

2025

Episodes of Care Risk Adjustment

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Appendix

2025 Factors and Weights

Acute Diabetes Exacerbation		
CCS Code	Factor	Weight
	Female	0.574
	Male	0.706
1.1	Bacterial infection	0.130
3.8	Fluid and electrolyte disorders	0.190
5.11	Alcohol related disorders	0.035
7.1	Hypertension	0.023
7.4	Diseases of arteries; arterioles; and capillaries	0.056
9.8	Liver disease	0.134
10.1	Diseases of the urinary system	0.180
16.10	Complications	0.211

Acute Gastroenteritis		
CCS Code	Factor	Weight
	Female	0.504
	Male	0.490
1.1	Bacterial Infection	0.128
3.2	Diabetes mellitus without complications	0.159
3.3	Diabetes mellitus with complications	0.010
3.5	Nutritional deficiencies	0.154
3.8	Fluid and electrolyte disorders	0.609
4.2	Coagulation and hemorrhagic disorders	0.103
4.3	Diseases of white blood cells	0.661
6.2	Hereditary and degenerative nervous system conditions	0.266
6.4	Epilepsy, convulsions	0.139
7.1	Hypertension	0.301
9.1	Intestinal infection	0.134
9.4	Upper gastrointestinal disorders	0.188
9.5	Abdominal hernia	0.255
9.6	Lower gastrointestinal disorders	0.490
9.7	Biliary tract disease	0.243
9.8	Liver disease	0.266
9.11	Noninfectious gastroenteritis	0.173

Acute Kidney and Ureter Stones		
CCS Code	Factor	Weight
	Female	0.852
	Male	1.028
1.1	Bacterial Infection	0.034
3.2	Diabetes mellitus without complication	0.079
3.4	Other endocrine disorders	0.072
3.8	Fluid and electrolyte disorders	0.125
7.1	Hypertension	0.120

Acute Percutaneous Coronary Intervention		
CCS Code	Factor	Weight
	Female	0.958
	Male	0.973
3.8	Fluid and electrolyte disorders	0.083
4.1	Anemia	0.005
4.3	Diseases of the white blood cells	0.049
7.3	Cerebrovascular disease	0.015
7.4	Diseases of the arteries, arterioles, and capillaries	0.014
8.5	Pleurisy, pneumothorax, pulmonary collapse	0.023
9.8	Liver disease	0.009

Acute Seizure		
CCS Code	Factor	Weight
	Female	0.696
	Male	0.858
3.8	Fluid and electrolyte disorders	0.347
4.2	Coagulation and hemorrhagic disorders	0.379
4.3	Diseases of white blood cells	0.402
5.4	Delirium Dementia, Amnestic, and other cognitive disorders	0.202
5.11	Alcohol related disorders	0.279
6.2	Hereditary and degenerative nervous system conditions	0.128
6.9	Other nervous system disorders	0.170
7.1	Hypertension	0.067
14.4	Nervous system congenital anomalies	0.302

Appendectomy		
CCS Code	Factor	Weight
	Female	0.893
	Male	0.899
1.1	Bacterial infection	0.181
3.8	Fluid and electrolyte disorders	0.159
7.1	Hypertension	0.046
8.5	Pleurisy; pneumothorax; pulmonary collapse	0.357
9.7	Biliary tract disease	0.072
9.12	Other gastrointestinal disorders	0.053
14.2	Digestive congenital anomalies	0.248
16.10	Complications	0.319

Asthma Acute Exacerbation		
CCS Code	Factor	Weight
	Female	0.732
	Male	0.778
1.3	Viral Infection	0.131
3.1	Thyroid Disorders	0.429
3.2	Diabetes mellitus without complication	0.280
3.8	Fluid and electrolyte disorders	0.250
4.3	Diseases of white blood cells	0.647
5.14	Screening and history of mental health and substance abuse codes	0.015
7.1	Hypertension	0.262

7.2	Diseases of the heart	0.215
8.5	Pleurisy; pneumothorax; pulmonary collapse	0.527
9.4	Upper gastrointestinal disorders	0.216

Attention Deficit and Hyperactivity Disorder		
CCS Code	Factor	Weight
	Female	0.807
	Male	0.829
5.1	Adjustment disorders	0.025
5.2	Anxiety disorders	0.165
5.5	Developmental disorders	0.029
5.6	Disorders usually diagnosed in infancy childhood or adolescence	0.097

