

Appendix A. Top 15 Disease Categories and Associated ICD-9 Codes

Disease Category	ICD-9 Code	Corresponding Diagnosis
Acute Myocardial Infarction	410	Acute myocardial infarction
Congestive Heart Failure	39891	Rheumatic heart failure (congestive)
	428	Heart Failure
Hypertensive heart disease	40201	Malignant hypertensive heart disease with heart failure
	40211	Benign hypertensive heart disease with heart failure
	40291	Unspecified hypertensive heart disease with heart failure
Hypertensive heart and chronic kidney disease	40401	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
	40403	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease
	40411	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
	40413	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease
	40491	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
	40493	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease
Pneumonia	480	Viral pneumonia
	481	Pneumococcal pneumonia
	482	Other bacterial pneumonia
	483	Pneumonia due to other specified organism
	484	Pneumonia in infectious diseases classified elsewhere
	485	Bronchopneumonia, organism unspecified
	486	Pneumonia, organism unspecified
Stroke	430	Subarachnoid hemorrhage
	431	Intracerebral hemorrhage
	4320	Nontraumatic extradural hemorrhage
	4321	Subdural hemorrhage
	4329	Unspecified intracranial hemorrhage
	43301	Occlusion and stenosis of basilar artery with cerebral infarction
	43311	Occlusion and stenosis of carotid artery with cerebral infarction

	43321	Occlusion and stenosis of vertebral artery with cerebral infarction
	43331	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction
	43381	Occlusion and stenosis of other specified precerebral artery with cerebral infarction
	43391	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
	43401	Cerebral thrombosis with cerebral infarction
	43411	Cerebral embolism with cerebral infarction
	43491	Cerebral artery occlusion, unspecified with cerebral infarction
Respiratory	00322	Salmonella pneumonia
	01004	Primary tuberculous infection, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01010	Tuberculous pleurisy in primary progressive tuberculosis, unspecified
	01084	Other primary progressive tuberculosis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01090	Primary tuberculous infection, unspecified, unspecified
	01100	Tuberculosis of lung, infiltrative, unspecified
	01103	Tuberculosis of lung, infiltrative, tubercle bacilli found (in sputum) by microscopy
	01104	Tuberculosis of lung, infiltrative, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01106	Tuberculosis of lung, infiltrative, tubercle bacilli not found bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01110	Tuberculosis of lung, nodular, unspecified
	01114	Tuberculosis of lung, nodular, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01116	Tuberculosis of lung, nodular, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01120	Tuberculosis of lung with cavitation, unspecified
	01121	Tuberculosis of lung with cavitation, bacteriological or histological examination not done
	01122	Tuberculosis of lung with cavitation, bacteriological or histological examination unknown (at present)

	01123	Tuberculosis of lung with cavitation, tubercle bacilli found (in sputum) by microscopy
	01124	Tuberculosis of lung with cavitation, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01125	Tuberculosis of lung with cavitation, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01126	Tuberculosis of lung with cavitation, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01133	Tuberculosis of bronchus, tubercle bacilli found (in sputum) by microscopy
	01134	Tuberculosis of bronchus, tubercle bacilli not found (in sputum) by microscopy, but found in bacterial culture
	01135	Tuberculosis of bronchus, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01136	Tuberculosis of bronchus, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01140	Tuberculous fibrosis of lung, unspecified
	01142	Tuberculous fibrosis of lung, bacteriological or histological examination unknown (at present)
	01143	Tuberculous fibrosis of lung, tubercle bacilli found (in sputum) by microscopy
	01150	Tuberculous bronchiectasis, unspecified
	01151	Tuberculous bronchiectasis, bacteriological or histological examination not done
	01153	Tuberculous bronchiectasis, tubercle bacilli found (in sputum) by microscopy
	01154	Tuberculous bronchiectasis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01155	Tuberculous bronchiectasis, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01160	Tuberculous pneumonia [any form], unspecified
	01162	Tuberculous pneumonia [any form], bacteriological or histological examination unknown (at present)
	01163	Tuberculous pneumonia [any form], tubercle bacilli found (in sputum) by microscopy
	01164	Tuberculous pneumonia [any form], tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture

