SUPPLEMENTAL MATERIAL

Spending on Cardiovascular Disease and Cardiovascular Risk Factors in the United States: 1996
– 2016

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SUPPLEMENTAL METHODS

Section 1: Data sources

The description of data sources below was drawn from prior studies.⁸⁻¹⁰

We used two data sources for this study. Health spending and volume data came from the Disease Expenditure (DEX) Project, produced by the Institute for Health Metrics and Evaluation. Epidemiologic data came from the Global Burden of Disease (GBD) 2017 study. We provide a brief overview of the methods used to produce the estimates and describe the alterations we made in detail.

Section 1A: Disease Expenditure data

The objective of the DEX project is to measure spending on healthcare in the United States, using granular, politically and clinically useful categories. In doing this, DEX provides estimates on US healthcare spending from 1996 through 2016, disaggregated into age-, sex-, type-of-care-, payer-, and year-specific categories, which when aggregated match the official US government estimates of spending, as reported in the National Health Expenditure Accounts (NHEA)⁴². These spending estimates are produced to reflect actual spending on health, also known as expenditure or payments, rather than charges made by medical providers. Spending estimates were adjusted for inflation using the economywide consumer price index (CPI) from the Bureau of Economic Analysis and were reported as 2016 dollars⁴³. In addition to health spending, DEX also provides estimates on the volume of health goods or services received. Volume of health-related goods and services was measured as the number of visits, bed-days, or prescriptions filled.

The data used in generating DEX estimates were split into categories within four distinct frameworks: demography, epidemiology, type of good or service provided, and responsible payer.

- 1. **Demography:** Health spending and volume of goods and services were estimated separately for **each sex** across **19 age groups** (age 0, 1-4, 5-9, 10-14, ..., 80-84, and 85+ years).
- 2. **Epidemiology:** Health spending and volume of goods and services were estimated for 154 causes. The cause list for this project was based on the 140 causes from the GBD 2017 study¹⁵ An additional 17 causes were added to the DEX project to account for four risk factors, ten health conditions associated with spending but not burden, and three impairments that do not represent the underlying "causes" of health burden but rather are consequences of underlying causes. A description and full list of the 154 tracked "causes" and how they map to the International Classification of Disease 9th revision (ICD9) for years 1996 through 2015 and then to ICD 10th revision (ICD10) for year 2016 have been published elsewhere⁷.
- 3. **Types of goods or services:** Healthcare spending and volume of goods and services were estimated for **seven types of goods and services**: ambulatory care, inpatient care, emergency department care, long-term care, dental care, prescribed retail pharmaceuticals, general administration, and other. Definitions for these types of goods and services were designed to reflect the National Health Accounts (NHA) framework, which provides a taxonomy of categories (sometimes referred to as "functions") that permit for international comparisons for how health care dollars are spent⁴⁴. The US subscribes to the NHEA framework⁴⁵, which has a slightly different taxonomy from the NHA. However, we disaggregated type of goods or services using the NHA framework because its taxonomy more clearly matches the types of goods of services we tracked.

- Ambulatory care: Ambulatory care included preventive, curative, and rehabilitative
 medical and psychiatric services, procedures, and medications provided in ambulatory
 care settings including physician's offices, freestanding clinics and hospital outpatient
 departments. Emergency room visits and dental visits are excluded from ambulatory
 care. For ambulatory care, volume was measured as the number of visits.
- Inpatient care: Inpatient care included all spending in an inpatient hospital facility,
 whether preventive, curative, or rehabilitative, and included all medical goods, whether
 pharmaceuticals, diagnostics or devices, consumed by inpatients, regardless of their
 length of stay. For inpatient care, volume was measured as the number of days spent
 inpatient.
- Emergency department care: Emergency department care included curative and rehabilitative medical and psychiatric care provided at hospital-based emergency departments. We leveraged the Nationwide Emergency Department Sample (NEDS), the largest all-payer emergency department database that allows for national estimates of hospital-based ED visits, to capture both volume measured as the total number of ED encounters and spending. Emergency department care is not a distinct category in the NHEA. As a result, we leveraged the Medical Expenditure Panel Survey (MEPS) to parse out spending dollars from the NHEA categories of "physician" and "hospital" fractions to attribute to our emergency department care category. See Section 5 for more detail.
- Nursing facility care: Nursing facility care included nursing care provided in nursing homes or other residential institutions. Home-based care and palliative or hospice care provided in inpatient settings were excluded. For nursing facility care, volume was measured as the number of days spent in a nursing facility.
- Dental care: Dental care included preventative and curative health care at a dental facility. For dental care, volume was measured as the number of visits to a dental facility.
- Prescribed retail pharmaceuticals: Prescribed retail pharmaceuticals included all prescription medicines purchased in a retail pharmacy setting. This category excluded any medications consumed in inpatient, ambulatory, long-term and emergency settings during a visit. It also excluded over-the-counter (non-prescribed) medications and therapeutic devices. For prescribed retail pharmaceuticals, volume was measured as the number of prescriptions filled. The cause of illness is captured by the diagnoses reported by an individual who held the prescription, not by an Anatomical Therapeutic Chemical (ATC) classification system or medication code. An adjustment was made to this category to account for specialty drugs, which may be used infrequently but are expensive, resulting in larger estimates of spending than if data were only collected from MEPS.
- General administration and net cost of insurance: Administrative costs (such as health system governance costs and administrative costs borne by public and private insurance companies) were disaggregated by age, sex, year, and cause. There were no out-ofpayment costs associated with general administration. Given the nature of this category, volume was not measured.
- Other: Other types of goods and services includes all over-the-counter (non-prescribed)
 pharmaceuticals, other retail medical durables (such as eye glasses and hearing aids),
 and non-medical retail durables (such as bandages). This category was not
 disaggregated by age, sex, or cause. Volume was not measured for this category.

4. Payer: Payments were made by either public insurance, private insurance, or out-of-pocket. Public insurance includes payments made by the government through programs such as by Medicare and Medicaid. Private insurance included those handled by private insurance companies, such as those provided by employers, and includes spending on insurance premiums. Out-of-pocket payments were those paid by the patients themselves or their families. These three payer groups were mutually exclusive and collectively exhaustive. For five of the seven types of care (inpatient, outpatient, ambulatory, dental, and emergency), data used for splitting spending by payer category was from the MEPS data sets. For nursing facility care, data from the Medicare Current Beneficiaries Survey (MCBS) was used to split spending across the three payer categories

Supplemental Table I provides a list of the primary data sources used in DEX. Supplemental Table II provides a broad overview of the DEX methodology. This methodology includes statistical models to generate a complete set of estimates, combine data sources, and adjust the data for known biases, as well as scaling the population-weighted estimates derived from the microestimates to reflect the total health expenditure for each type of care and year as documented in the NHEA. The methods used have been thoroughly vetted elsewhere and details can be found in the initial sources⁸.

Section 1B: Global Burden of Disease data

The Global Burden of Disease study contains comprehensive estimates for disease burden for every country of the world. It contains information about mortality for 282 causes of death, morbidity for 354 diseases and injuries, and the morbidity and mortality attributed to over 84 risk factors. Estimates are made at global, national, and subnational levels and, while available at a more granular level than DEX estimates, can be aggregated into the same demographic and epidemiologic categories. Detailed methods for the GBD study¹⁷.

Section 1C: Focusing on cardiovascular disease and cardiovascular risk factors

In this study, we extracted DEX spending and volume data and GBD prevalence data on ten cardiovascular disease health conditions (ischemic heart disease, cerebrovascular disease, atrial fibrillation/flutter, endocarditis, peripheral arterial disease, aortic aneurysm, rheumatic heart disease, cardiomyopathy, hypertensive heart disease, and an "other heart disease" category that includes predominantly non-rheumatic vascular disease), two cardiovascular risk factors (hypertension and hyperlipidemia), and the impairment that is heart failure. While DEX provides separate spending estimates for hypertensive heart disease, cardiomyopathy, and heart failure — this decision was made to match the GBD schema, which separately estimates sequelae and causes of mortality and morbidity — we aggregated spending estimates for these three causes of spending and listed them under the title of "heart failure." We made this decision because the phrases "cardiomyopathy," "hypertensive heart disease," and "heart failure" are often used interchangeably in the clinical setting (ICD-9 codes in Supplemental Table III; asterisks indicate potential misattribution to heart failure in this study). GBD estimates the prevalence of sequelae separately from the prevalence of causes of morbidity and mortality, so this error is not present in the epidemiologic data. The ICD-9 and ICD-10 codes we used for these causes are listed in Supplemental Tables 4 and 5.

We also focus on adult cardiovascular spending only in this study, and in doing so we exclude estimates of cardiovascular spending on those younger than twenty years of age. We exclude the DEX estimates for general administration and net cost of insurance as well, as we are only interested in the dollars spent directly on the treatment of cardiovascular disease and cardiovascular risk factors.

Section 2: Decomposition Analysis

The description of the decomposition analysis below was drawn from prior studies. 10

We used the decomposition method described by Das Gupta and used by Dieleman et al. to decompose the contribution of each of the five factors to changes in health spending^{10,19}. This method is based on the calculation of standardized rates in order to eliminate the compositional effects of all other factors in different years. Our data structure enabled the use of this method, since the outcome variable (spending) is the product of the five factors of interest. We calculate standardized rates for each factor by considering all possible combinations of other factors across time. For example, if only considering two factors, utilization (U) and price (P), and two years, 1996 and 2016, the price-standardized rate in each year would be:

1996 Price standardized rate:
$$\frac{P_{2016} + P_{1996}}{2}U_{1996}$$

2016 Price standardized rate:
$$\frac{P_{2016} + P_{1996}}{2}U_{2016}$$

The difference between the 1996 price-standardized rate and the 2016 price-standardized rate is the effect of utilization, or the contribution of utilization to changes in the outcome between 1996 and 2016 (below equation).

Effect of Utilization =
$$\frac{P_{2016} + P_{1996}}{2}(U_{2016} - U_{1996})$$

The decomposition for our purposes was performed using the expanded 5-factor equation with calculations adjusted to ensure internal consistency, described elsewhere⁴⁶. The decomposition was completed for each of the condition, age and sex, and type of care stratified groups, and for every possible combination of years (an input into the equation which accounts for multiple populations, as described by Das Gupta)⁴⁶. The impact of each driver can be aggregated to assess the impact of the driver for any condition, age and sex group, or type of care of interest. To calculate uncertainty, we performed the decomposition analysis 1,000 times for each of the 1,000 draws of input data. An outlier detection was conducted in order to stabilize the final decomposition estimates. For each driver and type of care, we compute modified z-score, where:

Modified
$$z - score = \frac{X_{f,e,d} + median(X_{f,e})}{MAD(X_{f,e})} * 0.6745$$

where f is a specific function, e is a specific driver, and d is a draw. Using the threshold defined in Iglewics and Hoaglin (1993)⁴⁷, the maximum modified z-score of each draw was computed and was dropped if the absolute computed value within the draw exceeded 3.5. This resulted in 109 of the 1,000 draws being dropped. The point estimate reported is the mean of the remaining 891 draws, while the uncertainty interval is the 2.5th and 97.5th percentile of the full set of 1,000 draws. The results are largely robust to excluding these outliers. When collapsing across cardiovascular cause and type of care, the average difference between the point estimate when including the outliers and when excluding them was \$17.6 million USD, or 1.3% of the point estimate reported in the paper.

Spending on aortic aneurysms was excluded from the decomposition analysis, because GBD provides mortality estimates and not prevalence estimates for this cause. Nursing facility care was excluded from the decomposition analysis, because these estimates were not available at the time of analysis.

SUPPLEMENTAL TABLES

Supplemental Table I List of primary sources

Type of care Macro spending		Micro spending data	Micro volume data
	data and years	and years	and years
Ambulatory	NHEA (1996 –	MEPS (1996 – 2016;	NAMCS (1996 –
	2016)	SAMHSA (1998, 2002,	2015); MarketScan
		2004, 2005, 2009);	(2000, 2010 - 2015)
		MarketScan (2000,	
Inpatient	NHEA (1996 –	2010 – 2015) NIS (1996 – 2016);	NIS (1996 – 2016);
mpatient	2016)	MEPS (1996 – 2016),	MarketScan (2000,
	,	SAMHSA (1998, 2002,	2010 - 2015)
		2004, 2005, 2009);	
		MarketScan (2000,	
		2010 - 2015)	
Emergency Department	NHEA (1996 –	NEDS (2006 – 2013;	NEDS (2006 – 2013;
	2016)	2015-2016)	2015-2016)
		MEPS (1996 – 2016);	MarketScan (2000, 2010-2015)
Nursing care	NHEA (1996 –	Medicare claims data	Medicare claims data
rear sing care	2016)	(1999 – 2002, 2004,	(1999 – 2002, 2004,
	,	2006, 2008, 2010,	2006, 2008, 2010,
		2012, 2014, 2016);	2012, 2014, 2016);
		NNHS (1997, 1999,	NNHS (1997, 1999,
		2004); Medicaid	2004); Medicaid
		(2000-2005, 2008,	(2000-2005, 2008,
		2011, 2013); MarketScan (2000,	2011, 2013); MarketScan (2000,
		2010 - 2015); MCBS	2010 - 2015);
		(1999 - 2012)	2010 2013//
Dental	NHEA (1996 –	MEPS (1996 – 2016)	MEPS (1996 – 2016)
	2016)		
Prescribed retail	NHEA (1996 –	MEPS (1996 – 2016)	MEPS (1996 – 2016)
pharmaceuticals	2016)	MarketScan (2000,	
		2010 - 2015)	
Specialty drugs	NHEA (1996 –	IQVIA specialty drug	IQVIA specialty drug
	2016)	list (2010-2018)	list (2010-2018)

Supplemental Table II Summary of steps taken to get to final DEX estimates

Step		Types of care	Motivation	Effect
	Format data	Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To enable all data sources to go through same statistical machinery	All data were structured in the same manner, and variable names and variable formats were systematized across all data sources used
	Bootstrap	Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To obtain 1,000 bootstrap samples upon which all other steps could be run independently, in order to quantify uncertainty	1,000 samples were created for analysis based on surveyadjusted bootstrapping methods
Ambulatory (spending data only), emergency department (spending data only), prescribed retail pharmaceuticals		To estimate more detailed fourand five-digit ICD-9 and ICD-10 diagnoses from the three-digit diagnoses recorded in Medical Expenditure Panel Survey (MEPS)	Variation within each bootstrap draw and across draws for data from MEPS was increased	

Redistribution	Ambulatory, inpatient, emergency department, nursing care, prescribed retail pharmaceuticals	To attribute all spending and volumes to causes that represent the true underlying reason for a health care encounter	Spending and volume originally attributed to ICD-9 and ICD-10 codes that do not map to GBD causes were assigned to GBD causes based on redistribution packages developed by the IHME GBD research. This redistributions was designed to take into account age and sex. While each cause is impacted differently by the redistribution process, spending per cause, measured at the age, sex, type, and year level, goes up or stays the same, while spending attributed to "garbage codes" is removed
Mapping	Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To divide spending into 158 medically important and policyrelevant categories	Causes were aggregated from ICD-9 codes to 154 GBD causes, leading to more data for each cause-, year-, age-, sex-, typecombination
Injury adjustment	Ambulatory, inpatient, emergency department, nursing care, prescribed retail pharmaceuticals	To have all spending and volume due to injuries be defined by external cause of injury codes, rather than less actionable nature of injury codes	All spending attributed to injuries was defined by the external cause of injury

Comorbidity adjustment	Ambulatory, inpatient, emergency department, nursing care, prescribed retail pharmaceuticals	To redistribute resources toward the underlying cause of the health care spending, rather than merely the primary diagnosis	Spending was moved from some causes to others, based on whether, on average, the cause leads to excess spending (as comorbidity) or is a primary diagnosis that has spending increased by excess spending on comorbidities
Age-splitting	Nursing care	To have Medicare nursing care claims data be consistent with all other data sources, as Medicare aggregates younger ages to ensure patient privacy	Charges captured in Medicare claims were split up from larger age bins into the age bins used in the study
Inpatient and emergency department charges-to- payments adjustment	Inpatient, emergency department	To estimate total inpatient spending from the inpatient facility charges report in the National Inpatient Sample and the Nationwide Emergency Department Sample	Inpatient and emergency department spending estimates were made smaller than originally reported in National Inpatient Sample and Nationwide Emergency Sample, respectively, based on cause, year, payer-specific payment to charge ratios
Ambulatory physician visits to total visits Ambulatory		To estimate the total number of ambulatory visits from the National Ambulatory Medical Care Survey, which does not include non-physician visits.	Ambulatory visit estimates were made larger than originally reported in the National Ambulatory Medical Care Survey, based on cause, age, sex, and year physician physician visit to total ambulatory visit ratios

Emergency department hospitalization encounter adjustment	Emergency department	To disentangle the spending on emergency department care from the spending on inpatient care for patients who are admitted to the hospital through the emergency department	Emergency department spending estimates are larger than originally reported in the Medical Expenditure Panel Survey, and inpatient spending is less than originally reported in the National Inpatient Sample
Completing the series	Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To have estimates for years in which data do not exist, to obtain estimates for spending that are missed due to survey designs, and to have estimates that are appropriately consistent across age and time	Multiple data sources were combined to leverage strengths across data sources, such that every type-, age-, year-, cause-, and sex-combination was estimated and "smooth" series were produced
Nursing-care adjustment Nursing care		To estimate nationally representative spending and volume estimates for short- and long-term stays at nursing homes	Three data sources were leveraged together, two using linear regression, to create nationally representative spending and volume estimates for short-term and long-term nursing facility care

Prescribed retail pharmaceuticals	To address the undersampling of people who spend large amounts on specialty drugs for rare conditions in the Medical Expenditure Panel Survey	Specialty drug spending data were collected from pharmaceutical consulting firms to provide more accurate estimates of prescribed retail pharmaceutical spending. These new spending estimates are larger than originally reported in the Medical Expenditure Panel Survey
Ambulatory, inpatient	To address the undersampling of mental health and substance abuse specialty facilities and create mental health and substance abuse health care spending aggregates that are commensurate with official US government estimates	Spending and volume on mental illnesses were increased, relative to non-mental illness causes, for the ambulatory and inpatient types of care
Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To match spending estimates that reflect the official US government numbers, as no data source offers complete census of health care spending	Estimates for spending were increased or decreased depending on type of care
Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals	To divide spending into three payers: private insurance, public insurance, and out-of-pocket	Regression analysis of data from the Medical Expenditure Panel Survey to produce cause-, age-, and year-specific payer ratios used to produce payer-specific estimates
	Ambulatory, inpatient Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail care, dental, prescribed retail	Prescribed retail pharmaceuticals Ambulatory, inpatient Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals Ambulatory, inpatient, emergency department, nursing care, dental, prescribed retail pharmaceuticals To divide spending into three payers: private insurance, public insurance, and out-of-pocket.

