Episodes of Care Risk Adjustment

Episode Types

Wave 1 Wave 6

<u>Asthma Acute Exacerbation</u> <u>Acute Diabetes Exacerbation</u>

Perinatal HIV Infection

Total Joint Replacement Pancreatitis

Wave 2 <u>Skin and Soft Tissue Infections</u>

<u>Acute Percutaneous Coronary Intervention</u> Wave 7

COPD Acute Exacerbation Back/Neck Pain

Non-acute Percutaneous Coronary Intervention Femur/Pelvis Fracture

Outpatient and Non-acute Inpatient Knee Arthroscopy

<u>Cholecystectomy</u> <u>Non-operative Ankle Injury</u>

Wave 3 Non-operative Shoulder Injury

Esophagogastroduodenoscopy Non-operative Wrist Injury

Gastrointestinal Hemorrhage Spinal Decompression without Fusion

<u>Inpatient Urinary Tract Infection</u> <u>Spinal Fusion</u>

Outpatient Urinary Tract Infection Wave 8

Screening and Surveillance Colonoscopy

<u>Pneumonia</u> <u>Acute Gastroenteritis</u>

 Respiratory Infection
 Acute Seizure

 Wave 4
 Appendectomy

 Attention Deficit and Hyperactivity Disorder
 Bronchiolitis

Bariatric Surgery Colposcopy

Congestive Heart Failure Acute Exacerbation Gastrointestinal Obstruction

Coronary Artery Bypass GraftHernia RepairHeart Valve Replacement or RepairHysterectomy

<u>Oppositional Defiant Disorder</u>

Wave 5

<u>Syncope Work-up</u>

Breast Biopsy Wave 9

Otitis Media Acute Kidney and Ureter Stones

<u>Tonsillectomy</u> <u>Cystourethroscopy</u>

Appendix

Non-operative Knee Injury

Factors and Weights

| Acute Diabetes Exacerbation | | |
|-----------------------------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.002 |
| | Female | 0.671 |
| | Male | 0.644 |
| 1.1 | Bacterial infection | 0.135 |
| 3.8 | Fluid and electrolyte disorders | 0.183 |
| 4.1 | Anemia | 0.120 |
| 6.3 | Paralysis | 0.245 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.087 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.213 |
| 9.8 | Liver disease | 0.108 |
| 9.10 | Gastrointestinal hemorrhage | 0.161 |

| | Acute Gastroenteritis | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.015 |
| | Female | 0.184 |
| | Male | 0.260 |
| 1.1 | Bacterial infection | 0.405 |
| 3.4 | Other endocrine disorders | 0.167 |
| 3.8 | Fluid and electrolyte disorders | 0.792 |
| 3.11 | Other nutritional; endocrine; and metabolic disorders | 0.112 |
| 4.1 | Anemia | 0.193 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.359 |
| 4.3 | Diseases of white blood cells | 0.768 |
| 5.11 | Alcohol-related disorders | 0.156 |
| 6.1 | Central nervous system infection | 0.830 |
| 6.3 | Paralysis | 0.404 |
| 7.2 | Diseases of the heart | 0.083 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.076 |
| 7.5 | Diseases of veins and lymphatics | 0.184 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.249 |
| 10 | Diseases of the genitourinary system | 0.105 |
| 14.1 | Cardiac and circulatory congenital anomalies | 0.212 |
| 14.2 | Digestive congenital anomalies | 0.570 |
| 14.5 | Other congenital anomalies | 0.172 |

| Acute Kidney and Ureter Stones | | |
|--------------------------------|---------------------------------|--------|
| CCS Code | Factor | Weight |
| | Female | 0.876 |
| | Male | 0.850 |
| 1.1 | Bacterial Infection | 0.149 |
| 3.8 | Fluid and electrolyte disorders | 0.248 |
| 4.1 | Anemia | 0.083 |
| 4.3 | Diseases of white blood cells | 0.217 |
| 5.12 | Substance-related disorders | 0.051 |
| 6.3 | Paralysis | 0.401 |

| 6.9 | Other nervous system disorders | 0.056 |
|------|--|-------|
| 7.1 | Hypertension | 0.052 |
| 7.5 | Diseases of veins and lymphatics | 0.126 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.132 |
| 9.7 | Biliary tract disease | 0.111 |
| 9.12 | Other gastrointestinal disorders | 0.079 |

| Acute Percutaneous Coronary Intervention | | |
|--|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.930 |
| | Male | 0.972 |
| 3.2 | Diabetes mellitus without complication | 0.048 |
| 3.8 | Fluid and electrolyte disorders | 0.069 |
| 14.1 | Cardiac and circulatory congenital anomalies | 0.194 |