Back/Neck Pain		
CCS Code	Factor	Weight
	Female	0.538
	Male	0.571
3.1	Thyroid Disorders	0.044
3.2	Diabetes mellitus without complication	0.010
6.5	Headache; including migraine	0.059
6.9	Other nervous system disorders	0.166
7.2	Diseases of the heart	0.064
7.5	Diseases of veins and lymphatics	0.059
9.8	Liver disease	0.051
13.2	Non-traumatic joint disorders	0.110
13.6	Acquired deformities	0.218
13.8	Other connective tissue disease	0.159
13.9	Other bone disease and musculoskeletal deformities	0.149
16.1	Joint disorders and dislocations, trauma related	0.061
16.7	Sprains and strains	0.168
16.10	Complications	0.118
16.12	Other injuries and conditions due to external causes	0.185

Bariatric Surgery		
CCS Code	Factor	Weight
	Female	0.879
	Male	1.144
3.3	Diabetes mellitus with complications	0.053
3.8	Fluid and electrolyte disorders	0.064
9.5	Abdominal hernia	0.108
9.6	Lower gastrointestinal disorders	0.115
16.10	Complications	0.086

Breast Biopsy		
CCS Code	Factor	Weight
	Female	0.843
	Male	0.815
2.5	Cancer of breast	0.532
2.12	Secondary malignancies	0.638
5.14	Screening and history of mental health and substance abuse codes	0.009

7.2	Diseases of the heart	0.040
7.5	Diseases of veins and lymphatics	0.029
11.1	Contraception and procreative management	0.003

Bronchiolitis		
CCS Code	Factor	Weight
	Female	0.444
	Male	0.528
1.2	Mycoses	0.022
1.3	Viral infection	0.161
3.8	Fluid and electrolyte disorders	1.271
8.3	Asthma	0.206
8.8	Other lower respiratory disease	0.392

Colposcopy		
CCS Code	Factor	Weight
	Female	0.825
1.3	Viral infection	0.135
5.12	Substance related disorders	0.068
5.14	Screening and history of mental health and substance abuse codes	0.399
11.1	Contraception and procreative management	0.126

Congestive Heart Failure Acute Exacerbation		
CCS Code	Factor	Weight
	Female	0.656
	Male	0.927
1.1	Bacterial infection	0.031
1.5	Immunizations and screening for infectious disease	0.052
3.8	Fluid and electrolyte disorders	0.150
4.2	Coagulation and hemorrhagic disorders	0.120
7.1	Hypertension	0.060
8.3	Asthma	0.023
9.8	Liver disease	0.079

COPD Acute Exacerbation		
CCS Code	Factor	Weight
	Female	0.594
	Male	0.695
1.1	Bacterial infections	0.034
3.5	Nutritional deficiencies	0.094
3.8	Fluid and electrolyte disorders	0.222
3.11	Obesity	0.108
4.3	Diseases of white blood cells	0.374
5.14	Screening and history of mental health and substance abuse codes	0.231
7.2	Diseases of the heart	0.027
8.5	Pleurisy; pneumothorax; pulmonary collapse	0.426

Coronary Artery Bypass Graft		
CCS Code	Factor	Weight
	Female	0.836
	Male	0.809
1.1	Bacterial infection	0.197
3.2	Diabetes mellitus without complication	0.014
3.3	Diabetes mellitus with complications	0.010
3.8	Fluid and electrolyte disorders	0.062
7.4	Diseases of the arteries, arterioles, and capillaries	0.049
9.8	Liver disease	0.087
9.10	Gastrointestinal hemorrhage	0.145
10.1	Diseases of the urinary system	0.060
16.10	Complications	0.060

Cystourethroscopy		
CCS Code	Factor	Weight
	Female	0.898
	Male	0.810
1.1	Bacterial infection	0.088
4.3	Diseases of white blood cells	0.294
5.14	Screening and history of mental health and substance abuse codes	0.162
9.6	Lower gastrointestinal disorders	0.138
9.8	Liver disease	0.126
16.10	Complications	0.386