Supplemental Table III DEX Causes Being Assigned to Heart Failure

DEX Cause	ICD-9 Code	ICD-9 Name
Cardiomyopathy	742	Coxsackie carditis*
Cardiomyopathy	7423	Coxsackie myocarditis*
Cardiomyopathy	422	Acute myocarditis
Cardiomyopathy	4220	Acute myocarditis in diseases classified elsewhere
Cardiomyopathy	4224	Other acute myocarditis
Cardiomyopathy	4225	Acute myocarditis in diseases classified elsewhere
Cardiomyopathy	4229	Other and unspecified acute myocarditis
Cardiomyopathy	42290	Acute myocarditis, unspecified
Cardiomyopathy	42291	Idiopathic myocarditis
Cardiomyopathy	42292	Septic myocarditis
Cardiomyopathy	42293	Toxic myocarditis
Cardiomyopathy	42299	Other acute myocarditis
Cardiomyopathy	425	Cardiomyopathy
Cardiomyopathy	4250	Endomyocardial fibrosis
Cardiomyopathy	4251	Hypertrophic cardiomyopathy
Cardiomyopathy	42511	Hypertrophic obstructive cardiomyopathy
Cardiomyopathy	42518	Other hypertrophic cardiomyopathy
Cardiomyopathy	4252	Obscure cardiomyopathy of Africa
Cardiomyopathy	4253	Endocardial fibroelastosis
Cardiomyopathy	4254	Other primary cardiomyopathies
Cardiomyopathy	4255	Alcoholic cardiomyopathy
Cardiomyopathy	4257	Nutritional and metabolic cardiomyopathy
Cardiomyopathy	4258	Cardiomyopathy in other diseases classified elsewhere
Cardiomyopathy	4259	Secondary cardiomyopathy, unspecified
Cardiomyopathy	4290	Myocarditis, unspecified*
Cardiomyopathy	4291	Myocardial degeneration*
Heart Failure	416	Chronic pulmonary heart disease
Heart Failure	4160	Primary pulmonary hypertension
Heart Failure	4162	Chronic pulmonary embolism
Heart Failure	4163	Chronic pulmonary heart disease unspecified
Heart Failure	4168	Other chronic pulmonary heart diseases
Heart Failure	4169	Chronic pulmonary heart disease unspecified
Heart Failure	428	Heart failure
Heart Failure	4280	Congestive heart failure, unspecified
Heart Failure	4281	Left heart failure
Heart Failure	4282	Systolic heart failure
Heart Failure	42820	Heart failure unspecified
Heart Failure	42821	Acute systolic heart failure
Heart Failure	42822	Chronic systolic heart failure
Heart Failure	42823	Acute on chronic systolic heart failure

Heart Failure	4283	Diastolic heart failure
Heart Failure	42830	Heart failure unspecified
Heart Failure	42831	Acute diastolic heart failure
Heart Failure	42832	Chronic diastolic heart failure
Heart Failure	42833	Acute on chronic diastolic heart failure
Heart Failure	4284	Combined systolic and diastolic heart failure
Heart Failure	42840	Heart failure unspecified
Heart Failure	42841	Acute combined systolic and diastolic heart failure
Heart Failure	42842	Chronic combined systolic and diastolic heart failure
Heart Failure	42843	Acute on chronic combined systolic and diastolic heart failure
Heart Failure	4286	Heart failure unspecified
Heart Failure	4287	Heart failure unspecified
Heart Failure	4288	Heart failure unspecified
Heart Failure	4289	Heart failure unspecified
Hypertensive Heart	1203	Treate failure anspectified
Disease	402	Hypertensive heart disease
Hypertensive Heart		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Disease	4020	Malignant hypertensive heart disease*
Hypertensive Heart		
Disease	40200	Hypertensive heart disease without heart failure*
Hypertensive Heart		
Disease	40201	Hypertensive heart disease with heart failure
Hypertensive Heart		
Disease	4021	Benign hypertensive heart disease*
Hypertensive Heart		
Disease	40210	Hypertensive heart disease without heart failure*
Hypertensive Heart		
Disease	40211	Hypertensive heart disease with heart failure
Hypertensive Heart	4000	Methodological Cellino
Disease	4023	With congestive heart failure
Hypertensive Heart	4027	Hyportonsiyo hoart disease with heart failure
Disease	4027	Hypertensive heart disease with heart failure
Hypertensive Heart Disease	4029	Unspecified hypertensive heart disease
Hypertensive Heart	4023	onspecified hypertensive fleart disease
Disease	40290	Hypertensive heart disease without heart failure*
Hypertensive Heart	10230	The state of the s
Disease	40291	Hypertensive heart disease with heart failure
d		

^{*} indicate potential misattribution to heart failure in this study

Supplemental Table IV Cardiovascular Diseases and Cardiovascular Risk Factors and Corresponding ICD-9 Codes

Cause Name	ICD9 Codes	ICD9 Names
Atrial Fibrillation/Flutter	4273	Atrial fibrillation and flutter
	42731	Atrial fibrillation
	42732	Atrial flutter
Aortic Aneurysms	441	Aortic aneurysm and dissection
	4410	Dissection of aorta
	44100	Aortic aneurysm and dissection unspecified site
	44101	Aortic aneurysm and dissection thoracic
	44102	Aortic aneurysm and dissection abdominal
	44103	Aortic aneurysm and dissection thoracoabdominal
	4411	Thoracic aneurysm, ruptured
	4412	Thoracic aneurysm without mention of rupture
	4413	Abdominal aneurysm, ruptured
	4414	Abdominal aneurysm without mention of rupture
	4415	Aortic aneurysm of unspecified site, ruptured
	4416	Thoracoabdominal aneurysm, ruptured
	4417	Thoracoabdominal aneurysm, without mention of rupture
	4419	Aortic aneurysm of unspecified site without mention of rupture
Endocarditis	7422	Coxsackie endocarditis
	421	Acute and subacute endocarditis
	4210	Acute and subacute bacterial endocarditis
	4211	Acute and subacute infective endocarditis in diseases classified elsewhere
	4219	Acute endocarditis, unspecified
	424	Other diseases of endocardium
	4244	Other endocarditis, valve unspecified
	4245	Other endocarditis, valve unspecified
	4248	Pulmonary valve disorders
	4249	Endocarditis valve unspecified
	42490	Endocarditis, valve unspecified, unspecified cause
	42491	Endocarditis in diseases classified elsewhere
	42499	Other endocarditis, valve unspecified
Heart Failure	742	Coxsackie carditis
	7423	Coxsackie myocarditis
	422	Acute myocarditis
	4220	Acute myocarditis in diseases classified elsewhere
	4224	Other acute myocarditis
	4225	Acute myocarditis in diseases classified elsewhere

4229	Other and unspecified acute myocarditis
42290	Acute myocarditis, unspecified
42291	Idiopathic myocarditis
42292	Septic myocarditis
42293	Toxic myocarditis
42293	Other acute myocarditis
42299	Cardiomyopathy
	Endomyocardial fibrosis
4250	·
4251	Hypertrophic cardiomyopathy
42511	Hypertrophic obstructive cardiomyopathy
42518	Other hypertrophic cardiomyopathy
4252	Obscure cardiomyopathy of Africa
4253	Endocardial fibroelastosis
4254	Other primary cardiomyopathies
4255	Alcoholic cardiomyopathy
4257	Nutritional and metabolic cardiomyopathy
4258	Cardiomyopathy in other diseases classified elsewhere
4259	Secondary cardiomyopathy, unspecified
4290	Myocarditis, unspecified
4291	Myocardial degeneration
416	Chronic pulmonary heart disease
4160	Primary pulmonary hypertension
4162	Chronic pulmonary embolism
4163	Chronic pulmonary heart disease unspecified
4168	Other chronic pulmonary heart diseases
4169	Chronic pulmonary heart disease unspecified
428	Heart failure
4280	Congestive heart failure, unspecified
4281	Left heart failure
4282	Systolic heart failure
42820	Heart failure unspecified
42821	Acute systolic heart failure
42822	Chronic systolic heart failure
42823	Acute on chronic systolic heart failure
4283	Diastolic heart failure
42830	Heart failure unspecified
42831	Acute diastolic heart failure
42832	Chronic diastolic heart failure
42833	Acute on chronic diastolic heart failure
4284	Combined systolic and diastolic heart failure
42840	Heart failure unspecified
42841	Acute combined systolic and diastolic heart failure
42842	Chronic combined systolic and diastolic heart failure

	42843	Acute on chronic combined systolic and diastolic heart failure
	4286	Heart failure unspecified
	4287	Heart failure unspecified
	4288	Heart failure unspecified
	4289	Heart failure unspecified
	402	Hypertensive heart disease
	4020	Malignant hypertensive heart disease
	40200	Hypertensive heart disease without heart failure
	40201	Hypertensive heart disease with heart failure
	4021	Benign hypertensive heart disease
	40210	Hypertensive heart disease without heart failure
	40211	Hypertensive heart disease with heart failure
	4023	With congestive heart failure
	4027	Hypertensive heart disease with heart failure
	4029	Unspecified hypertensive heart disease
	40290	Hypertensive heart disease without heart failure
	40291	Hypertensive heart disease with heart failure
Ischemic Heart Disease	410	Acute myocardial infarction
	4100	Acute myocardial infarction of anterolateral wall
	41000	Acute myocardial infarction episode of care unspecified
	41001	Acute myocardial infarction initial episode of care
	41002	Acute myocardial infarction subsequent episode of care
	4101	Acute myocardial infarction of other anterior wall
	41010	Acute myocardial infarction episode of care unspecified
	41011	Acute myocardial infarction initial episode of care
	41012	Acute myocardial infarction subsequent episode of care
	4102	Acute myocardial infarction of inferolateral wall
	41020	Acute myocardial infarction episode of care unspecified
	41021	Acute myocardial infarction initial episode of care
	41022	Acute myocardial infarction subsequent episode of care
	4103	Acute myocardial infarction of inferoposterior wall
	41030	Acute myocardial infarction episode of care unspecified
	41031	Acute myocardial infarction initial episode of care
	41032	Acute myocardial infarction subsequent episode of care

4104	Acute myocardial infarction of other inferior wall
41040	Acute myocardial infarction episode of care unspecified
41041	Acute myocardial infarction initial episode of care
41042	Acute myocardial infarction subsequent episode of care
4105	Acute myocardial infarction of other lateral wall
41050	Acute myocardial infarction episode of care unspecified
41051	Acute myocardial infarction initial episode of care
41052	Acute myocardial infarction subsequent episode of care
4106	True posterior wall infarction
41060	Acute myocardial infarction episode of care unspecified
41061	Acute myocardial infarction initial episode of care
41062	Acute myocardial infarction subsequent episode of care
4107	Subendocardial infarction
41070	Acute myocardial infarction episode of care unspecified
41071	Acute myocardial infarction initial episode of care
41072	Acute myocardial infarction subsequent episode of care
4108	Acute myocardial infarction of other specified sites
41080	Acute myocardial infarction episode of care unspecified
41081	Acute myocardial infarction initial episode of care
41082	Acute myocardial infarction subsequent episode of care
4109	Acute myocardial infarction of unspecified site
41090	Acute myocardial infarction episode of care unspecified
41091	Acute myocardial infarction initial episode of care
41092	Acute myocardial infarction subsequent episode of care
411	Other acute and subacute forms of ischemic heart disease
4110	Postmyocardial infarction syndrome
4111	Intermediate coronary syndrome
4118	Other acute and subacute forms of ischemic heart disease

41181	Acute coronary occlusion without myocardial infarction
41189	Other acute and subacute forms of ischemic heart disease other
4119	Other acute and subacute forms of ischaemic heart disease
412	Old myocardial infarction
4120	Old myocardial infarction
4129	Old myocardial infarction
413	Angina pectoris
4130	Angina decubitus
4131	Prinzmetal angina
4139	Other and unspecified angina pectoris
414	Other forms of chronic ischemic heart disease
4140	Coronary atherosclerosis
41400	Other forms of chronic ischemic heart disease of unspecified type of vessel, native or graft
41401	Other forms of chronic ischemic heart disease of native coronary artery
41402	Other forms of chronic ischemic heart disease of autologous vein bypass graft
41403	Other forms of chronic ischemic heart disease of nonautologous biological bypass graft
41404	Other forms of chronic ischemic heart disease of artery bypass graft
41405	Other forms of chronic ischemic heart disease of unspecified bypass graft
41406	Other forms of chronic ischemic heart disease of native coronary artery of transplanted heart
41407	Other forms of chronic ischemic heart disease of bypass graft (artery) (vein) of transplanted heart
4141	Aneurysm and dissection of heart
41410	Aneurysm of heart (wall)
41411	Aneurysm of coronary vessels
41412	Dissection of coronary artery
41419	Other aneurysm of heart
4142	Chronic total occlusion of coronary artery
4143	Coronary atherosclerosis due to lipid rich plaque
4144	Coronary atherosclerosis due to calcified coronary lesion
4145	Chronic ischemic heart disease, unspecified
4148	Other specified forms of chronic ischemic heart disease

	4149	Chronic ischemic heart disease, unspecified
	V173	Family history of ischemic heart disease
	V810	Screening for ischemic heart disease
Other Cardiovascular Disease	417	Other diseases of pulmonary circulation
	4170	Arteriovenous fistula of pulmonary vessels
	4171	Aneurysm of pulmonary artery
	4178	Other specified diseases of pulmonary circulation
	4179	Unspecified disease of pulmonary circulation
	420	Acute pericarditis
	4200	Acute pericarditis in diseases classified elsewhere
	4201	Acute pericarditis
	4209	Other and unspecified acute pericarditis
	42090	Acute pericarditis, unspecified
	42091	Acute idiopathic pericarditis
	42099	Other acute pericarditis
	423	Other diseases of pericardium
	4231	Adhesive pericarditis
	4232	Constrictive pericarditis
	4233	Cardiac tamponade
	4237	Other diseases of pericardium
	4238	Other specified diseases of pericardium
	4239	Unspecified disease of pericardium
	4240	Mitral valve disorders
	4241	Aortic valve disorders
	4242	Tricuspid valve disorders, specified as nonrheumatic
	4243	Pulmonary valve disorders
	442	Other aneurysm
	4420	Aneurysm of artery of upper extremity
	4421	Aneurysm of renal artery
	4422	Aneurysm of iliac artery
	4423	Aneurysm of artery of lower extremity
	4424	
	4428	Aneurysm of other specified artery
	44281	Aneurysm of artery of neck
	44282	Aneurysm of subclavian artery
	44283	Aneurysm of splenic artery
	44284	Aneurysm of other visceral artery
	44289	Aneurysm of other specified artery
	4429	Aneurysm of unspecified site
	447	Other disorders of arteries and arterioles
	4470	Arteriovenous fistula, acquired
	4471	Stricture of artery

