM	Diagnosis
209.23	Malignant carcinoid tumor of the stomach	ICD-9-CM	Diagnosis
209.24	Malignant carcinoid tumor of the kidney	ICD-9-CM	Diagnosis
209.25	Malignant carcinoid tumor of foregut, not otherwise specified	ICD-9-CM	Diagnosis
209.26	Malignant carcinoid tumor of midgut, not otherwise specified	ICD-9-CM	Diagnosis
209.27	Malignant carcinoid tumor of hindgut, not otherwise specified	ICD-9-CM	Diagnosis
209.29	Malignant carcinoid tumor of other sites	ICD-9-CM	Diagnosis
209.3	Malignant poorly differentiated neuroendocrine tumors	ICD-9-CM	Diagnosis
209.30	Malignant poorly differentiated neuroendocrine carcinoma, any site	ICD-9-CM	Diagnosis
209.31	Merkel cell carcinoma of the face	ICD-9-CM	Diagnosis
209.32	Merkel cell carcinoma of the scalp and neck	ICD-9-CM	Diagnosis
209.33	Merkel cell carcinoma of the upper limb	ICD-9-CM	Diagnosis
209.34	Merkel cell carcinoma of the lower limb	ICD-9-CM	Diagnosis
209.35	Merkel cell carcinoma of the trunk	ICD-9-CM	Diagnosis
209.36	Merkel cell carcinoma of other sites	ICD-9-CM	Diagnosis
209.7	Secondary neuroendocrine tumors	ICD-9-CM	Diagnosis
209.70	Secondary neuroendocrine tumor, unspecified site	ICD-9-CM	Diagnosis
209.71	Secondary neuroendocrine tumor of distant lymph nodes	ICD-9-CM	Diagnosis
209.72	Secondary neuroendocrine tumor of liver	ICD-9-CM	Diagnosis
209.73	Secondary neuroendocrine tumor of bone	ICD-9-CM	Diagnosis
209.74	Secondary neuroendocrine tumor of peritoneum	ICD-9-CM	Diagnosis
209.75	Secondary Merkel cell carcinoma	ICD-9-CM	Diagnosis
209.79	Secondary neuroendocrine tumor of other sites	ICD-9-CM	Diagnosis
	Chronic Kidney Disease (Excluding End Stage Renal Dis	sease)	
585.1	Chronic kidney disease, Stage I	ICD-9-CM	Diagnosis
585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM	Diagnosis
585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM	Diagnosis
585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM	Diagnosis
G0420	Face-to-face educational services related to the care of chronic kidney disease; individual, per session, per one hour	HCPCS	Procedure
G0421	Face-to-face educational services related to the care of chronic kidney disease; group, per session, per one hour	HCPCS	Procedure
G8487	I intend to report the chronic kidney disease (CKD) measures group	HCPCS	Procedure
G8771	Documentation of diagnosis of chronic kidney disease	HCPCS	Procedure
	Chronic Obstructive Pulmonary Disease		
491	Chronic bronchitis	ICD-9-CM	Diagnosis
491.0	Simple chronic bronchitis	ICD-9-CM	Diagnosis
491.1	Mucopurulent chronic bronchitis	ICD-9-CM	Diagnosis
491.2	Obstructive chronic bronchitis	ICD-9-CM	Diagnosis
491.20	Obstructive chronic bronchitis, without exacerbation	ICD-9-CM	Diagnosis
491.21	Obstructive chronic bronchitis, with (acute) exacerbation	ICD-9-CM	Diagnosis
491.22	Obstructive chronic bronchitis with acute bronchitis	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
491.8	Other chronic bronchitis	ICD-9-CM	Diagnosis
491.9	Unspecified chronic bronchitis	ICD-9-CM	Diagnosis
492	Emphysema	ICD-9-CM	Diagnosis
492.0	Emphysematous bleb	ICD-9-CM	Diagnosis
492.8	Other emphysema	ICD-9-CM	Diagnosis
496	Chronic airway obstruction, not elsewhere classified	ICD-9-CM	Diagnosis
	Dementia		
290.0	Senile dementia, uncomplicated	ICD-9-CM	Diagnosis
290.1	Presenile dementia	ICD-9-CM	Diagnosis
290.10	Presenile dementia, uncomplicated	ICD-9-CM	Diagnosis
290.11	Presenile dementia with delirium	ICD-9-CM	Diagnosis
290.12	Presenile dementia with delusional features	ICD-9-CM	Diagnosis
290.13	Presenile dementia with depressive features	ICD-9-CM	Diagnosis
290.2	Senile dementia with delusional or depressive features	ICD-9-CM	Diagnosis
290.20	Senile dementia with delusional features	ICD-9-CM	Diagnosis
290.21	Senile dementia with depressive features	ICD-9-CM	Diagnosis
290.3	Senile dementia with delirium	ICD-9-CM	Diagnosis
290.4	Vascular dementia	ICD-9-CM	Diagnosis
290.40	Vascular dementia, uncomplicated	ICD-9-CM	Diagnosis
290.41	Vascular dementia, with delirium	ICD-9-CM	Diagnosis
290.42	Vascular dementia, with delusions	ICD-9-CM	Diagnosis
290.43	Vascular dementia, with depressed mood	ICD-9-CM	Diagnosis
291.2	Alcohol-induced persisting dementia	ICD-9-CM	Diagnosis
292.82	Drug-induced persisting dementia	ICD-9-CM	Diagnosis
294.0	Amnestic disorder in conditions classified elsewhere	ICD-9-CM	Diagnosis
294.1	Dementia in conditions classified elsewhere	ICD-9-CM	Diagnosis
294.10	Dementia in conditions classified elsewhere without behavioral disturbance	ICD-9-CM	Diagnosis
294.11	Dementia in conditions classified elsewhere with behavioral disturbance	ICD-9-CM	Diagnosis
294.8	Other persistent mental disorders due to conditions classified elsewhere	ICD-9-CM	Diagnosis
331.0	Alzheimer's disease	ICD-9-CM	Diagnosis
331.1	Frontotemporal dementia	ICD-9-CM	Diagnosis
331.11	Pick's disease	ICD-9-CM	Diagnosis
331.19	Other frontotemporal dementia	ICD-9-CM	Diagnosis
331.2	Senile degeneration of brain	ICD-9-CM	Diagnosis
331.7	Cerebral degeneration in diseases classified elsewhere	ICD-9-CM	Diagnosis
331.8	Other cerebral degeneration	ICD-9-CM	Diagnosis
331.81	Reye's syndrome	ICD-9-CM	Diagnosis
331.82	Dementia with Lewy bodies	ICD-9-CM	Diagnosis
331.83	Mild cognitive impairment, so stated	ICD-9-CM	Diagnosis
331.89	Other cerebral degeneration	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
331.9	Unspecified cerebral degeneration	ICD-9-CM	Diagnosis
797	Senility without mention of psychosis	ICD-9-CM	Diagnosis
	Depression		
296.2	Major depressive disorder, single episode	ICD-9-CM	Diagnosis
296.20	Major depressive disorder, single episode, unspecified	ICD-9-CM	Diagnosis
296.21	Major depressive disorder, single episode, mild	ICD-9-CM	Diagnosis
296.22	Major depressive disorder, single episode, moderate	ICD-9-CM	Diagnosis
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	ICD-9-CM	Diagnosis
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	ICD-9-CM	Diagnosis
296.25	Major depressive disorder, single episode, in partial or unspecified remission	ICD-9-CM	Diagnosis
296.26	Major depressive disorder, single episode in full remission	ICD-9-CM	Diagnosis
296.3	Major depressive disorder, recurrent episode	ICD-9-CM	Diagnosis
296.30	Major depressive disorder, recurrent episode, unspecified	ICD-9-CM	Diagnosis
296.31	Major depressive disorder, recurrent episode, mild	ICD-9-CM	Diagnosis
296.32	Major depressive disorder, recurrent episode, moderate	ICD-9-CM	Diagnosis
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	ICD-9-CM	Diagnosis
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	ICD-9-CM	Diagnosis
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	ICD-9-CM	Diagnosis
296.36	Major depressive disorder, recurrent episode, in full remission	ICD-9-CM	Diagnosis
300.4	Dysthymic disorder	ICD-9-CM	Diagnosis
311	Depressive disorder, not elsewhere classified	ICD-9-CM	Diagnosis
	End Stage Renal Disease		5
36145	Introduction of needle or intracatheter; arteriovenous shunt created for dialysis (cannula, fistula, or graft)	CPT-4	Procedure
36800	Insertion of cannula for hemodialysis, other purpose (separate procedure); vein to vein	CPT-4	Procedure
36810	Insertion of cannula for hemodialysis, other purpose (separate procedure); arteriovenous, external (Scribner type)	CPT-4	Procedure
36815	Insertion of cannula for hemodialysis, other purpose (separate procedure); arteriovenous, external revision, or closure	CPT-4	Procedure
36825	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); autogenous graft	CPT-4	Procedure
36830	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); nonautogenous graft (eg, biological collagen, thermoplastic graft)	CPT-4	Procedure



Code	Description	Code Type	Code Category
36831	Thrombectomy, open, arteriovenous fistula without revision, autogenous or nonautogenous dialysis graft (separate procedure)	CPT-4	Procedure
36832	Revision, open, arteriovenous fistula; without thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	CPT-4	Procedure
36833	Revision, open, arteriovenous fistula; with thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	CPT-4	Procedure
38.95	Venous catheterization for renal dialysis	ICD-9-CM	Procedure
39.27	Arteriovenostomy for renal dialysis	ICD-9-CM	Procedure
39.42	Revision of arteriovenous shunt for renal dialysis	ICD-9-CM	Procedure
39.43	Removal of arteriovenous shunt for renal dialysis	ICD-9-CM	Procedure
39.53	Repair of arteriovenous fistula	ICD-9-CM	Procedure
39.93	Insertion of vessel-to-vessel cannula	ICD-9-CM	Procedure
39.94	Replacement of vessel-to-vessel cannula	ICD-9-CM	Procedure
39.95	Hemodialysis	ICD-9-CM	Procedure
458.21	Hypotension of hemodialysis	ICD-9-CM	Diagnosis
50323	Backbench standard preparation of cadaver donor renal allograft prior to transplantation, including dissection and removal of perinephric fat, diaphragmatic and retroperitoneal attachments, excision of adrenal gland, and preparation of ureter(s), renal vein(s), and renal artery(s), ligating branches, as necessary	CPT-4	Procedure
50325	Backbench standard preparation of living donor renal allograft (open or laparoscopic) prior to transplantation, including dissection and removal of perinephric fat and preparation of ureter(s), renal vein(s), and renal artery(s), ligating branches, as necessary	CPT-4	Procedure
50327	Backbench reconstruction of cadaver or living donor renal allograft prior to transplantation; venous anastomosis, each	CPT-4	Procedure
50328	Backbench reconstruction of cadaver or living donor renal allograft prior to transplantation; arterial anastomosis, each	CPT-4	Procedure
50329	Backbench reconstruction of cadaver or living donor renal allograft prior to transplantation; ureteral anastomosis, each	CPT-4	Procedure
50340	Recipient nephrectomy (separate procedure)	CPT-4	Procedure
50341	Recipient Nephrectomy (separate Procedure)	CPT-4	Procedure
50360	Renal allotransplantation, implantation of graft; without recipient nephrectomy	CPT-4	Procedure
50365	Renal allotransplantation, implantation of graft; with recipient nephrectomy	CPT-4	Procedure
50366	Renal Homotransplantation, Implantation Of Graft	CPT-4	Procedure
54.98	Peritoneal dialysis	ICD-9-CM	Procedure
55.6	Transplant of kidney	ICD-9-CM	Procedure
55.61	Renal autotransplantation	ICD-9-CM	Procedure
55.69	Other kidney transplantation	ICD-9-CM	Procedure



Code	Description	Code Type	Code Category
585.6	End stage renal disease	ICD-9-CM	Diagnosis
90918	End-stage renal disease (ESRD) related services per full month; for patients younger than two years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90919	End-stage renal disease (ESRD) related services per full month; for patients between two and eleven years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90920	End-stage renal disease (ESRD) related services per full month; for patients between twelve and nineteen years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90921	End-stage renal disease (ESRD) related services per full month; for patients twenty years of age and older	CPT-4	Procedure
90922	End-stage renal disease (ESRD) related services (less than full month), per day; for patients younger than two years of age	CPT-4	Procedure
90923	End-stage renal disease (ESRD) related services (less than full month), per day; for patients between two and eleven years of age	CPT-4	Procedure
90924	End-stage renal disease (ESRD) related services (less than full month), per day; for patients between twelve and nineteen years of age	CPT-4	Procedure
90925	End-stage renal disease (ESRD) related services (less than full month), per day; for patients twenty years of age and older	CPT-4	Procedure
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	CPT-4	Procedure
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	CPT-4	Procedure
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection	CPT-4	Procedure
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	CPT-4	Procedure
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	CPT-4	Procedure



Code	Description	Code Type	Code Category
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis prescription	CPT-4	Procedure
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	СРТ-4	Procedure
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4	Procedure
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4	Procedure
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	CPT-4	Procedure
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	СРТ-4	Procedure
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4	Procedure
90957	End-stage renal disease (ESRD) related services monthly, for patients 12- 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	СРТ-4	Procedure



Code	Description	Code Type	Code Category
90958	End-stage renal disease (ESRD) related services monthly, for patients 12- 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4	Procedure
90959	End-stage renal disease (ESRD) related services monthly, for patients 12- 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4	Procedure
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	CPT-4	Procedure
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4	Procedure
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4	Procedure
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	CPT-4	Procedure
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age	CPT-4	Procedure
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age	CPT-4	Procedure
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age	CPT-4	Procedure



Code	Description	Code Type	Code Category
90970	End-stage renal disease (ESRD) related services for dialysis less than a full	CPT-4	Procedure
	month of service, per day; for patients 20 years of age and older		
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90989	Dialysis training, patient, including helper where applicable, any mode, completed course	CPT-4	Procedure
90993	Dialysis training, patient, including helper where applicable, any mode, course not completed, per training session	CPT-4	Procedure
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	CPT-4	Procedure
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	CPT-4	Procedure
90997	Hemoperfusion (eg, with activated charcoal or resin)	CPT-4	Procedure
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	CPT-4	Procedure
90999	Unlisted dialysis procedure, inpatient or outpatient	CPT-4	Procedure
93990	Duplex scan of hemodialysis access (including arterial inflow, body of access and venous outflow)	CPT-4	Procedure
99512	Home visit for hemodialysis	CPT-4	Procedure
996.56	Mechanical complications due to peritoneal dialysis catheter	ICD-9-CM	Diagnosis
996.68	Infection and inflammatory reaction due to peritoneal dialysis catheter	ICD-9-CM	Diagnosis
996.73	Other complications due to renal dialysis device, implant, and graft	ICD-9-CM	Diagnosis
A4653	Peritoneal dialysis catheter anchoring device, belt, each	HCPCS	Procedure
A4656	Needle, any size, each	HCPCS	Procedure
A4657	Syringe, with or without needle, each	HCPCS	Procedure
A4670	Automatic blood pressure monitor	HCPCS	Procedure
A4671	Disposable cycler set used with cycler dialysis machine, each	HCPCS	Procedure
A4672	Drainage extension line, sterile, for dialysis, each	HCPCS	Procedure
A4673	Extension line with easy lock connectors, used with dialysis	HCPCS	Procedure
A4674	Chemicals/antiseptics solution used to clean/sterilize dialysis equipment, per 8 oz	HCPCS	Procedure
A4680	Activated carbon filter for hemodialysis, each	HCPCS	Procedure
A4706	Bicarbonate concentrate, solution, for hemodialysis, per gallon	HCPCS	Procedure
A4707	Bicarbonate concentrate, powder, for hemodialysis, per packet	HCPCS	Procedure
A4708	Acetate concentrate solution, for hemodialysis, per gallon	HCPCS	Procedure
A4709	Acid concentrate, solution, for hemodialysis, per gallon	HCPCS	Procedure
A4712	Water, sterile, for injection, per 10 ml	HCPCS	Procedure



