



## Clinical Classifications Software (CCS)

CCS is a tool for clustering patient diagnoses and procedures into a manageable number of clinically meaningful categories developed at the Agency for Healthcare Research and Quality (AHRQ, formerly known as the Agency for Health Care Policy and Research). CCS is used for grouping conditions and procedures without having to wade through thousands of codes. This "clinical grouper" makes it easier to quickly understand patterns of diagnoses and procedures so that health plans, policymakers, and researchers can analyze costs, utilization, and outcomes associated with particular illnesses and procedures.

CCS collapses diagnosis and procedure codes from the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM), which contains over 12,000 diagnosis codes and 3,500 procedure codes. Without CCS, the large number of ICD-9-CM codes poses difficulties in statistical analysis and reporting. (See <http://www.hcup-us.ahrq.gov/toolssoftware/ccs/ccsfactsheet.jsp#what>)

## Code List

(last updated September 2005)

### CCS Diagnosis Codes

### CCS Procedure Codes

CCS Code	Definition	CCS Code	Definition
0	No diagnosis	0	No procedure
1	Tuberculosis	1	Incision and excision of CNS
2	Septicemia (except in labor)	2	Insertion, replacement, or removal of extracranial ventricular shunt
3	Bacterial infection, unspecified site	3	Laminectomy, excision intervertebral disc
4	Mycoses	4	Diagnostic spinal tap
5	HIV infection	5	Insertion of catheter or spinal stimulator and injection into spinal canal
6	Hepatitis	6	Decompression peripheral nerve
7	Viral infection	7	Other diagnostic nervous system procedures
8	Other infections, including parasitic	8	Other non-OR or closed therapeutic nervous system procedures
9	Sexually transmitted infections (not HIV or hepatitis)	9	Other OR therapeutic nervous system procedures
10	Immunizations and screening for infectious disease	10	Thyroidectomy, partial or complete
11	Cancer of head and neck	11	Diagnostic endocrine procedures
12	Cancer of esophagus	12	Other therapeutic endocrine procedures
13	Cancer of stomach	13	Corneal transplant
14	Cancer of colon	14	Glaucoma procedures

15	Cancer of rectum and anus	15	Lens and cataract procedures
16	Cancer of liver and intrahepatic bile duct	16	Repair of retinal tear, detachment
17	Cancer of pancreas	17	Destruction of lesion of retina and choroid
18	Cancer of other GI organs, peritoneum	18	Diagnostic procedures on eye
19	Cancer of bronchus, lung<	19	Other therapeutic procedures on eyelids, conjunctiva, cornea
20	Cancer, other respiratory and intra thoracic	20	Other intraocular therapeutic procedures
21	Cancer of bone and connective tissue	21	Other extraocular muscle and orbit therapeutic procedures
22	Melanomas of skin	22	Tympanoplasty
23	Other non-epithelial cancer of skin	23	Myringotomy
24	Cancer of breast	24	Mastoidectomy
25	Cancer of uterus	25	Diagnostic procedures on ear
26	Cancer of cervix	26	Other therapeutic ear procedures
27	Cancer of ovary	27	Control of epistaxis
28	Cancer of other female genital organs	28	Plastic procedures on nose
29	Cancer of prostate	29	Dental procedures
30	Cancer of testis	30	Tonsillectomy and/or adenoidectomy
31	Cancer of other male genital organs	31	Diagnostic procedures on nose, mouth and pharynx
32	Cancer of bladder	32	Other non-OR therapeutic procedures on nose, mouth and pharynx
33	Cancer of kidney and renal pelvis	33	Other OR therapeutic procedures on nose, mouth and pharynx
34	Cancer of other urinary organs	34	Tracheostomy, temporary and permanent
35	Cancer of brain and nervous system	35	Tracheoscopy and laryngoscopy with biopsy
36	Cancer of thyroid	36	Lobectomy or pneumonectomy
37	Hodgkins disease	37	Diagnostic bronchoscopy and biopsy of bronchus
38	Non-Hodgkins lymphoma	38	Other diagnostic procedures on lung and bronchus
39	Leukemias	39	Incision of pleura, thoracentesis, chest drainage
40	Multiple myeloma	40	Other diagnostic procedures of respiratory tract and mediastinum
41	Cancer, other and unspecified primary	41	Other non-OR therapeutic procedures on respiratory system
42	Secondary malignancies	42	Other OR therapeutic procedures on respiratory system
43	Malignant neoplasm without specification of site	43	Heart valve procedures
44	Neoplasms of unspecified nature or uncertain behavior	44	Coronary artery bypass graft (CABG)