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4472	Rupture of artery
4473	Hyperplasia of renal artery
4474	Celiac artery compression syndrome
4475	Necrosis of artery
4476	Arteritis, unspecified
4477	Aortic ectasia
44770	Other disorders of arteries and arterioles unspecified site
44771	Thoracic aortic ectasia
44771	Abdominal aortic ectasia
44772	Thoracoabdominal aortic ectasia
44773	Other specified disorders of arteries and arterioles
4479	Unspecified disorders of arteries and arterioles
448	Disease of capillaries
4480	Hereditary hemorrhagic telangiectasia
4481	Nevus, non-neoplastic
4489	Other and unspecified capillary diseases
449	Septic arterial embolism
450	Other and unspecified capillary diseases
451	Phlebitis and thrombophlebitis
4510	Phlebitis and thrombophlebitis of superficial vessels of lower extremities
4511	Phlebitis and thrombophlebitis of deep veins of lower extremities
45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)
45119	Phlebitis and thrombophlebitis other
4512	Phlebitis and thrombophlebitis of lower extremities, unspecified
4513	Phlebitis and thrombophlebitis of unspecified site
4515	Phlebitis and thrombophlebitis of unspecified site
4517	Phlebitis and thrombophlebitis of unspecified site
4518	Phlebitis and thrombophlebitis of other sites
45181	Phlebitis and thrombophlebitis of iliac vein
45182	Phlebitis and thrombophlebitis of superficial veins of upper extremities
45183	Phlebitis and thrombophlebitis of deep veins of upper extremities
45184	Phlebitis and thrombophlebitis of upper extremities, unspecified
45189	Phlebitis and thrombophlebitis of other sites
4519	Phlebitis and thrombophlebitis of unspecified site
452	Portal vein thrombosis
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4520	Portal vein thrombosis
4523	Portal vein thrombosis
4524	Portal vein thrombosis
4529	Portal vein thrombosis
453	Other venous embolism and thrombosis
4530	Budd-chiari syndrome
4531	Thrombophlebitis migrans
4532	Other venous embolism and thrombosis of inferior vena cava
4533	Other venous embolism and thrombosis of renal vein
4534	Acute venous embolism and thrombosis of deep vessels of lower extremity
45340	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity
45341	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity
45342	Acute venous embolism and thrombosis of deep vessels of distal lower extremity
4535	Chronic venous embolism and thrombosis of deep vessels of lower extremity
45350	Chronic venous embolism and thrombosis of unspecified deep vessels of lower extremity
45351	Chronic venous embolism and thrombosis of deep vessels of proximal lower extremity
45352	Chronic venous embolism and thrombosis of deep vessels of distal lower extremity
4536	Venous embolism and thrombosis of superficial vessels of lower extremity
4537	Chronic venous embolism and thrombosis of other specified vessels
45371	Chronic venous embolism and thrombosis of superficial veins of upper extremity
45372	Chronic venous embolism and thrombosis of deep veins of upper extremity
45373	Chronic venous embolism and thrombosis of upper extremity, unspecified
45374	Chronic venous embolism and thrombosis of axillary veins
45375	Chronic venous embolism and thrombosis of subclavian veins
45376	Chronic venous embolism and thrombosis of internal jugular veins

45377	Chronic venous embolism and thrombosis of other thoracic veins
45379	Chronic venous embolism and thrombosis of other specified veins
4538	Acute venous embolism and thrombosis of other specified veins
45381	Acute venous embolism and thrombosis of superficial veins of upper extremity
45382	Acute venous embolism and thrombosis of deep veins of upper extremity
45383	Acute venous embolism and thrombosis of upper extremity, unspecified
45384	Acute venous embolism and thrombosis of axillary veins
45385	Acute venous embolism and thrombosis of subclavian veins
45386	Acute venous embolism and thrombosis of internal jugular veins
45387	Acute venous embolism and thrombosis of other thoracic veins
45389	Acute venous embolism and thrombosis of other specified veins
4539	Other venous embolism and thrombosis of unspecified site
454	Varicose veins of lower extremities
4540	Varicose veins of lower extremities with ulcer
4541	Varicose veins of lower extremities with inflammation
4542	Varicose veins of lower extremities with ulcer and inflammation
4548	Varicose veins of lower extremities with other complications
4549	Asymptomatic varicose veins
456	Varicose veins of other sites
4563	Sublingual varices
4564	Scrotal varices
4565	Pelvic varices
4566	Vulval varices
4568	Varices of other sites
4569	Varices of other sites
457	Noninfectious disorders of lymphatic channels
4571	Other lymphedema
4578	Other noninfectious disorders of lymphatic channels

	4570	Unspecified noninfectious disorder of lymphatic
	4579	channels
	459	Other disorders of circulatory system
	4591	Postphlebitic syndrome
	45910	Postphlebetic syndrome without complications
	45911	Postphlebetic syndrome with ulcer
	45912	Postphlebetic syndrome with inflammation
	45913	Postphlebetic syndrome with ulcer and inflammation
	45919	Postphlebetic syndrome with other complication
	4592	Compression of vein
	4593	Chronic venous hypertension (idiopathic)
	45930	Chronic venous hypertension without complications
	45931	Chronic venous hypertension with ulcer
	45932	Chronic venous hypertension with inflammation
	45933	Chronic venous hypertension with ulcer and inflammation
	45939	Chronic venous hypertension with other complication
Peripheral Arterial Disease	4402	Atherosclerosis of native arteries of the extremities
	44020	Atherosclerosis unspecified
	44021	Atherosclerosis with intermittent claudication
	44022	Atherosclerosis with rest pain
	44023	Atherosclerosis with ulceration
	44024	Atherosclerosis with gangrene
	44029	Other atherosclerosis of native arteries of the extremities
	4404	Chronic total occlusion of artery of the extremities
	4408	Atherosclerosis of other specified arteries
	4409	Generalized and unspecified atherosclerosis
	443	Other peripheral vascular disease
	4430	Raynaud's syndrome
	4431	Thromboangiitis obliterans [Buerger's disease]
	4432	Other arterial dissection
	44321	Dissection of carotid artery
	44322	Dissection of iliac artery
	44323	Dissection of renal artery
	44324	Dissection of vertebral artery
	44329	Dissection of other artery
	4438	Other specified peripheral vascular diseases
	44381	Peripheral angiopathy in diseases classified elsewhere
	44382	Erythromelalgia
	44389	Other specified peripheral vascular diseases
	4439	Peripheral vascular disease, unspecified
Rheumatic Heart Disease	391	Rheumatic fever with heart involvement

	3910	Acute rheumatic pericarditis
	3911	Acute rheumatic endocarditis
	3912	Acute rheumatic myocarditis
	3914	
	3918	Other acute rheumatic heart disease
	3919	Acute rheumatic heart disease, unspecified
	3920	Rheumatic chorea with heart involvement
	393	Chronic rheumatic pericarditis
	3930	
	3939	
	394	Diseases of mitral valve
	3940	Mitral stenosis
	3941	Rheumatic mitral insufficiency
	3942	Mitral stenosis with insufficiency
	3945	
	3949	Other and unspecified mitral valve diseases
	395	Diseases of aortic valve
	3950	Rheumatic aortic stenosis
	3951	Rheumatic aortic insufficiency
	3952	Rheumatic aortic stenosis with insufficiency
	3959	Other and unspecified rheumatic aortic diseases
	396	Diseases of mitral and aortic valves
	3960	Mitral valve stenosis and aortic valve stenosis
	3961	Mitral valve stenosis and aortic valve insufficiency
	3962	Mitral valve insufficiency and aortic valve stenosis
	3963	Mitral valve insufficiency and aortic valve insufficiency
	3968	Multiple involvement of mitral and aortic valves
	3969	Mitral and aortic valve diseases, unspecified
	397	Diseases of other endocardial structures
	3970	Diseases of tricuspid valve
	3971	Rheumatic diseases of pulmonary valve
	3979	Rheumatic diseases of endocardium, valve unspecified
	398	Other rheumatic heart disease
	3980	Rheumatic myocarditis
	3988	
	3989	Other and unspecified rheumatic heart diseases
	39890	Rheumatic heart disease, unspecified
	39891	Rheumatic heart failure (congestive)
	39899	Other rheumatic heart diseases
Cerebrovascular Disease	430	Subarachnoid hemorrhage
	4300	Subarachnoid hemorrhage
	4301	Subarachnoid hemorrhage
	4304	Subarachnoid hemorrhage

4200	Cultura de mai del de anno annice a co
4306	Subarachnoid hemorrhage
4309	Subarachnoid hemorrhage
431	Intracerebral hemorrhage
4310	Intracerebral hemorrhage
4311	Intracerebral hemorrhage
4312	Intracerebral hemorrhage
4319	Intracerebral hemorrhage
432	Other and unspecified intracranial hemorrhage
4320	Nontraumatic extradural hemorrhage
4321	Subdural hemorrhage
4324	Unspecified intracranial hemorrhage
4325	Unspecified intracranial hemorrhage
4327	Unspecified intracranial hemorrhage
4329	Unspecified intracranial hemorrhage
433	Occlusion and stenosis of precerebral arteries
4330	Occlusion and stenosis of basilar artery
43300	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43301	Occlusion and stenosis of precerebral arteries with cerebral infarction
4331	Occlusion and stenosis of carotid artery
43310	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43311	Occlusion and stenosis of precerebral arteries with cerebral infarction
4332	Occlusion and stenosis of vertebral artery
43320	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43321	Occlusion and stenosis of precerebral arteries with cerebral infarction
4333	Occlusion and stenosis of multiple and bilateral precerebral arteries
43330	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43331	Occlusion and stenosis of precerebral arteries with cerebral infarction
4338	Occlusion and stenosis of other specified precerebral artery
43380	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43381	Occlusion and stenosis of precerebral arteries with cerebral infarction

4339	Occlusion and stenosis of unspecified precerebral artery
43390	Occlusion and stenosis of precerebral arteries without mention of cerebral infarction
43391	Occlusion and stenosis of precerebral arteries with cerebral infarction
434	Occlusion of cerebral arteries
4340	Cerebral thrombosis
43400	Occlusion of cerebral arteries without mention of cerebral infarction
43401	Occlusion of cerebral arteries with cerebral infarction
4341	Cerebral embolism
43410	Occlusion of cerebral arteries without mention of cerebral infarction
43411	Occlusion of cerebral arteries with cerebral infarction
4343	Cerebral artery occlusion, unspecified with cerebral infarction
4344	Cerebral artery occlusion, unspecified with cerebral infarction
4346	Cerebral artery occlusion, unspecified with cerebral infarction
4347	Cerebral artery occlusion, unspecified with cerebral infarction
4349	Cerebral artery occlusion unspecified
43490	Cerebral artery occlusion, unspecified without mention of cerebral infarction
43491	Cerebral artery occlusion, unspecified with cerebral infarction
435	Transient cerebral ischemia
4350	Basilar artery syndrome
4351	Vertebral artery syndrome
4352	Subclavian steal syndrome
4353	Vertebrobasilar artery syndrome
4358	Other specified transient cerebral ischemias
4359	Unspecified transient cerebral ischemia
436	Acute, but ill-defined, cerebrovascular disease
4360	Acute, but ill-defined, cerebrovascular disease
4361	Acute, but ill-defined, cerebrovascular disease
4363	Acute, but ill-defined, cerebrovascular disease
4368	Acute, but ill-defined, cerebrovascular disease
4369	Acute, but ill-defined, cerebrovascular disease
437	Other and ill-defined cerebrovascular disease
4370	Cerebral atherosclerosis

4371	Other generalized ischemic carebrayassular disease
	Other generalized ischemic cerebrovascular disease
4372	Hypertensive encephalopathy
4373	Cerebral aneurysm, nonruptured
4374	Cerebral arteritis
4375	Moyamoya disease
4376	Nonpyogenic thrombosis of intracranial venous sinus
4377	Transient global amnesia
4378	Other ill-defined cerebrovascular disease
4379	Unspecified cerebrovascular disease
438	Late effects of cerebrovascular disease
4380	Late effects of cerebrovascular disease cognitive deficits
4381	Speech and language deficits
43810	Late effects of cerebrovascular disease, speech and language deficit, unspecified
43811	Late effects of cerebrovascular disease, aphasia
43812	Late effects of cerebrovascular disease, dysphasia
43813	Late effects of cerebrovascular disease, dysarthria
43814	Late effects of cerebrovascular disease, fluency disorder
43819	Late effects of cerebrovascular disease, other speech and language deficits
4382	Hemiplegia/hemiparesis
43820	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side
43821	Late effects of cerebrovascular disease, hemiplegia affecting dominant side
43822	Late effects of cerebrovascular disease, hemiplegia affecting nondominant side
4383	Monoplegia of upper limb
43830	Late effects of cerebrovascular disease, monoplegia of upper limb affecting unspecified side
43831	Late effects of cerebrovascular disease, monoplegia of upper limb affecting dominant side
43832	Late effects of cerebrovascular disease, monoplegia of upper limb affecting nondominant side
4384	Monoplegia of lower limb
43840	Late effects of cerebrovascular disease, monoplegia of lower limb affecting unspecified side
43841	Late effects of cerebrovascular disease, monoplegia of lower limb affecting dominant side
43842	Late effects of cerebrovascular disease, monoplegia of lower limb affecting nondominant side

	4385	Other paralytic syndrome
	42050	Late effects of cerebrovascular disease, other paralytic
	43850	syndrome affecting unspecified side
	43851	Late effects of cerebrovascular disease, other paralytic syndrome affecting dominant side
	43852	Late effects of cerebrovascular disease, other paralytic syndrome affecting nondominant side
	43853	Late effects of cerebrovascular disease, other paralytic syndrome, bilateral
	4386	Late effects of cerebrovascular disease alterations of sensations
	4387	Late effects of cerebrovascular disease disturbances of vision
	4388	Other late effects of cerebrovascular disease
	43881	Late effects of cerebrovascular disease apraxia
	43882	Late effects of cerebrovascular disease dysphagia
	43883	Late effects of cerebrovascular disease facial weakness
	43884	Late effects of cerebrovascular disease ataxia
	43885	Late effects of cerebrovascular disease vertigo
	43889	Other late effects of cerebrovascular disease
	4389	Unspecified late effects of cerebrovascular disease
	439	Unspecified late effects of cerebrovascular disease
	4396	Unspecified late effects of cerebrovascular disease
	V1254	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits
	V171	Family history of stroke (cerebrovascular)
Treatment of Hyperlipidemia	272	Disorders of lipoid metabolism
	2720	Pure hypercholesterolemia
	2721	Pure hyperglyceridemia
	2722	Mixed hyperlipidemia
	2723	Hyperchylomicronemia
	2724	Other and unspecified hyperlipidemia
	2725	Lipoprotein deficiencies
	2726	Lipodystrophy
	2727	Lipidoses
	2728	Other disorders of lipoid metabolism
	2729	Unspecified disorder of lipoid metabolism
Treatment of Hypertension	401	Essential hypertension
	4010	Malignant essential hypertension
	4011	Benign essential hypertension
	_	
	4019	Unspecified essential hypertension

4050	Malignant secondary hypertension
40501	Malignant renovascular hypertension
40509	Other malignant secondary hypertension
4051	Benign secondary hypertension
40511	Benign renovascular hypertension
40519	Other benign secondary hypertension
4059	Unspecified secondary hypertension
40591	Unspecified renovascular hypertension
40599	Other unspecified secondary hypertension
458	Hypotension
4588	Other specified hypotension
4589	Hypotension unspecified
7962	Elevated blood pressure reading without diagnosis of hypertension
7963	Nonspecific low blood pressure reading
V811	Screening for hypertension

Supplemental Table V Cardiovascular Diseases and Cardiovascular Risk Factors and Corresponding ICD-10 Codes

Cause Name	ICD10 Codes	ICD10 Names
Atrial Fibrillation/Flutter	148	Atrial fibrillation and flutter
	1480	Paroxysmal atrial fibrillation
	1481	Persistent atrial fibrillation
	1482	Chronic atrial fibrillation
	1483	Typical atrial flutter
	1484	Atypical atrial flutter
	1489	Unspecified atrial fibrillation and atrial flutter
	14891	Unspecified atrial fibrillation
	14892	Unspecified atrial flutter
Aortic Aneurysms	l71	Aortic aneurysm and dissection
	I710	Dissection of aorta
	17100	Dissection of unspecified site of aorta
	17101	Dissection of thoracic aorta
	17102	Dissection of abdominal aorta
	17103	Dissection of thoracoabdominal aorta
	I711	Thoracic aortic aneurysm, ruptured
	I712	Thoracic aortic aneurysm, without rupture
	I713	Abdominal aortic aneurysm, ruptured
	I714	Abdominal aortic aneurysm, without rupture
	I715	Thoracoabdominal aortic aneurysm, ruptured
	1716	Thoracoabdominal aortic aneurysm, without rupture
	I718	Aortic aneurysm of unspecified site, ruptured
	1719	Aortic aneurysm of unspecified site, without rupture
	1790	Aneurysm of aorta in diseases classified elsewhere
Endocarditis	133	Acute and subacute endocarditis
	1330	Acute and subacute infective endocarditis
	1339	Acute and subacute endocarditis, unspecified
	138	Endocarditis, valve unspecified
	1380	
	139	Endocarditis and heart valve disorders in diseases classified elsewhere
	1390	Mitral valve disorders in diseases classified elsewhere
	1391	Aortic valve disorders in diseases classified elsewhere
	1392	Tricuspid valve disorders in diseases classified elsewhere
	1393	Pulmonary valve disorders in diseases classified elsewhere
	1394	Multiple valve disorders in diseases classified elsewhere
	1398	Endocarditis, valve unspecified, in diseases classified elsewhere
	1399	
Heart Failure*	B332	Viral carditis
	B3320	Viral carditis, unspecified