	01165	Tuberculous pneumonia [any form], tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01166	Tuberculous pneumonia [any form], tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01180	Other specified pulmonary tuberculosis, unspecified
	01182	Other specified pulmonary tuberculosis, bacteriological or histological examination unknown (at present)
	01183	Other specified pulmonary tuberculosis, tubercle bacilli found (in sputum) by microscopy
	01184	Other specified pulmonary tuberculosis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01185	Other specified pulmonary tuberculosis, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01186	Other specified pulmonary tuberculosis, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01190	Pulmonary tuberculosis, unspecified, unspecified
	01191	Pulmonary tuberculosis, unspecified, bacteriological or histological examination not done
	01192	Pulmonary tuberculosis, unspecified, bacteriological or histological examination unknown (at present)
	01193	Pulmonary tuberculosis, unspecified, tubercle bacilli found (in sputum) by microscopy
	01194	Pulmonary tuberculosis, unspecified, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01195	Pulmonary tuberculosis, unspecified, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically
	01196	Pulmonary tuberculosis, unspecified, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	01200	Tuberculous pleurisy, unspecified

	01202	Tuberculous pleurisy, bacteriological or histological examination unknown (at present)
	01204	Tuberculous pleurisy, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	01206	Tuberculous pleurisy, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]
	0212	Pulmonary tularemia
	0221	Pulmonary anthrax
	0310	Pulmonary diseases due to other mycobacteria
	0391	Pulmonary actinomycotic infection
	0521	Varicella (hemorrhagic) pneumonitis
	0730	Ornithosis with pneumonia
	1124	Candidiasis of lung
	1140	Primary coccidioidomycosis (pulmonary)
	1144	Chronic pulmonary coccidioidomycosis
	1145	Pulmonary coccidioidomycosis, unspecified
	11505	Infection by Histoplasma capsulatum, pneumonia
	11595	Histoplasmosis, unspecified, pneumonia
	1363	Pneumocystosis
	27702	Cystic fibrosis with pulmonary manifestations
	5070	Pneumonitis due to inhalation of food or vomitus
	5071	Pneumonitis due to inhalation of oils and essences
	5078	Pneumonitis due to other solids and liquids
	5100	Empyema with fistula
	5109	Empyema without mention of fistula
	5130	Abscess of lung
	5131	Abscess of mediastinum
	5192	Mediastinitis
	7955	Nonspecific reaction to test for tuberculosis
	V712	Observation for suspected tuberculosis
Chronic Obstructive Pulmonary Disease	4911	Mucopurulent chronic bronchitis
	49120	Obstructive chronic bronchitis without exacerbation
	49121	Obstructive chronic bronchitis with (acute) exacerbation
	49122	Obstructive chronic bronchitis with acute bronchitis
	4918	Other chronic bronchitis
	4919	Unspecified chronic bronchitis
	4920	Emphysematous bleb
	4928	Other emphysema
	49320	Chronic obstructive asthma, unspecified
	49321	Chronic obstructive asthma with status asthmaticus