Code	Description	Code Type	Code Category
A4714	Treated water (deionized, distilled, or reverse osmosis) for peritoneal	HCPCS	Procedure
	dialysis, per gallon		
A4719	"Y set" tubing for peritoneal dialysis	HCPCS	Procedure
A4720	Dialysate solution, any concentration of dextrose, fluid volume greater	HCPCS	Procedure
	than 249 cc, but less than or equal to 999 cc, for peritoneal dialysis		
A4721	Dialysate solution, any concentration of dextrose, fluid volume greater than 999 cc but less than or equal to 1999 cc, for peritoneal dialysis	HCPCS	Procedure
A4722	Dialysate solution, any concentration of dextrose, fluid volume greater	HCPCS	Procedure
	than 1999 cc but less than or equal to 2999 cc, for peritoneal dialysis		
A4723	Dialysate solution, any concentration of dextrose, fluid volume greater	HCPCS	Procedure
	than 2999 cc but less than or equal to 3999 cc, for peritoneal dialysis		
A4724	Dialysate solution, any concentration of dextrose, fluid volume greater	HCPCS	Procedure
	than 3999 cc but less than or equal to 4999 cc, for peritoneal dialysis		
A4725	Dialysate solution, any concentration of dextrose, fluid volume greater	HCPCS	Procedure
	than 4999 cc but less than or equal to 5999 cc, for peritoneal dialysis		
A4726	Dialysate solution, any concentration of dextrose, fluid volume greater than 5999 cc, for peritoneal dialysis	HCPCS	Procedure
A4728	Dialysate solution, nondextrose containing, 500 ml	HCPCS	Procedure
A4730	Fistula cannulation set for hemodialysis, each	HCPCS	Procedure
A4736	Topical anesthetic, for dialysis, per g	HCPCS	Procedure
A4737	Injectable anesthetic, for dialysis, per 10 ml	HCPCS	Procedure
A4740	Shunt accessory, for hemodialysis, any type, each	HCPCS	Procedure
A4750	Blood tubing, arterial or venous, for hemodialysis, each	HCPCS	Procedure
A4755	Blood tubing, arterial and venous combined, for hemodialysis, each	HCPCS	Procedure
A4760	Dialysate solution test kit, for peritoneal dialysis, any type, each	HCPCS	Procedure
A4765	Dialysate concentrate, powder, additive for peritoneal dialysis, per packet	HCPCS	Procedure
A4766	Dialysate concentrate, solution, additive for peritoneal dialysis, per 10 ml	HCPCS	Procedure
A4770	Blood collection tube, vacuum, for dialysis, per 50	HCPCS	Procedure
A4771	Serum clotting time tube, for dialysis, per 50	HCPCS	Procedure
A4773	Occult blood test strips, for dialysis, per 50	HCPCS	Procedure
A4774	Ammonia test strips, for dialysis, per 50	HCPCS	Procedure
A4802	Protamine sulfate, for hemodialysis, per 50 mg	HCPCS	Procedure
A4860	Disposable catheter tips for peritoneal dialysis, per 10	HCPCS	Procedure



Code	Description	Code Type	Code Category
A4870	Plumbing and/or electrical work for home hemodialysis equipment	HCPCS	Procedure
A4890	Contracts, repair and maintenance, for hemodialysis equipment	HCPCS	Procedure
A4911	Drain bag/bottle, for dialysis, each	HCPCS	Procedure
A4913	Miscellaneous dialysis supplies, not otherwise specified	HCPCS	Procedure
A4918	Venous pressure clamp, for hemodialysis, each	HCPCS	Procedure
A4928	Surgical mask, per 20	HCPCS	Procedure
A4929	Tourniquet for dialysis, each	HCPCS	Procedure
C1881	Dialysis access system (implantable)	HCPCS	Procedure
E1500	Centrifuge, for dialysis	HCPCS	Procedure
E1520	Heparin infusion pump for hemodialysis	HCPCS	Procedure
E1530	Air bubble detector for hemodialysis, each, replacement	HCPCS	Procedure
E1540	Pressure alarm for hemodialysis, each, replacement	HCPCS	Procedure
E1550	Bath conductivity meter for hemodialysis, each	HCPCS	Procedure
E1560	Blood leak detector for hemodialysis, each, replacement	HCPCS	Procedure
E1570	Adjustable chair, for ESRD patients	HCPCS	Procedure
E1575	Transducer protectors/fluid barriers, for hemodialysis, any size, per 10	HCPCS	Procedure
E1580	Unipuncture control system for hemodialysis	HCPCS	Procedure
E1600	Delivery and/or installation charges for hemodialysis equipment	HCPCS	Procedure
E1610	Reverse osmosis water purification system, for hemodialysis	HCPCS	Procedure
E1615	Deionizer water purification system, for hemodialysis	HCPCS	Procedure
E1620	Blood pump for hemodialysis, replacement	HCPCS	Procedure
E1625	Water softening system, for hemodialysis	HCPCS	Procedure
E1634	Peritoneal dialysis clamps, each	HCPCS	Procedure
E1635	Compact (portable) travel hemodialyzer system	HCPCS	Procedure
E1636	Sorbent cartridges, for hemodialysis, per 10	HCPCS	Procedure
E1637	Hemostats, each	HCPCS	Procedure
E1638	Heating pad, for peritoneal dialysis, any size, each	HCPCS	Procedure
E1639	Scale, each	HCPCS	Procedure
E1699	Dialysis equipment, not otherwise specified	HCPCS	Procedure
G0257	Unscheduled or emergency dialysis treatment for an ESRD patient in a hospital outpatient department that is not certified as an ESRD facility	HCPCS	Procedure
G0308	ESRD related services during the course of treatment, for patients under 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face physician visits per month.	HCPCS	Procedure
G0309	ESRD related services during the course of treatment, for patients under 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2 or 3 face-to-face physician visits per month.	HCPCS	Procedure



Code	Description	Code Type	Code Category
G0310	ESRD related services during the course of treatment, for patients under 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face physician visit per month	HCPCS	Procedure
G0311	ESRD related services during the course of treatment, for patients between 2 and 11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face physician visits per month	HCPCS	Procedure
G0312	ESRD related services during the course of treatment, for patients between 2 and 11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2 or 3 face-to-face physician visits per month	HCPCS	Procedure
G0313	ESRD related services during the course of treatment, for patients between 2 and 11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face physician visit per month	HCPCS	Procedure
G0314	ESRD related services during the course of treatment, for patients between 12 and 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face physician visits per month	HCPCS	Procedure
G0315	End Stage Renal disease (ESRD) related services during the course of treatment, for patients between 12 and 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with two or three face-to-face physician visits per month	HCPCS	Procedure
G0316	End Stage Renal disease (ESRD) related services during the course of treatment, for patients between 12 and 19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with one face-to-face physician visit per month	HCPCS	Procedure
G0317	End Stage Renal disease (ESRD) related services during the course of treatment, for patients 20 years of age and over; with four or more face-to-face physician visits per month	HCPCS	Procedure
G0318	ESRD related services during the course of treatment, for patients 20 years of age and over; with 2 or 3 face-to-face physician visits per month	HCPCS	Procedure
G0319	End Stage Renal disease (ESRD) related services during the course of treatment, for patients 20 years of age and over; with one face-to-face physician visit per month	HCPCS	Procedure



Code	Description	Code Type	Code Category
G0320	ESRD related services for home dialysis patients per full month; for patients under 2 years of age to include monitoring for adequacy of nutrition, assessment of growth and development, and counseling of parents	HCPCS	Procedure
G0321	ESRD related services for home dialysis patients per full month; for patients 2 to 11 years of age to include monitoring for adequacy of nutrition, assessment of growth and development, and counseling of parents	HCPCS	Procedure
G0322	End Stage Renal disease (ESRD) related services for home dialysis patients per full month; for patients 12 to 19 years of age to include monitoring for adequacy of nutrition, assessment of growth and development, and counseling of parents	HCPCS	Procedure
G0323	End Stage Renal disease (ESRD) related services for home dialysis patients per full month; for patients 20 years of age and older	HCPCS	Procedure
G0324	ESRD related services for home dialysis (less than full month), per day; for patients under 2 years of age	HCPCS	Procedure
G0325	ESRD related services for home dialysis (less than full month), per day; for patients between 2 and 11 years of age	HCPCS	Procedure
G0326	ESRD related services for home dialysis (less than full month), per day; for patients between twelve and nineteen years of age	HCPCS	Procedure
G0327	ESRD related services for home dialysis (less than full month), per day; for patients twenty years of age and over	HCPCS	Procedure
G8727	Patient receiving hemodialysis, peritoneal dialysis or kidney transplantation	HCPCS	Procedure
G9013	ESRD demo basic bundle Level I	HCPCS	Procedure
G9014	ESRD demo expanded bundle including venous access and related services	HCPCS	Procedure
J0635	Injection, calcitriol, 1 mcg amp.	HCPCS	Procedure
J0636	Injection, calcitriol, 0.1 mcg	HCPCS	Procedure
S2065	Simultaneous pancreas kidney transplantation	HCPCS	Procedure
S9335	Home therapy, hemodialysis; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing services coded separately), per diem	HCPCS	Procedure
\$9339	Home therapy; peritoneal dialysis, administrative services, professional pharmacy services, care coordination and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	HCPCS	Procedure
V42.0	Kidney replaced by transplant	ICD-9-CM	Diagnosis
V45.1	Renal dialysis status	ICD-9-CM	Diagnosis
V45.11	Renal dialysis status	ICD-9-CM	Diagnosis
V45.12	Noncompliance with renal dialysis	ICD-9-CM	Diagnosis
V56	Encounter for dialysis and dialysis catheter care	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
V56.0	Encounter for extracorporeal dialysis	ICD-9-CM	Diagnosis
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	ICD-9-CM	Diagnosis
V56.2	Fitting and adjustment of peritoneal dialysis catheter	ICD-9-CM	Diagnosis
V56.3	Encounter for adequacy testing for dialysis	ICD-9-CM	Diagnosis
V56.31	Encounter for adequacy testing for hemodialysis	ICD-9-CM	Diagnosis
V56.32	Encounter for adequacy testing for peritoneal dialysis	ICD-9-CM	Diagnosis
V56.8	Encounter other dialysis	ICD-9-CM	Diagnosis
	Fracture		
733.1	Pathologic fracture	ICD-9-CM	Diagnosis
733.10	Pathologic fracture, unspecified site	ICD-9-CM	Diagnosis
733.11	Pathologic fracture of humerus	ICD-9-CM	Diagnosis
733.12	Pathologic fracture of distal radius and ulna	ICD-9-CM	Diagnosis
733.13	Pathologic fracture of vertebrae	ICD-9-CM	Diagnosis
733.14	Pathologic fracture of neck of femur	ICD-9-CM	Diagnosis
733.15	Pathologic fracture of other specified part of femur	ICD-9-CM	Diagnosis
733.16	Pathologic fracture of tibia and fibula	ICD-9-CM	Diagnosis
733.19	Pathologic fracture of other specified site	ICD-9-CM	Diagnosis
733.93	Stress fracture of tibia or fibula	ICD-9-CM	Diagnosis
733.94	Stress fracture of the metatarsals	ICD-9-CM	Diagnosis
733.95	Stress fracture of other bone	ICD-9-CM	Diagnosis
733.96	Stress fracture of femoral neck	ICD-9-CM	Diagnosis
733.97	Stress fracture of shaft of femur	ICD-9-CM	Diagnosis
733.98	Stress fracture of pelvis	ICD-9-CM	Diagnosis
79.01	Closed reduction of fracture of humerus without internal fixation	ICD-9-CM	Procedure
79.02	Closed reduction of fracture of radius and ulna without internal fixation	ICD-9-CM	Procedure
79.03	Closed reduction of fracture of carpals and metacarpals without internal fixation	ICD-9-CM	Procedure
79.05	Closed reduction of fracture of femur without internal fixation	ICD-9-CM	Procedure
79.06	Closed reduction of fracture of tibia and fibula without internal fixation	ICD-9-CM	Procedure
79.07	Closed reduction of fracture of tarsals and metatarsals without internal fixation	ICD-9-CM	Procedure
79.11	Closed reduction of fracture of humerus with internal fixation	ICD-9-CM	Procedure
79.12	Closed reduction of fracture of radius and ulna with internal fixation	ICD-9-CM	Procedure
79.13	Closed reduction of fracture of carpals and metacarpals with internal fixation	ICD-9-CM	Procedure
79.15	Closed reduction of fracture of femur with internal fixation	ICD-9-CM	Procedure
79.16	Closed reduction of fracture of tibia and fibula with internal fixation	ICD-9-CM	Procedure
79.17	Closed reduction of fracture of tarsals and metatarsals with internal fixation	ICD-9-CM	Procedure