B3321	Viral endocarditis
B3322	Viral myocarditis
B3323	Viral pericarditis
B3324	Viral cardiomyopathy
140	Acute myocarditis
1400	Infective myocarditis
1401	Isolated myocarditis
1408	Other acute myocarditis
1409	Acute myocarditis, unspecified
141	Myocarditis in diseases classified elsewhere
1410	Myocarditis in diseases classified elsewhere
I411	Myocarditis in diseases classified elsewhere
I412	Myocarditis in diseases classified elsewhere
1418	Myocarditis in diseases classified elsewhere
142	Cardiomyopathy
1420	Dilated cardiomyopathy
1421	Obstructive hypertrophic cardiomyopathy
1422	Other hypertrophic cardiomyopathy
1423	Endomyocardial (eosinophilic) disease
1424	Endocardial fibroelastosis
1425	Other restrictive cardiomyopathy
1426	Alcoholic cardiomyopathy
1427	Cardiomyopathy due to drug and external agent
1428	Other cardiomyopathies
1429	Cardiomyopathy, unspecified
143	Cardiomyopathy in diseases classified elsewhere
1430	Cardiomyopathy in diseases classified elsewhere
I431	Cardiomyopathy in diseases classified elsewhere
1432	Cardiomyopathy in diseases classified elsewhere
1438	Cardiomyopathy in diseases classified elsewhere
1514	Myocarditis, unspecified
I515	Myocardial degeneration
1516	Cardiovascular disease, unspecified
1270	Primary pulmonary hypertension
1272	Other secondary pulmonary hypertension
1279	Pulmonary heart disease, unspecified
150	Heart failure
1500	Congestive heart failure
I501	Left ventricular failure
1502	Systolic (congestive) heart failure
15020	Unspecified systolic (congestive) heart failure
I5021	Acute systolic (congestive) heart failure
15022	Chronic systolic (congestive) heart failure

IEO22	Acute on chronic systolic (congective) heart failure
	Acute on chronic systolic (congestive) heart failure Diastolic (congestive) heart failure
	Unspecified diastolic (congestive) heart failure Acute diastolic (congestive) heart failure
	, , ,
	Chronic diastolic (congestive) heart failure
15033	Acute on chronic diastolic (congestive) heart failure
1504	Combined systolic (congestive) and diastolic (congestive) heart failure
15040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
15041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
15042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
15043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
1508	
1509	Heart failure, unspecified
J81	Pulmonary edema
l11	Hypertensive heart disease
l110	Hypertensive heart disease with heart failure
l112	
l119	Hypertensive heart disease without heart failure
120	Angina pectoris
1200	Unstable angina
1201	Angina pectoris with documented spasm
1208	Other forms of angina pectoris
1209	Angina pectoris, unspecified
l21	ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction
1210	ST elevation (STEMI) myocardial infarction of anterior wall
12101	ST elevation (STEMI) myocardial infarction involving left main coronary artery
12102	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
12109	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
1211	ST elevation (STEMI) myocardial infarction of inferior wall
12111	ST elevation (STEMI) myocardial infarction involving right coronary artery
12119	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
1212	ST elevation (STEMI) myocardial infarction of other sites
	I5040 I5041 I5042 I5043 I508 I509 J81 I11 I110 I112 I119 I20 I200 I201 I208 I209 I21 I210 I2101 I2102 I2109 I211 I2111 I2111 I2111 I2119 I2119

12121	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery
I2129	ST elevation (STEMI) myocardial infarction involving other sites
1213	ST elevation (STEMI) myocardial infarction of unspecified site
1214	Non-ST elevation (NSTEMI) myocardial infarction
1216	, , ,
1219	Acute myocardial infarction, unspecified
I21A	NA
122	Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction
1220	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
I221	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
1222	Subsequent non-ST elevation (NSTEMI) myocardial infarction
1228	Subsequent ST elevation (STEMI) myocardial infarction of other sites
1229	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
123	Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)
124	Other acute ischemic heart diseases
1240	Acute coronary thrombosis not resulting in myocardial infarction
1241	Dressler's syndrome
1248	Other forms of acute ischemic heart disease
1249	Acute ischemic heart disease, unspecified
125	Chronic ischemic heart disease
1250	Atherosclerotic cardiovascular disease, so described
1251	Atherosclerotic heart disease of native coronary artery
12510	Atherosclerotic heart disease of native coronary artery without angina pectoris
I2511	Atherosclerotic heart disease of native coronary artery with angina pectoris
125110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
125111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
125118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
I25119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris
1252	Old myocardial infarction

1253	Aneurysm of heart
1254	Coronary artery aneurysm and dissection
I2541	Coronary artery aneurysm
12542	Coronary artery dissection
1255	Ischemic cardiomyopathy
1256	Silent myocardial ischemia
1257	Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris
12570	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris
125700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
125701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm
125708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
125709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
I2571	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris
125710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
125711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
125718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
125719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
12572	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris
 125720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
125721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
125728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
125729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
12573	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris
125730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris

	Atherosclerosis of nonautologous biological coronary artery
I25731	bypass graft(s) with angina pectoris with documented spasm
125738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris
125739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris
12575	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris
125750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
125751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
125758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
125759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
12576	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris
125760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
125761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
125768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
125769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris
12579	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris
125790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
125791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
125798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
125799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
1258	Other forms of chronic ischemic heart disease
12581	Atherosclerosis of other coronary vessels without angina pectoris
125810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
125811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris

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	125812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
	12582	Chronic total occlusion of coronary artery
	12583	Coronary atherosclerosis due to lipid rich plaque
	12584	Coronary atherosclerosis due to calcified coronary lesion
	12589	Other forms of chronic ischemic heart disease
	1259	Chronic ischemic heart disease, unspecified
		Family history of ischemic heart disease and other diseases of
	Z824	the circulatory system
	Z8241	Family history of sudden cardiac death
	70240	Family history of ischemic heart disease and other diseases of
	Z8249	the circulatory system
Other Cardiovascular Disease	1280	Arteriovenous fistula of pulmonary vessels
	1281	Aneurysm of pulmonary artery
	1288	Other diseases of pulmonary vessels
	1289	Disease of pulmonary vessels, unspecified
	1300	Acute nonspecific idiopathic pericarditis
	I301	Infective pericarditis
	1308	Other forms of acute pericarditis
	1309	Acute pericarditis, unspecified
	I310	Chronic adhesive pericarditis
	I311	Chronic constrictive pericarditis
	I313	Pericardial effusion (noninflammatory)
	I314	Cardiac tamponade
	I318	Other specified diseases of pericardium
	I319	Disease of pericardium, unspecified
	132	Pericarditis in diseases classified elsewhere
	134	Nonrheumatic mitral valve disorders
	1340	Nonrheumatic mitral (valve) insufficiency
	1341	Nonrheumatic mitral (valve) prolapse
	1342	Nonrheumatic mitral (valve) stenosis
	1348	Other nonrheumatic mitral valve disorders
	1349	Nonrheumatic mitral valve disorder, unspecified
	135	Nonrheumatic aortic valve disorders
	1350	Nonrheumatic aortic (valve) stenosis
	I351	Nonrheumatic aortic (valve) insufficiency
	1352	Nonrheumatic aortic (valve) stenosis with insufficiency
	1358	Other nonrheumatic aortic valve disorders
	1359	Nonrheumatic aortic valve disorder, unspecified
	136	Nonrheumatic tricuspid valve disorders
	1360	Nonrheumatic tricuspid (valve) stenosis
	1361	Nonrheumatic tricuspid (valve) insufficiency

1362	Nonrheumatic tricuspid (valve) stenosis with insufficiency
1368	Other nonrheumatic tricuspid valve disorders
1369	Nonrheumatic tricuspid valve disorder, unspecified
137	Nonrheumatic pulmonary valve disorders
1370	Nonrheumatic pulmonary valve stenosis
1371	Nonrheumatic pulmonary valve insufficiency
1372	Nonrheumatic pulmonary valve stenosis with insufficiency
1378	Other nonrheumatic pulmonary valve disorders
1379	Nonrheumatic pulmonary valve disorder, unspecified
1720	Aneurysm of carotid artery
1721	Aneurysm of artery of upper extremity
1722	Aneurysm of renal artery
1723	Aneurysm of iliac artery
1724	Aneurysm of artery of lower extremity
1728	Aneurysm of other specified arteries
1729	Aneurysm of unspecified site
176	Septic arterial embolism
1770	Arteriovenous fistula, acquired
1771	Stricture of artery
1772	Rupture of artery
1773	Arterial fibromuscular dysplasia
1774	Celiac artery compression syndrome
1775	Necrosis of artery
1776	Arteritis, unspecified
1779	Disorder of arteries and arterioles, unspecified
1780	Hereditary hemorrhagic telangiectasia
1781	Nevus, non-neoplastic
1788	Other diseases of capillaries
1789	Disease of capillaries, unspecified
180	Phlebitis and thrombophlebitis
1800	Phlebitis and thrombophlebitis of superficial vessels of lower extremities
18000	Phlebitis and thrombophlebitis of superficial vessels of unspecified lower extremity
18001	Phlebitis and thrombophlebitis of superficial vessels of right lower extremity
18002	Phlebitis and thrombophlebitis of superficial vessels of left lower extremity
18003	Phlebitis and thrombophlebitis of superficial vessels of lower extremities, bilateral
1801	Phlebitis and thrombophlebitis of femoral vein
18010	Phlebitis and thrombophlebitis of unspecified femoral vein
18011	Phlebitis and thrombophlebitis of right femoral vein
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	 1808	Phlebitis and thrombophlebitis of other sites
I81 Portal vein thrombosis	1809	Phlebitis and thrombophlebitis of unspecified site
	I81	Portal vein thrombosis

1810	
182	Other venous embolism and thrombosis
1820	Budd-Chiari syndrome
I821	Thrombophlebitis migrans
1822	Embolism and thrombosis of vena cava and other thoracic veins
18221	Embolism and thrombosis of superior vena cava
182210	Acute embolism and thrombosis of superior vena cava
I82211	Chronic embolism and thrombosis of superior vena cava
18222	Embolism and thrombosis of inferior vena cava
182220	Acute embolism and thrombosis of inferior vena cava
I82221	Chronic embolism and thrombosis of inferior vena cava
18229	Embolism and thrombosis of other thoracic veins
182290	Acute embolism and thrombosis of other thoracic veins
I82291	Chronic embolism and thrombosis of other thoracic veins
1823	Embolism and thrombosis of renal vein
1824	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity
18240	Acute embolism and thrombosis of unspecified deep veins of lower extremity
182401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity
182402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity
182403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral
182409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity
18241	Acute embolism and thrombosis of femoral vein
I82411	Acute embolism and thrombosis of right femoral vein
I82412	Acute embolism and thrombosis of left femoral vein
I82413	Acute embolism and thrombosis of femoral vein, bilateral
I82419	Acute embolism and thrombosis of unspecified femoral vein
18242	Acute embolism and thrombosis of iliac vein
I82421	Acute embolism and thrombosis of right iliac vein
182422	Acute embolism and thrombosis of left iliac vein
182423	Acute embolism and thrombosis of iliac vein, bilateral
182429	Acute embolism and thrombosis of unspecified iliac vein
18243	Acute embolism and thrombosis of popliteal vein
I82431	Acute embolism and thrombosis of right popliteal vein
182432	Acute embolism and thrombosis of left popliteal vein
I82433	Acute embolism and thrombosis of popliteal vein, bilateral
182439	Acute embolism and thrombosis of unspecified popliteal vein
18244	Acute embolism and thrombosis of tibial vein

182442 Acute embolism and thrombosis of left tibial vein 182443 Acute embolism and thrombosis of tibial vein, bilateral 182449 Acute embolism and thrombosis of unspecified tibial vein 18249 Acute embolism and thrombosis of other specified deep vein of lower extremity Acute embolism and thrombosis of other specified deep vein of right lower extremity Acute embolism and thrombosis of other specified deep vein of left lower extremity Acute embolism and thrombosis of other specified deep vein of left lower extremity Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity Acute embolism and thrombosis of unspecified deep vein of unspecified lower extremity Chronic embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity Chronic embolism and thrombosis of unspecified deep veins of lower extremity Acute embolism and thrombosis of unspecified deep veins of right lower extremity Acute embolism and thrombosis of unspecified deep veins of lower extremity Acute embolism and thrombosis of unspecified deep veins of lower extremity Acute embolism and thrombosis of unspecified deep veins of lower extremity Acute embolism and thrombosis of unspecified deep veins of left lower extremity Acute embolism and thrombosis of unspecified deep veins of lower extremity Acute embolism and thrombosis of emoral vein Acute embolism and thrombosis of femoral vein Acute embolism and thrombosis of left femoral vein Acute embol	100:::	A suck a such a Bank a such above the street of the left of the
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182519 Chronic embolism and thrombosis of unspecified femoral vein 18252 Chronic embolism and thrombosis of iliac vein	I82512	Chronic embolism and thrombosis of left femoral vein
18252 Chronic embolism and thrombosis of iliac vein	I82513	Chronic embolism and thrombosis of femoral vein, bilateral
	I82519	Chronic embolism and thrombosis of unspecified femoral vein
182521 Chronic embolism and thrombosis of right iliac vein	18252	Chronic embolism and thrombosis of iliac vein
	I82521	Chronic embolism and thrombosis of right iliac vein
182522 Chronic embolism and thrombosis of left iliac vein	182522	
182523 Chronic embolism and thrombosis of iliac vein, bilateral	182523	Chronic embolism and thrombosis of iliac vein, bilateral
182529 Chronic embolism and thrombosis of unspecified iliac vein	182529	Chronic embolism and thrombosis of unspecified iliac vein
18253 Chronic embolism and thrombosis of popliteal vein	18253	Chronic embolism and thrombosis of popliteal vein
182531 Chronic embolism and thrombosis of right popliteal vein	I82531	
182532 Chronic embolism and thrombosis of left popliteal vein	182532	
182533 Chronic embolism and thrombosis of popliteal vein, bilateral	182533	
182539 Chronic embolism and thrombosis of unspecified popliteal vein	182539	
18254 Chronic embolism and thrombosis of tibial vein	18254	
I82541 Chronic embolism and thrombosis of right tibial vein	I82541	Chronic embolism and thrombosis of right tibial vein

182542	Chronic embolism and thrombosis of left tibial vein
182543	Chronic embolism and thrombosis of tibial vein, bilateral
182549	Chronic embolism and thrombosis of unspecified tibial vein
18259	Chronic embolism and thrombosis of other specified deep vein of lower extremity
182591	Chronic embolism and thrombosis of other specified deep vein of right lower extremity
182592	Chronic embolism and thrombosis of other specified deep vein of left lower extremity
182593	Chronic embolism and thrombosis of other specified deep vein of lower extremity, bilateral
182599	Chronic embolism and thrombosis of other specified deep vein of unspecified lower extremity
1826	Acute embolism and thrombosis of veins of upper extremity
18260	Acute embolism and thrombosis of unspecified veins of upper extremity
 182601	Acute embolism and thrombosis of unspecified veins of right upper extremity
182602	Acute embolism and thrombosis of unspecified veins of left upper extremity
182603	Acute embolism and thrombosis of unspecified veins of upper extremity, bilateral
182609	Acute embolism and thrombosis of unspecified veins of unspecified upper extremity
I8261	Acute embolism and thrombosis of superficial veins of upper extremity
182611	Acute embolism and thrombosis of superficial veins of right upper extremity
182612	Acute embolism and thrombosis of superficial veins of left upper extremity
182613	Acute embolism and thrombosis of superficial veins of upper extremity, bilateral
182619	Acute embolism and thrombosis of superficial veins of unspecified upper extremity
18262	Acute embolism and thrombosis of deep veins of upper extremity
182621	Acute embolism and thrombosis of deep veins of right upper extremity
182622	Acute embolism and thrombosis of deep veins of left upper extremity
182623	Acute embolism and thrombosis of deep veins of upper extremity, bilateral

102522	Acute embolism and thrombosis of deep veins of unspecified
182629	upper extremity
1827	Chronic embolism and thrombosis of veins of upper extremity
18270	Chronic embolism and thrombosis of unspecified veins of upper extremity
182701	Chronic embolism and thrombosis of unspecified veins of right upper extremity
182702	Chronic embolism and thrombosis of unspecified veins of left upper extremity
182703	Chronic embolism and thrombosis of unspecified veins of upper extremity, bilateral
182709	Chronic embolism and thrombosis of unspecified veins of unspecified upper extremity
18271	Chronic embolism and thrombosis of superficial veins of upper extremity
I82711	Chronic embolism and thrombosis of superficial veins of right upper extremity
I82712	Chronic embolism and thrombosis of superficial veins of left upper extremity
182713	Chronic embolism and thrombosis of superficial veins of upper extremity, bilateral
182719	Chronic embolism and thrombosis of superficial veins of unspecified upper extremity
18272	Chronic embolism and thrombosis of deep veins of upper extremity
I82721	Chronic embolism and thrombosis of deep veins of right upper extremity
182722	Chronic embolism and thrombosis of deep veins of left upper extremity
182723	Chronic embolism and thrombosis of deep veins of upper extremity, bilateral
182729	Chronic embolism and thrombosis of deep veins of unspecified upper extremity
1828	Embolism and thrombosis of other specified veins
I8281	Embolism and thrombosis of superficial veins of lower extremities
I82811	Embolism and thrombosis of superficial veins of right lower extremities
182812	Embolism and thrombosis of superficial veins of left lower extremities
182813	Embolism and thrombosis of superficial veins of lower extremities, bilateral
I82819	Embolism and thrombosis of superficial veins of unspecified lower extremities