	49322	Chronic obstructive asthma with (acute) exacerbation
	4940	Bronchiectasis without acute exacerbation
	4941	Bronchiectasis with acute exacerbation
	496	Chronic airway obstruction, not elsewhere classified
	5064	Chronic respiratory conditions due to fumes and vapors
	5069	Unspecified respiratory conditions due to fumes and vapors
	74861	Congenital bronchiectasis
Arrhythmia	4260	Atrioventricular block, complete
	42610	Atrioventricular block, unspecified
	42611	First degree atrioventricular block
	42612	Mobitz (type) II atrioventricular block
	42613	Other second degree atrioventricular block
	4262	Left bundle branch hemiblock
	4263	Other left bundle branch block
	4264	Right bundle branch block
	42650	Bundle branch block, unspecified
	42651	Right bundle branch block and left posterior fascicular block
	42652	Right bundle branch block and left anterior fascicular block
	42653	Other bilateral bundle branch block
	42654	Trifascicular block
	4266	Other heart block
	4267	Anomalous atrioventricular excitation
	42681	Lown-Ganong-Levine syndrome
	42682	Long QT syndrome
	42689	Other specified conduction disorders
	4269	Conduction disorder, unspecified
	4270	Paroxysmal supraventricular tachycardia
	4271	Paroxysmal ventricular tachycardia
	4272	Paroxysmal tachycardia, unspecified
	42731	Atrial fibrillation
	42732	Atrial flutter
	42741	Ventricular fibrillation
	42742	Ventricular flutter
	42760	Premature beats, unspecified
	42761	Supraventricular premature beats
	42769	Other premature beats
	42781	Sinoatrial node dysfunction
	42789	Other specified cardiac dysrhythmias
	4279	Cardiac dysrhythmia, unspecified
	7850	Tachycardia, unspecified
	7851	Palpitations
	99601	Mechanical complication due to cardiac pacemaker (electrode)
	99604	Mechanical complication of automatic implantable cardiac defibrillator
Chest Pain	78650	Chest pain, unspecified
	78651	Precordial pain
	78659	Other chest pain

	V717	Observation for suspected cardiovascular disease
Gastrointestinal Bleed	4560	Esophageal varices with bleeding
	5307	Gastroesophageal laceration-hemorrhage syndrome
	53082	Esophageal hemorrhage
	53100	Acute gastric ulcer with hemorrhage, without mention of obstruction
	53101	Acute gastric ulcer with hemorrhage, with obstruction
	53120	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction
	53121	Acute gastric ulcer with hemorrhage and perforation, with obstruction
	53140	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction
	53141	Chronic or unspecified gastric ulcer with hemorrhage, with obstruction
	53160	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction
	53161	Chronic or unspecified gastric ulcer with hemorrhage and perforation, with obstruction
	53200	Acute duodenal ulcer with hemorrhage, without mention of obstruction
	53201	Acute duodenal ulcer with hemorrhage, with obstruction
	53220	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction
	53221	Acute duodenal ulcer with hemorrhage and perforation, with obstruction
	53240	Chronic or unspecified duodenal ulcer with hemorrhage, without mention of obstruction
	53241	Chronic or unspecified duodenal ulcer with hemorrhage, with obstruction
	53260	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction
	53261	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, with obstruction
	53300	Acute peptic ulcer of unspecified site with hemorrhage, without mention of obstruction
	53301	Acute peptic ulcer of unspecified site with hemorrhage, with obstruction
	53320	Acute peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction
	53340	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, without mention of obstruction
	53341	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, with obstruction

	53360	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction
	53400	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction
	53401	Acute gastrojejunal ulcer, with hemorrhage, with obstruction
	53420	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction
	53440	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction
	53441	Chronic or unspecified gastrojejunal ulcer, with hemorrhage, with obstruction
	53460	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction
	53501	Acute gastritis, with hemorrhage
	53511	Atrophic gastritis, with hemorrhage
	53521	Gastric mucosal hypertrophy, with hemorrhage
	53531	Alcoholic gastritis, with hemorrhage
	53541	Other specified gastritis, with hemorrhage
	53551	Unspecified gastritis and gastroduodenitis, with hemorrhage
	53561	Duodenitis, with hemorrhage
	53783	Angiodysplasia of stomach and duodenum with hemorrhage
	53784	Dieulafoy lesion (hemorrhagic) of stomach and duodenum
	56202	Diverticulosis of small intestine with hemorrhage
	56203	Diverticulitis of small intestine with hemorrhage
	56212	Diverticulosis of colon with hemorrhage
	56213	Diverticulitis of colon with hemorrhage
	5693	Hemorrhage of rectum and anus
	56985	Angiodysplasia of intestine with hemorrhage
	5780	Hematemesis
	5781	Blood in stool
	5789	Hemorrhage of gastrointestinal tract, unspecified
Esophageal/Gastrointestinal Disease	0030	Salmonella gastroenteritis
	0040	Shigella dysenteriae
	0041	Shigella flexneri
	0042	Shigella boydii
	0043	Shigella sonnei
	0048	Other specified shigella infections
	0049	Shigellosis, unspecified
	0050	Staphylococcal food poisoning
	0053	Food poisoning due to other Clostridia