45	Maintenance chemotherapy, radiotherapy	45	Percutaneous transluminal coronary angioplasty (PTCA)
46	Benign neoplasm of uterus	46	Coronary thrombolysis
47	Other and unspecified benign neoplasm	47	Diagnostic cardiac catheterization, coronary arteriography
48	Thyroid disorders	48	Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator
49	Diabetes mellitus without complication	49	Other OR heart procedures
50	Diabetes mellitus with complications	50	Extracorporeal circulation auxiliary to open heart procedures
51	Other endocrine disorders	51	Endarterectomy, vessel of head and neck
52	Nutritional deficiencies	52	Aortic resection, replacement or anastomosis
53	Disorders of lipid metabolism	53	Varicose vein stripping, lower limb
54	Gout and other crystal arthropathies	54	Other vascular catheterization, not heart
55	Fluid and electrolyte disorders	55	Peripheral vascular bypass
56	Cystic fibrosis	56	Other vascular bypass and shunt, not heart
57	Immunity disorders	57	Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis
58	Other nutritional, endocrine, and metabolic disorders	58	Hemodialysis
59	Deficiency and other anemia	59	Other OR procedures on vessels of head and neck
60	Acute posthemorrhagic anemia	60	Embolectomy and endarterectomy of lower limbs
61	Sickle cell anemia	61	Other OR procedures on vessels other than head and neck
62	Coagulation and hemorrhagic disorders	62	Other diagnostic cardiovascular procedures
63	Diseases of white blood cells	63	Other non-OR therapeutic cardiovascular procedures
64	Other hematologic conditions	64	Bone marrow transplant
65	Mental retardation	65	Bone marrow biopsy
66	Alcohol-related mental disorders	66	Procedures on spleen
67	Substance-related mental disorders	67	Other therapeutic procedures, hemic and lymphatic system
68	Senility and organic mental disorders	68	Injection or ligation of esophageal varices
69	Affective disorders	69	Esophageal dilatation
70	Schizophrenia and related disorders	70	Upper gastrointestinal endoscopy, biopsy
71	Other psychoses	71	Gastrostomy, temporary and permanent
72	Anxiety, somatoform, dissociative, and personality disorders	72	Colostomy, temporary and permanent
73	Preadult disorders	73	Ileostomy and other enterostomy
74	Other mental conditions	74	Gastrectomy, partial and total

75	Personal history of mental disorder, mental and behavioral problems	75	Small bowel resection
76	Meningitis (except by TB or STDs)	76	Colonoscopy and biopsy
77	Encephalitis (except by TB or STDs)	77	Proctoscopy and anorectal biopsy
78	Other CNS infection and poliomyelitis	78	Colorectal resection
79	Parkinsons disease	79	Local excision of large intestine lesion (not endoscopic)
80	Multiple sclerosiss	80	Appendectomy
81	Other hereditary and degenerative nervous system conditions	81	Hemorrhoid procedures
82	Paralysis	82	Endoscopic retrograde cannulation of pancreas (ERCP)
83	Epilepsy, convulsions	83	Biopsy of liver
84	Headache, including migraine	84	Cholecystectomy and common duct exploration
85	Coma, stupor, and brain damage	85	Inguinal and femoral hernia repair
86	Cataract	86	Other hernia repair
87	Retinal detachments, defects, vascular occlusion,and retinopathy<	87	Laparoscopy
88	Glaucoma	88	Abdominal paracentesis
89	Blindness and vision defects	89	Exploratory laparotomy
90	Inflammation, infection of eye (no TB or STD s)	90	Excision, lysis peritoneal adhesions
91	Other eye disorders	91	Peritoneal dialysis
92	Otitis media and related conditions	92	Other bowel diagnostic procedures
93	Conditions associated with dizziness or vertigo	93	Other non-OR upper GI therapeutic procedures
94	Other ear and sense organ disorders	94	Other OR upper GI therapeutic procedures
95	Other nervous system disorders	95	Other non-OR lower GI therapeutic procedures
96	Heart valve disorders	96	Other OR lower GI therapeutic procedures
97	Peri-, endo-, and myocarditis, cardiomyopathy(no TB or STDs)	97	Other gastrointestinal diagnostic procedures
98	Essential hypertension	98	Other non-OR gastrointestinal therapeutic procedures
99	Hypertension with complications and secondary hypertension	99	Other OR gastrointestinal therapeutic procedures
100	Acute myocardial infarction	100	Endoscopy and endoscopic biopsy of the urinary tract
101	Coronary atherosclerosis and other heart disease	101	Transurethral excision, drainage, or removal urinary obstruction
102	Nonspecific chest pain	102	Ureteral catheterization