IB289		
I8299	18289	Embolism and thrombosis of other specified veins
IB290 Embolism and thrombosis of unspecified vein IB290 Acute embolism and thrombosis of unspecified vein IB291 Chronic embolism and thrombosis of unspecified vein IB28 NA IB28 NA IB30 Varicose veins of lower extremities IB300 Varicose veins of lower extremities with ulcer IB3001 Varicose veins of unspecified lower extremity with ulcer IB3002 Varicose veins of unspecified lower extremity with ulcer of talfy IB3003 Varicose veins of unspecified lower extremity with ulcer of calf IB3004 Varicose veins of unspecified lower extremity with ulcer of alf und under the veins of unspecified lower extremity with ulcer of talfy IB3005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot IB3006 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot Varicose veins of unspecified lower extremity with ulcer other part of lower leg Varicose veins of unspecified lower extremity with ulcer of unspecified site IB3009 Varicose veins of unspecified lower extremity with ulcer of unspecified site Varicose veins of inght lower extremity with ulcer IB3011 Varicose veins of right lower extremity with ulcer of thigh IB3012 Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of heel and midfoot Varicose veins of right lower extremity with ulcer of the lower leg Varicose veins of right lower extremity with ulcer of unspecified site IB3018 Varicose veins of left lower extremity with ulcer of unspecified site IB3020 Varicose veins of left lower extremity with ulcer of thigh Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of legle and midfoot Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and mid	182890	Acute embolism and thrombosis of other specified veins
18290 Acute embolism and thrombosis of unspecified vein 18291 Chronic embolism and thrombosis of unspecified vein 1820 NA 1828 NA 1820 NA 1820 NA 1830 Varicose veins of lower extremities with ulcer 18300 Varicose veins of lower extremities with ulcer 18300 Varicose veins of unspecified lower extremity with ulcer of thigh 183002 Varicose veins of unspecified lower extremity with ulcer of thigh 183002 Varicose veins of unspecified lower extremity with ulcer of alf 183003 Varicose veins of unspecified lower extremity with ulcer of alf 183004 Varicose veins of unspecified lower extremity with ulcer of alke Varicose veins of unspecified lower extremity with ulcer of heel and midfoot Varicose veins of unspecified lower extremity with ulcer other part of foot Varicose veins of unspecified lower extremity with ulcer other part of lower leg Varicose veins of unspecified lower extremity with ulcer of unspecified site 183019 Varicose veins of right lower extremity with ulcer of thigh 183011 Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of heel and midfoot Varicose veins of right lower extremity with ulcer of heel and midfoot Varicose veins of right lower extremity with ulcer of the land Varicose veins of right lower extremity with ulcer of the land Varicose veins of right lower extremity with ulcer of heel and Varicose veins of right lower extremity with ulcer of the land Varicose veins of right lower extremity with ulcer of the land Varicose veins of right lower extremity with ulcer of unspecified site Varicose veins of left lower extremity with ulcer of lower Varicose veins of left lower extremity with ulcer of lankle Varicose veins of left lower extremity with ulcer of heel and midfoo	182891	Chronic embolism and thrombosis of other specified veins
18291 Chronic embolism and thrombosis of unspecified vein 182A NA 182B NA 182C NA 183C NA 1830 Varicose veins of lower extremities with ulcer 18300 Varicose veins of lower extremities with ulcer 18300 Varicose veins of unspecified lower extremity with ulcer 183001 Varicose veins of unspecified lower extremity with ulcer of talf 183002 Varicose veins of unspecified lower extremity with ulcer of ankle 183004 Varicose veins of unspecified lower extremity with ulcer of ankle 183005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot Varicose veins of unspecified lower extremity with ulcer of heel and midfoot Varicose veins of unspecified lower extremity with ulcer other part of foot Varicose veins of unspecified lower extremity with ulcer other part of lower leg Varicose veins of unspecified lower extremity with ulcer of unspecified site 183009 Varicose veins of unspecified lower extremity with ulcer of unspecified site 18301 Varicose veins of right lower extremity with ulcer of talf 183011 Varicose veins of right lower extremity with ulcer of talf 183012 Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of heel and midfoot Varicose veins of right lower extremity with ulcer of heel and midfoot Varicose veins of right lower extremity with ulcer of unspecified site Varicose veins of right lower extremity with ulcer of unspecified site Varicose veins of right lower extremity with ulcer of thigh 183018 Varicose veins of right lower extremity with ulcer of thigh 183021 Varicose veins of left lower extremity with ulcer of thigh 183022 Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity	1829	Embolism and thrombosis of unspecified vein
IB2A NA IB2B NA IB2C NA IB30 Varicose veins of lower extremities IB30 Varicose veins of lower extremities with ulcer IB300 Varicose veins of unspecified lower extremity with ulcer of thigh IB3001 Varicose veins of unspecified lower extremity with ulcer of calf IB3002 Varicose veins of unspecified lower extremity with ulcer of ankle IB3003 Varicose veins of unspecified lower extremity with ulcer of ankle IB3004 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot IB3005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot IB3006 Varicose veins of unspecified lower extremity with ulcer other part of foot IB3007 Varicose veins of unspecified lower extremity with ulcer other part of lower leg IB3009 Varicose veins of unspecified lower extremity with ulcer of unspecified site IB3011 Varicose veins of right lower extremity with ulcer of unspecified site IB3012 Varicose veins of right lower extremity with ulcer of calf IB3013 Varicose veins of right lower extremity with ulcer of calf IB3014 Varicose veins of right lower extremity with ulcer of ankle IB3015 Varicose veins of right lower extremity with ulcer of heel and midfoot IB3016 Varicose veins of right lower extremity with ulcer of heel and midfoot IB3017 Varicose veins of right lower extremity with ulcer of unspecified site IB3018 Varicose veins of right lower extremity with ulcer of unspecified site IB3019 Varicose veins of left lower extremity with ulcer of unspecified site IB3021 Varicose veins of left lower extremity with ulcer of unspecified site IB3022 Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot IB3023 Varicose veins of left lower extremity with ulcer of heel and midfoot IB3024 Varicose veins of left lower extremity with ulcer of heel and midfoot	18290	Acute embolism and thrombosis of unspecified vein
IB2B NA IB2C NA IB3 Varicose veins of lower extremities IB300 Varicose veins of lower extremities with ulcer IB3001 Varicose veins of unspecified lower extremity with ulcer of thigh IB3002 Varicose veins of unspecified lower extremity with ulcer of calf IB3003 Varicose veins of unspecified lower extremity with ulcer of all IB3004 Varicose veins of unspecified lower extremity with ulcer of all IB3005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot IB3006 Varicose veins of unspecified lower extremity with ulcer other part of foot IB3007 Varicose veins of unspecified lower extremity with ulcer other part of foot IB3008 Varicose veins of unspecified lower extremity with ulcer other part of foot unspecified site IB3009 Varicose veins of unspecified lower extremity with ulcer of unspecified site IB3011 Varicose veins of right lower extremity with ulcer of unspecified site IB3012 Varicose veins of right lower extremity with ulcer of calf IB3013 Varicose veins of right lower extremity with ulcer of calf IB3014 Varicose veins of right lower extremity with ulcer of ankle IB3015 Varicose veins of right lower extremity with ulcer of heel and midfoot IB3016 Varicose veins of right lower extremity with ulcer other part of lower leg IB3019 Varicose veins of right lower extremity with ulcer other part of lower leg IB3019 Varicose veins of left lower extremity with ulcer of thigh IB3020 Varicose veins of left lower extremity with ulcer of thigh IB3021 Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot	18291	Chronic embolism and thrombosis of unspecified vein
IB30 Varicose veins of lower extremities IB30 Varicose veins of lower extremities with ulcer IB300 Varicose veins of unspecified lower extremity with ulcer of thigh IB3001 Varicose veins of unspecified lower extremity with ulcer of thigh IB3002 Varicose veins of unspecified lower extremity with ulcer of calf IB3003 Varicose veins of unspecified lower extremity with ulcer of ankle IB3004 Varicose veins of unspecified lower extremity with ulcer of ankle IB3005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot IB3006 Varicose veins of unspecified lower extremity with ulcer other part of foot IB3007 Varicose veins of unspecified lower extremity with ulcer other part of lower leg IB3009 Varicose veins of unspecified lower extremity with ulcer of unspecified site IB3011 Varicose veins of right lower extremity with ulcer of unspecified site IB3011 Varicose veins of right lower extremity with ulcer of thigh IB3012 Varicose veins of right lower extremity with ulcer of calf IB3013 Varicose veins of right lower extremity with ulcer of ankle Varicose veins of right lower extremity with ulcer of heel and midfoot IB3015 Varicose veins of right lower extremity with ulcer other part of lower leg Varicose veins of right lower extremity with ulcer other part of lower leg Varicose veins of right lower extremity with ulcer of unspecified site Varicose veins of left lower extremity with ulcer of unspecified site Varicose veins of left lower extremity with ulcer of thigh Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot	182A	NA
1830 Varicose veins of lower extremities 1830 Varicose veins of lower extremities with ulcer 18300 Varicose veins of unspecified lower extremity with ulcer of thigh 183002 Varicose veins of unspecified lower extremity with ulcer of calf 183003 Varicose veins of unspecified lower extremity with ulcer of ankle 183004 Varicose veins of unspecified lower extremity with ulcer of ankle 183005 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot 183006 Varicose veins of unspecified lower extremity with ulcer of heel and midfoot 183008 Varicose veins of unspecified lower extremity with ulcer other part of foot 183009 Varicose veins of unspecified lower extremity with ulcer of unspecified site 18301 Varicose veins of right lower extremity with ulcer of unspecified site 18301 Varicose veins of right lower extremity with ulcer of thigh 183012 Varicose veins of right lower extremity with ulcer of calf 183013 Varicose veins of right lower extremity with ulcer of ankle 183014 Varicose veins of right lower extremity with ulcer of heel and midfoot 183015 Varicose veins of right lower extremity with ulcer other part of lower leg 183019 Varicose veins of right lower extremity with ulcer other part of lower leg 183021 Varicose veins of left lower extremity with ulcer of unspecified site 183022 Varicose veins of left lower extremity with ulcer of thigh 183023 Varicose veins of left lower extremity with ulcer of ankle 183024 Varicose veins of left lower extremity with ulcer of ankle 183025 Varicose veins of left lower extremity with ulcer of heel and midfoot 183026 Varicose veins of left lower extremity with ulcer of ankle 183027 Varicose veins of left lower extremity with ulcer of ankle 183028 Varicose veins of left lower extremity with ulcer of heel and midfoot 183029 Varicose veins of left lower extremity with ulcer of heel and midfoot 183020 Varic	182B	NA
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and midfoot 183005 Varicose veins of unspecified lower extremity with ulcer other part of foot 183008 Varicose veins of unspecified lower extremity with ulcer other part of lower leg 183009 Varicose veins of unspecified lower extremity with ulcer of unspecified site 18301 Varicose veins of right lower extremity with ulcer of thigh 183012 Varicose veins of right lower extremity with ulcer of calf 183013 Varicose veins of right lower extremity with ulcer of ankle 183014 Varicose veins of right lower extremity with ulcer of heel and midfoot 183015 Varicose veins of right lower extremity with ulcer other part of foot 183016 Varicose veins of right lower extremity with ulcer other part of lower leg 183018 Varicose veins of right lower extremity with ulcer other part of lower leg 183019 Varicose veins of right lower extremity with ulcer of unspecified site 18302 Varicose veins of left lower extremity with ulcer of thigh 183021 Varicose veins of left lower extremity with ulcer of calf 183022 Varicose veins of left lower extremity with ulcer of ankle 183024 Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot	 183003	Varicose veins of unspecified lower extremity with ulcer of ankle
183008 Part of foot	183004	,
183008 part of lower leg	 183005	
unspecified site 18301 Varicose veins of right lower extremity with ulcer 183011 Varicose veins of right lower extremity with ulcer of thigh 183012 Varicose veins of right lower extremity with ulcer of calf 183013 Varicose veins of right lower extremity with ulcer of ankle 183014 Varicose veins of right lower extremity with ulcer of heel and midfoot 183015 Varicose veins of right lower extremity with ulcer other part of foot 183018 Varicose veins of right lower extremity with ulcer other part of lower leg 183019 Varicose veins of right lower extremity with ulcer of unspecified site 18302 Varicose veins of left lower extremity with ulcer 183021 Varicose veins of left lower extremity with ulcer of thigh 183022 Varicose veins of left lower extremity with ulcer of calf 183023 Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer of heel and midfoot	183008	· ·
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183015 foot	183014	
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183023 Varicose veins of left lower extremity with ulcer of ankle Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer other part of	183021	Varicose veins of left lower extremity with ulcer of thigh
Varicose veins of left lower extremity with ulcer of heel and midfoot Varicose veins of left lower extremity with ulcer other part of	183022	Varicose veins of left lower extremity with ulcer of calf
midfoot Varicose veins of left lower extremity with ulcer other part of	183023	Varicose veins of left lower extremity with ulcer of ankle
IX3075	183024	·
	183025	,

183028	Varicose veins of left lower extremity with ulcer other part of lower leg
183029	Varicose veins of left lower extremity with ulcer of unspecified site
1831	Varicose veins of lower extremities with inflammation
I8310	Varicose veins of unspecified lower extremity with inflammation
I8311	Varicose veins of right lower extremity with inflammation
18312	Varicose veins of left lower extremity with inflammation
1832	Varicose veins of lower extremities with both ulcer and inflammation
18320	Varicose veins of unspecified lower extremity with both ulcer and inflammation
183201	Varicose veins of unspecified lower extremity with both ulcer of thigh and inflammation
183202	Varicose veins of unspecified lower extremity with both ulcer of calf and inflammation
183203	Varicose veins of unspecified lower extremity with both ulcer of ankle and inflammation
183204	Varicose veins of unspecified lower extremity with both ulcer of heel and midfoot and inflammation
183205	Varicose veins of unspecified lower extremity with both ulcer other part of foot and inflammation
183208	Varicose veins of unspecified lower extremity with both ulcer of other part of lower extremity and inflammation
183209	Varicose veins of unspecified lower extremity with both ulcer of unspecified site and inflammation
18321	Varicose veins of right lower extremity with both ulcer and inflammation
183211	Varicose veins of right lower extremity with both ulcer of thigh and inflammation
 183212	Varicose veins of right lower extremity with both ulcer of calf and inflammation
183213	Varicose veins of right lower extremity with both ulcer of ankle and inflammation
183214	Varicose veins of right lower extremity with both ulcer of heel and midfoot and inflammation
I83215	Varicose veins of right lower extremity with both ulcer other part of foot and inflammation
183218	Varicose veins of right lower extremity with both ulcer of other part of lower extremity and inflammation
183219	Varicose veins of right lower extremity with both ulcer of unspecified site and inflammation

18322	Varicose veins of left lower extremity with both ulcer and inflammation
183221	Varicose veins of left lower extremity with both ulcer of thigh and inflammation
183222	Varicose veins of left lower extremity with both ulcer of calf and inflammation
183223	Varicose veins of left lower extremity with both ulcer of ankle and inflammation
183224	Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation
183225	Varicose veins of left lower extremity with both ulcer other part of foot and inflammation
183228	Varicose veins of left lower extremity with both ulcer of other part of lower extremity and inflammation
183229	Varicose veins of left lower extremity with both ulcer of unspecified site and inflammation
1838	Varicose veins of lower extremities with other complications
18381	Varicose veins of lower extremities with pain
183811	Varicose veins of right lower extremities with pain
183812	Varicose veins of left lower extremities with pain
183813	Varicose veins of bilateral lower extremities with pain
183819	Varicose veins of unspecified lower extremities with pain
18389	Varicose veins of lower extremities with other complications
183891	Varicose veins of right lower extremities with other complications
183892	Varicose veins of left lower extremities with other complications
183893	Varicose veins of bilateral lower extremities with other complications
183899	Varicose veins of unspecified lower extremities with other complications
1839	Asymptomatic varicose veins of lower extremities
18390	Asymptomatic varicose veins of unspecified lower extremity
18391	Asymptomatic varicose veins of right lower extremity
18392	Asymptomatic varicose veins of left lower extremity
18393	Asymptomatic varicose veins of bilateral lower extremities
1860	Sublingual varices
I861	Scrotal varices
1862	Pelvic varices
1863	Vulval varices
1864	Gastric varices
1868	Varicose veins of other specified sites
1870	Postthrombotic syndrome
18700	Postthrombotic syndrome without complications