	0054	Food poisoning due to <i>Vibrio parahaemolyticus</i>
	00581	Food poisoning due to <i>Vibrio vulnificus</i>
	00589	Other bacterial food poisoning
	0059	Food poisoning, unspecified
	0060	Acute amebic dysentery without mention of abscess
	0061	Chronic intestinal amebiasis without mention of abscess
	0062	Amebic nondysenteric colitis
	0071	Giardiasis
	0074	Cryptosporidiosis
	0078	Other specified protozoal intestinal diseases
	00800	Intestinal infection due to <i>E. coli</i> , unspecified
	00801	Intestinal infection due to enteropathogenic <i>E. coli</i>
	00802	Intestinal infection due to enterotoxigenic <i>E. coli</i>
	00804	Intestinal infection due to enterohemorrhagic <i>E. coli</i>
	00809	Intestinal infection due to other intestinal <i>E. coli</i> infections
	0082	Intestinal infection due to <i>aerobacter aerogenes</i>
	0083	Intestinal infection due to <i>proteus (mirabilis) (morganii)</i>
	00841	Intestinal infection due to <i>staphylococcus</i>
	00842	Intestinal infection due to <i>pseudomonas</i>
	00843	Intestinal infection due to <i>campylobacter</i>
	00844	Intestinal infection due to <i>yersinia enterocolitica</i>
	00845	Intestinal infection due to <i>Clostridium difficile</i>
	00846	Intestinal infection due to other anaerobes
	00847	Intestinal infection due to other gram-negative bacteria
	00849	Intestinal infection due to other organisms
	0085	Bacterial enteritis, unspecified
	00861	Enteritis due to rotavirus
	00862	Enteritis due to adenovirus
	00863	Enteritis due to norwalk virus
	00867	Enteritis due to enterovirus nec
	00869	Enteritis due to other viral enteritis
	0088	Intestinal infection due to other organism, not elsewhere classified
	0090	Infectious colitis, enteritis, and gastroenteritis
	0091	Colitis, enteritis, and gastroenteritis of presumed infectious origin
	0092	Infectious diarrhea
	0093	Diarrhea of presumed infectious origin
	11284	Candidal esophagitis
	11285	Candidal enteritis

	1231	Cysticercosis
	1269	Ancylostomiasis and necatoriasis, unspecified
	1271	Anisakiasis
	1272	Strongyloidiasis
	1273	Trichuriasis
	1279	Intestinal helminthiasis, unspecified
	129	Intestinal parasitism, unspecified
	22804	Hemangioma of intra-abdominal structures
	2712	Hereditary fructose intolerance
	2713	Intestinal disaccharidase deficiencies and disaccharide malabsorption
	3064	Gastrointestinal malfunction arising from mental factors
	4474	Celiac artery compression syndrome
	5300	Achalasia and cardiospasm
	53010	Esophagitis, unspecified
	53011	Reflux esophagitis
	53012	Acute esophagitis
	53019	Other esophagitis
	5303	Stricture and stenosis of esophagus
	5304	Perforation of esophagus
	5305	Dyskinesia of esophagus
	5306	Diverticulum of esophagus, acquired
	53081	Esophageal reflux
	53083	Esophageal leukoplakia
	53084	Tracheoesophageal fistula
	53089	Other specified disorders of esophagus
	5309	Unspecified disorder of esophagus
	53500	Acute gastritis, without mention of hemorrhage
	53510	Atrophic gastritis, without mention of hemorrhage
	53520	Gastric mucosal hypertrophy, without mention of hemorrhage
	53530	Alcoholic gastritis, without mention of hemorrhage
	53540	Other specified gastritis, without mention of hemorrhage
	53550	Unspecified gastritis and gastroduodenitis, without mention of hemorrhage
	53560	Duodenitis, without mention of hemorrhage
	5360	Achlorhydria
	5361	Acute dilatation of stomach
	5362	Persistent vomiting
	5363	Gastroparesis
	5368	Dyspepsia and other specified disorders of function of stomach
	5369	Unspecified functional disorder of stomach
	5371	Gastric diverticulum
	5372	Chronic duodenal ileus
	5374	Fistula of stomach or duodenum
	5375	Gastroptosis
	5376	Hourglass stricture or stenosis of stomach