103	Pulmonary heart disease	103	Nephrotomy and nephrostomy
104	Other and ill-defined heart disease	104	Nephrectomy, partial or complete
105	Conduction disorders	105	Kidney transplant
106	Cardiac dysrhythmias	106	Genitourinary incontinence procedures
107	Cardiac arrest and ventricular fibrillation	107	Extracorporeal lithotripsy, urinary
108	Congestive heart failure, nonhypertensive	108	Indwelling catheter
109	Acute cerebrovascular disease	109	Procedures on the urethra
110	Occlusion or stenosis of precerebral arteries	110	Other diagnostic procedures of urinary tract
111	Other and ill-defined cerebrovascular disease	111	Other non-OR therapeutic procedures of urinary tract
112	Transient cerebral ischemia	112	Other OR therapeutic procedures of urinary tract
113	Late effects of cerebrovascular disease	113	Transurethral resection of prostate (TURP)
114	Peripheral and visceral atherosclerosis	114	Open prostatectomy
115	Aortic, peripheral, and visceral artery aneurysms	115	Circumcision
116	Aortic and peripheral arterial embolism or thrombosis	116	Diagnostic procedures, male genital
117	Other circulatory disease	117	Other non-OR therapeutic procedures, male genital
118	Phlebitis, thrombophlebitis and thromboembolism	118	Other OR therapeutic procedures, male genital
119	Varicose veins of lower extremity	119	Oophorectomy, unilateral and bilateral
120	Hemorrhoids	120	Other operations on ovary
121	Other diseases of veins and lymphatics	121	Ligation of fallopian tubes
122	Pneumonia (except that caused by tuberculosis or STDs)	122	Removal of ectopic pregnancy
123	Influenza	123	Other operations on fallopian tubes
124	Acute and chronic tonsillitis	124	Hysterectomy, abdominal and vaginal
125	Acute bronchitis	125	Other excision of cervix and uterus
126	Other upper respiratory infections	126	Abortion (termination of pregnancy)
127	Chronic obstructive pulmonary disease and bronchiectasis	127	Dilatation and curettage (D&C), aspiration after delivery or abortion
128	Asthma	128	Diagnostic dilatation and curettage (D&C)
129	Aspiration pneumonitis, food/vomitus	129	Repair of cystocele and rectocele, obliteration of vaginal vault
130	Pleurisy, pneumothorax, pulmonary collapse	130	Other diagnostic procedures, female organs