1	187001	Postthrombotic syndrome without complications of right lower extremity
	187002	Postthrombotic syndrome without complications of left lower extremity
	187003	Postthrombotic syndrome without complications of bilateral lower extremity
	187009	Postthrombotic syndrome without complications of unspecified extremity
	18701	Postthrombotic syndrome with ulcer
I	187011	Postthrombotic syndrome with ulcer of right lower extremity
1	187012	Postthrombotic syndrome with ulcer of left lower extremity
	187013	Postthrombotic syndrome with ulcer of bilateral lower extremity
	187019	Postthrombotic syndrome with ulcer of unspecified lower extremity
	18702	Postthrombotic syndrome with inflammation
	187021	Postthrombotic syndrome with inflammation of right lower extremity
1	187022	Postthrombotic syndrome with inflammation of left lower extremity
	187023	Postthrombotic syndrome with inflammation of bilateral lower extremity
	187029	Postthrombotic syndrome with inflammation of unspecified lower extremity
	18703	Postthrombotic syndrome with ulcer and inflammation
	187031	Postthrombotic syndrome with ulcer and inflammation of right lower extremity
1	187032	Postthrombotic syndrome with ulcer and inflammation of left lower extremity
1	187033	Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity
1	187039	Postthrombotic syndrome with ulcer and inflammation of unspecified lower extremity
	18709	Postthrombotic syndrome with other complications
1	187091	Postthrombotic syndrome with other complications of right lower extremity
1	187092	Postthrombotic syndrome with other complications of left lower extremity
	187093	Postthrombotic syndrome with other complications of bilateral lower extremity
1	187099	Postthrombotic syndrome with other complications of unspecified lower extremity
	I871	Compression of vein
	1890	Lymphedema, not elsewhere classified

	1898	Other specified noninfective disorders of lymphatic vessels and lymph nodes
	1899	Noninfective disorder of lymphatic vessels and lymph nodes, unspecified
	M318	Other specified necrotizing vasculopathies
	M319	Necrotizing vasculopathy, unspecified
Peripheral Arterial Disease	1670	Dissection of cerebral arteries, nonruptured
	1702	Atherosclerosis of native arteries of the extremities
	17020	Unspecified atherosclerosis of native arteries of extremities
	170201	Unspecified atherosclerosis of native arteries of extremities, right leg
	170202	Unspecified atherosclerosis of native arteries of extremities, left leg
	170203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs
	170208	Unspecified atherosclerosis of native arteries of extremities, other extremity
	170209	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity
	17021	Atherosclerosis of native arteries of extremities with intermittent claudication
	170211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg
	170212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg
	170213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs
	170218	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity
	170219	Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity
	17022	Atherosclerosis of native arteries of extremities with rest pain
	170221	Atherosclerosis of native arteries of extremities with rest pain, right leg
	170222	Atherosclerosis of native arteries of extremities with rest pain, left leg
	170223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
	170228	Atherosclerosis of native arteries of extremities with rest pain, other extremity
	170229	Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity
	17023	Atherosclerosis of native arteries of right leg with ulceration

170231	Atherosclerosis of native arteries of right leg with ulceration of thigh
170232	Atherosclerosis of native arteries of right leg with ulceration of calf
170233	Atherosclerosis of native arteries of right leg with ulceration of ankle
170234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot
170235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot
170238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg
170239	Atherosclerosis of native arteries of right leg with ulceration of unspecified site
17024	Atherosclerosis of native arteries of left leg with ulceration
170241	Atherosclerosis of native arteries of left leg with ulceration of thigh
170242	Atherosclerosis of native arteries of left leg with ulceration of calf
170243	Atherosclerosis of native arteries of left leg with ulceration of ankle
170244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot
170245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot
170248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg
170249	Atherosclerosis of native arteries of left leg with ulceration of unspecified site
17025	Atherosclerosis of native arteries of other extremities with ulceration
17026	Atherosclerosis of native arteries of extremities with gangrene
170261	Atherosclerosis of native arteries of extremities with gangrene, right leg
170262	Atherosclerosis of native arteries of extremities with gangrene, left leg
170263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs
170268	Atherosclerosis of native arteries of extremities with gangrene, other extremity
170269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity
17029	Other atherosclerosis of native arteries of extremities
170291	Other atherosclerosis of native arteries of extremities, right leg

170292	Other atherosclerosis of native arteries of extremities, left leg
170293	Other atherosclerosis of native arteries of extremities, bilateral legs
170298	Other atherosclerosis of native arteries of extremities, other extremity
170299	Other atherosclerosis of native arteries of extremities, unspecified extremity
1703	Atherosclerosis of unspecified type of bypass graft(s) of the extremities
17030	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities
170301	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
170302	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
170303	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
170308	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
170309	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
17031	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication
170311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg
170312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg
170313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity
170319	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
17032	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain
170321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg
170322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg
170323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs
170328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity

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170329	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity
17033	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration
170331	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh
170332	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf
170333	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle
170334	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot
170335	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot
170338	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg
170339	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site
17034	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration
170341	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh
170342	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf
170343	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle
170344	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot
170345	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot
170348	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg
170349	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site
17035	Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration
17036	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene
170361	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg
170362	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg
170348 170349 17035 17036	leg with ulceration of other part of foot Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg Atherosclerosis of unspecified type of bypass graft(s) of the

170363	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs
170368	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity
170369	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity
17039	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities
170391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
170392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
170393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
170398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
170399	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
1704	Atherosclerosis of autologous vein bypass graft(s) of the extremities
17040	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities
170401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
170402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
170403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
170408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
170409	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity
17041	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication
170411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
170412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
170413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity
170419	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity

17042	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain
170421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
170422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
170423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
170428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity
170429	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity
17043	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration
I70431	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh
170432	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf
170433	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle
170434	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot
170435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot
170438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg
170439	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site
17044	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration
170441	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh
170442	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf
170443	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle
170444	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot
170445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot
170448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg

170449	Atherosclerosis of autologous vein bypass graft(s) of the left leg
170449	with ulceration of unspecified site
17045	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration
17046	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene
170461	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg
170462	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg
170463	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs
170468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity
170469	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity
17049	Other atherosclerosis of autologous vein bypass graft(s) of the extremities
170491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
170492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
170493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
170498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
170499	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity
1705	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities
17050	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities
170501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
170502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
170503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
170508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
170509	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity

17051	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities intermittent claudication
170511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
170512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
170513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity
170519	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
17052	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain
170521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
170522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg
170523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
170528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity
170529	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity
17053	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration
170531	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh
170532	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf
170533	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle
170534	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot
170535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot
170538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg
170539	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site
17054	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration

Atherosclerosis of nonautologous biological bypass graft(s) of
the left leg with ulceration of thigh
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg
Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site
Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity
Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity
Atherosclerosis of nonbiological bypass graft(s) of the extremities
Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities

	Unspecified atherosclerosis of nonbiological bypass graft(s) of
170601	the extremities, right leg
170602	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
170603	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
170608	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
170609	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
17061	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication
170611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg
170612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg
170613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity
170619	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
17062	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain
170621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg
170622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg
170623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs
170628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity
170629	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity
17063	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration
170631	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh
170632	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf
170633	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle

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Γ	70692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
Г	70693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
ı	70698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
I	70699	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
	1707	Atherosclerosis of other type of bypass graft(s) of the extremities
	17070	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities
ľ	70701	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg
ı	70702	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg
ı	70703	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
I	70708	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
ı	70709	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
	17071	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication
I	70711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg
Г	70712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg
ı	70713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ľ	70718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity
ı	70719	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
	17072	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain
I I	70721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg
l'	70722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg
I I	70723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs
	70728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity

170729	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity
17073	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration
170731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh
170732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf
170733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle
170734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot
170735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot
170738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg
170739	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site
17074	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration
170741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh
170742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf
170743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle
170744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot
170745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot
170748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg
170749	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site
17075	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration
17076	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene
170761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg
170762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg

	170763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs
	170768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity
	170769	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity
	17079	Other atherosclerosis of other type of bypass graft(s) of the extremities
	170791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg
	170792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg
	170793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
	170798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
	170799	Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
	1708	Atherosclerosis of other arteries
	1709	Other and unspecified atherosclerosis
	17090	Unspecified atherosclerosis
	17091	Generalized atherosclerosis
	17092	Chronic total occlusion of artery of the extremities
	173	Other peripheral vascular diseases
	1730	Raynaud's syndrome
	17300	Raynaud's syndrome without gangrene
	17301	Raynaud's syndrome with gangrene
	1731	Thromboangiitis obliterans [Buerger's disease]
	1738	Other specified peripheral vascular diseases
	17381	Erythromelalgia
	17389	Other specified peripheral vascular diseases
	1739	Peripheral vascular disease, unspecified
	1791	Aortitis in diseases classified elsewhere
	1798	Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere
Rheumatic Heart Disease	101	Rheumatic fever with heart involvement
	1010	Acute rheumatic pericarditis
	1011	Acute rheumatic endocarditis
	1012	Acute rheumatic myocarditis
	1018	Other acute rheumatic heart disease
	1019	Acute rheumatic heart disease, unspecified
	1020	Rheumatic chorea with heart involvement
	105	Rheumatic mitral valve diseases

	1050	Rheumatic mitral stenosis
	1051	Rheumatic mitral insufficiency
	1052	Rheumatic mitral stenosis with insufficiency
	1058	Other rheumatic mitral valve diseases
	1059	Rheumatic mitral valve disease, unspecified
	106	Rheumatic aortic valve diseases
	1060	Rheumatic aortic stenosis
	1061	Rheumatic aortic insufficiency
	1062	Rheumatic aortic stenosis with insufficiency
	1068	Other rheumatic aortic valve diseases
	1069	Rheumatic aortic valve disease, unspecified
	107	Rheumatic tricuspid valve diseases
	1070	Rheumatic tricuspid stenosis
	1071	Rheumatic tricuspid insufficiency
	1072	Rheumatic tricuspid stenosis and insufficiency
	1078	Other rheumatic tricuspid valve diseases
	1079	Rheumatic tricuspid valve disease, unspecified
	108	Multiple valve diseases
	1080	Rheumatic disorders of both mitral and aortic valves
	1081	Rheumatic disorders of both mitral and tricuspid valves
	1082	Rheumatic disorders of both aortic and tricuspid valves
	1083	Combined rheumatic disorders of mitral, aortic and tricuspid valves
	1088	Other rheumatic multiple valve diseases
	1089	Rheumatic multiple valve disease, unspecified
	109	Other rheumatic heart diseases
	1090	Rheumatic myocarditis
	1091	Rheumatic diseases of endocardium, valve unspecified
	1092	Chronic rheumatic pericarditis
	1098	Other specified rheumatic heart diseases
	10981	Rheumatic heart failure
	10989	Other specified rheumatic heart diseases
	1099	Rheumatic heart disease, unspecified
Cerebrovascular Disease	G45	Transient cerebral ischemic attacks and related syndromes
	G450	Vertebro-basilar artery syndrome
	G451	Carotid artery syndrome (hemispheric)
	G452	Multiple and bilateral precerebral artery syndromes
	G454	Transient global amnesia
	G458	Other transient cerebral ischemic attacks and related syndromes
	G459	Transient cerebral ischemic attack, unspecified
	G46	Vascular syndromes of brain in cerebrovascular diseases
	G460	Middle cerebral artery syndrome
	G461	Anterior cerebral artery syndrome

G462	Posterior cerebral artery syndrome
G463	Brain stem stroke syndrome
G464	Cerebellar stroke syndrome
G465	Pure motor lacunar syndrome
G466	Pure sensory lacunar syndrome
G467	Other lacunar syndromes
G468	Other vascular syndromes of brain in cerebrovascular diseases
160	Nontraumatic subarachnoid hemorrhage
1600	Nontraumatic subarachnoid hemorrhage from carotid siphon and bifurcation
16000	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation
16001	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation
16002	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation
1601	Nontraumatic subarachnoid hemorrhage from middle cerebral artery
16010	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery
16011	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery
16012	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery
1602	Nontraumatic subarachnoid hemorrhage from anterior communicating artery
16020	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery
16021	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery
16022	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery
1603	Nontraumatic subarachnoid hemorrhage from posterior communicating artery
16030	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery
16031	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery
16032	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery
1604	Nontraumatic subarachnoid hemorrhage from basilar artery
1605	Nontraumatic subarachnoid hemorrhage from vertebral artery

16050	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery
16051	Nontraumatic subarachnoid hemorrhage from right vertebral artery
16052	Nontraumatic subarachnoid hemorrhage from left vertebral artery
1606	Nontraumatic subarachnoid hemorrhage from other intracranial arteries
1607	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery
1608	Other nontraumatic subarachnoid hemorrhage
1609	Nontraumatic subarachnoid hemorrhage, unspecified
l61	Nontraumatic intracerebral hemorrhage
1610	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical
l611	Nontraumatic intracerebral hemorrhage in hemisphere, cortical
I612	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified
I613	Nontraumatic intracerebral hemorrhage in brain stem
1614	Nontraumatic intracerebral hemorrhage in cerebellum
1615	Nontraumatic intracerebral hemorrhage, intraventricular
1616	Nontraumatic intracerebral hemorrhage, multiple localized
I618	Other nontraumatic intracerebral hemorrhage
1619	Nontraumatic intracerebral hemorrhage, unspecified
162	Other and unspecified nontraumatic intracranial hemorrhage
1621	Nontraumatic extradural hemorrhage
1629	Nontraumatic intracranial hemorrhage, unspecified
163	Cerebral infarction
1630	Cerebral infarction due to thrombosis of precerebral arteries
16300	Cerebral infarction due to thrombosis of unspecified precerebral artery
I6301	Cerebral infarction due to thrombosis of vertebral artery
163011	Cerebral infarction due to thrombosis of right vertebral artery
I63012	Cerebral infarction due to thrombosis of left vertebral artery
163019	Cerebral infarction due to thrombosis of unspecified vertebral artery
16302	Cerebral infarction due to thrombosis of basilar artery
16303	Cerebral infarction due to thrombosis of carotid artery
163031	Cerebral infarction due to thrombosis of right carotid artery
163032	Cerebral infarction due to thrombosis of left carotid artery
163039	Cerebral infarction due to thrombosis of unspecified carotid artery
16309	Cerebral infarction due to thrombosis of other precerebral artery

I631	Cerebral infarction due to embolism of precerebral arteries
16310	Cerebral infarction due to embolism of unspecified precerebral artery
I6311	Cerebral infarction due to embolism of vertebral artery
I63111	Cerebral infarction due to embolism of right vertebral artery
I63112	Cerebral infarction due to embolism of left vertebral artery
163119	Cerebral infarction due to embolism of unspecified vertebral artery
16312	Cerebral infarction due to embolism of basilar artery
I6313	Cerebral infarction due to embolism of carotid artery
I63131	Cerebral infarction due to embolism of right carotid artery
163132	Cerebral infarction due to embolism of left carotid artery
163139	Cerebral infarction due to embolism of unspecified carotid artery
16319	Cerebral infarction due to embolism of other precerebral artery
1632	Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries
16320	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
16321	Cerebral infarction due to unspecified occlusion or stenosis of vertebral arteries
163211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries
163212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries
163219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries
16322	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries
16323	Cerebral infarction due to unspecified occlusion or stenosis of carotid arteries
I63231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
163232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
163239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries
16329	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries
1633	Cerebral infarction due to thrombosis of cerebral arteries
16330	Cerebral infarction due to thrombosis of unspecified cerebral artery
I6331	Cerebral infarction due to thrombosis of middle cerebral artery

163311	Cerebral infarction due to thrombosis of right middle cerebral
	artery Cerebral infarction due to thrombosis of left middle cerebral
163312	artery
163319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I6332	Cerebral infarction due to thrombosis of anterior cerebral artery
163321	Cerebral infarction due to thrombosis of right anterior cerebral artery
163322	Cerebral infarction due to thrombosis of left anterior cerebral artery
163329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
16333	Cerebral infarction due to thrombosis of posterior cerebral artery
163331	Cerebral infarction due to thrombosis of right posterior cerebral artery
163332	Cerebral infarction due to thrombosis of left posterior cerebral artery
163339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
16334	Cerebral infarction due to thrombosis of cerebellar artery
l63341	Cerebral infarction due to thrombosis of right cerebellar artery
163342	Cerebral infarction due to thrombosis of left cerebellar artery
163349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
16339	Cerebral infarction due to thrombosis of other cerebral artery
1634	Cerebral infarction due to embolism of cerebral arteries
16340	Cerebral infarction due to embolism of unspecified cerebral artery
l6341	Cerebral infarction due to embolism of middle cerebral artery
163411	Cerebral infarction due to embolism of right middle cerebral
163412	Cerebral infarction due to embolism of left middle cerebral artery
163419	Cerebral infarction due to embolism of unspecified middle cerebral artery
16342	Cerebral infarction due to embolism of anterior cerebral artery
163421	artery
163422	artery
163429	Cerebral infarction due to embolism of unspecified anterior cerebral artery
16343	Cerebral infarction due to embolism of posterior cerebral artery