Code	Description	Code Type	Code Category
79.21	Open reduction of fracture of humerus without internal fixation	ICD-9-CM	Procedure
79.22	Open reduction of fracture of radius and ulna without internal fixation	ICD-9-CM	Procedure
79.23	Open reduction of fracture of carpals and metacarpals without internal fixation	ICD-9-CM	Procedure
79.25	Open reduction of fracture of femur without internal fixation	ICD-9-CM	Procedure
79.26	Open reduction of fracture of tibia and fibula without internal fixation	ICD-9-CM	Procedure
79.27	Open reduction of fracture of tarsals and metatarsals without internal fixation	ICD-9-CM	Procedure
79.31	Open reduction of fracture of humerus with internal fixation	ICD-9-CM	Procedure
79.32	Open reduction of fracture of radius and ulna with internal fixation	ICD-9-CM	Procedure
79.33	Open reduction of fracture of carpals and metacarpals with internal fixation	ICD-9-CM	Procedure
79.35	Open reduction of fracture of femur with internal fixation	ICD-9-CM	Procedure
79.36	Open reduction of fracture of tibia and fibula with internal fixation	ICD-9-CM	Procedure
79.37	Open reduction of fracture of tarsals and metatarsals with internal fixation	ICD-9-CM	Procedure
79.61	Debridement of open fracture of humerus	ICD-9-CM	Procedure
79.62	Debridement of open fracture of radius and ulna	ICD-9-CM	Procedure
79.63	Debridement of open fracture of carpals and metacarpals	ICD-9-CM	Procedure
79.65	Debridement of open fracture of femur	ICD-9-CM	Procedure
79.66	Debridement of open fracture of tibia and fibula	ICD-9-CM	Procedure
79.67	Debridement of open fracture of tarsals and metatarsals	ICD-9-CM	Procedure
805	Fracture of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.0	Closed fracture of cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.00	Closed fracture of cervical vertebra, unspecified level without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.01	Closed fracture of first cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.02	Closed fracture of second cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.03	Closed fracture of third cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.04	Closed fracture of fourth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.05	Closed fracture of fifth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.06	Closed fracture of sixth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.07	Closed fracture of seventh cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
805.08	Closed fracture of multiple cervical vertebrae without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.1	Open fracture of cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.10	Open fracture of cervical vertebra, unspecified level without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.11	Open fracture of first cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.12	Open fracture of second cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.13	Open fracture of third cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.14	Open fracture of fourth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.15	Open fracture of fifth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.16	Open fracture of sixth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.17	Open fracture of seventh cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.18	Open fracture of multiple cervical vertebrae without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.2	Closed fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.3	Open fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.4	Closed fracture of lumbar vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.5	Open fracture of lumbar vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.6	Closed fracture of sacrum and coccyx without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.7	Open fracture of sacrum and coccyx without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.8	Closed fracture of unspecified part of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.9	Open fracture of unspecified part of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
806	Fracture of vertebral column with spinal cord injury	ICD-9-CM	Diagnosis
806.0	Closed fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.00	Closed fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
806.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.08	Closed fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
806.09	Closed fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.1	Open fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.10	Open fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.11	Open fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.12	Open fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.13	Open fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.14	Open fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.15	Open fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.16	Open fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.17	Open fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.18	Open fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
806.19	Open fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.2	Closed fracture of dorsal (thoracic) vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.20	Closed fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.21	Closed fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.22	Closed fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.23	Closed fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.24	Closed fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.3	Open fracture of dorsal vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.31	Open fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.32	Open fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.33	Open fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.34	Open fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.36	Open fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.37	Open fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.38	Open fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
806.39	Open fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.4	Closed fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.5	Open fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.6	Closed fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.60	Closed fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.61	Closed fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis
806.62	Closed fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.69	Closed fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.7	Open fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.70	Open fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.71	Open fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis
806.72	Open fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.79	Open fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.8	Closed fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.9	Open fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
807	Fracture of rib(s), sternum, larynx, and trachea	ICD-9-CM	Diagnosis
807.0	Closed fracture of rib(s)	ICD-9-CM	Diagnosis
807.00	Closed fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.01	Closed fracture of one rib	ICD-9-CM	Diagnosis
807.02	Closed fracture of two ribs	ICD-9-CM	Diagnosis
807.03	Closed fracture of three ribs	ICD-9-CM	Diagnosis
807.04	Closed fracture of four ribs	ICD-9-CM	Diagnosis
807.05	Closed fracture of five ribs	ICD-9-CM	Diagnosis
807.06	Closed fracture of six ribs	ICD-9-CM	Diagnosis
807.07	Closed fracture of seven ribs	ICD-9-CM	Diagnosis
807.08	Closed fracture of eight or more ribs	ICD-9-CM	Diagnosis
807.09	Closed fracture of multiple ribs, unspecified	ICD-9-CM	Diagnosis
807.1	Open fracture of rib(s)	ICD-9-CM	Diagnosis
807.10	Open fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.11	Open fracture of one rib	ICD-9-CM	Diagnosis
807.12	Open fracture of two ribs	ICD-9-CM	Diagnosis
807.13	Open fracture of three ribs	ICD-9-CM	Diagnosis
807.14	Open fracture of four ribs	ICD-9-CM	Diagnosis
807.15	Open fracture of five ribs	ICD-9-CM	Diagnosis
807.16	Open fracture of six ribs	ICD-9-CM	Diagnosis
807.17	Open fracture of seven ribs	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
807.19	Open fracture of multiple ribs, unspecified	ICD-9-CM	Diagnosis
807.2	Closed fracture of sternum	ICD-9-CM	Diagnosis
807.3	Open fracture of sternum	ICD-9-CM	Diagnosis
807.4	Flail chest	ICD-9-CM	Diagnosis
808	Fracture of pelvis	ICD-9-CM	Diagnosis
808.0	Closed fracture of acetabulum	ICD-9-CM	Diagnosis
808.1	Open fracture of acetabulum	ICD-9-CM	Diagnosis
808.2	Closed fracture of pubis	ICD-9-CM	Diagnosis
808.3	Open fracture of pubis	ICD-9-CM	Diagnosis
808.4	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.41	Closed fracture of ilium	ICD-9-CM	Diagnosis
808.42	Closed fracture of ischium	ICD-9-CM	Diagnosis
808.43	Multiple closed pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
808.44	Multiple closed pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.49	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.5	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.51	Open fracture of ilium	ICD-9-CM	Diagnosis
808.52	Open fracture of ischium	ICD-9-CM	Diagnosis
808.53	Multiple open pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
808.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.59	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.8	Unspecified closed fracture of pelvis	ICD-9-CM	Diagnosis
808.9	Unspecified open fracture of pelvis	ICD-9-CM	Diagnosis
809	III-defined fractures of bones of trunk	ICD-9-CM	Diagnosis
809.0	Fracture of bones of trunk, closed	ICD-9-CM	Diagnosis
809.1	Fracture of bones of trunk, open	ICD-9-CM	Diagnosis
81.65	Percutaneous vertebroplasty	ICD-9-CM	Diagnosis
81.66	Percutaneous vertebral augmentation	ICD-9-CM	Diagnosis
810	Fracture of clavicle	ICD-9-CM	Diagnosis
810.0	Closed fracture of clavicle	ICD-9-CM	Diagnosis
810.00	Unspecified part of closed fracture of clavicle	ICD-9-CM	Diagnosis
810.01	Closed fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.02	Closed fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.03	Closed fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
810.1	Open fracture of clavicle	ICD-9-CM	Diagnosis
810.10	Unspecified part of open fracture of clavicle	ICD-9-CM	Diagnosis
810.11	Open fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.12	Open fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.13	Open fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
811	Fracture of scapula	ICD-9-CM	Diagnosis
811.0	Closed fracture of scapula	ICD-9-CM	Diagnosis
811.00	Closed fracture of unspecified part of scapula	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
811.02	Closed fracture of coracoid process of scapula	ICD-9-CM	Diagnosis
811.03	Closed fracture of glenoid cavity and neck of scapula	ICD-9-CM	Diagnosis
811.09	Closed fracture of other part of scapula	ICD-9-CM	Diagnosis
811.1	Open fracture of scapula	ICD-9-CM	Diagnosis
811.10	Open fracture of unspecified part of scapula	ICD-9-CM	Diagnosis
811.11	Open fracture of acromial process of scapula	ICD-9-CM	Diagnosis
811.12	Open fracture of coracoid process	ICD-9-CM	Diagnosis
811.13	Open fracture of glenoid cavity and neck of scapula	ICD-9-CM	Diagnosis
811.19	Open fracture of other part of scapula	ICD-9-CM	Diagnosis
812	Fracture of humerus	ICD-9-CM	Diagnosis
812.0	Closed fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.00	Closed fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.01	Closed fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.02	Closed fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.03	Closed fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
812.09	Other closed fractures of upper end of humerus	ICD-9-CM	Diagnosis
812.1	Open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.10	Open fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.11	Open fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.12	Open fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.13	Open fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
812.19	Other open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.2	Closed fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.20	Closed fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.21	Closed fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.3	Open fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.30	Open fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.31	Open fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.4	Closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.40	Closed fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.41	Closed fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.42	Closed fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.43	Closed fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.44	Closed fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.49	Other closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.5	Open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.50	Open fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.51	Open fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.52	Open fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.53	Open fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.54	Open fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.59	Other open fracture of lower end of humerus	ICD-9-CM	Diagnosis
813	Fracture of radius and ulna	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
813.0	Closed fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
813.00	Unspecified fracture of radius and ulna, upper end of forearm, closed	ICD-9-CM	Diagnosis
813.01	Closed fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.02	Closed fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.03	Closed Monteggia's fracture	ICD-9-CM	Diagnosis
813.04	Other and unspecified closed fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.05	Closed fracture of head of radius	ICD-9-CM	Diagnosis
813.06	Closed fracture of neck of radius	ICD-9-CM	Diagnosis
813.07	Other and unspecified closed fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.08	Closed fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.1	Open fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
813.10	Unspecified open fracture of upper end of forearm	ICD-9-CM	Diagnosis
813.11	Open fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.12	Open fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.13	Open Monteggia's fracture	ICD-9-CM	Diagnosis
813.14	Other and unspecified open fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.15	Open fracture of head of radius	ICD-9-CM	Diagnosis
813.16	Open fracture of neck of radius	ICD-9-CM	Diagnosis
813.17	Other and unspecified open fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.18	Open fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.2	Closed fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.20	Unspecified closed fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.21	Closed fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.22	Closed fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.23	Closed fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.3	Open fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.30	Unspecified open fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.31	Open fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.32	Open fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.33	Open fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.4	Closed fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.40	Unspecified closed fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.41	Closed Colles' fracture	ICD-9-CM	Diagnosis
813.42	Other closed fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.43	Closed fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
813.44	Closed fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.45	Torus fracture of radius (alone)	ICD-9-CM	Diagnosis
813.46	Torus fracture of ulna (alone)	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
813.47	Torus fracture of radius and ulna	ICD-9-CM	Diagnosis
813.5	Open fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.50	Unspecified open fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.51	Open Colles' fracture	ICD-9-CM	Diagnosis
813.52	Other open fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.53	Open fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
813.54	Open fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.8	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.80	Closed fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.81	Closed fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.82	Closed fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.83	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.9	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.90	Open fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.91	Open fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.92	Open fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.93	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
814	Fracture of carpal bone(s)	ICD-9-CM	Diagnosis
814.0	Closed fractures of carpal bones	ICD-9-CM	Diagnosis
814.00	Unspecified closed fracture of carpal bone	ICD-9-CM	Diagnosis
814.01	Closed fracture of navicular (scaphoid) bone of wrist	ICD-9-CM	Diagnosis
814.02	Closed fracture of lunate (semilunar) bone of wrist	ICD-9-CM	Diagnosis
814.03	Closed fracture of triquetral (cuneiform) bone of wrist	ICD-9-CM	Diagnosis
814.04	Closed fracture of pisiform bone of wrist	ICD-9-CM	Diagnosis
814.05	Closed fracture of trapezium bone (larger multangular) of wrist	ICD-9-CM	Diagnosis
814.06	Closed fracture of trapezoid bone (smaller multangular) of wrist	ICD-9-CM	Diagnosis
814.07	Closed fracture of capitate bone (os magnum) of wrist	ICD-9-CM	Diagnosis
814.08	Closed fracture of hamate (unciform) bone of wrist	ICD-9-CM	Diagnosis
814.09	Closed fracture of other bone of wrist	ICD-9-CM	Diagnosis
814.1	Open fractures of carpal bones	ICD-9-CM	Diagnosis
814.10	Unspecified open fracture of carpal bone	ICD-9-CM	Diagnosis
814.11	Open fracture of navicular (scaphoid) bone of wrist	ICD-9-CM	Diagnosis
814.12	Open fracture of lunate (semilunar) bone of wrist	ICD-9-CM	Diagnosis
814.13	Open fracture of triquetral (cuneiform) bone of wrist	ICD-9-CM	Diagnosis
814.14	Open fracture of pisiform bone of wrist	ICD-9-CM	Diagnosis
814.15	Open fracture of trapezium bone (larger multangular) of wrist	ICD-9-CM	Diagnosis
814.16	Open fracture of trapezoid bone (smaller multangular) of wrist	ICD-9-CM	Diagnosis
814.17	Open fracture of capitate bone (os magnum) of wrist	ICD-9-CM	Diagnosis
814.18	Open fracture of hamate (unciform) bone of wrist	ICD-9-CM	Diagnosis
814.19	Open fracture of other bone of wrist	ICD-9-CM	Diagnosis
815	Fracture of metacarpal bone(s)	ICD-9-CM	Diagnosis
815.0	Closed fracture of metacarpal bones	ICD-9-CM	Diagnosis
815.00	Closed fracture of metacarpal bone(s), site unspecified	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
815.01	Closed fracture of base of thumb (first) metacarpal bone(s)	ICD-9-CM	Diagnosis
815.02	Closed fracture of base of other metacarpal bone(s)	ICD-9-CM	Diagnosis
815.03	Closed fracture of shaft of metacarpal bone(s)	ICD-9-CM	Diagnosis
815.04	Closed fracture of neck of metacarpal bone(s)	ICD-9-CM	Diagnosis
815.09	Closed fracture of multiple sites of metacarpus	ICD-9-CM	Diagnosis
815.1	Open fracture of metacarpal bones	ICD-9-CM	Diagnosis
815.10	Open fracture of metacarpal bone(s), site unspecified	ICD-9-CM	Diagnosis
815.11	Open fracture of base of thumb (first) metacarpal bone(s)	ICD-9-CM	Diagnosis
815.12	Open fracture of base of other metacarpal bone(s)	ICD-9-CM	Diagnosis
815.13	Open fracture of shaft of metacarpal bone(s)	ICD-9-CM	Diagnosis
815.14	Open fracture of neck of metacarpal bone(s)	ICD-9-CM	Diagnosis
815.19	Open fracture of multiple sites of metacarpus	ICD-9-CM	Diagnosis
818	Ill-defined fractures of upper limb	ICD-9-CM	Diagnosis
818.0	Ill-defined closed fractures of upper limb	ICD-9-CM	Diagnosis
818.1	Ill-defined open fractures of upper limb	ICD-9-CM	Diagnosis
819	Multiple fractures involving both upper limbs, and upper limb with rib(s) and sternum	ICD-9-CM	Diagnosis
819.0	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum	ICD-9-CM	Diagnosis
819.1	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum	ICD-9-CM	Diagnosis
820	Fracture of neck of femur	ICD-9-CM	Diagnosis
820.0	Closed transcervical fracture	ICD-9-CM	Diagnosis
820.00	Closed fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.02	Closed fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.03	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.09	Other closed transcervical fracture of femur	ICD-9-CM	Diagnosis
820.1	Open transcervical fracture	ICD-9-CM	Diagnosis
820.10	Open fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.19	Other open transcervical fracture of femur	ICD-9-CM	Diagnosis
820.2	Closed pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.31	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.32	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
820.8	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.9	Open fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
821	Fracture of other and unspecified parts of femur	ICD-9-CM	Diagnosis
821.0	Closed fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.00	Closed fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.01	Closed fracture of shaft of femur	ICD-9-CM	Diagnosis
821.1	Open fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.10	Open fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.11	Open fracture of shaft of femur	ICD-9-CM	Diagnosis
821.2	Closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.20	Closed fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.21	Closed fracture of femoral condyle	ICD-9-CM	Diagnosis
821.22	Closed fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.23	Closed supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.29	Other closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.3	Open fracture of lower end of femur	ICD-9-CM	Diagnosis
821.30	Open fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.31	Open fracture of femoral condyle	ICD-9-CM	Diagnosis
821.32	Open fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.33	Open supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.39	Other open fracture of lower end of femur	ICD-9-CM	Diagnosis
822	Fracture of patella	ICD-9-CM	Diagnosis
822.0	Closed fracture of patella	ICD-9-CM	Diagnosis
822.1	Open fracture of patella	ICD-9-CM	Diagnosis
823	Fracture of tibia and fibula	ICD-9-CM	Diagnosis
823.0	Closed fracture of upper end of tibia and fibula	ICD-9-CM	Diagnosis
823.00	Closed fracture of upper end of tibia	ICD-9-CM	Diagnosis
823.01	Closed fracture of upper end of fibula	ICD-9-CM	Diagnosis
823.02	Closed fracture of upper end of fibula with tibia	ICD-9-CM	Diagnosis
823.1	Open fracture of upper end of tibia and fibula	ICD-9-CM	Diagnosis
823.10	Open fracture of upper end of tibia	ICD-9-CM	Diagnosis
823.11	Open fracture of upper end of fibula	ICD-9-CM	Diagnosis
823.12	Open fracture of upper end of fibula with tibia	ICD-9-CM	Diagnosis
823.2	Closed fracture of shaft of tibia and fibula	ICD-9-CM	Diagnosis
823.20	Closed fracture of shaft of tibia	ICD-9-CM	Diagnosis
823.21	Closed fracture of shaft of fibula	ICD-9-CM	Diagnosis
823.22	Closed fracture of shaft of fibula with tibia	ICD-9-CM	Diagnosis
823.3	Open fracture of shaft of tibia and fibula	ICD-9-CM	Diagnosis
823.30	Open fracture of shaft of tibia	ICD-9-CM	Diagnosis
823.31	Open fracture of shaft of fibula	ICD-9-CM	Diagnosis
823.32	Open fracture of shaft of fibula with tibia	ICD-9-CM	Diagnosis
823.4	Torus fracture of tibia and fibula	ICD-9-CM	Diagnosis
823.40	Torus fracture of tibia alone	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
823.41	Torus fracture of fibula alone	ICD-9-CM	Diagnosis
823.42	Torus fracture of fibula with tibia	ICD-9-CM	Diagnosis
823.8	Closed fracture of unspecified part of tibia and fibula	ICD-9-CM	Diagnosis
823.80	Closed fracture of unspecified part of tibia	ICD-9-CM	Diagnosis
823.81	Closed fracture of unspecified part of fibula	ICD-9-CM	Diagnosis
823.82	Closed fracture of unspecified part of fibula with tibia	ICD-9-CM	Diagnosis
823.9	Open fracture of unspecified part of tibia and fibula	ICD-9-CM	Diagnosis
823.90	Open fracture of unspecified part of tibia	ICD-9-CM	Diagnosis
823.91	Open fracture of unspecified part of fibula	ICD-9-CM	Diagnosis
823.92	Open fracture of unspecified part of fibula with tibia	ICD-9-CM	Diagnosis
824	Fracture of ankle	ICD-9-CM	Diagnosis
824.0	Closed fracture of medial malleolus	ICD-9-CM	Diagnosis
824.1	Open fracture of medial malleolus	ICD-9-CM	Diagnosis
824.2	Closed fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.3	Open fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.4	Closed bimalleolar fracture	ICD-9-CM	Diagnosis
824.5	Open bimalleolar fracture	ICD-9-CM	Diagnosis
824.6	Closed trimalleolar fracture	ICD-9-CM	Diagnosis
824.7	Open trimalleolar fracture	ICD-9-CM	Diagnosis
824.8	Unspecified closed fracture of ankle	ICD-9-CM	Diagnosis
824.9	Unspecified open fracture of ankle	ICD-9-CM	Diagnosis
825	Fracture of one or more tarsal and metatarsal bones	ICD-9-CM	Diagnosis
825.0	Closed fracture of calcaneus	ICD-9-CM	Diagnosis
825.1	Open fracture of calcaneus	ICD-9-CM	Diagnosis
825.2	Closed fracture of other tarsal and metatarsal bones	ICD-9-CM	Diagnosis
825.20	Closed fracture of unspecified bone(s) of foot (except toes)	ICD-9-CM	Diagnosis
825.21	Closed fracture of astragalus	ICD-9-CM	Diagnosis
825.22	Closed fracture of navicular (scaphoid) bone of foot	ICD-9-CM	Diagnosis
825.23	Closed fracture of cuboid bone	ICD-9-CM	Diagnosis
825.24	Closed fracture of cuneiform bone of foot	ICD-9-CM	Diagnosis
825.25	Closed fracture of metatarsal bone(s)	ICD-9-CM	Diagnosis
825.29	Other closed fracture of tarsal and metatarsal bones	ICD-9-CM	Diagnosis
825.3	Open fracture of other tarsal and metatarsal bones	ICD-9-CM	Diagnosis
825.30	Open fracture of unspecified bone(s) of foot (except toes)	ICD-9-CM	Diagnosis
825.31	Open fracture of astragalus	ICD-9-CM	Diagnosis
825.32	Open fracture of navicular (scaphoid) bone of foot	ICD-9-CM	Diagnosis
825.33	Open fracture of cuboid bone	ICD-9-CM	Diagnosis
825.34	Open fracture of cuneiform bone of foot,	ICD-9-CM	Diagnosis
825.35	Open fracture of metatarsal bone(s)	ICD-9-CM	Diagnosis
825.39	Other open fractures of tarsal and metatarsal bones	ICD-9-CM	Diagnosis
827	Other, multiple, and ill-defined fractures of lower limb	ICD-9-CM	Diagnosis
827.0	Other, multiple and ill-defined closed fractures of lower limb	ICD-9-CM	Diagnosis
827.1	Other, multiple and ill-defined open fractures of lower limb	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
828	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum	ICD-9-CM	Diagnosis
828.0	Multiple closed fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum	ICD-9-CM	Diagnosis
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum, open	ICD-9-CM	Diagnosis
V54.13	Aftercare for healing traumatic fracture of hip	ICD-9-CM	Diagnosis
V54.23	Aftercare for healing pathologic fracture of hip	ICD-9-CM	Diagnosis
	Human Immunodeficiency Virus or Acquired Immunodeficienc	y Syndrome	
042	Human immunodeficiency virus [HIV]	ICD-9-CM	Diagnosis
043	HIV infection causing other specified conditions	ICD-9-CM	Diagnosis
043.1	HIV infection causing lymphadenopathy	ICD-9-CM	Diagnosis
043.2	HIV infection causing other disorders involving the immune mechanism	ICD-9-CM	Diagnosis
043.3	HIV infection causing other specified conditions	ICD-9-CM	Diagnosis
043.9	AIDS related complex, unspecified	ICD-9-CM	Diagnosis
044	Other HIV infection	ICD-9-CM	Diagnosis
044.0	Other HIV infection	ICD-9-CM	Diagnosis
044.9	HIV infection, unspecified	ICD-9-CM	Diagnosis
795.71	Nonspecific serologic evidence of human immunodeficiency virus (HIV)	ICD-9-CM	Diagnosis
V08	Asymptomatic human immunodeficiency virus (HIV) infection status	ICD-9-CM	Diagnosis
	Hyperlipidemia or Lipid Disorder		
272.0	Pure hypercholesterolemia	ICD-9-CM	Diagnosis
272.1	Pure hyperglyceridemia	ICD-9-CM	Diagnosis
272.2	Mixed hyperlipidemia	ICD-9-CM	Diagnosis
272.4	Other and unspecified hyperlipidemia	ICD-9-CM	Diagnosis
	Hypertension		
401	Essential hypertension	ICD-9-CM	Diagnosis
401.0	Essential hypertension, malignant	ICD-9-CM	Diagnosis
401.1	Essential hypertension, benign	ICD-9-CM	Diagnosis
401.9	Unspecified essential hypertension	ICD-9-CM	Diagnosis
402	Hypertensive heart disease	ICD-9-CM	Diagnosis
402.0	Malignant hypertensive heart disease	ICD-9-CM	Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.1	Benign hypertensive heart disease	ICD-9-CM	Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.9	Unspecified hypertensive heart disease	ICD-9-CM	Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
403	Hypertensive chronic kidney disease	ICD-9-CM	Diagnosis
403.0	Hypertensive chronic kidney disease, malignant	ICD-9-CM	Diagnosis