131	Respiratory failure, insufficiency, arrest (adult)	131	Other non-OR therapeutic procedures, female organs
132	Lung disease due to external agents	132	Other OR therapeutic procedures, female organs
133	Other lower respiratory disease	133	Episiotomy
134	Other upper respiratory disease	134	Cesarean section
135	Intestinal infection	135	Forceps, vacuum, and breech delivery
136	Disorders of teeth and jaw	136	Artificial rupture of membranes to assist delivery
137	Diseases of mouth, excluding dental	137	Other procedures to assist delivery
138	Esophageal disorders	138	Diagnostic amniocentesis
139	Gastroduodenal ulcer (except hemorrhage)	139	Fetal monitoring
140	Gastritis and duodenitis	140	Repair of current obstetric laceration
141	Other disorders of stomach and duodenum	141	Other therapeutic obstetrical procedures
142	Appendicitis and other appendiceal conditions	142	Partial excision bone
143	Abdominal hernia	143	Bunionectomy or repair of toe deformities
144	Regional enteritis and ulcerative colitis	144	Treatment, facial fracture or dislocation
145	Intestinal obstruction without hernia	145	Treatment, fracture or dislocation of radius and ulna
146	Diverticulosis and diverticulitis	146	Treatment, fracture or dislocation of hip and femur
147	Anal and rectal conditions	147	Treatment, fracture or dislocation of lower extremity (other than hip or femur)
148	Peritonitis and intestinal abscess	148	Other fracture and dislocation procedure
149	Biliary tract disease	149	Arthroscopy
150	Liver disease, alcohol-related	150	Division of joint capsule, ligament or cartilage
151	Other liver diseases	151	Excision of semilunar cartilage of knee
152	Pancreatic disorders (not diabetes)	152	Arthroplasty knee
153	Gastrointestinal hemorrhage	153	Hip replacement, total and partial
154	Noninfectious gastroenteritis	154	Arthroplasty other than hip or knee
155	Other gastrointestinal disorders	155	Arthrocentesis
156	Nephritis, nephrosis, renal sclerosis	156	Injections and aspirations of muscles, tendons, bursa, joints and soft tissue
157	Acute and unspecified renal failure	157	Amputation of lower extremity
158	Chronic renal failure	158	Spinal fusion
159	Urinary tract infections	159	Other diagnostic procedures on musculoskeletal system
160	Calculus of urinary tract	160	Other therapeutic procedures on muscles and tendons
161	Other diseases of kidney and ureters	161	Other OR therapeutic procedures on bone

162	Other diseases of bladder and urethra	162	Other OR therapeutic procedures on joints
163	Genitourinary symptoms and ill-defined conditions	163	Other non-OR therapeutic procedures on musculoskeletal system
164	Hyperplasia of prostate	164	Other OR therapeutic procedures on musculoskeletal system
165	Inflammatory conditions of male genital organs	165	Breast biopsy and other diagnostic procedures on breast
166	Other male genital disorders	166	Lumpectomy, quadrantectomy of breast
167	Nonmalignant breast conditions	167	Mastectomy
168	Inflammatory diseases of female pelvic organs	168	Incision and drainage, skin and subcutaneous tissue
169	Endometriosis	169	Debridement of wound, infection or burn
170	Prolapse of female genital organsn	170	Excision of skin lesion
171	Menstrual disorders	171	Suture of skin and subcutaneous tissue
172	Ovarian cyst	172	Skin graft
173	Menopausal disorders	173	Other diagnostic procedures on skin and subcutaneous tissue
174	Female infertility	174	Other non-OR therapeutic procedures on skin and breast
175	Other female genital disorders	175	Other OR therapeutic procedures on skin and breast
176	Contraceptive and procreative management	176	Other organ transplantation
177	Spontaneous abortion	177	Computerized axial tomography (CT) scan head
178	Induced abortion	178	CT scan chest
179	Postabortion complications	179	CT scan abdomen
180	Ectopic pregnancy	180	Other CT scan
181	Other complications of pregnancy	181	Myelogram
182	Hemorrhage during pregnancy, abruptio placenta,placenta previa	182	Mammography
183	Hypertension complicating pregnancy, childbirth and the puerperium	183	Routine chest X-ray
184	Early or threatened labor	184	Intraoperative cholangiogram
185	Prolonged pregnancy	185	Upper gastrointestinal X-ray
186	Diabetes complicating pregnancy or birth	186	Lower gastrointestinal X-ray
187	Malposition, malpresentation	187	Intravenous pyelogram
188	Fetopelvic disproportion, obstruction	188	Cerebral arteriogram
189	Previous C-section	189	Contrast aortogram
190	Fetal distress and abnormal forces of labor	190	Contrast arteriogram of femoral and lower extremity arteries
191	Polyhydramnios and other problems of	191	Arterio- or venogram (not heart and head)