Esophagogastroduodenoscopy		
CCS Code	Factor	Weight
	Female	0.835
	Male	0.839
1.1	Bacterial infection	0.037
3.8	Fluid and electrolyte disorders	0.037
5.6	Disorders diagnosed in infancy, childhood, and adolescence	0.064
5.12	Substance-related disorders	0.038
5.14	Screening and history of mental health and substance abuse codes	0.033
6.3	Paralysis	0.172
6.5	Headache; including migraine	0.026
7.2	Diseases of the heart	0.018
8.3	Asthma	0.052
8.8	Other lower respiratory disease	0.023
9.1	Intestinal infection	0.043
9.5	Abdominal hernia	0.025
9.7	Biliary tract disease	0.036
9.10	Gastrointestinal hemorrhage	0.036
9.11	Noninfectious gastroenteritis	0.052
9.12	Other gastrointestinal disorders	0.101
14.2	Digestive congenital anomalies	0.134
14.4	Nervous system congenital anomalies	0.113
16.8	Superficial injury; contusion	0.032
16.10	Complications	0.039

Femur/Pelvis Fracture		
CCS Code	Factor	Weight
	Female	0.742
	Male	0.742
3.8	Fluid and electrolyte disorders	0.144
4.1	Anemia	0.162
9.12	Other Gastrointestinal disorders	0.103
16.1	Joint disorders and dislocations; trauma-related	0.199
16.5	Crushing injury or internal injury	0.302
16.6	Open wounds	0.143

Gastrointestinal Hemorrhage		
CCS Code	Factor	Weight
	Female	0.396
	Male	0.618
3.2	Diabetes mellitus without complications	0.187
3.3	Diabetes mellitus with complications	0.177
3.8	Fluid and electrolyte disorders	0.768
4.2	Coagulation and hemorrhagic disorders	0.555
4.4	Other hematologic conditions	0.232
5.11	Alcohol-related disorders	0.260
5.14	Screening and history of mental health and substance abuse	0.149
9.8	Liver disease	0.238

Gastrointestinal Obstruction		
CCS Code	Factor	Weight
	Female	0.432
	Male	0.434
3.8	Fluid and electrolyte disorders	0.252
3.11	Obesity	0.103
4.1	Anemia	0.260
4.3	Diseases of the white blood cells	0.119
9.5	Abdominal hernia	0.150
9.6	Lower gastrointestinal disorders	0.087
9.12	Other gastrointestinal disorders	0.189
12.1	Skin and subcutaneous tissue infections	0.141

Heart Valve Replacement or Repair		
CCS Code	Factor	Weight
	Female	0.803
	Male	0.769
1.1	Bacterial infection	0.304
3.7	Gout and other crystal arthropathies	0.199
3.8	Fluid and electrolyte disorders	0.020
4.2	Coagulation and hemorrhagic disorders	0.132
7.5	Diseases of veins and lymphatics	0.103
9.7	Biliary tract disease	0.200
9.12	Other gastrointestinal disorders	0.115
12.3	Chronic ulcer of skin	0.235

Hernia Repair		
CCS Code	Factor	Weight
	Age (per year)	0.004
	Female	0.767
	Male	0.782
3.3	Diabetes mellitus with complications	0.052
3.8	Fluid and electrolyte disorders	0.245
4.3	Diseases of white blood cells	0.243
7.1	Hypertension	0.141
9.6	Lower gastrointestinal disorders	0.297
9.7	Biliary tract disease	0.189
9.8	Liver disease	0.052
9.12	Other gastrointestinal disorders	0.054
16.10	Complications	0.479

HIV Infection		
CCS Code	Factor	Weight
	Female	0.422
	Male	0.426
1.1	Bacterial infection	0.423
1.2	Mycoses	0.131
1.4	Other infections; including parasitic	0.293
3.2	Diabetes mellitus without complications	0.065
3.5	Nutritional deficiencies	0.039
3.8	Fluid and electrolyte disorders	1.272
5.12	Substance-related disorders	0.220
8.1	Respiratory infections	0.087
9.1	Intestinal infection	0.603
9.12	Other Gastrointestinal disorders	0.398
10.1	Diseases of the urinary system	0.317
12.1	Skin and subcutaneous tissue infections	0.529
12.4	Other skin disorders	0.120