ode	Description	Code Type	Code Category
)3.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
)3.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
)3.1	Hypertensive chronic kidney disease, benign	ICD-9-CM	Diagnosis
)3.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
)3.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
)3.9	Hypertensive chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
)3.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
)3.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
)4	Hypertensive heart and chronic kidney disease	ICD-9-CM	Diagnosis
04.0	Hypertensive heart and chronic kidney disease, malignant	ICD-9-CM	Diagnosis
)4.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
04.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
04.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end-stage renal disease		Diagnosis
)4.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
04.1	Hypertensive heart and chronic kidney disease, benign	ICD-9-CM	Diagnosis
)4.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
)4.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
)4.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
)4.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
)4.9	Hypertensive heart and chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end-stage renal disease		



Code	Description	Code Type	Code Category
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end-stage renal disease	ICD-9-CM	Diagnosis
405	Secondary hypertension	ICD-9-CM	Diagnosis
405.0	Secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM	Diagnosis
405.09	Other secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.1	Secondary hypertension, benign	ICD-9-CM	Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM	Diagnosis
405.19	Other secondary hypertension, benign	ICD-9-CM	Diagnosis
405.9	Unspecified secondary hypertension, unspecified	ICD-9-CM	Diagnosis
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM	Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM	Diagnosis
	Hypoglycemia		
250.8	Diabetes with other specified manifestations	ICD-9-CM	Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
251.0	Hypoglycemic coma	ICD-9-CM	Diagnosis
251.1	Other specified hypoglycemia	ICD-9-CM	Diagnosis
251.2	Hypoglycemia, unspecified	ICD-9-CM	Diagnosis
	Obesity (or Weight Gain)		
278.0	Overweight and obesity	ICD-9-CM	Diagnosis
278.00	Obesity, unspecified	ICD-9-CM	Diagnosis
278.01	Morbid obesity	ICD-9-CM	Diagnosis
278.02	Overweight	ICD-9-CM	Diagnosis
278.03	Obesity hypoventilation syndrome	ICD-9-CM	Diagnosis
783.1	Abnormal weight gain	ICD-9-CM	Diagnosis
793.91	Image test inconclusive due to excess body fat	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
V85.3	Body Mass Index between 30-39, adult	ICD-9-CM	Diagnosis
V85.30	Body Mass Index 30.0-30.9, adult	ICD-9-CM	Diagnosis
V85.31	Body Mass Index 31.0-31.9, adult	ICD-9-CM	Diagnosis
V85.32	Body Mass Index 32.0-32.9, adult	ICD-9-CM	Diagnosis
V85.33	Body Mass Index 33.0-33.9, adult	ICD-9-CM	Diagnosis
V85.34	Body Mass Index 34.0-34.9, adult	ICD-9-CM	Diagnosis
V85.35	Body Mass Index 35.0-35.9, adult	ICD-9-CM	Diagnosis
V85.36	Body Mass Index 36.0-36.9, adult	ICD-9-CM	Diagnosis
V85.37	Body Mass Index 37.0-37.9, adult	ICD-9-CM	Diagnosis
V85.38	Body Mass Index 38.0-38.9, adult	ICD-9-CM	Diagnosis
V85.39	Body Mass Index 39.0-39.9, adult	ICD-9-CM	Diagnosis
V85.4	Body Mass Index 40 and over, adult	ICD-9-CM	Diagnosis
V85.41	Body Mass Index 40.0-44.9, adult	ICD-9-CM	Diagnosis
V85.42	Body Mass Index 45.0-49.9, adult	ICD-9-CM	Diagnosis
V85.43	Body Mass Index 50.0-59.9, adult	ICD-9-CM	Diagnosis
V85.44	Body Mass Index 60.0-69.9, adult	ICD-9-CM	Diagnosis
V85.45	Body Mass Index 70 and over, adult	ICD-9-CM	Diagnosis
	Osteoporosis		
733.0	Osteoporosis	ICD-9-CM	Diagnosis
733.00	Unspecified osteoporosis	ICD-9-CM	Diagnosis
733.01	Senile osteoporosis	ICD-9-CM	Diagnosis
733.02	Idiopathic osteoporosis	ICD-9-CM	Diagnosis
733.03	Disuse osteoporosis	ICD-9-CM	Diagnosis
733.09	Other osteoporosis	ICD-9-CM	Diagnosis
V17.81	Family history of, Osteoporosis	ICD-9-CM	Diagnosis
V82.81	Special screening for osteoporosis	ICD-9-CM	Diagnosis
	Peripheral Neuropathy		
250.6	Diabetes with neurological manifestations	ICD-9-CM	Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
337.1	Peripheral autonomic neuropathy in disorders classified elsewhere	ICD-9-CM	Diagnosis
354	Mononeuritis of upper limb and mononeuritis multiplex	ICD-9-CM	Diagnosis
354.0	Carpal tunnel syndrome	ICD-9-CM	Diagnosis
354.1	Other lesion of median nerve	ICD-9-CM	Diagnosis
354.2	Lesion of ulnar nerve	ICD-9-CM	Diagnosis
354.3	Lesion of radial nerve	ICD-9-CM	Diagnosis
			-0



Code	Description	Code Type	Code Category		
354.5	Mononeuritis multiplex	ICD-9-CM	Diagnosis		
354.8	Other mononeuritis of upper limb	ICD-9-CM	Diagnosis		
354.9	Unspecified mononeuritis of upper limb	ICD-9-CM	Diagnosis		
355	Mononeuritis of lower limb and unspecified site	ICD-9-CM	Diagnosis		
355.0	Lesion of sciatic nerve	ICD-9-CM	Diagnosis		
355.1	Meralgia paresthetica	ICD-9-CM	Diagnosis		
355.2	Other lesion of femoral nerve	ICD-9-CM	Diagnosis		
355.3	Lesion of lateral popliteal nerve	ICD-9-CM	Diagnosis		
355.4	Lesion of medial popliteal nerve	ICD-9-CM	Diagnosis		
355.5	Tarsal tunnel syndrome	ICD-9-CM	Diagnosis		
355.6	Lesion of plantar nerve	ICD-9-CM	Diagnosis		
355.7	Other mononeuritis of lower limb	ICD-9-CM	Diagnosis		
355.71	Causalgia of lower limb	ICD-9-CM	Diagnosis		
355.79	Other mononeuritis of lower limb	ICD-9-CM	Diagnosis		
355.8	Unspecified mononeuritis of lower limb	ICD-9-CM	Diagnosis		
355.9	Mononeuritis of unspecified site	ICD-9-CM	Diagnosis		
357.2	Polyneuropathy in diabetes	ICD-9-CM	Diagnosis		
	Tobacco Use				
305.1	Nondependent tobacco use disorder	ICD-9-CM	Diagnosis		
V15.82	Personal history of tobacco use, presenting hazards to health	ICD-9-CM	Diagnosis		



Generic Name	Brand Name
Anti-Diab	etic Medication
Sa	xagliptin
dapagliflozin propanediol/saxagliptin hcl	Qtern
saxagliptin hcl	Onglyza
saxagliptin hcl/metformin hcl	Kombiglyze XR
Si	tagliptin
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
sitagliptin phosphate	Januvia
sitagliptin phosphate/metformin hcl	Janumet
sitagliptin phosphate/metformin hcl	Janumet XR
sitagliptin phosphate/simvastatin	Juvisync
Long-A	cting Insulins
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30flexpen U-100
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insuln
insulin degludec	Tresiba Flextouch U-200
insulin degludec	Tresiba Flextouch U-100
insulin degludec/liraglutide	Xultophy 100/3.6
insulin detemir	Levemir Flextouch U-100 Insuln
insulin detemir	Levemir Flexpen
insulin detemir	Levemir U-100 Insulin
insulin glargine, human recombinant analog	Lantus U-100 Insulin
insulin glargine, human recombinant analog	Basaglar Kwikpen U-100 Insulin
insulin glargine, human recombinant analog	Toujeo Solostar U-300 Insulin
insulin glargine, human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insuln U-100
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 Kwikpen
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Kwikpen
insulin nph human isophane	Novolin N Penfill
insulin nph human isophane	Humulin N Pen
insulin nph human isophane	Humulin N NPH Insulin Kwikpen
insulin nph human isophane	Novolin N Innolet
insulin nph human isophane	Humulin N Nph U-100 Insulin
insulin nph human isophane	Novolin N Nph U-100 Insulin
insulin nph human isophane/insulin regular, human	Novolin 70/30 Penfill
insulin nph human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin nph human isophane/insulin regular, human	Humulin 70/30 U-100 Kwikpen
insulin nph human isophane/insulin regular, human	Novolin 70/30 Innolet Insulin
insulin nph human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin nph human isophane/insulin regular, human	Humulin 50/50
insulin nph human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin



Generic Name	Brand Name
	Pioglitazone
alogliptin benzoate/pioglitazone hcl	Alogliptin-Pioglitazone
alogliptin benzoate/pioglitazone hcl	Oseni
pioglitazone hcl	Pioglitazone
pioglitazone hcl	Actos
pioglitazone hcl/glimepiride	Pioglitazone-Glimepiride
pioglitazone hcl/glimepiride	Duetact
pioglitazone hcl/metformin hcl	Pioglitazone-Metformin
pioglitazone hcl/metformin hcl	Actoplus MET
pioglitazone hcl/metformin hcl	Actoplus Met Xr
Seco	ond-Generation Sulfonylurea
glimepiride	Amaryl
glimepiride	Glimepiride
glipizide	Glucotrol
glipizide	Glipizide
glipizide	Glucotrol XL
glipizide/metformin hcl	Metaglip
glipizide/metformin hcl	Glipizide-Metformin
glyburide	Micronase
glyburide	Diabeta
glyburide	Glyburide
glyburide,micronized	Glynase
glyburide,micronized	Glyburide Micronized
glyburide/metformin hcl	Glucovance
glyburide/metformin hcl	Glyburide-Metformin
pioglitazone hcl/glimepiride	Pioglitazone-Glimepiride
pioglitazone hcl/glimepiride	Duetact
rosiglitazone maleate/glimepiride	Avandaryl
A	Ipha-Glucosidase Inhibitor
miglitol	Glyset
acarbose	Precose
acarbose	Acarbose
miglitol	Miglitol
	Amylin Analog-Type
pramlintide acetate	Symlinpen 60
pramlintide acetate	Symlinpen 120
pramlintide acetate	Symlin
	Biguanide
saxagliptin hcl/metformin hcl	Kombiglyze XR
sitagliptin phosphate/metformin hcl	Janumet XR
sitagliptin phosphate/metformin hcl	Janumet
rosiglitazone maleate/metformin hcl	Avandamet
metformin hcl	Glucophage
metformin hcl	Glucophage XR
glyburide/metformin hcl	Glucovance



Generic Name	Brand Name
glipizide/metformin hcl	Metaglip
metformin hcl	Metformin
pioglitazone hcl/metformin hcl	Pioglitazone-Metformin
glyburide/metformin hcl	Glyburide-Metformin
glipizide/metformin hcl	Glipizide-Metformin
repaglinide/metformin hcl	Prandimet
dapagliflozin propanediol/metformin hcl	Xigduo XR
linagliptin/metformin hcl	Jentadueto
empagliflozin/metformin hcl	Synjardy
linagliptin/metformin hcl	Jentadueto XR
empagliflozin/metformin hcl	Synjardy XR
metformin hcl	Riomet
metformin hcl	Glumetza
pioglitazone hcl/metformin hcl	Actoplus MET
alogliptin benzoate/metformin hcl	Alogliptin-Metformin
canagliflozin/metformin hcl	Invokamet
canagliflozin/metformin hcl	Invokamet XR
metformin hcl	Fortamet
pioglitazone hcl/metformin hcl	Actoplus Met Xr
alogliptin benzoate/metformin hcl	Kazano
repaglinide/metformin hcl	Repaglinide-Metformin
metformin/caffeine/amino acids 7/herbal comb 125/choline	b Appformin
metformin/amino acids no.7/herbal cmb.125/choline bitartr	at Appformin-D
metformin hcl/blood sugar diagnostic	Dm2
	tidase-4 (Dpp-4) Inhibitor
linagliptin	Tradjenta
linagliptin/metformin hcl	Jentadueto
empagliflozin/linagliptin	Glyxambi
linagliptin/metformin hcl	Jentadueto XR
alogliptin benzoate	Alogliptin
alogliptin benzoate/metformin hcl	Alogliptin-Metformin
alogliptin benzoate	Nesina
alogliptin benzoate/metformin hcl	Kazano
alogliptin benzoate/pioglitazone hcl	Alogliptin-Pioglitazone
alogliptin benzoate/pioglitazone hcl	Oseni ide-1 (GLP-1) Analogue
dulaglutide	Trulicity
lixisenatide	Adlyxin
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
insulin degludec/liraglutide	Xultophy 100/3.6
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
semaglutide	Ozempic
albiglutide	Tanzeum
exenatide	Byetta
exenduce	Dyetta



Generic Name	Brand Name
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon Bcise
	Meglitinide
nateglinide	Starlix
repaglinide	Prandin
repaglinide/metformin hcl	Prandimet
repaglinide	Repaglinide
nateglinide	Nateglinide
repaglinide/metformin hcl	Repaglinide-Metformin
First-G	eneration Sulfonylurea
chlorpropamide	Chlorpropamide
tolbutamide	Tolbutamide
tolazamide	Tolazamide
Sł	nort-Acting Insulins
insulin aspart	Novolog Penfill U-100 Insulin
insulin aspart	Novolog Flexpen U-100 Insulin
insulin aspart	Novolog U-100 Insulin Aspart
insulin aspart (niacinamide)	Fiasp Flextouch U-100 Insulin
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin glulisine	Apidra U-100 Insulin
insulin glulisine	Apidra Solostar U-100 Insulin
insulin lispro	Humalog U-100 Insulin
insulin lispro	Humalog Kwikpen Insulin
insulin lispro	Humalog Pen
insulin lispro	Admelog Solostar U-100 Insulin
insulin lispro	Humalog Junior Kwikpen U-100
insulin lispro	Admelog U-100 Insulin Lispro
insulin regular, human	Novolin R Penfill
insulin regular, human	Novolin R Regular U-100 Insuln
insulin regular, human	Afrezza
insulin regular, human	Humulin R U-500 (Conc) Kwikpen
insulin regular, human	Novolin R Innolet
insulin regular, human	Humulin R Regular U-100 Insuln
insulin regular, human	Humulin R U-500 (Conc) Insulin
	er Thiazolidinedione
rosiglitazone maleate/glimepiride	Avandaryl
rosiglitazone maleate/metformin hcl	Avandamet
rosiglitazone maleate	Avandia
Sodium-Glucose	Cotransporter-2 (Sglt-2) Inhibitor
dapagliflozin propanediol	Farxiga
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
dapagliflozin propanediol/metformin hcl	Xigduo XR
dapagliflozin propanediol/saxagliptin hcl	Qtern
empagliflozin	Jardiance



Generic Name	Brand Name
empagliflozin/metformin hcl	Synjardy
empagliflozin/linagliptin	Glyxambi
empagliflozin/metformin hcl	Synjardy XR
canagliflozin	Invokana
canagliflozin/metformin hcl	Invokamet
canagliflozin/metformin hcl	Invokamet XR
An	nti-Hypertensive Agent
Angiotensin-C	Converting Enzyme (Ace) Inhibitor
lisinopril	Prinivil
lisinopril/hydrochlorothiazide	Prinzide
perindopril erbumine	Aceon
ramipril	Ramipril
perindopril erbumine	Perindopril Erbumine
quinapril hcl/hydrochlorothiazide	Accuretic
quinapril hcl	Accupril
trandolapril	Mavik
trandolapril/verapamil hcl	Tarka
amlodipine besylate/benazepril hcl	Lotrel
benazepril hcl	Lotensin
benazepril hcl/hydrochlorothiazide	Lotensin HCT
fosinopril sodium	Monopril
fosinopril sodium/hydrochlorothiazide	Monopril HCT
moexipril hcl	Univasc
moexipril hcl/hydrochlorothiazide	Uniretic
moexipril hcl	Moexipril
enalapril maleate	Enalapril Maleate
captopril/hydrochlorothiazide	Captopril-Hydrochlorothiazide
lisinopril/hydrochlorothiazide	Lisinopril-Hydrochlorothiazide
enalapril maleate/hydrochlorothiazide	Enalapril-Hydrochlorothiazide
quinapril hcl	Quinapril
benazepril hcl	Benazepril
moexipril hcl/hydrochlorothiazide	Moexipril-Hydrochlorothiazide
fosinopril sodium	Fosinopril
trandolapril	Trandolapril
amlodipine besylate/benazepril hcl	Amlodipine-Benazepril
captopril	Captopril
lisinopril	Lisinopril
enalaprilat dihydrate	Enalaprilat
benazepril hcl/hydrochlorothiazide	Benazepril-Hydrochlorothiazide
fosinopril sodium/hydrochlorothiazide	Fosinopril-Hydrochlorothiazide
enalapril maleate	Vasotec
enalapril maleate/hydrochlorothiazide	Vaseretic
lisinopril	Zestril
ramipril	Altace
lisinopril/hydrochlorothiazide	Zestoretic



Generic Name	Brand Name
captopril	Capoten
quinapril hcl/hydrochlorothiazide	Quinapril-Hydrochlorothiazide
aptopril/hydrochlorothiazide	Capozide
randolapril/verapamil hcl	Trandolapril-Verapamil
quinapril hcl/hydrochlorothiazide	Quinaretic
enalapril maleate	Epaned
isinopril	Qbrelis
perindopril arginine/amlodipine besylate	Prestalia
isinopril/dietary supplement,comb.10	Lytensopril
isinopril/dietary supplement,comb.10	Lytensopril-90
Al	pha Blocker
loxazosin mesylate	Cardura XL
doxazosin mesylate	Cardura
phenoxybenzamine hcl	Phenoxybenzamine
prazosin hcl	Minipress
erazosin hcl	Hytrin
doxazosin mesylate	Doxazosin
prazosin hcl	Prazosin
erazosin hcl	Terazosin
phentolamine mesylate	Phentolamine
phenoxybenzamine hcl	Dibenzyline
Angiotensin	Receptor Blocker (Arb)
osartan potassium/hydrochlorothiazide	Hyzaar
osartan potassium	Cozaar
nebivolol hcl/valsartan	Byvalson
rbesartan	Avapro
rbesartan/hydrochlorothiazide	Avalide
osartan potassium	Losartan
osartan potassium/hydrochlorothiazide	Losartan-Hydrochlorothiazide
rbesartan	Irbesartan
rbesartan/hydrochlorothiazide	Irbesartan-Hydrochlorothiazide
elmisartan	Telmisartan
elmisartan/hydrochlorothiazide	Telmisartan-Hydrochlorothiazid
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
eprosartan mesylate	Teveten
/alsartan/hydrochlorothiazide	Diovan HCT
/alsartan	Diovan
amlodipine besylate/valsartan	Exforge
mlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
sacubitril/valsartan	Entresto
olmesartan medoxomil/amlodipine besylate/hydrochloro	thiaz Olmesartan-Amlodipin-Hcthiazid
amlodipine besylate/olmesartan medoxomil	Amlodipine-Olmesartan
amlodipine besylate/valsartan/hydrochlorothiazide	Amlodipine-Valsartan-Hcthiazid
	Valsartan
valsartan	Vaisai tali



Generic Name	Brand Name
olmesartan medoxomil/hydrochlorothiazide	Olmesartan-Hydrochlorothiazide
amlodipine besylate/valsartan	Amlodipine-Valsartan
candesartan cilexetil	Atacand
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
telmisartan/amlodipine besylate	Telmisartan-Amlodipine
candesartan cilexetil/hydrochlorothiazide	Candesartan-Hydrochlorothiazid
valsartan/hydrochlorothiazide	Valsartan-Hydrochlorothiazide
eprosartan mesylate	Eprosartan
telmisartan	Micardis
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/amlodipine besylate	Twynsta
candesartan cilexetil	Candesartan
olmesartan medoxomil	Benicar
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
amlodipine besylate/olmesartan medoxomil	Azor
azilsartan medoxomil	Edarbi
azilsartan medoxomil/chlorthalidone	Edarbyclor
olmesartan medoxomil/amlodipine besylate/hydrochloro	othiaz Tribenzor
В	3eta Blocker
carvedilol phosphate	Coreg CR
carvedilol	Coreg
betaxolol hcl	Kerlone
propranolol hcl	Inderal LA
propranolol hcl	Propranolol
metoprolol tartrate	Lopressor
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
canakinumab/pf	llaris (PF)
penbutolol sulfate	Levatol
carvedilol	Carvedilol
metoprolol tartrate	Metoprolol Tartrate
atenolol	Atenolol
sotalol hcl	Sotalol
nadolol	Nadolol
bisoprolol fumarate	Bisoprolol Fumarate
nadolol/bendroflumethiazide	Nadolol-Bendroflumethiazide
labetalol hcl	Labetalol
propranolol hcl	Innopran XL
metoprolol succinate	Metoprolol Succinate
bisoprolol fumarate/hydrochlorothiazide	Bisoprolol-Hydrochlorothiazide
metoprolol succinate	Toprol XL
sotalol hcl	Sorine
propranolol hcl/hydrochlorothiazide	Propranolol-Hydrochlorothiazid
propranolol hcl	Inderal

Tenormin

Tenoretic 50

atenolol/chlorthalidone

atenolol



Generic Name	Brand Name
atenolol/chlorthalidone	Tenoretic 100
metoprolol succinate/hydrochlorothiazide	Dutoprol
pindolol	Pindolol
timolol maleate	Timolol Maleate
metoprolol tartrate/hydrochlorothiazide	Metoprolol Ta-Hydrochlorothiaz
acebutolol hcl	Acebutolol
atenolol/chlorthalidone	Atenolol-Chlorthalidone
sotalol hcl	Sotalol AF
nebivolol hcl	Bystolic
esmolol hcl	Esmolol
esmolol hcl	Brevibloc
esmolol hcl in sodium chloride, iso-osmotic	Brevibloc In Nacl (Iso-Osm)
betaxolol hcl	Betaxolol
sotalol hcl	Sotylize
nadolol	Corgard
sotalol hcl	Betapace
sotalol hcl	Betapace AF
bisoprolol fumarate/hydrochlorothiazide	Ziac
bisoprolol fumarate	Zebeta
labetalol hcl	Normodyne
labetalol hcl	Trandate
nadolol/bendroflumethiazide	Corzide
carvedilol phosphate	Carvedilol Phosphate
labetalol in dextrose 5 % in water	Labetalol In Dextrose 5 %
propranolol hcl	Hemangeol
acebutolol hcl	Sectral
metoprolol tartrate/dietary supplement,comb.10	Hypertensolol
metoprolol succinate/hydrochlorothiazide	Metoprolol Su-Hydrochlorothiaz
propranolol hcl	Inderal XL
Calcium ((Ca) Channel Blocker
nicardipine hcl	Cardene SR
verapamil hcl	Calan
verapamil hcl	Calan SR
verapamil hcl	Covera-HS
nimodipine	Nimotop
amlodipine besylate	Amlodipine
amlodipine besylate	Norvasc
nifedipine	Procardia
nifedipine	Procardia XL
verapamil hcl	Verapamil
diltiazem hcl	Diltiazem Hcl
diltiazem hcl	Cardizem LA
nifedipine	Adalat CC
verapamil hcl	Verelan



Generic Name	Brand Name
nicardipine hcl	Nicardipine
nifedipine	Nifedical XL
nifedipine	Nifediac CC
nifedipine	Nifedipine
isradipine	Dynacirc CR
felodipine	Plendil
diltiazem hcl	Cardizem
diltiazem hcl	Cardizem CD
diltiazem hcl	Tiazac
nisoldipine	Nisoldipine
felodipine	Felodipine
diltiazem hcl	Cartia XT
diltiazem hcl	Diltia XT
nimodipine	Nimodipine
nifedipine	Afeditab CR
nicardipine in sodium chloride, iso-osmotic	Cardene IV In Sodium Chloride
nicardipine in dextrose, iso-osmotic	Cardene IV In Dextrose
clevidipine butyrate	Cleviprex
verapamil hcl	Isoptin SR
diltiazem hcl/dextrose 5 % in water	Diltiazem In Dextrose 5 %
isradipine	Isradipine
nimodipine	Nymalize
nicardipine hcl	Cardene IV
nicardipine hcl in 0.9 % sodium chloride	Nicardipine In 0.9 % Nacl
diltiazem hcl	Dilacor XR
diltiazem hcl	Matzim LA
isradipine	Dynacirc
nisoldipine	Sular
diltiazem hcl	Dilt-Cd
diltiazem hcl	Dilt-Xr
diltiazem hcl	Diltzac ER
diltiazem hcl	Taztia XT
diltiazem hcl in 0.9 % sodium chloride	Diltiazem Hcl In 0.9% Nacl
nicardipine in 5 % dextrose in water	Nicardipine In 5 % Dextrose
D	Direct Vasodilator
hydralazine hcl	Hydralazine
nitroprusside sodium	Nitropress
minoxidil	Minoxidil
nitroprusside sodium	Sodium Nitroprusside
nitroprusside sodium in 0.9 % sodium chloride	Nipride RTU