163431	Cerebral infarction due to embolism of right posterior cerebral artery
163432	Cerebral infarction due to embolism of left posterior cerebral artery
163439	Cerebral infarction due to embolism of unspecified posterior cerebral artery
16344	Cerebral infarction due to embolism of cerebellar artery
163441	Cerebral infarction due to embolism of right cerebellar artery
163442	Cerebral infarction due to embolism of left cerebellar artery
163449	Cerebral infarction due to embolism of unspecified cerebellar artery
16349	Cerebral infarction due to embolism of other cerebral artery
1635	Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries
16350	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery
16351	Cerebral infarction due to unspecified occlusion or stenosis of middle cerebral artery
163511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery
163512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery
163519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery
16352	Cerebral infarction due to unspecified occlusion or stenosis of anterior cerebral artery
 163521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery
163522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery
163529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery
16353	Cerebral infarction due to unspecified occlusion or stenosis of posterior cerebral artery
163531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
163532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery
163539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
16354	Cerebral infarction due to unspecified occlusion or stenosis of cerebellar artery
163541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery

163542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
163549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
16359	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery
1636	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
1637	
1638	Other cerebral infarction
1639	Cerebral infarction, unspecified
164	Stroke, not specified as haemorrhage or infarction
1641	Stroke, not specified as haemorrhage or infarction
165	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction
1650	Occlusion and stenosis of vertebral artery
I6501	Occlusion and stenosis of right vertebral artery
16502	Occlusion and stenosis of left vertebral artery
16503	Occlusion and stenosis of bilateral vertebral arteries
16509	Occlusion and stenosis of unspecified vertebral artery
l651	Occlusion and stenosis of basilar artery
1652	Occlusion and stenosis of carotid artery
I6521	Occlusion and stenosis of right carotid artery
16522	Occlusion and stenosis of left carotid artery
16523	Occlusion and stenosis of bilateral carotid arteries
16529	Occlusion and stenosis of unspecified carotid artery
1653	Occlusion and stenosis of multiple and bilateral precerebral arteries
1658	Occlusion and stenosis of other precerebral arteries
1659	Occlusion and stenosis of unspecified precerebral artery
166	Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction
1660	Occlusion and stenosis of middle cerebral artery
I6601	Occlusion and stenosis of right middle cerebral artery
16602	Occlusion and stenosis of left middle cerebral artery
16603	Occlusion and stenosis of bilateral middle cerebral arteries
16609	Occlusion and stenosis of unspecified middle cerebral artery
I661	Occlusion and stenosis of anterior cerebral artery
I6611	Occlusion and stenosis of right anterior cerebral artery
I6612	Occlusion and stenosis of left anterior cerebral artery
I6613	Occlusion and stenosis of bilateral anterior cerebral arteries
I6619	Occlusion and stenosis of unspecified anterior cerebral artery
1662	Occlusion and stenosis of posterior cerebral artery

	16621	Occlusion and stenosis of right posterior cerebral artery
	16622	Occlusion and stenosis of left posterior cerebral artery
	16623	Occlusion and stenosis of bilateral posterior cerebral arteries
	16629	Occlusion and stenosis of unspecified posterior cerebral artery
		Occlusion and stenosis of unspectned posterior cerebral artery Occlusion and stenosis of cerebellar arteries
	1663	
	1664	Occlusion and stenosis of multiple and bilateral cerebral arteries
	1668	Occlusion and stenosis of other cerebral arteries
	1669	Occlusion and stenosis of unspecified cerebral artery
	167	Other cerebrovascular diseases
	1671	Cerebral aneurysm, nonruptured
	1672	Cerebral atherosclerosis
	1674	Hypertensive encephalopathy
	1675	Moyamoya disease
	1676	Nonpyogenic thrombosis of intracranial venous system
	1677	Cerebral arteritis, not elsewhere classified
	1678	Other specified cerebrovascular diseases
	16781	Acute cerebrovascular insufficiency
	16782	Cerebral ischemia
	16783	Posterior reversible encephalopathy syndrome
	16784	Cerebral vasospasm and vasoconstriction
I	67841	Reversible cerebrovascular vasoconstriction syndrome
I	67848	Other cerebrovascular vasospasm and vasoconstriction
	16789	Other cerebrovascular disease
	1679	Cerebrovascular disease, unspecified
	168	Cerebrovascular disorders in diseases classified elsewhere
	1680	Cerebral amyloid angiopathy
	1681	Other cerebrovascular disorders in diseases classified elsewhere
	1682	Cerebral arteritis in other diseases classified elsewhere
	1688	Other cerebrovascular disorders in diseases classified elsewhere
	169	Sequelae of cerebrovascular disease
	1690	Sequelae of nontraumatic subarachnoid hemorrhage
	16900	Unspecified sequelae of nontraumatic subarachnoid hemorrhage
	16901	Cognitive deficits following nontraumatic subarachnoid hemorrhage
	16902	Speech and language deficits following nontraumatic subarachnoid hemorrhage
ı	69020	Aphasia following nontraumatic subarachnoid hemorrhage
1	69021	Dysphasia following nontraumatic subarachnoid hemorrhage
ı	69022	Dysarthria following nontraumatic subarachnoid hemorrhage
I	69023	Fluency disorder following nontraumatic subarachnoid hemorrhage

169028	Other speech and language deficits following nontraumatic subarachnoid hemorrhage
16903	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage
169031	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting right dominant side
169032	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting left dominant side
169033	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting right non-dominant side
169034	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting left non-dominant side
169039	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting unspecified side
16904	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage
169041	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting right dominant side
169042	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting left dominant side
169043	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting right non-dominant side
169044	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting left non-dominant side
169049	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting unspecified side
16905	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage
169051	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting right dominant side
169052	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting left dominant side
169053	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting right non-dominant side
169054	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting left non-dominant side
169059	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting unspecified side
16906	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage
169061	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting right dominant side

169062	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting left dominant side
169063	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting right non-dominant side
169064	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting left non-dominant side
169065	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage, bilateral
169069	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting unspecified side
16909	Other sequelae of nontraumatic subarachnoid hemorrhage
169090	Apraxia following nontraumatic subarachnoid hemorrhage
169091	Dysphagia following nontraumatic subarachnoid hemorrhage
169092	Facial weakness following nontraumatic subarachnoid hemorrhage
169093	Ataxia following nontraumatic subarachnoid hemorrhage
169098	Other sequelae following nontraumatic subarachnoid hemorrhage
1691	Sequelae of nontraumatic intracerebral hemorrhage
16910	Unspecified sequelae of nontraumatic intracerebral hemorrhage
l6911	Cognitive deficits following nontraumatic intracerebral hemorrhage
16912	Speech and language deficits following nontraumatic intracerebral hemorrhage
169120	Aphasia following nontraumatic intracerebral hemorrhage
169121	Dysphasia following nontraumatic intracerebral hemorrhage
169122	Dysarthria following nontraumatic intracerebral hemorrhage
169123	Fluency disorder following nontraumatic intracerebral hemorrhage
169128	Other speech and language deficits following nontraumatic intracerebral hemorrhage
l6913	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage
169131	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting right dominant side
169132	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting left dominant side
169133	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting right non-dominant side
169134	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting left non-dominant side
169139	Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting unspecified side

	Monoplegia of lower limb following nontraumatic intracerebral
16914	hemorrhage
169141	Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting right dominant side
169142	Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting left dominant side
169143	Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting right non-dominant side
169144	Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting left non-dominant side
169149	Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting unspecified side
16915	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage
169151	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting right dominant side
169152	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting left dominant side
169153	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting right non-dominant side
169154	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting left non-dominant side
169159	Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting unspecified side
16916	Other paralytic syndrome following nontraumatic intracerebral hemorrhage
169161	Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting right dominant side
169162	Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting left dominant side
169163	Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting right non-dominant side
169164	Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting left non-dominant side
169165	Other paralytic syndrome following nontraumatic intracerebral hemorrhage, bilateral
169169	Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting unspecified side
16919	Other sequelae of nontraumatic intracerebral hemorrhage
169190	Apraxia following nontraumatic intracerebral hemorrhage
169191	Dysphagia following nontraumatic intracerebral hemorrhage
169192	Facial weakness following nontraumatic intracerebral hemorrhage

169193	Ataxia following nontraumatic intracerebral hemorrhage
169198	Other sequelae of nontraumatic intracerebral hemorrhage
1692	Sequelae of other nontraumatic intracranial hemorrhage
16920	Unspecified sequelae of other nontraumatic intracranial hemorrhage
16921	Cognitive deficits following other nontraumatic intracranial hemorrhage
16922	Speech and language deficits following other nontraumatic intracranial hemorrhage
169220	Aphasia following other nontraumatic intracranial hemorrhage
169221	Dysphasia following other nontraumatic intracranial hemorrhage
169222	Dysarthria following other nontraumatic intracranial hemorrhage
169223	Fluency disorder following other nontraumatic intracranial hemorrhage
169228	Other speech and language deficits following other nontraumatic intracranial hemorrhage
16923	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage
169231	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting right dominant side
169232	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting left dominant side
169233	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting right non-dominant side
169234	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting left non-dominant side
169239	Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting unspecified side
16924	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage
169241	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting right dominant side
169242	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting left dominant side
169243	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting right non-dominant side
169244	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting left non-dominant side
169249	Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting unspecified side
16925	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage

169251	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting right dominant side
169252	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting left dominant side
169253	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting right non-dominant side
169254	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting left non-dominant side
169259	Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting unspecified side
16926	Other paralytic syndrome following other nontraumatic intracranial hemorrhage
169261	Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting right dominant side
169262	Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting left dominant side
 169263	Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting right non-dominant side
169264	Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting left non-dominant side
169265	Other paralytic syndrome following other nontraumatic intracranial hemorrhage, bilateral
169269	Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting unspecified side
16929	Other sequelae of other nontraumatic intracranial hemorrhage
169290	Apraxia following other nontraumatic intracranial hemorrhage
169291	Dysphagia following other nontraumatic intracranial hemorrhage
169292	Facial weakness following other nontraumatic intracranial hemorrhage
169293	Ataxia following other nontraumatic intracranial hemorrhage
169298	Other sequelae of other nontraumatic intracranial hemorrhage
1693	Sequelae of cerebral infarction
16930	Unspecified sequelae of cerebral infarction
16931	Cognitive deficits following cerebral infarction
16932	Speech and language deficits following cerebral infarction
169320	Aphasia following cerebral infarction
169321	Dysphasia following cerebral infarction
169322	Dysarthria following cerebral infarction
169323	Fluency disorder following cerebral infarction
169328	Other speech and language deficits following cerebral infarction
16933	Monoplegia of upper limb following cerebral infarction

169331	Monoplegia of upper limb following cerebral infarction affecting right dominant side
169332	Monoplegia of upper limb following cerebral infarction affecting left dominant side
169333	Monoplegia of upper limb following cerebral infarction affecting right non-dominant side
169334	Monoplegia of upper limb following cerebral infarction affecting left non-dominant side
169339	Monoplegia of upper limb following cerebral infarction affecting unspecified side
16934	Monoplegia of lower limb following cerebral infarction
169341	Monoplegia of lower limb following cerebral infarction affecting right dominant side
169342	Monoplegia of lower limb following cerebral infarction affecting left dominant side
 169343	Monoplegia of lower limb following cerebral infarction affecting right non-dominant side
169344	Monoplegia of lower limb following cerebral infarction affecting left non-dominant side
169349	Monoplegia of lower limb following cerebral infarction affecting unspecified side
16935	Hemiplegia and hemiparesis following cerebral infarction
169351	Hemiplegia and hemiparesis following cerebral infarction affecting right dominant side
169352	Hemiplegia and hemiparesis following cerebral infarction affecting left dominant side
169353	Hemiplegia and hemiparesis following cerebral infarction affecting right non-dominant side
169354	Hemiplegia and hemiparesis following cerebral infarction affecting left non-dominant side
169359	Hemiplegia and hemiparesis following cerebral infarction affecting unspecified side
16936	Other paralytic syndrome following cerebral infarction
169361	Other paralytic syndrome following cerebral infarction affecting right dominant side
169362	Other paralytic syndrome following cerebral infarction affecting left dominant side
169363	Other paralytic syndrome following cerebral infarction affecting right non-dominant side
169364	Other paralytic syndrome following cerebral infarction affecting left non-dominant side
169365	Other paralytic syndrome following cerebral infarction, bilateral

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	169369	Other paralytic syndrome following cerebral infarction affecting unspecified side
	16939	Other sequelae of cerebral infarction
	169390	Apraxia following cerebral infarction
	169391	Dysphagia following cerebral infarction
	169392	Facial weakness following cerebral infarction
	169393	Ataxia following cerebral infarction
	169398	Other sequelae of cerebral infarction
	1694	Sequelae of stroke, not specified as haemorrhage or infarction
	1698	Sequelae of other cerebrovascular diseases
	16980	Unspecified sequelae of other cerebrovascular disease
	16981	Cognitive deficits following other cerebrovascular disease
	16982	Speech and language deficits following other cerebrovascular disease
	169820	Aphasia following other cerebrovascular disease
	169821	Dysphasia following other cerebrovascular disease
	169822	Dysarthria following other cerebrovascular disease
	169823	Fluency disorder following other cerebrovascular disease
	169828	Other speech and language deficits following other cerebrovascular disease
	16983	Monoplegia of upper limb following other cerebrovascular disease
	169831	Monoplegia of upper limb following other cerebrovascular disease affecting right dominant side
	169832	Monoplegia of upper limb following other cerebrovascular disease affecting left dominant side
	169833	Monoplegia of upper limb following other cerebrovascular disease affecting right non-dominant side
	169834	Monoplegia of upper limb following other cerebrovascular disease affecting left non-dominant side
	169839	Monoplegia of upper limb following other cerebrovascular disease affecting unspecified side
	16984	Monoplegia of lower limb following other cerebrovascular disease
	169841	Monoplegia of lower limb following other cerebrovascular disease affecting right dominant side
	169842	Monoplegia of lower limb following other cerebrovascular disease affecting left dominant side
	169843	Monoplegia of lower limb following other cerebrovascular disease affecting right non-dominant side
	169844	Monoplegia of lower limb following other cerebrovascular disease affecting left non-dominant side

	169849	Monoplegia of lower limb following other cerebrovascular disease affecting unspecified side
	16985	Hemiplegia and hemiparesis following other cerebrovascular disease
	169851	Hemiplegia and hemiparesis following other cerebrovascular disease affecting right dominant side
	169852	Hemiplegia and hemiparesis following other cerebrovascular disease affecting left dominant side
	169853	Hemiplegia and hemiparesis following other cerebrovascular disease affecting right non-dominant side
	169854	Hemiplegia and hemiparesis following other cerebrovascular disease affecting left non-dominant side
	169859	Hemiplegia and hemiparesis following other cerebrovascular disease affecting unspecified side
	16986	Other paralytic syndrome following other cerebrovascular disease
	169861	Other paralytic syndrome following other cerebrovascular disease affecting right dominant side
	169862	Other paralytic syndrome following other cerebrovascular disease affecting left dominant side
	169863	Other paralytic syndrome following other cerebrovascular disease affecting right non-dominant side
	169864	Other paralytic syndrome following other cerebrovascular disease affecting left non-dominant side
	169865	Other paralytic syndrome following other cerebrovascular disease, bilateral
	169869	Other paralytic syndrome following other cerebrovascular disease affecting unspecified side
	16989	Other sequelae of other cerebrovascular disease
	169890	Apraxia following other cerebrovascular disease
	169891	Dysphagia following other cerebrovascular disease
	169892	Facial weakness following other cerebrovascular disease
	169893	Ataxia following other cerebrovascular disease
	169898	Other sequelae of other cerebrovascular disease
	1699	Sequelae of unspecified cerebrovascular diseases
	16990	Unspecified sequelae of unspecified cerebrovascular disease
	16991	Cognitive deficits following unspecified cerebrovascular disease
	16992	Speech and language deficits following unspecified cerebrovascular disease
	169920	Aphasia following unspecified cerebrovascular disease
	169921	Dysphasia following unspecified cerebrovascular disease
	169922	Dysarthria following unspecified cerebrovascular disease
	169923	Fluency disorder following unspecified cerebrovascular disease
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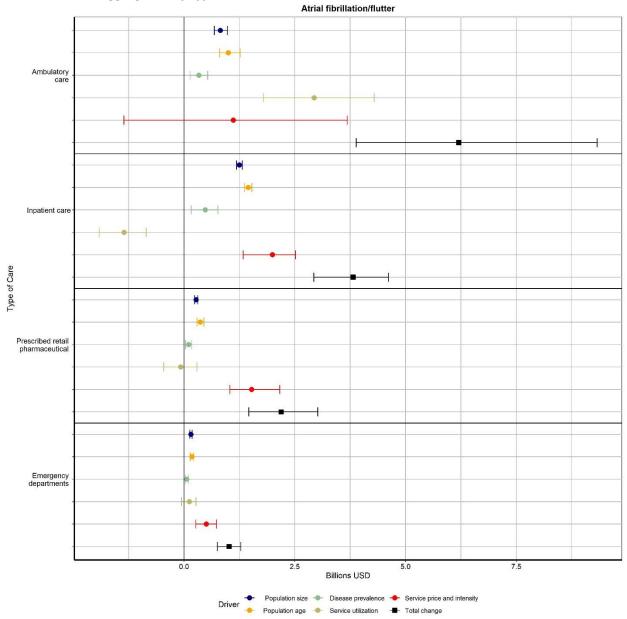
169928	Other speech and language deficits following unspecified cerebrovascular disease
16993	Monoplegia of upper limb following unspecified cerebrovascular disease
169931	Monoplegia of upper limb following unspecified cerebrovascular disease affecting right dominant side
169932	Monoplegia of upper limb following unspecified cerebrovascular disease affecting left dominant side
169933	Monoplegia of upper limb following unspecified cerebrovascular disease affecting right non-dominant side
169934	Monoplegia of upper limb following unspecified cerebrovascular disease affecting left non-dominant side
169939	Monoplegia of upper limb following unspecified cerebrovascular disease affecting unspecified side
16994	Monoplegia of lower limb following unspecified cerebrovascular disease
169941	Monoplegia of lower limb following unspecified cerebrovascular disease affecting right dominant side
169942	Monoplegia of lower limb following unspecified cerebrovascular disease affecting left dominant side
169943	Monoplegia of lower limb following unspecified cerebrovascular disease affecting right non-dominant side
169944	Monoplegia of lower limb following unspecified cerebrovascular disease affecting left non-dominant side
169949	Monoplegia of lower limb following unspecified cerebrovascular disease affecting unspecified side
16995	Hemiplegia and hemiparesis following unspecified cerebrovascular disease
169951	Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting right dominant side
169952	Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting left dominant side
169953	Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting right non-dominant side
169954	Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting left non-dominant side
169959	Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting unspecified side
16996	Other paralytic syndrome following unspecified cerebrovascular disease
169961	Other paralytic syndrome following unspecified cerebrovascular disease affecting right dominant side