Hysterectomy		
CCS Code	Factor	Weight
	Female	0.944
4.3	Diseases of the white blood cells	0.119
10.1	Diseases of the urinary system	0.058
16.10	Complications	0.128

Inpatient Urinary Tract Infection		
CCS Code	Factor	Weight
	Female	0.484
	Male	0.748
4.1	Anemia	0.055
4.2	Coagulation and hemorrhagic disorders	0.204
4.3	Diseases of the white blood cells	0.208
7.1	Hypertension	0.257
8.8	Other lower respiratory disease	0.128
9.6	Lower gastrointestinal disorders	0.188

9.7	Biliary tract disease	0.113
9.8	Liver disease	0.203
12.3	Chronic ulcer of skin	0.294
16.10	Complications	0.126

Knee Arthroscopy		
CCS Code	Factor	Weight
	Female	0.814
	Male	0.810
13.1	Infective arthritis and osteomyelitis (except that caused by TB or STD)	0.373
16.7	Sprains and strains	0.407
16.8	Other injuries and conditions due to external causes	0.056
16.12	Fractures	0.075

Non-acute Percutaneous Coronary Intervention		
CCS Code	Factor	Weight
	Age (per year)	0.002
	Female	0.841
	Male	0.844
3.2	Diabetes without complications	0.001
7.3	Cerebrovascular disease	0.058
7.4	Diseases of the arteries, arterioles, and capillaries	0.035
7.5	Diseases of the veins and lymphatics	0.025

Non-operative Ankle Injury		
CCS Code	Factor	Weight
	Female	0.525
	Male	0.496
5.12	Substance-related disorders	0.127
6.9	Other nervous system disorders	0.160
9.8	Liver disease	0.062
13.8	Other connective tissue disease	0.175
16.1	Joint disorders and dislocations; trauma-related	0.080
16.2	Fractures	0.277
16.7	Sprains and strains	0.181
16.8	Superficial injury; contusion	0.065
16.12	Other injuries and conditions due to external causes	0.354

Non-operative Knee Injury		
CCS Code	Factor	Weight
	Female	0.646
	Male	0.585
5.12	Substance-related disorders	0.085
6.9	Other nervous system disorders	0.113
13.8	Other connective tissue disease	0.040
16.1	Joint disorders and dislocations; trauma-related	0.177
16.2	Fractures	0.336
16.7	Sprains and strains	0.113
16.8	Superficial injury; contusion	0.110
16.12	Other injuries and conditions due to external causes	0.238

Non-operative Shoulder Injury		
CCS Code	Factor	Weight
	Female	0.713
	Male	0.637
3.3	Diabetes mellitus with complications	0.066
5.12	Substance related disorders	0.122
6.5	Headache; including migraine	0.066
13.8	Other connective tissue disease	0.145
16.1	Joint disorders and dislocations; trauma-related	0.313
16.2	Fractures	0.196
16.7	Sprains and strains	0.042
16.8	Superficial injury; contusion	0.013
16.12	Other injuries and conditions due to external causes	0.286

Non-operative Wrist Injury		
CCS Code	Factor	Weight
	Female	0.486
	Male	0.530
5.12	Substance-related disorders	0.173
13.8	Other connective tissue disease	0.147
16.2	Fractures	0.546
16.8	Superficial injury; contusion	0.076
16.12	Other injuries and conditions due to external causes	0.323

Oppositional Defiant Disorder		
CCS Code	Factor	Weight
	Female	0.947
	Male	0.934
5.1	Adjustment disorders	0.105
5.8	Mood disorders	0.088
5.12	Substance-related disorders	0.409

Otitis Media		
CCS Code	Factor	Weight
	Female	0.742
	Male	0.769
1.2	Mycoses	0.049
4.1	Anemia	0.034
5.5	Developmental disorders	0.319
6.9	Other nervous system disorders	0.194
7.2	Diseases of the circulatory system	0.046
7.4	Diseases of arteries; arterioles; and capillaries	0.106
8.1	Respiratory infections	0.084
8.8	Other lower respiratory disease	0.123
8.9	Other upper respiratory disease	0.048
9.2	Disorders of teeth and jaw	0.073
12.4	Other skin disorders	0.029
14.5	Other congenital anomalies	0.143
16.4	Intracranial injury	0.113