Generic Name	Brand Name
	Loop Diuretic
bumetanide	Bumex
torsemide	Demadex
ethacrynic acid	Edecrin
furosemide	Lasix
torsemide	Torsemide
ethacrynic acid	Ethacrynic Acid
furosemide	Furosemide
bumetanide	Bumetanide
furosemide in 0.9 % sodium chloride	Furosemide In 0.9 % Nacl
ethacrynate sodium	Sodium Edecrin
ethacrynate sodium	Ethacrynate Sodium
furosemide/dextrose 5 % in water	Furosemide In Dextrose 5 %
Aldoster	rone Receptor Agonist (Ara)
spironolactone	Aldactone
eplerenone	Inspra
eplerenone	Eplerenone
spironolactone	Spironolactone
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone	Carospir
spironolactone/hydrochlorothiazide	Spironolacton-Hydrochlorothiaz
Non-Ara P	Potassium (K) Sparing Diuretic
triamterene/hydrochlorothiazide	Dyazide
triamterene/hydrochlorothiazide	Triamterene-Hydrochlorothiazid
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
amiloride hcl/hydrochlorothiazide	Amiloride-Hydrochlorothiazide
amiloride hcl	Midamor
amiloride hcl	Amiloride
triamterene	Dyrenium
	Thiazide Diuretic
lisinopril/hydrochlorothiazide	Prinzide
losartan potassium/hydrochlorothiazide	Hyzaar
chlorothiazide	Diuril
triamterene/hydrochlorothiazide	Dyazide
irbesartan/hydrochlorothiazide	Avalide
spironolactone/hydrochlorothiazide	Aldactazide
losartan potassium/hydrochlorothiazide	Losartan-Hydrochlorothiazide
irbesartan/hydrochlorothiazide	Irbesartan-Hydrochlorothiazide
telmisartan/hydrochlorothiazide	Telmisartan-Hydrochlorothiazid
quinapril hcl/hydrochlorothiazide	Accuretic
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
valsartan/hydrochlorothiazide	Diovan HCT
benazepril hcl/hydrochlorothiazide	Lotensin HCT



aliskiren hemifumarate/hydrochlorothiazide Tektura HCT amlodipine besylate/valsartan/hydrochlorothiazide Exforge HCT aliskiren hemifumarate/amlobine/hydrochlorothiazide Monopril HCT moexipril hcl/hydrochlorothiazide Uniretic captopril/hydrochlorothiazide Lisinopril HCT moexipril hcl/hydrochlorothiazide Lisinopril Hydrochlorothiazide enalapril maleate/hydrochlorothiazide Hydrochlorothiazide moexipril hcl/hydrochlorothiazide Hydrochlorothiazide enalapril maleate/hydrochlorothiazide Hydrochlorothiazide olmesartan medoxomi/amlodpine besylate/hydrochlorothiazide olmesartan medoxomi/amlodpine besylate/hydrochlorothiazide Moskipril-Hydrochlorothiazide amlodipine besylate/valsartan/hydrochlorothiazide Olmesartan-Amlodipin-Htthiazid amlodipine besylate/valsartan/hydrochlorothiazide Olmesartan-Hydrochlorothiazide amlodipine besylate/valsartan/hydrochlorothiazide Olmesartan-Hydrochlorothiazide amlodipine besylate/valsartan/hydrochlorothiazide Chlorothiazide domesartan medoxomi/hydrochlorothiazide Dimesartan-Hydrochlorothiazide chlorothiazide Chlorothiazide Esionopril-Hydrochlorothiazide trianterene/hydrochlorothiazide Benzepril-Hydrochlorothiazide benzepril hcl/hydrochlorothiazide Benzepril-Hydrochlorothiazide bisoprolol fumarate/hydrochlorothiazide Bisoprolol-Hydrochlorothiazide bisoprolol fumarate/hydrochlorothiazide Teosinopril-Hydrochlorothiazide propranolo hcl/hydrochlorothiazide Propranolol-Hydrochlorothiazide indapamide propranolol hcl/hydrochlorothiazide Zestoretic atenolol/chlorthaizde Metoprolol clonidne hcl/hydrochlorothiazide Metoprolol Ta-Hydrochlorothiaz methydobhja/hydrochlorothiazide Metoprolol Ta-Hydrochlorothiaz de	Generic Name	Brand Name
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	telmisartan/hydrochlorothiazide	Micardis HCT
hydralazine hcl/hydrochlorothiazide Hydra-Zide	olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
	hydralazine hcl/hydrochlorothiazide	Hydra-Zide



Generic Name	Brand Name
captopril/hydrochlorothiazide	Capozide
bisoprolol fumarate/hydrochlorothiazide	Ziac
quinapril hcl/hydrochlorothiazide	Quinaretic
hydrochlorothiazide	Microzide
metolazone	Zaroxolyn
methyclothiazide	Enduron
nadolol/bendroflumethiazide	Corzide
chlorthalidone	Thalitone
olmesartan medoxomil/amlodipine besylate/hydrochloro	thiaz Tribenzor
chlorothiazide sodium	Diuril IV
metoprolol succinate/hydrochlorothiazide	Metoprolol Su-Hydrochlorothiaz
Re	nin Inhibitor
aliskiren hemifumarate	Tekturna
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
aliskiren/valsartan	Valturna
aliskiren hemifumarate/amlodipine besylate	Tekamlo
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
Central Alph	na-2 Receptor Agonist
clonidine hcl	Clonidine Hcl
clonidine hcl/chlorthalidone	Clorpres
methyldopa/hydrochlorothiazide	Methyldopa-Hydrochlorothiazide
clonidine	Clonidine
clonidine hcl	Catapres
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine hcl	Nexiclon XR
Lipid-I	Lowering Agent
pitavastatin calcium	Livalo
pravastatin sodium	Pravachol
simvastatin	Zocor
lovastatin	Mevacor
colestipol hcl	Colestid
colestipol hcl	Colestid Flavored
alirocumab	Praluent Pen
alirocumab	Praluent Syringe
	Flauent Synnge
	Caduet
amlodipine besylate/atorvastatin calcium	
amlodipine besylate/atorvastatin calcium atorvastatin calcium	Caduet
amlodipine besylate/atorvastatin calcium atorvastatin calcium gemfibrozil	Caduet Lipitor
amlodipine besylate/atorvastatin calcium atorvastatin calcium gemfibrozil niacin/lovastatin	Caduet Lipitor Lopid
amlodipine besylate/atorvastatin calcium atorvastatin calcium gemfibrozil niacin/lovastatin niacin	Caduet Lipitor Lopid Advicor
amlodipine besylate/atorvastatin calcium atorvastatin calcium gemfibrozil niacin/lovastatin niacin fenofibric acid (choline) fenofibrate nanocrystallized	Caduet Lipitor Lopid Advicor Niaspan Extended-Release
amlodipine besylate/atorvastatin calcium atorvastatin calcium gemfibrozil niacin/lovastatin niacin fenofibric acid (choline)	Caduet Lipitor Lopid Advicor Niaspan Extended-Release Trilipix



Brand Name
Lescol XL
Lovastatin
Gemfibrozil
Pravastatin
Fenofibrate Nanocrystallized
Atorvastatin
Simvastatin
Niacin
Fluvastatin
Rosuvastatin
Fenofibrate Micronized
Ezetimibe-Simvastatin
Fenofibric Acid (Choline)
Fenofibrate
Colestipol
Cholestyramine Light
Cholestyramine (With Sugar)
Prevalite
Niacor
Crestor
Amlodipine-Atorvastatin
Ezetimibe
Vytorin 10-40
Vytorin 10-20
Vytorin 10-10
Fibricor
Zetia
Welchol
Vytorin 10-80
Antara
Flolipid
Questran
Questran Light
Fenoglide
Vascepa
Fenofibric Acid
Altoprev
Lofibra
Triglide
Repatha Syringe
Repatha Sureclick
Repatha Pushtronex
Lofibra
Kynamro
Liptruzet



Generic Name	Brand Name
fenofibrate	Lipofen
lomitapide mesylate	Juxtapid



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Comparison 1		Comparison 1 Comparison 2	
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group
Monitoring Period Start	8/2	1/2009	8/1	/2009
Monitoring Period End	9/3	0/2015	9/30)/2015
Exposure	Saxagliptin	Sitagliptin	Saxagliptin	Pioglitazone
Incidence with Respect to	Saxagliptin, sitagliptin	Saxagliptin, sitagliptin	Saxagliptin, pioglitazone	Saxagliptin, pioglitazone
Washout (days)	365	365	365	365
	Death,	Death,	Death,	Death,
Fundation Finise de Trumpation	Query end date,	Query end date,	Query end date,	Query end date,
Exposure Episode Truncation	End of exposure use,	End of exposure use,	End of exposure use,	End of exposure use,
Criteria	Occurrence of first AMI,	Occurrence of first AMI,	Occurrence of first AMI,	Occurrence of first AMI,
	Use of sitagliptin	Use of sitagliptin	Use of sitagliptin	Use of sitagliptin
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episod during the query period (01)
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply
Exposure Extension Period	12 days	12 days	12 days	12 days
Minimum Episode Duration	1 day	1 day	1 day	1 day
Minimum Days Supplied	1 day	1 day	1 day	1 day



	Event/Outcome	AMI	AMI	AMI	AMI
u	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
	Event Incidence with Respect to	AMI	AMI	AMI	AMI
	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
	Event Washout (days)	60	60	60	60
	Blackout Period	0 days	0 days	0 days	0 days
	Conditions		Diabetes (diagnosis or medication, not	Diabetes (diagnosis or medication, not	
		not including short-acting insulins)	including short-acting insulins)	including short-acting insulins)	including short-acting insulins)
	Include or Exclude	Inclusion	Inclusion	Inclusion	Inclusion
	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Г	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
г	Constitutions				
1	Conditions			Congestive heart failure	Congestive heart failure
	Include or Exclude			Exclusion	Exclusion
	Care Setting/Diagnosis Position			Any	Any
	Lookback Period			(-365, -1)	(-365, -1)
	Number of Code Occurrences			1 instance	1 instance



(-365, -1)

for Baseline

or

(0, 0)

for Concurrent

unless otherwise stated

(-365, -1)

(-365, -1)

IP, Inpatient stay (IS), AV, Other ambulatory visit (OA), Emergency

department (ED)

(-365, -1)

Same Day Dispensing	Sum	Sum	Sum	Sum
(Days Supplied)				
Same Day Dispensing	Sum	Sum	Sum	Sum
(Amount Supplied)				
Range of Allowable	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)
Days Supplied	Max 120 Days (Inclusive)	Wax 120 Days (Inclusive)	Wax 120 Days (Inclusive)	Wax 120 Days (Inclusive)
Range of Allowable	N/A	NI/A	N/A	NI / A
Amount Supplied	N/A	N/A	N/A	N/A
Overlap Percentage Processing	Default	Default	Default	Default
Covariates	(See Cova	riates table)	(See Cova	riates table)
	inpatient (IP*), outpatient (AV* only)			utpatient (AV* only)
Care Setting/Diagnosis Position		hHF must have Diagnosis Position of		d hHF must have Diagnosis Position of
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window (days)

Window

Window

**Covariate Evaluation Window** 

Comorbidity Score Evaluation

Medical Utilization Evaluation

Medical Utilization Care setting

Drug Utilization Evaluation

(-365, -1)

for Baseline

or

(0, 0)

for Concurrent

unless otherwise stated

(-365, -1)

(-365, -1)

IP, IS, AV, OA, ED

(-365, -1)



Analysis type Propensity score analysis		Propensity score analysis
Perform HDPS Analysis	No	No
Matching Ratio	1:1	1:1
Matching Caliper Settings	0.01	0.01
	Prior cardiovascular disease (Yes, No)	Prior cardiovascular disease (Yes, No)
Subgroup Analyses	Age groups (00-64, 65+ years)	Age groups (00-64, 65+ years)
	Sex (Male, Female)	Sex (Male, Female)
Population used for rematching within subgroups	Total population	Total population



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Comparison 3		Comp	arison 4
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group
Monitoring Period Start	nitoring Period Start 8/1/2009		8/1	/2009
Monitoring Period End	Monitoring Period End 9/30/2015		9/30	)/2015
Exposure	Saxagliptin	Long-acting insulins	Saxagliptin	Second-generation sulfonylureas
Incidence with Respect to	Saxagliptin, long-acting insulins	Saxagliptin, long-acting insulins	Saxagliptin, second-generation sulfonylureas	Saxagliptin, second-generation sulfonylureas
Washout (days)	365 days	365 days	365 days	365 days
Exposure Episode Truncation Criteria	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of long-acting insulins	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of saxagliptin	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of second-generation sulfonylureas	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of saxagliptin
Cohort DefinitionOnly the first valid treatment episode during the query period (01)Only the first valid treatment episode during the query period (01)		Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply
Exposure Extension Period	12 days	12 days	12 days	12 days
Minimum Episode Duration	1 day	1 day	1 day	1 day
Minimum Days Supplied	1 day	1 day	1 day	1 day

Drug/Exposure Definition



	Event/Outcome	AMI	AMI	AMI	AMI
ion	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
Definit	Event Incidence with Respect to	AMI	AMI	АМІ	AMI
Outcome Definition	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
-	Event Washout (days)	60 days	60 days	60 days	60 days
L	Blackout Period	0 days	0 days	0 days	0 days
sion	Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)
xclu: ia	Include or Exclude	Inclusion	Inclusion	Inclusion	Inclusion
Inclusion/Exclusion Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
Juli	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
- L	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
uo	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
a	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
Inclusion/Exclusion Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
clusi	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
Ĕ	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
nclusion/Exclusion Criteria	Conditions	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)		
ion/i	Include or Exclude	Exclusion	Exclusion		
Inclusi	Care Setting/Diagnosis Position	Any	Any		
	Lookback Period	(-365, -1)	(-365, -1)		
	Number of Code Occurrences	1 instance	1 instance		
	P			P-	



Same Day Dispensing (Days Supplied)	Sum	Sum	Sum	Sum
Same Day Dispensing (Amount Supplied)	Sum	Sum	Sum	Sum
Range of Allowable Days Supplied	Max 120 Days (inclusive)			
Range of Allowable Amount Supplied	N/A	N/A	N/A	N/A
Overlap Percentage Processing	Default	Default	Default	Default

Covariates	(See Covariates table)	(See Covariates table)
Care Setting/Diagnosis Position	inpatient (IP*), outpatient (AV* only) (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position of Primary)	inpatient (IP*), outpatient (AV* only) (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position Primary)
Covariate Evaluation Window(-365, -1)(-365, -1)(days)for Baselinefor Baseline(days)(0, 0)(0, 0)for Concurrentfor Concurrentunless otherwise statedunless otherwise stated	for Baseline or (0, 0) for Concurrent	
Comorbidity Score Evaluation window (days)	(-365, -1)	(-365, -1)
Medical Utilization Evaluation Window	(-365, -1)	(-365, -1)
Medical Utilization Care setting IP, Inpatient stay (IS), AV, Other ambulatory visit (OA), Emergency department (ED)		IP, IS, AV, OA, ED
Drug Utilization Evaluation (-365, -1) Window		(-365, -1)



Analysis type	Propensity score analysis	Propensity score analysis
Perform HDPS Analysis	No	No
Matching Ratio	1:1	1:1
Matching Caliper Settings	0.01	0.01
	Prior cardiovascular disease	Prior cardiovascular disease
	(Yes, No)	(Yes, No)
	Age groups	Age groups
Subgroup Analyses	(00-64, 65+ years)	(00-64, 65+ years)
	Sex	Sex
	(Male, Female)	(Male, Female)
Population used for rematching within subgroups	Total population	Total population



#### Appendix H.3. Specifications for Parameters in this Request, Comparison 5; Sitagliptin vs Pioglitazone, Comparison 6; Sitagliptin vs Long-acting insulins