	53781	Pylorospasm
	53782	Angiodysplasia of stomach and duodenum without mention of hemorrhage
	53789	Other specified disorders of stomach and duodenum
	5379	Unspecified disorder of stomach and duodenum
	5523	Diaphragmatic hernia with obstruction
	5533	Diaphragmatic hernia without mention of obstruction or gangrene
	5583	Allergic gastroenteritis and colitis
	5589	Other and unspecified noninfectious gastroenteritis and colitis
	56200	Diverticulosis of small intestine (without mention of hemorrhage)
	56201	Diverticulitis of small intestine (without mention of hemorrhage)
	56210	Diverticulosis of colon (without mention of hemorrhage)
	56211	Diverticulitis of colon (without mention of hemorrhage)
	56400	Constipation, unspecified
	56401	Slow transit constipation
	56402	Outlet dysfunction constipation
	56409	Other constipation
	5641	Irritable bowel syndrome
	5642	Postgastric surgery syndromes
	5643	Vomiting following gastrointestinal surgery
	5644	Other postoperative functional disorders
	5645	Functional diarrhea
	5646	Anal spasm
	56481	Neurogenic bowel
	56489	Other functional disorders of intestine
	5649	Unspecified functional disorder of intestine
	5790	Celiac disease
	5791	Tropical sprue
	5792	Blind loop syndrome
	5793	Other and unspecified postsurgical nonabsorption
	5794	Pancreatic steatorrhea
	5798	Other specified intestinal malabsorption
	5799	Unspecified intestinal malabsorption
	78701	Nausea with vomiting
	78702	Nausea alone
	78703	Vomiting alone
	7871	Heartburn
	7872	Dysphagia
	7873	Flatulence, eructation, and gas pain
	7874	Visible peristalsis
	7876	Incontinence of feces
	7877	Abnormal feces
	78791	Diarrhea
	78799	Other symptoms involving digestive system
	78900	Abdominal pain, unspecified site