Outpatient and Non-acute Inpatient Cholecystectomy		
CCS Code	Factor	Weight
	Female	0.924
	Male	0.985
3.8	Fluid and electrolyte disorders	0.133
5.14	Screening and history of mental health and substance abuse codes	0.170
7.1	Hypertension	0.045
9.6	Lower gastrointestinal disorders	0.078
9.8	Liver disease	0.051

Outpatient Urinary Tract Infection		
CCS Code	Factor	Weight
	Female	0.719
	Male	0.764
1.1	Bacterial infection	0.280
3.8	Fluid and electrolyte disorders	0.384
4.3	Diseases of white blood cells	0.317
7.2	Diseases of the heart	0.096
9.5	Abdominal hernia	0.145
9.6	Lower gastrointestinal disorders	0.223
9.7	Biliary tract disease	0.333
9.8	Liver disease	0.356
9.12	Other gastrointestinal disorders	0.169
13.3	Spondylosis; intervertebral disc disorders; other back problems	0.245
14.3	Genitourinary congenital anomalies	0.379

Pancreatitis		
CCS Code	Factor	Weight
	Female	0.497
	Male	0.497
1.1	Bacterial infection	0.519
3.5	Nutritional deficiencies	0.266
4.3	Diseases of the white blood cells	0.048
5.11	Alcohol-related disorders	0.109
9.6	Lower GI disorders	0.304
9.7	Biliary tract disease	0.195

Pediatric Pneumonia		
CCS Code	Factor	Weight
	Female	0.578
	Male	0.685
1.1	Bacterial infection	0.246
3.5	Nutritional deficiencies	0.411
3.8	Fluid and electrolyte disorders	1.550
4.3	Diseases of the white blood cells	0.411
8.3	Asthma	0.171
8.5	Pleurisy; pneumothorax; pulmonary collapse	0.671
8.6	Respiratory failure; insufficiency; arrest (adult)	2.196

Perinatal		
CCS Code	Factor	Weight
	Female	0.884
3.2	Diabetes mellitus without complications	0.058
3.3	Diabetes mellitus with complications	0.385
3.4	Other endocrine disorders	0.199
3.5	Nutritional deficiencies	0.140
3.6	Disorders of lipid metabolism	0.107
4.2	Coagulation and hemorrhagic disorders	0.165
6.9	Other nervous system disorders	0.019
7.1	Hypertension	0.124
7.2	Diseases of the heart	0.048
7.4	Diseases of arteries; arterioles; and capillaries	0.078
8.1	Respiratory infections	0.068
9.7	Biliary tract disease	0.006
9.8	Liver disease	0.064
13.8	Other connective tissue disease	0.050
16.10	Complications	0.094

Pneumonia		
CCS Code	Factor	Weight
	Female	0.386
	Male	0.679
3.3	Diabetes mellitus with complications	0.188
3.8	Fluid and electrolyte disorders	0.858
4.3	Diseases of white blood cells	0.514
5.14	Screening and history of mental health and substance abuse	0.038
7.1	Hypertension	0.172
7.2	Diseases of the heart	0.158
8.2	Chronic obstructive pulmonary disease and Bronchiectasis	0.013

Respiratory Infection		
CCS Code	Factor	Weight
	Female	0.872
	Male	0.875
1.1	Bacterial infection	0.067
1.3	Viral infection	0.059
1.5	Immunizations and screening for infectious disease	0.027
3.5	Nutritional deficiencies	0.026
3.6	Disorders of lipid metabolism	0.022
3.8	Fluid and electrolyte disorders	0.130
3.10	Immunity disorders	0.131
4.3	Diseases of white blood cells	0.137
6.8	Ear conditions	0.006
7.2	Diseases of the heart	0.073
7.4	Diseases of arteries; arterioles; and capillaries	0.084
7.5	Diseases of the veins and lymphatics	0.046
8.2	Chronic obstructive pulmonary disease and bronchiectasis	0.081
8.3	Asthma	0.097
8.8	Other lower respiratory disease	0.136