	169962	Other paralytic syndrome following unspecified cerebrovascular disease affecting left dominant side
	169963	Other paralytic syndrome following unspecified cerebrovascular disease affecting right non-dominant side
	169964	Other paralytic syndrome following unspecified cerebrovascular disease affecting left non-dominant side
	169965	Other paralytic syndrome following unspecified cerebrovascular disease, bilateral
	169969	Other paralytic syndrome following unspecified cerebrovascular disease affecting unspecified side
	16999	Other sequelae of unspecified cerebrovascular disease
	169990	Apraxia following unspecified cerebrovascular disease
	169991	Dysphagia following unspecified cerebrovascular disease
	169992	Facial weakness following unspecified cerebrovascular disease
	169993	Ataxia following unspecified cerebrovascular disease
	169998	Other sequelae following unspecified cerebrovascular disease
	Z823	Family history of stroke
Treatment of Hyperlipidemia	E753	Sphingolipidosis, unspecified
	E755	Other lipid storage disorders
	E756	Lipid storage disorder, unspecified
	E770	Defects in post-translational modification of lysosomal enzymes
	E778	Other disorders of glycoprotein metabolism
	E779	Disorder of glycoprotein metabolism, unspecified
	E78	Disorders of lipoprotein metabolism and other lipidemias
	E780	Pure hypercholesterolemia
	E781	Pure hyperglyceridemia
	E782	Mixed hyperlipidemia
	E783	Hyperchylomicronemia
	E784	Other hyperlipidemia
	E785	Hyperlipidemia, unspecified
	E786	Lipoprotein deficiency
	E787	Disorders of bile acid and cholesterol metabolism
	E7870	Disorder of bile acid and cholesterol metabolism, unspecified
	E7871	Barth syndrome
	E7872	Smith-Lemli-Opitz syndrome
	E7879	Other disorders of bile acid and cholesterol metabolism
	E788	Other disorders of lipoprotein metabolism
	E7881	Lipoid dermatoarthritis
	E7889	Other lipoprotein metabolism disorders
	E789	Disorder of lipoprotein metabolism, unspecified
	E881	Lipodystrophy, not elsewhere classified
	E8810	Lipodystrophy, not elsewhere classified

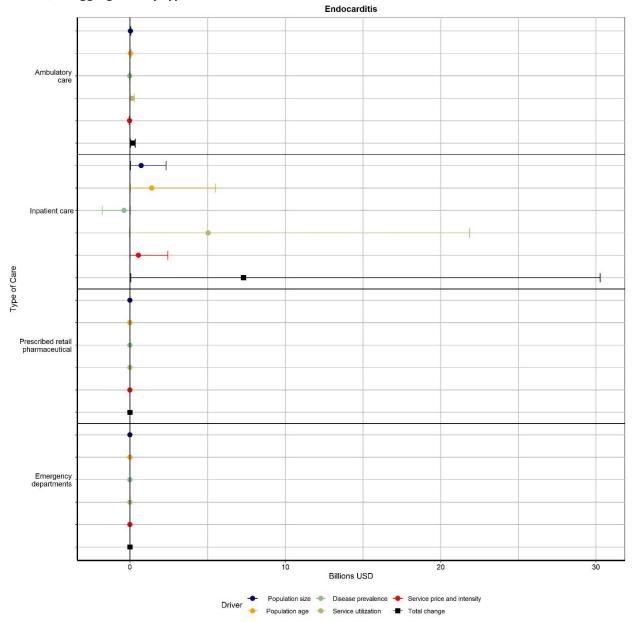
	E8811	Lipodystrophy, not elsewhere classified
	E882	Lipomatosis, not elsewhere classified
Treatment of Hypertension	l10	Essential (primary) hypertension
	1100	Essential (primary) hypertension
	l15	Secondary hypertension
	I150	Renovascular hypertension
	l151	Hypertension secondary to other renal disorders
	l152	Hypertension secondary to endocrine disorders
	I158	Other secondary hypertension
	I 1 59	Secondary hypertension, unspecified
	195	Hypotension
	1958	Other hypotension
	19581	Postprocedural hypotension
	19589	Other hypotension
	1959	Hypotension, unspecified
	N262	Page kidney
	R03	Abnormal blood-pressure reading, without diagnosis
	R030	Elevated blood-pressure reading, without diagnosis of
	NUSU	hypertension
	R031	Nonspecific low blood-pressure reading
	Z136	Encounter for screening for cardiovascular disorders

SUPPLEMENTAL FIGURES

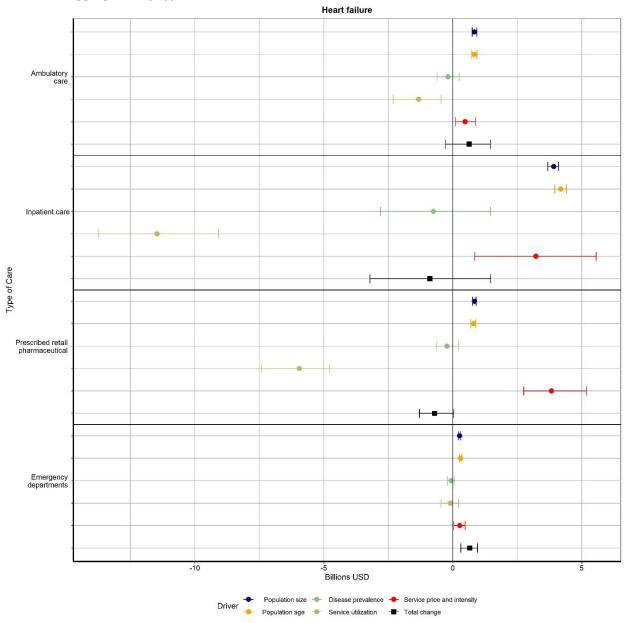
Supplemental Figure I: Changes in spending on atrial fibrillation/flutter from 1996 to 2016 associated with drivers, disaggregated by type of care



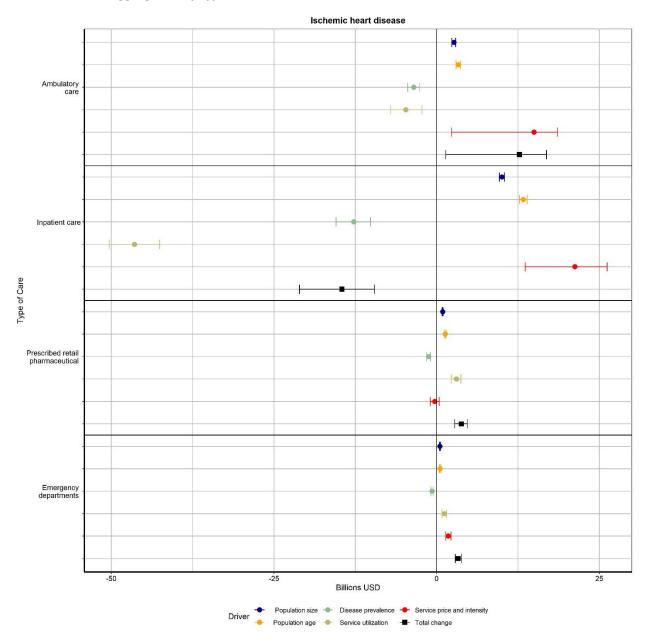
Supplemental Figure II: Changes in spending on endocarditis from 1996 to 2016 associated with drivers, disaggregated by type of care



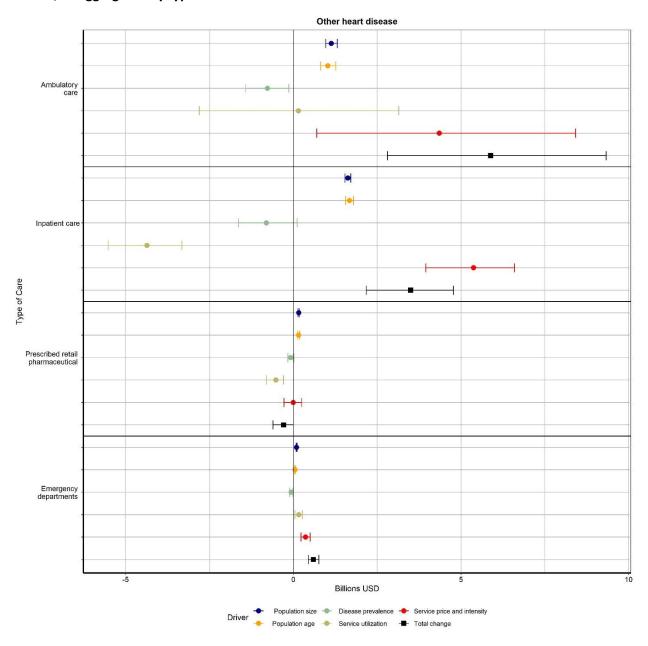
Supplemental Figure III: Changes in spending on heart failure from 1996 to 2016 associated with drivers, disaggregated by type of care



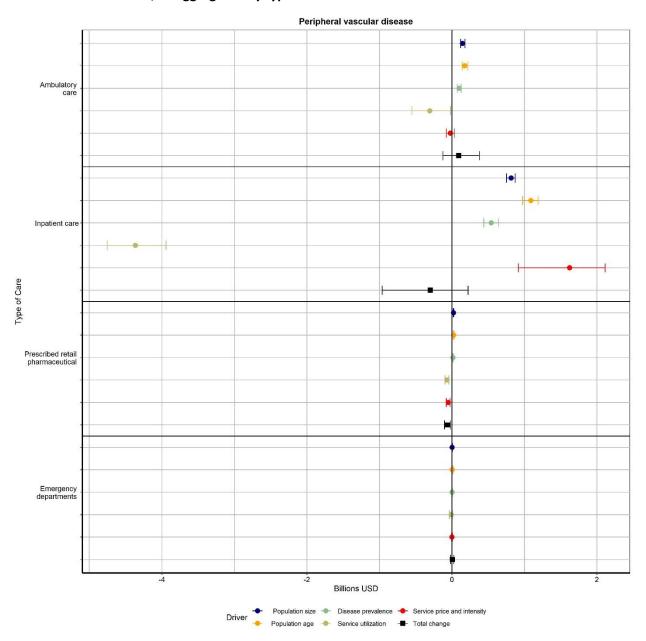
Supplemental Figure IV: Changes in spending on ischemic heart disease from 1996 to 2016 associated with drivers, disaggregated by type of care



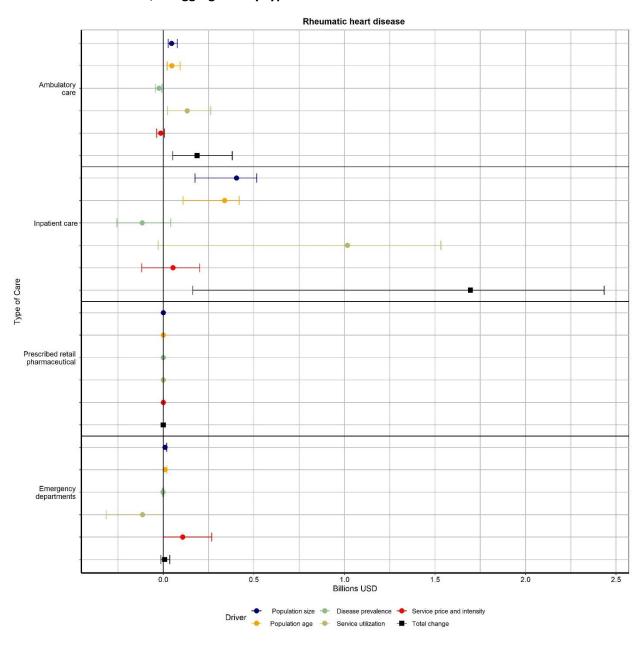
Supplemental Figure V: Changes in spending on other heart disease from 1996 to 2016 associated with drivers, disaggregated by type of care



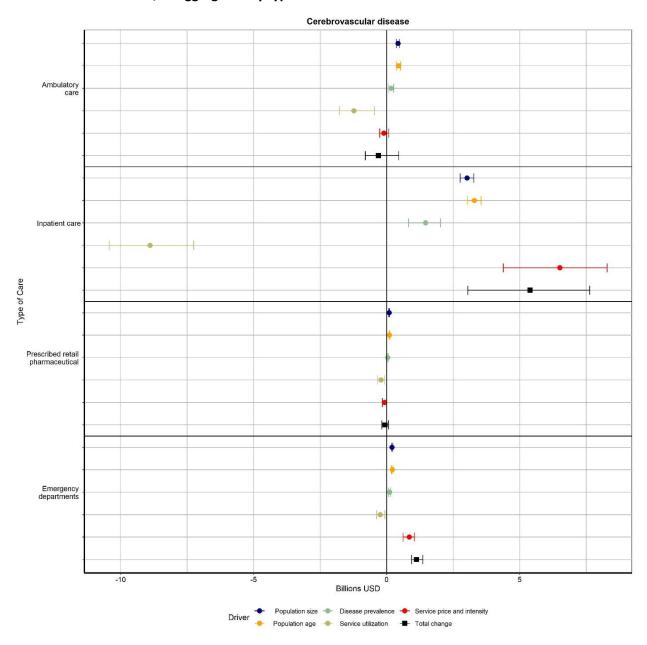
Supplemental Figure VI: Changes in spending on peripheral arterial disease from 1996 to 2016 associated with drivers, disaggregated by type of care



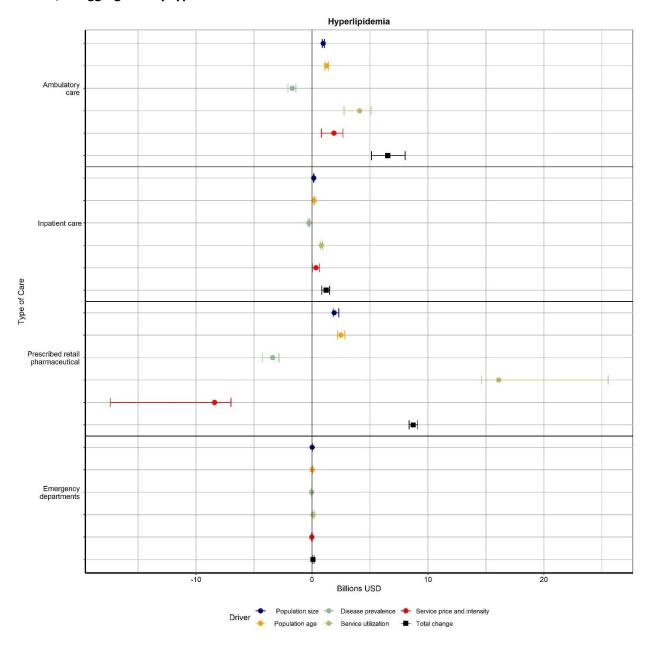
Supplemental Figure VII: Changes in spending on rheumatic heart disease from 1996 to 2016 associated with drivers, disaggregated by type of care



Supplemental Figure VIII: Changes in spending on cerebrovascular disease from 1996 to 2016 associated with drivers, disaggregated by type of care



Supplemental Figure IX: Changes in spending on hyperlipidemia from 1996 to 2016 associated with drivers, disaggregated by type of care



Supplemental Figure X: Changes in spending on hypertension from 1996 to 2016 associated with drivers, disaggregated by type of care