	amniotic cavity		
192	Umbilical cord complication	192	Diagnostic ultrasound of head and neck
193	Trauma to perineum and vulva	193	Diagnostic ultrasound of heart (echocardiogram)
194	Forceps delivery	194	Diagnostic ultrasound of gastrointestinal tract
195	Other complications of birth	195	Diagnostic ultrasound of urinary tract
196	Normal pregnancy and/or delivery	196	Diagnostic ultrasound of abdomen or retroperitoneum
197	Skin and subcutaneous tissue infections	197	Other diagnostic ultrasound
198	Other inflammatory condition of skin	198	Magnetic resonance imaging
199	Chronic ulcer of skin	199	Electroencephalogram (EEG)
200	Other skin disorders	200	Nonoperative urinary system measurements
201	Infective arthritis and osteomyelitis	201	Cardiac stress tests
202	Rheumatoid arthritis and related disease	202	Electrocardiogram
203	Osteoarthritis	203	Electrographic cardiac monitoring
204	Other non-traumatic joint disorders	204	Swan-Ganz catheterization for monitoring
205	Spondylosis, intervertebral disc disorders, back problems	205	Arterial blood gases
206	Osteoporosis	206	Microscopic examination (bacterial smear, culture, toxicology)
207	Pathological fracture	207	Radioisotope bone scan
208	Acquired foot deformities	208	Radioisotope pulmonary scan
209	Other acquired deformities	209	Radioisotope scan and function studies
210	Systemic lupus erythematosus and connective tissue disorders	210	Other radioisotope scan
211	Other connective tissue disease	211	Therapeutic radiology
212	Other bone disease and musculoskeletal deformities	212	Diagnostic physical therapy
213	Cardiac and circulatory congenital anomalies	213	Physical therapy exercises, manipulation, and other procedures
214	Digestive congenital anomalies	214	Traction, splints, and other wound care
215	Genitourinary congenital anomalies	215	Other physical therapy and rehabilitation
216	Nervous system congenital anomalies	216	Respiratory intubation and mechanical ventilation
217	Other congenital anomalies	217	Other respiratory therapy
218	Liveborn	218	Psychological and psychiatric evaluation and therapy
219	Short gestation, L.B.Wt, and fetal growth retardation	219	Alcohol and drug rehabilitation/detoxification
220	Intrauterine hypoxia and birth asphyxia	220	Ophthalmologic and otologic diagnosis and treatment



221	Respiratory distress syndrome<	221	Nasogastric tube
222	Hemolytic jaundice and perinatal jaundice	222	Blood transfusion
223	Birth trauma	223	Enteral and parenteral nutrition
224	Other perinatal conditions	224	Cancer chemotherapy
225	Joint disorders and dislocations, trauma-related	225	Conversion of cardiac rhythm
226	Fracture of neck of femur (hip)	226	Other diagnostic radiology and related techniques
227	Spinal cord injury	227	Other diagnostic procedures (interview, evaluation, consultation)
228	Skull and face fractures	228	Prophylactic vaccinations and inoculations
229	Fracture of upper limb	229	Nonoperative removal of foreign body
230	Fracture of lower limb	230	Extracorporeal shock wave lithotripsy, other than urinary
231	Other fractures	231	Other therapeutic procedures
232	Sprains and strains	232	Unclassified
233	Intracranial injury		
234	Crushing injury or internal injury		
235	Open wounds of head, neck, and trunk		
236	Open wounds of extremities		
237	Complication of device, implant or graft		
238	Complications of surgical procedures or medical care		
239	Superficial injury, contusion		
240	Burns		
241	Poisoning by psychotropic agents		
242	Poisoning by other medications and drugs		
243	Poisoning by nonmedicinal substances		
244	Other injuries and conditions due to external causes		
245	Syncope		
246	Fever of unknown origin		
247	Lymphadenitis		
248	Gangrene		
249	Shock		
250	Nausea and vomiting		

251	Abdominal pain
252	Malaise and fatigue
253	Allergic reactions
254	Rehabilitation care, fitting of prostheses
255	Administrative/social admission
256	Medical examination/evaluation
257	Other aftercare
258	Other screening for suspected conditions
259	Residual codes, unclassified
260	E (external causes of injury and poisoning) codes

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