	78901	Abdominal pain, right upper quadrant
	78902	Abdominal pain, left upper quadrant
	78903	Abdominal pain, right lower quadrant
	78904	Abdominal pain, left lower quadrant
	78905	Abdominal pain, periumbilic
	78906	Abdominal pain, epigastric
	78907	Abdominal pain, generalized
	78909	Abdominal pain, other specified site
	78930	Abdominal or pelvic swelling, mass, or lump, unspecified site
	78931	Abdominal or pelvic swelling, mass, or lump, right upper quadrant
	78932	Abdominal or pelvic swelling, mass, or lump, left upper quadrant
	78933	Abdominal or pelvic swelling, mass, or lump, right lower quadrant
	78934	Abdominal or pelvic swelling, mass, or lump, left lower quadrant
	78935	Abdominal or pelvic swelling, mass, or lump, periumbilic
	78936	Abdominal or pelvic swelling, mass, or lump, epigastric
	78937	Abdominal or pelvic swelling, mass, or lump, generalized
	78939	Abdominal or pelvic swelling, mass, or lump, other specified site
	78960	Abdominal tenderness, unspecified site
	78961	Abdominal tenderness, right upper quadrant
	78962	Abdominal tenderness, left upper quadrant
	78964	Abdominal tenderness, left lower quadrant
	78966	Abdominal tenderness, epigastric
	78967	Abdominal tenderness, generalized
	78969	Abdominal tenderness, other specified site
	7899	Other symptoms involving abdomen and pelvis
	7921	Nonspecific abnormal findings in stool contents
	7934	Nonspecific (abnormal) findings on radiological and other examination of gastrointestinal tract
	7936	Nonspecific (abnormal) findings on radiological and other examination of abdominal area, including retroperitoneum
Hip Fracture/Dislocation	82000	Closed fracture of intracapsular section of neck of femur, unspecified
	82001	Closed fracture of epiphysis (separation) (upper) of neck of femur
	82002	Closed fracture of midcervical section of neck of femur
	82003	Closed fracture of base of neck of femur
	82009	Other closed transcervical fracture of neck of femur
	82010	Open fracture of intracapsular section of neck of femur, unspecified

	82011	Open fracture of epiphysis (separation) (upper) of neck of femur
	82012	Open fracture of midcervical section of neck of femur
	82013	Open fracture of base of neck of femur
	82019	Other open transcervical fracture of neck of femur
	82020	Closed fracture of trochanteric section of neck of femur
	82021	Closed fracture of intertrochanteric section of neck of femur
	82022	Closed fracture of subtrochanteric section of neck of femur
	82030	Open fracture of trochanteric section of neck of femur, unspecified
	82031	Open fracture of intertrochanteric section of neck of femur
	82032	Open fracture of subtrochanteric section of neck of femur
	8208	Closed fracture of unspecified part of neck of femur
	8209	Open fracture of unspecified part of neck of femur
Metabolic Disease	2510	Hypoglycemic coma
	2512	Hypoglycemia, unspecified
	2513	Postsurgical hypoinsulinemia
	260	Kwashiorkor
	261	Nutritional marasmus
	262	Other severe protein-calorie malnutrition
	2630	Malnutrition of moderate degree
	2631	Malnutrition of mild degree
	2638	Other protein-calorie malnutrition
	2639	Unspecified protein-calorie malnutrition
	2651	Other and unspecified manifestations of thiamine deficiency
	2661	Vitamin B6 deficiency
	2662	Other B-complex deficiencies
	2669	Unspecified vitamin B deficiency
	267	Ascorbic acid deficiency
	2689	Unspecified vitamin D deficiency
	2690	Deficiency of vitamin K
	2691	Deficiency of other vitamins
	2692	Unspecified vitamin deficiency
	2693	Mineral deficiency, not elsewhere classified
	2698	Other nutritional deficiency
	2699	Unspecified nutritional deficiency
	2752	Disorders of magnesium metabolism
	27540	Unspecified disorder of calcium metabolism
	27541	Hypocalcemia
	27542	Hypercalcemia
	27549	Other disorders of calcium metabolism
	2760	Hyperosmolality and/or hyponatremia
	2761	Hyposmolality and/or hyponatremia
	2762	Acidosis

	2763	Alkalosis
	2764	Mixed acid-base balance disorder
	2765	Volume depletion disorder
	27650	Volume depletion, unspecified
	27651	Dehydration
	27652	Hypovolemia
	2766	Fluid overload disorder
	2767	Hyperpotassemia
	2768	Hypopotassemia
	2769	Electrolyte and fluid disorders not elsewhere classified
	27700	Electrolyte and fluid disorders not elsewhere classified
	27800	Obesity, unspecified
	27801	Morbid obesity
	27802	Overweight
	2781	Localized adiposity
	2783	Hypercarotinemias
	2784	Hypervitaminosis D
	2788	Other hyperalimentation
	7817	Tetany
	7830	Anorexia
	7831	Abnormal weight gain
	78321	Loss of weight
	78322	Underweight
	7833	Feeding difficulties and mismanagement
	78340	Lack of normal physiological development, unspecified
	78341	Failure to thrive
	7835	Polydipsia
	7836	Polyphagia
	7837	Adult failure to thrive
	7839	Other symptoms concerning nutrition, metabolism, and development
	79021	Impaired fasting glucose
	79029	Other abnormal glucose
Renal Failure	40301	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or End Stage Renal Disease
	40311	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease
	40391	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease
	40402	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease
	40412	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease

	40492	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease
	5845	Acute kidney failure with lesion of tubular necrosis
	5846	Acute kidney failure with lesion of renal cortical necrosis
	5847	Acute kidney failure with lesion of renal medullary [papillary] necrosis
	5848	Acute kidney failure with other specified pathological lesion in kidney
	5849	Acute kidney failure, unspecified
	585	Chronic kidney disease (ckd)
	5851	Chronic kidney disease, Stage I
	5852	Chronic kidney disease, Stage II (mild)
	5853	Chronic kidney disease, Stage III (moderate)
	5854	Chronic kidney disease, Stage IV (severe)
	5855	Chronic kidney disease, Stage V
	5856	End stage renal disease
	5859	Chronic kidney disease, unspecified
	586	Renal failure, unspecified
	7885	Oliguria and anuria
	9585	Traumatic anuria
Urinary Tract Infection	01600	Tuberculosis of kidney, unspecified
	01634	Tuberculosis of other urinary organs, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture
	03284	Diphtheritic cystitis
	1200	Schistosomiasis due to schistosoma haematobium
	59000	Chronic pyelonephritis without lesion of renal medullary necrosis
	59010	Acute pyelonephritis without lesion of renal medullary necrosis
	59011	Acute pyelonephritis with lesion of renal medullary necrosis
	5902	Renal and perinephric abscess
	5903	Pyeloureteritis cystica
	59080	Pyelonephritis, unspecified
	5909	Infection of kidney, unspecified
	5933	Stricture or kinking of ureter
	5950	Acute cystitis
	5951	Chronic interstitial cystitis
	5952	Other chronic cystitis
	5953	Trigonitis
	59581	Cystitis cystica
	59589	Other specified types of cystitis
	5959	Cystitis, unspecified
	5970	Urethral abscess
	59780	Urethritis, unspecified
	59781	Urethral syndrome NOS
	59789	Other urethritis

	5990	Urinary tract infection, site not specified
Sepsis	0031	Salmonella septicemia
	0362	Meningococemia
	0363	Waterhouse-Friderichsen syndrome, meningococcal
	03689	Other specified meningococcal infections
	0369	Meningococcal infection, unspecified
	0380	Streptococcal septicemia
	03810	Staphylococcal septicemia, unspecified
	03811	Methicillin susceptible Staphylococcus aureus septicemia
	03819	Other staphylococcal septicemia
	0382	Pneumococcal septicemia [Streptococcus pneumoniae septicemia]
	0383	Septicemia due to anaerobes
	03840	Septicemia due to gram-negative organism, unspecified
	03841	Septicemia due to hemophilus influenzae [H. influenzae]
	03842	Septicemia due to escherichia coli [E. coli]
	03843	Septicemia due to pseudomonas
	03844	Septicemia due to serratia
	03849	Other septicemia due to gram-negative organisms
	0388	Other specified septicemias
	0389	Unspecified septicemia
	0545	Herpetic septicemia
	78552	Septic shock
	78559	Other shock without mention of trauma
	7907	Bacteremia
	99590	Systemic inflammatory response syndrome, unspecified
	99591	Sepsis
	99592	Severe sepsis
	99593	Systemic inflammatory response syndrome due to noninfectious process without acute organ dysfunction
	99594	Systemic inflammatory response syndrome due to noninfectious process with acute organ dysfunction