8.9	Other upper respiratory disease	0.063
13.7	Systemic lupus erythematosus and connective tissue disorders	0.058

Screening and Surveillance Colonoscopy		
CCS Code	Factor	Weight
	Female	0.895
	Male	0.945
3.2	Diabetes mellitus without complications	0.012
5.12	Substance related disorders	0.037
7.1	Hypertension	0.019
7.5	Diseases of the veins and lymphatics	0.040
9.5	Abdominal hernia	0.026
9.6	Lower gastrointestinal disorders	0.068
9.11	Diseases of the gastrointestinal system	0.069
16.10	Complications	0.059

Skin and Soft Tissue Infections		
CCS Code	Factor	Weight
	Female	0.477
	Male	0.608
1.1	Bacterial Infection	0.483
3.2	Diabetes mellitus without complications	0.133
4.1	Anemia	0.107
5.12	Substance related disorder	0.165
5.14	Screening & history of mental health and substance abuse codes	0.172
7.1	Hypertension	0.215
7.2	Diseases of the heart	0.077
7.5	Diseases of veins and lymphatics	0.396
12.2	Other inflammatory condition of skin	0.173
12.4	Other skin disorders	0.193
13.2	Non-traumatic joint disorders	0.037
13.8	Other connective tissue disease	0.456
16.6	Open wounds	0.399
16.8	Superficial injury; contusion	0.071

Spinal Decompression Without Fusion		
CCS Code	Factor	Weight
	Female	0.833
	Male	0.886
6.9	Other nervous system disorders	0.011
7.1	Hypertension	0.127
7.5	Diseases of veins and lymphatics	0.109
13.6	Acquired deformities	0.060
13.9	Other bone disease and musculoskeletal deformities	0.002
16.10	Complications	0.451

Spinal Fusion		
CCS Code	Factor	Weight
	Female	0.593
	Male	0.674
3.8	Fluid and electrolyte disorders	0.136
3.11	Obesity	0.038
4.1	Anemia	0.248
13.6	Acquired deformities	0.427
16.10	Complications	0.331

Syncope Work-up		
CCS Code	Factor	Weight
	Age (per year)	0.006
	Female	0.289
	Male	0.289
3.8	Fluid and electrolyte disorders	0.417
6.8	Ear conditions	0.104
6.9	Other nervous system disorders	0.141
7.1	Hypertension	0.141
7.2	Diseases of the heart	0.349
7.3	Cerebrovascular disease	0.440
7.4	Diseases of the arteries, arterioles, and capillaries	0.102
9.6	Lower gastrointestinal disorders	0.152
9.8	Liver disease	0.139
16.4	Intracranial injury	0.087

Tonsillectomy		
CCS Code	Factor	Weight
	Female	0.725
	Male	0.776
3.8	Fluid and electrolyte disorders	0.143
3.11	Other nutritional, endocrine, and metabolic disorders	0.043
4.1	Anemia	0.192
4.2	Coagulation and hemorrhagic disorders	0.193
5.5	Developmental disorders	0.088
6.4	Epilepsy; convulsions	0.180
6.8	Ear conditions	0.144
6.9	Other nervous system disorders	0.051
7.4	Diseases of arteries, arterioles, and capillaries	0.097
8.3	Asthma	0.078
8.9	Other upper respiratory disease	0.043
9.12	Other gastrointestinal disorders	0.023
13.9	Other bone disease and musculoskeletal deformities	0.092
14.1	Cardiac and circulatory congenital anomalies	0.300
14.2	Digestive congenital anomalies	0.140
16.10	Complications	0.432

Total Joint Replacement		
CCS Code	Factor	Weight
	Female	0.898
	Male	0.935
1.1	Bacterial infection	0.031
3.8	Fluid and electrolytes disorders	0.015
3.11	Other nutritional, endocrine, and metabolic disorders	0.075
4.1	Anemia	0.088
7.5	Diseases of veins and lymphatics	0.012
16.10	Complications	0.095

Appendix

Developed at the Agency for Healthcare Research and Quality (AHRQ), the Clinical Classifications Software (CCS) is a hierarchical tool for clustering patient diagnoses into a manageable number of clinically meaningful categories. These categories map directly to ICD-9 and ICD-10 codes. Because the clinical classification is hierarchical, each level of factors includes the clinical categories lower in the hierarchy.

More information including an overview, complete mapping, and technical specifications for the CCS tool can be found at the following link: [Clinical Classifications Software \(CCS\) for ICD-10-CM/PCS](#).