This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Comparison 5		Comparison 6	
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group
Monitoring Period Start	10/1/2006		10/1/2006	
Monitoring Period End	9/30/2015		9/30/2015	
Exposure	Sitagliptin	Pioglitazone	Sitagliptin	Long-acting insulins
Incidence with Respect to	Sitagliptin, pioglitazone	Sitagliptin, pioglitazone	Sitagliptin, long-acting insulins	Sitagliptin, long-acting insulins
Washout (days)	365 days	365 days	365 days	365 days
Exposure Episode Truncation Criteria Cohort Definition	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of pioglitazone Only the first valid treatment episode during the query period (01)	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of sitagliptin Only the first valid treatment episode during the query period (01)	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of long-acting insulins Only the first valid treatment episode during the query period (01)	Death, Query end date, End of exposure use, Occurrence of first AMI, Use of sitagliptin Only the first valid treatment episo during the query period (01)
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply
Exposure Extension Period	12 days	12 days	12 days	12 days
Minimum Episode Duration	1 day	1 day	1 day	1 day
Minimum Days Supplied	1 day	1 day	1 day	1 day

Drug/Exposure Definition



Appendix H.3. Specifications for Parameters in this Request, Comparison 5; Sitagliptin vs Pioglitazone, Comparison 6; Sitagliptin vs Long-acting insulins

Criteria Outcome Definition	Event/Outcome	AMI	AMI	AMI	AMI
	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
	Event Incidence with Respect to	AMI	AMI	AMI	AMI
	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
	Event Washout (days)	60 days	60 days	60 days	60 days
	Blackout Period	0 days	0 days	0 days	0 days
	Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, no including short-acting insulins)
	Include or Exclude	Inclusion	Inclusion	Inclusion	Inclusion
	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
L	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Г	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
Criteria	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Inclusion/ Exclusion Criteria	Conditions	Congestive heart failure	Congestive heart failure	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)
n/E	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
clusio	Care Setting/Diagnosis Position	Any	Any	Any	Any
Inc	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance


(-365, -1)

Same Day Dispensing (Days Supplied)	Sum	Sum	Sum	Sum
Same Day Dispensing (Amount Supplied)	Sum	Sum	Sum	Sum
Range of Allowable Days Supplied	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)
Range of Allowable Amount Supplied	N/A	N/A	N/A	N/A
Overlap Percentage Processing	Default	Default	Default	Default
Covariates	(See Covariates table)		(See Covariates table)	
Care Setting/Diagnosis Position	(Stroke (narrow), AMI (narrow), and	Itpatient (AV* only) I hHF must have Diagnosis Position of nary)	inpatient (IP*), outpatient (AV* only) (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position of Primary) (-365, -1) for Baseline or (0, 0) for Concurrent unless otherwise stated	
Covariate Evaluation Window (days)	for B (C for Con	5, -1) aseline or ), 0) ncurrent erwise stated		
Comorbidity Score Evaluation window (days)	(-365, -1)		(-365, -1)	
Medical Utilization Evaluation Window	(-36	5, -1)	(-36	5, -1)
Medical Utilization Care setting		ambulatory visit (OA), Emergency nent (ED)	IP, IS, A	V, OA, ED
Drug Litilization Evolution				

Drug Utilization Evaluation

Window

(-365, -1)



Analysis type	Propensity score analysis	Propensity score analysis	
Perform HDPS Analysis	No	No	
Matching Ratio	1:1	1:1	
Matching Caliper Settings	0.01 0.01	0.01	
Prio Subgroup Analyses	Prior cardiovascular disease (Yes, No)	Prior cardiovascular disease (Yes, No)	
	Age groups (00-64, 65+ years)	Age groups (00-64, 65+ years)	
	Sex (Male, Female)	Sex (Male, Female)	
Population used for rematching within subgroups	Total population	Total population	



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

**Coverage Requirement:** Medical and Drug Coverage **Pre-exposure enrollment (days):** 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Compa	Comparison 7		
	Exposure of Interest Group	Reference Group		
Monitoring Period Start	10/1	/2006		
Monitoring Period End	9/30	/2015		
Exposure	Sitagliptin	Second-generation sulfonylureas		
Incidence with Respect to	Sitagliptin, second-generation sulfonylureas	Sitagliptin, second-generation sulfonylureas		
Washout (days)	365	365		
	Death,	Death,		
	Query end date,	Query end date,		
Exposure Episode Truncation Criteria	End of exposure use,	End of exposure use,		
	Occurrence of first AMI,	Occurrence of first AMI,		
	Use of second-generation sulfonylureas	Use of sitagliptin		
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01		
Exposure Episode Gap	33% previous days' supply	33% previous days' supply		
Exposure Extension Period	12 days	12 days		
Minimum Episode Duration	1 day	1 day		
Minimum Days Supplied	1 day	1 day		

Drug/Exposure Definition



	Event/Outcome	AMI	AMI
	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP
	Event Incidence with Respect to	AMI	AMI
	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP
	Event Washout (days)	60	60
Ĺ	Blackout Period	0 days	0 days
	Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insuling
	Include or Exclude	Inclusion	Inclusion
	Care Setting/Diagnosis Position	Any	Any
	Lookback Period	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance
	Conditions	Gestational diabetes	Gestational diabetes
2	Include or Exclude	Exclusion	Exclusion
	Care Setting/Diagnosis Position	Any	Any
	Lookback Period	(-365, 0)	(-365, 0)
	Number of Code Occurrences	1 instance	1 instance
, <b>—</b>	Conditions		
	Include or Exclude		
5	Care Setting/Diagnosis Position		
	Lookback Period		
	Number of Code Occurrences		



Same Day Dispensing (Days Supplied)	Sum	Sum
Same Day Dispensing (Amount Supplied)	Sum	Sum
Range of Allowable Days Supplied	Max 120 Days (inclusive)	Max 120 Days (inclusive)
Range of Allowable Amount Supplied	N/A	N/A
Overlap Percentage Processing	Default	Default
Care Setting/Diagnosis Position	Care Setting/Diagnosis Position	
Covariates (See Covariates table)   Care Setting/Diagnosis Position inpatient (IP*), outpatient (AV* only)   (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position of (-365, -1)		tpatient (AV* only) must have Diagnosis Position of Primary)
Covariate Evaluation Window (days)	(O for Cor	aseline or , 0) ncurrent rwise stated
Comorbidity Score Evaluation window (days)	(-36	5, -1)
Medical Utilization Evaluation Window	(-36	5, -1)
Medical Utilization Care setting	IP, Inpatient stay (IS), AV, Other ambulate	ory visit (OA), Emergency department (ED)
Drug Utilization Evaluation Window	(-36	5, -1)



Analysis type	Propensity score analysis	
Perform HDPS Analysis	No	
Matching Ratio	1:1	
Matching Caliper Settings	0.01	
	Prior cardiovascular disease	
	(Yes, No)	
Subgroup Analyses	Age groups (00-64, 65+ years)	
	Sex	
	(Male, Female)	
Population used for rematching within subgroups	Total population	



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Com	parison 8	Compa	arison 9
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group
Monitoring Period Start	8/	1/2009	8/1/	2009
Monitoring Period End	9/3	30/2015	9/30,	/2015
Exposure	Saxagliptin	Sitagliptin	Saxagliptin	Pioglitazone
Incidence with Respect to	Saxagliptin, sitagliptin	Saxagliptin, sitagliptin	Saxagliptin, pioglitazone	Saxagliptin, pioglitazone
Washout (days)	365 days	365 days	365 days	365 days
	Death,	Death,	Death,	Death,
Fundation Failed de Taumantion	Query end date,	Query end date,	Query end date,	Query end date,
Exposure Episode Truncation	End of exposure use,	End of exposure use,	End of exposure use,	End of exposure use,
Criteria	Occurrence of first hHF,	Occurrence of first hHF,	Occurrence of first hHF,	Occurrence of first hHF,
	Use of sitagliptin	Use of saxagliptin	Use of Pioglitazone	Use of Saxagliptin
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episod during the query period (01)
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply
Exposure Extension Period	12 days	12 days	12 days	12 days
Minimum Episode Duration	1 day	1 day	1 day	1 day
Minimum Days Supplied	1 day	1 day	1 day	1 day

Drug/Exposure Definition



Γ	Event/Outcome	hHF	hHF	hHF	hHF
tion	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
Definit	Event Incidence with Respect to	hHF or AMI	hHF or AMI	hHF or AMI	hHF or AMI
Outcome Definition	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
	Event Washout (days)	60 days	60 days	60 days	60 days
L	Blackout Period	0 days	0 days	0 days	0 days
riicusiony exclusion Criteria	Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)
ia i	Include or Exclude	Inclusion	Inclusion	Inclusion	Inclusion
Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
5	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
L	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Ţ	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
ciusio	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
riiciusiuri, Exclusiuri Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
Ū	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
: Г	Conditions	F		Congestive heart failure	Congestive heart failure
	Include or Exclude			Exclusion	Exclusion
eria					
on/ Exc Criteria	Care Setting/Diagnosis Position			Any	Any
inclusion/ Exclusion Criteria	Lookback Period			(-365, -1)	(-365, -1)
Ĭ	Number of Code Occurrences			1 instance	1 instance



	Same Day Dispensing (Days Supplied)	Sum	Sum	Sum	Sum	
	Same Day Dispensing (Amount Supplied)	Sum	Sum	Sum	Sum	
ľ	Range of Allowable Days Supplied	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)	
	Range of Allowable Amount Supplied	N/A	N/A	N/A	N/A	
	Overlap Percentage Processing	Default	Default	Default	Default	
 - [	Covariates	(See Covariates table)		(See Cova	iates table)	
	Care Setting/Diagnosis Position	inpatient (IP*), ou (Stroke (narrow), AMI (narrow), and	utpatient (AV* only) d hHF must have Diagnosis Position of mary)	(Stroke (narrow), AMI (narrow), and	tpatient (AV* only) hHF must have Diagnosis Position o nary)	
	Covariate Evaluation Window (days)	for B (0 for Cor	55, -1) aseline or 0, 0) ncurrent erwise stated	for Ba (0 for Cor	5, -1) aseline or , 0) ncurrent rwise stated	
	Comorbidity Score Evaluation window (days)	(-36	55, -1)	(-365, -1)		
ľ	Medical Utilization Evaluation Window	(-36	(-365, -1)		(-365, -1)	
	Medical Utilization Care setting	IP, Inpatient stay (IS), AV, Other ambulatory visit (OA), Emergency department (ED)		IP, IS, AV, OA, ED		
	Drug Utilization Evaluation Window	(-36	55, -1)	(-36	5, -1)	



Analysis type	Propensity score analysis	Propensity score analysis	
Perform HDPS Analysis	No	No	
Matching Ratio	1:1	1:1	
Matching Caliper Settings	0.01	0.01	
	Prior cardiovascular disease	Prior cardiovascular disease	
	(Yes, No)	(Yes, No)	
	Age groups	Age groups	
Subgroup Analyses	(00-64, 65+ years)	(00-64, 65+ years)	
	Sex	Sex	
	(Male, Female)	(Male, Female)	
Population used for rematching within subgroups	Total population	Total population	



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Comparison 10		Comparison 11	
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group
Monitoring Period Start	8/1/	/2009	8/1/2	2009
Monitoring Period End	9/30	/2015	9/30/	2015
Exposure	Saxagliptin	Long-acting insulins	Saxagliptin	Second-generation sulfonylureas
Incidence with Respect to	Saxagliptin, long-acting insulins	Saxagliptin, long-acting insulins	Saxagliptin, second-generation sulfonylureas	Saxagliptin, second-generation sulfonylureas
Washout (days)	365 days	365 days	365 days	365 days
Exposure Episode Truncation Criteria	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of long-acting insulins	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of saxagliptin	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of second-generation sulfonylureas	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of saxagliptin
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply
Exposure Extension Period	12 days	12 days	12 days	12 days
Minimum Episode Duration	1 day	1 day	1 day	1 day
Minimum Days Supplied	1 day	1 day	1 day	1 day

Drug/Exposure Definition



	Friend / Outboard	kur.	LUF.	hur	LUE
	Event/Outcome	hHF	hHF	hHF	hHF
ion	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
Definit	Event Incidence with Respect to	hHF or AMI	hHF or AMI	hHF or AMI	hHF or AMI
Outcome Definition	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
0	Event Washout (days)	60 days	60 days	60 days	60 days
L	Blackout Period	0 days	0 days	0 days	0 days
	Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins)
ria	Include or Exclude	Inclusion	Inclusion	Inclusion	Inclusion
Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Γ	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Inclusion/ Exclusion Criteria	Conditions	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)		
n/E	Include or Exclude	Exclusion	Exclusion		
clusic	Care Setting/Diagnosis Position	Any	Any		
Ē	Lookback Period	(-365, -1)	(-365, -1)		
	Number of Code Occurrences	1 instance	1 instance		



Same Day Dispensing (Days Supplied)	Sum	Sum	Sum	Sum
Same Day Dispensing (Amount Supplied)	Sum	Sum	Sum	Sum
Range of Allowable Days Supplied	Max 120 Days (inclusive)			
Range of Allowable Amount Supplied	N/A	N/A	N/A	N/A
Overlap Percentage Processing	Default	Default	Default	Default

Covariates	(See Covariates table)	(See Covariates table)
Care Setting/Diagnosis Position	inpatient (IP*), outpatient (AV* only) (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position of Primary)	inpatient (IP*), outpatient (AV* only) (Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position o Primary)
Covariate Evaluation Window (days)	(-365, -1) for Baseline or (0, 0) for Concurrent unless otherwise stated	(-365, -1) for Baseline or (0, 0) for Concurrent unless otherwise stated
Comorbidity Score Evaluation window (days)	(-365, -1)	(-365, -1)
Medical Utilization Evaluation Window	(-365, -1)	(-365, -1)
Medical Utilization Care setting	IP, Inpatient stay (IS), AV, Other ambulatory visit (OA), Emergency department (ED)	IP, IS, AV, OA, ED
Drug Utilization Evaluation Window	(-365, -1)	(-365, -1)



Analysis type	Propensity score analysis	Propensity score analysis		
Perform HDPS Analysis	No	No		
Matching Ratio	1:1	1:1		
Matching Caliper Settings	0.01	0.01		
	Prior cardiovascular disease (Yes, No)	Prior cardiovascular disease (Yes, No)		
Subgroup Analyses	Age groups (00-64, 65+ years)	Age groups (00-64, 65+ years)		
	Sex (Male, Female)	Sex (Male, Female)		
Population used for rematching within subgroups	Total population	Total population		



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Comparison 12		Comparison 13		
	Exposure of Interest Group	Reference Group	Exposure of Interest Group	Reference Group	
Monitoring Period Start	10/1	/2006	10/1,	/2006	
Monitoring Period End	9/30	/2015	9/30,	/2015	
Exposure	Sitagliptin	Pioglitazone	Sitagliptin	Long-acting insulins	
Incidence with Respect to	Sitagliptin, pioglitazone	Sitagliptin, pioglitazone	Sitagliptin, long-acting insulins	Sitagliptin, long-acting insulins	
Washout (days)	365 days	365 days	365 days	365 days	
Exposure Episode Truncation Criteria	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of pioglitazone	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of sitagliptin	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of long-acting insulins	Death, Query end date, End of exposure use, Occurrence of first hHF, Use of sitagliptin	
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01)	de Only the first valid treatment episode Only the first valid treatment during the query period (01) during the query period		
Exposure Episode Gap	33% previous days' supply	33% previous days' supply	33% previous days' supply	33% previous days' supply	
Exposure Extension Period	12 days	12 days	12 days	12 days	
Minimum Episode Duration	1 day	1 day	1 day	1 day	
Minimum Days Supplied	1 day	1 day	1 day	1 day	

Drug/Exposure Definition



1					
Г	Event/Outcome	hHF	hHF	hHF	hHF
ion	Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP	IPP	IPP
Definit	Event Incidence with Respect to	hHF or AMI	hHF or AMI	hHF or AMI	hHF or AMI
Outcome Definition	Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP	IPP	IPP
0	Event Washout (days)	60 days	60 days	60 days	60 days
L	Blackout Period	0 days	0 days	0 days	0 days
Inclusion/ Exclusion Criteria	Conditions Include or Exclude	including short-acting insulins)	Diabetes (diagnosis or medication, not including short-acting insulins) Inclusion	Diabetes (diagnosis or medication, not including short-acting insulins) Inclusion	Diabetes (diagnosis or medication, not including short-acting insulins) Inclusion
on/ Excl Criteria		Inclusion	Inclusion		
ion/ Crit	Care Setting/Diagnosis Position	Any	Any	Any	Any
Iclus	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
	Conditions	Gestational diabetes	Gestational diabetes	Gestational diabetes	Gestational diabetes
lusic	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
Inclusion/ Exclusion Criteria	Care Setting/Diagnosis Position	Any	Any	Any	Any
lusic	Lookback Period	(-365, 0)	(-365, 0)	(-365, 0)	(-365, 0)
Inc	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance
Inclusion/ Exclusion Criteria	Conditions	Congestive heart failure	Congestive heart failure	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)	Short-acting insulin use only (defined as: Only one diabetes medication class (see Covariates table) AND this class is a short-acting insulin dispensing)
in/E	Include or Exclude	Exclusion	Exclusion	Exclusion	Exclusion
ıclusio	Care Setting/Diagnosis Position	Any	Any	Any	Any
-	Lookback Period	(-365, -1)	(-365, -1)	(-365, -1)	(-365, -1)
	Number of Code Occurrences	1 instance	1 instance	1 instance	1 instance



Same Day Dispensing (Days Supplied)	Sum	Sum	Sum	Sum
Same Day Dispensing (Amount Supplied)	Sum	Sum	Sum	Sum
Range of Allowable Days Supplied	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)	Max 120 Days (inclusive)
Range of Allowable Amount Supplied	N/A	N/A	N/A	N/A
Overlap Percentage Processing	Default	Default	Default	Default
Covariates	(See Covar	iates table)	(See Cova	riates table)
Care Setting/Diagnosis Position	inpatient (IP*), ou (Stroke (narrow), AMI (narrow), and	tpatient (AV* only) hHF must have Diagnosis Position of nary)	inpatient (IP*), outpatient (AV* only)	
Covariate Evaluation Window (days)	for Ba c (0, for Con	5, -1) aseline or , 0) ncurrent rwise stated	(-365, -1) for Baseline or (0, 0) for Concurrent unless otherwise stated	
Comorbidity Score Evaluation window (days)	(-365, -1)		(-365, -1)	
Medical Utilization Evaluation Window	(-365, -1)		(-365, -1)	
Medical Utilization Care setting	IP, Inpatient stay (IS), AV, Other ambulatory visit (OA), Emergency department (ED)		t IP, IS, AV, OA, ED	
Drug Utilization Evaluation Window	(-36	5, -1)	(-365, -1)	



Analysis type	Propensity score analysis	Propensity score analysis		
Perform HDPS Analysis	No	No		
Matching Ratio	1:1	1:1		
Matching Caliper Settings	0.01	0.01		
	Prior cardiovascular disease (Yes, No)	Prior cardiovascular disease (Yes, No)		
Subgroup Analyses	Age groups (00-64, 65+ years)	Age groups (00-64, 65+ years)		
	Sex (Male, Female)	Sex (Male, Female)		
Population used for rematching within subgroups	Total population	Total population		



This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, with Propensity Score Matching (PSM) Analysis, version 7.3.4 to recreate a protocol-based assessment (PBA) of investigation on acute myocardial infarction (AMI) and hospitalized heart failure (hHF) following saxagliptin or sitagliptin use in comparison to long-acting insulin, pioglitazone, and second-generation sulfonylureas using updated data and CIDA features.

Query Period: See specifications for monitoring periods for each comparison

Coverage Requirement: Medical and Drug Coverage

Pre-exposure enrollment (days): 12 months (365 days)

Enrollment Gap: 45 days

Sex: Female or Male only

Age Groups: 18-29, 30-44, 45-54, 55-64, 65-74, 75-84, 85+ years

18-64, 65+ years (PS matching only)

Patient-level Return: No

Envelope Macro Use: No

Freeze Data: Yes

	Сотра	rison 14		
	Exposure of Interest Group	Reference Group		
Monitoring Period Start	10/1/2006			
Monitoring Period End	9/30/2015			
Exposure	Sitagliptin	Second-generation sulfonylureas		
Incidence with Respect to	Sitagliptin, second-generation sulfonylureas	Sitagliptin, second-generation sulfonylureas		
Washout (days)	365	365		
	Death,	Death,		
	Query end date,	Query end date,		
Exposure Episode Truncation Criteria	End of exposure use,	End of exposure use,		
	Occurrence of first hHF,	Occurrence of first hHF,		
	Use of second-generation sulfonylureas	Use of sitagliptin		
Cohort Definition	Only the first valid treatment episode during the query period (01)	Only the first valid treatment episode during the query period (01		
Exposure Episode Gap	33% previous days' supply	33% previous days' supply		
Exposure Extension Period	12 days	12 days		
Minimum Episode Duration	1 day	1 day		
Minimum Days Supplied	1 day	1 day		



Event/Outcome	hHF	hHF
Care Setting/Diagnosis Position	Inpatient Primary (IPP)	IPP
Event Incidence with Respect to	hHF or AMI	hHF or AMI
Event Incidence Criteria Care Setting / Diagnosis Position	IPP	IPP
Event Washout (days)	60	60
Blackout Period	0 days	0 days
Conditions	Diabetes (diagnosis or medication, not including short-acting insulins)	Diabetes (diagnosis or medication, not including short-actin insulins)
Include or Exclude	Inclusion	Inclusion
Care Setting/Diagnosis Position	Any	Any
Lookback Period	(-365, -1)	(-365, -1)
Number of Code Occurrences	1 instance	1 instance
Conditions	Gestational diabetes	Gestational diabetes
Include or Exclude	Exclusion	Exclusion
Care Setting/Diagnosis Position	Any	Any
Lookback Period	(-365, 0)	(-365, 0)
Number of Code Occurrences	1 instance	1 instance
Conditions		
Include or Exclude		
Care Setting/Diagnosis Position		
Lookback Period		
Number of Code Occurrences		



Same Day Dispensing	Sum	Sum		
(Days Supplied)				
Same Day Dispensing (Amount Supplied)	Sum	Sum		
Range of Allowable				
Days Supplied	Max 120 Days (inclusive)	Max 120 Days (inclusive)		
Range of Allowable				
Amount Supplied	N/A	N/A		
Overlap Percentage Processing	Default	Default		
Covariates	(See Covariates table)			
	inpatient (IP*), outpatient (AV* only)			
Care Setting/Diagnosis Position	(Stroke (narrow), AMI (narrow), and hHF must have Diagnosis Position of Primary)			
	(-36	55, -1)		
	for Baseline			
	or			
Covariate Evaluation Window (days)	(0, 0)			
	for Cor	ncurrent		
	unless othe	erwise stated		
Comorbidity Score Evaluation window (days)	(-36	5, -1)		
Medical Utilization Evaluation Window	(-36	5, -1)		
Medical Utilization Care setting	IP, Inpatient stay (IS), AV, Other ambulate	ory visit (OA), Emergency department (ED)		
Drug Utilization Evaluation Window	(-36	5, -1)		



Analysis type	Propensity score analysis	
Perform HDPS Analysis	No	
Matching Ratio	1:1	
Matching Caliper Settings	0.01	
	Prior cardiovascular disease	
	(Yes, No)	
Subgroup Analyses	Age groups (00-64, 65+ years)	
	Sex (Male, Female)	
Population used for rematching within subgroups	Total population	



Group	Covariate	Code Type	Care Setting	Form	Time (days)	Analysis
Prior Cardiovascular Disease	Prior acute myocardial infarction (AMI) (broad)	Diagnosis (Dx), Procedure (Px)	Inpatient (IP*), Ambulatory visit (AV*)	Categorical	(-365, -61)	No PS model
Prior Cardiovascular Disease	Prior acute myocardial infarction (AMI) (narrow)	Dx, Px	Inpatient primary (IPP)	Categorical	(-365, -61)	PS model
Prior Cardiovascular Disease	All prior acute myocardial infarction (AMI) (broad)	Dx, Px	IP*, AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	Prior hospitalized heart failure (hHF)	Dx, Px	IPP	Categorical	(-365, -61)	hHF outcome only
Prior Cardiovascular Disease	Other ischemic heart disease	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Heart failure	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Other heart disease	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Stroke (broad)	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Stroke (narrow)	Dx, Px	IPP	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Peripheral arterial disease	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	All coronary revascularization procedures (see below)	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Coronary artery bypass graft	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	Percutaneous coronary intervention	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	All carotid revascularization procedures (see below)	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Carotid endarterectomy, stenting, angioplasty, or atherectomy	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	Carotid bypass	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	All lower extremity revascularization (see below)	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Prior Cardiovascular Disease	Lower extremity endarterectomy, stenting, angioplasty, or atherectomy	Dx, Px	IP*, AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	Lower extremity bypass	Dx, Px	IP*, AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	Lower extremity amputation	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Prior Cardiovascular Disease	All prior cardiovascular disease covariates	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	Subgroup definition
Comorbidities	Asthma	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Cancer (excluding non-melanoma skin cancer)	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Chronic kidney disease (excluding ESRD)	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Chronic obstructive pulmonary disease	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Dementia	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Depression	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	End stage renal disease (ESRD)	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model



Group	Covariate	Code Type	Care Setting	Form	Time (days)	Analysis
Comorbidities	Fracture	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	HIV/AIDS	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Hyperlipidemia or lipid disorder	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Hypertension	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Hypoglycemia	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Obesity (or weight gain)	Dx, Px	IP*, AV*	Categorical	(-365, -1)	PS model
Comorbidities	Osteoporosis	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Comorbidities	Peripheral neuropathy	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Comorbidities	Tobacco use	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	PS model
Comorbidities	All comorbidity covariates	Dx, Px	IP* <i>,</i> AV*	Categorical	(-365, -1)	No PS model
Anti-Diabetics	Alpha-glucosidase inhibitors	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Biguanides	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Other dipeptidyl peptidase 4 (DPP-4) inhibitors	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Glucagon-like peptide-1 (GLP-1) analogues	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Meglitinides	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Saxagliptin*	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Sitagliptin*	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Pioglitazone*	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	First-generation sulfonylureas	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Second-generation sulfonylureas*	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Long-acting insulins*	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Short-acting insulins	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Other thiazolidinediones	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Sodium-glucose cotransporter-2 (SGLT-2) inhibitors	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	Amylin analog-types	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics	All anti-diabetics	Rx	N/A	Categorical	(-365, -1)	No PS model
Anti-Hypertensive Agents	Angiotensin-converting enzyme (ACE) inhibitors	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Alpha blockers	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Angiotensin receptor blockers	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Beta blockers	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Calcium channel blockers	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Direct vasodilators	Rx	N/A	Categorical	(-365, -1)	PS model



Group	Covariate	Code Type	Care Setting	Form	Time (days)	Analysis
Anti-Hypertensive Agents	Loop diuretics	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Aldosterone receptor agonists (ARAs)	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Non-ARA potassium sparing diuretics	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Thiazide diuretics	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Renin inhibitors	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	Central alpha-2 receptor agonists (clonidine, all combinations)	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Hypertensive Agents	All anti-hypertensive agents	Rx	N/A	Categorical	(-365, -1)	No PS model
Lipid-Lowering Agents	Lipid-lowering agents	Rx	N/A	Categorical	(-365, -1)	PS model
Anti-Diabetics Concurrent	Alpha-glucosidase inhibitors	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Biguanides	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Other DPP-4 inhibitors	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	GLP-1 analogues	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Meglitinides	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Saxagliptin*	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Sitagliptin*	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Pioglitazone*	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	First-generation sulfonylureas	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Second-generation sulfonylureas*	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Long-acting insulins*	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Short-acting insulins	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Other thiazolidinediones	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	SGLT-2 inhibitors	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetics Concurrent	Amylin analog-types	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Diabetes Concurrent	All anti-diabetics	Rx	N/A	Categorical	(0, 0)	No PS model
Anti-Hypertensive Agents Concurrent	Angiotensin-converting enzyme inhibitors	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Alpha blockers	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Angiotensin receptor blockers	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Beta blockers	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Calcium channel blockers	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Direct vasodilators	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Loop diuretics	Rx	N/A	Categorical	(0, 0)	PS model
	Aldosterone receptor agonists (ARAs)	Rx	N/A	Categorical	(0, 0)	PS model



Group	Covariate	Code Type	Care Setting	Form	Time (days)	Analysis
Anti-Hypertensive Agents Concurrent	Non-ARA potassium sparing diuretics	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Thiazide diuretics	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Renin inhibitors	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	Central alpha-2 receptor agonists (clonidine, all combinations)	Rx	N/A	Categorical	(0, 0)	PS model
Anti-Hypertensive Agents Concurrent	All anti-hypertensive agents	Rx	N/A	Categorical	(0, 0)	No PS model
Lipid-Lowering Agents Concurrent	Lipid-lowering agents	Rx	N/A	Categorical	(0, 0)	PS model
Demographics	Age	N/A	N/A	Continuous	N/A	PS model
Demographics	Sex	N/A	N/A	Categorical	N/A	PS model
Demographics	Calendar year	N/A	N/A	Categorical	N/A	PS model
Demographics	Race/ethnicity	N/A	N/A	Categorical	N/A	PS model
Utilization	Non-acute institutional stay (IS visit) during prior year	N/A	N/A	Categorical	(-365, -1)	PS model
Utilization	Any hospitalization (IP visit) within prior 30 days	N/A	N/A	Categorical	(-30, -1)	PS model
Utilization	Any hospitalization (IP visit) 31-365 days	N/A	N/A	Categorical	(-365, -31)	PS model
Jtilization	Any ED visit within prior 30 days	N/A	N/A	Categorical	(-30, -1)	PS model
Jtilization	Any ED visit 31-365 days before	N/A	N/A	Categorical	(-365, -31)	PS model
Utilization	Number of outpatient (AV) visits in prior year	N/A	N/A	Continuous	(-365, -1)	PS model
Jtilization	Number of unique medications dispensed in prior year	N/A	N/A	Continuous	(-365, -1)	PS model

All covariates listed will appear in Table 1 output

The notes below applies to both baseline and concurrent covariates.

Red indicates these covariates were grouped into aggregate "other" group for respective group for propensity score (PS) model.

- Other anti-diabetics (Replication): Alpha glucosidase inhibitors, DPP-4, meglitinides, first-generation sulfonylureas, saxagliptin, other anti-diabetics (Canagliflozin, GLP-1 analogues, amylin analog-type). Note that saxagliptin is not included in this aggregate covariate for analyses where saxagliptin is the exposure of interest.

- Other anti-hypertensives: Central alpha-2 receptor agonists, alpha blockers, aldosterone receptor antagonists, potassium sparing diuretics, loop diuretics, direct vasodilators, renin inhibitors, reserpine and derivatives

Final anti-diabetic covariates to be used in "Replication" PS model : Biguanides, short-acting insulins, thiazolidinediones, exposure anti-diabetics*, other anti-diabetics (as defined in the row above) Final anti-hypertensive covariates to be used in both PS model: ACE-inhibitors, angiotensin receptor blockers, beta blockers, calcium channel blockers, thiazide diuretics, other anti-hypertensives (as defined in the row above) in the row above)

*Treatment drugs are only included in PS model if **not** part of treatment-comparator pair. For example, saxagliptin-insulin would have sitagliptin, pioglitazone, and sulfonylureas, but not long-acting insulins, within PS model.