| | Acute Seizure | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.002 |
| | Female | 0.452 |
| | Male | 0.605 |
| 3.8 | Fluid and electrolyte disorders | 0.508 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.415 |
| 4.3 | Diseases of white blood cells | 0.315 |
| 6.1 | Central nervous system infection | 1.188 |
| 6.6 | Coma; stupor; and brain damage | 0.287 |
| 6.9 | Other nervous system disorders | 0.167 |
| 7.3 | Cerebrovascular disease | 0.303 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.903 |
| 14 | Congenital Anomalies | 0.157 |

| Appendectomy | | |
|--------------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.855 |
| | Male | 0.870 |
| 1.1 | Bacterial infection | 0.248 |
| 3.8 | Fluid and electrolyte disorders | 0.200 |
| 4 | Diseases of the blood and blood-forming organs | 0.067 |
| 7.3 | Cerebrovascular disease | 0.185 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.387 |
| 9.7 | Biliary tract disease | 0.138 |
| 9.12 | Other gastrointestinal disorders | 0.071 |
| 12.1 | Skin and subcutaneous tissue infections | 0.106 |
| 14.2 | Digestive congenital anomalies | 0.247 |
| 16 | Injury and poisoning | 0.064 |

| | | sthma Acute Exacerbation |
|----------|-----------------|--------------------------|
| CCS Code | Factor | Weight |
| | Female | 0.561 |
| | Male | 0.604 |
| 1.3 | Viral Infection | 0.123 |

| 3.2 | Diabetes mellitus without complication | 0.255 |
|-----|--|-------|
| 3.8 | Fluid and electrolyte disorders | 0.672 |
| 4.3 | Diseases of white blood cells | 0.626 |
| 7.1 | Hypertension | 0.185 |
| 7.2 | Diseases of the heart | 0.195 |
| 8.2 | Chronic obstructive pulmonary disease and bronchiectasis | 0.193 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.579 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 2.031 |
| 9.4 | Upper gastrointestinal disorders | 0.217 |

| | Attention Deficit and Hyperactivity Disorder | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.827 |
| | Male | 0.879 |
| 1.4 | Other infections; including parasitic | 0.104 |
| 1.5 | Immunizations and screening for infectious disease | 0.064 |
| 5.1 | Adjustment disorders | 0.050 |
| 5.2 | Anxiety disorders | 0.115 |
| 5.5 | Developmental disorders | 0.067 |
| 5.6 | Disorders usually diagnosed in infancy childhood or adolescence | 0.100 |
| 5.8 | Mood disorders | 0.157 |
| 5.9 | Personality disorders | 0.307 |
| 5.15 | Miscellaneous mental disorders | 0.193 |
| 6.7 | Eye disorders | 0.055 |
| 8.9 | Other upper respiratory disease | 0.048 |

| Back/Neck Pain | | | |
|----------------|---|--------|--|
| CCS Code | Factor | Weight | |
| | Female | 0.081 | |
| | Male | 0.038 | |
| 5.4 | Delirium dementia and amnestic and other cognitive disorders | 0.289 | |
| 6.1 | Central nervous system infection | 0.860 | |
| 6.2 | Hereditary and degenerative nervous system conditions | 0.117 | |
| 6.5 | Headache; including migraine | 0.178 | |
| 6.9 | Other nervous system disorders | 0.177 | |
| 7.2 | Diseases of the heart | 0.082 | |
| 9.5 | Abdominal hernia | 0.168 | |
| 9.6 | Lower gastrointestinal disorders | 0.109 | |
| 9.8 | Liver disease | 0.110 | |
| 10.1 | Diseases of the urinary system | 0.052 | |
| 13.2 | Non-traumatic joint disorders | 0.140 | |
| 13.3 | Spondylosis; intervertebral disc disorders; other back problems | 0.517 | |
| 13.6 | Acquired deformities | 0.268 | |
| 13.8 | Other connective tissue disease | 0.153 | |
| 13.9 | Other bone disease and musculoskeletal deformities | 0.272 | |
| 14 | Congenital anomalies | 0.105 | |
| 16.12 | Other injuries and conditions due to external causes | 0.266 | |
| 16.7 | Sprains and strains | 0.277 | |
| 16.8 | Superficial injury; contusion | 0.074 | |

| Bariatric Surgery | | |
|-------------------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.897 |
| | Male | 0.910 |
| 3.8 | Fluid and electrolyte disorders | 0.056 |
| 5.4 | Delirium dementia and amnestic and other cognitive disorders | 0.388 |
| 6.9 | Other nervous system disorders | 0.041 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.108 |
| 9.8 | Liver disease | 0.078 |
| 16.10 | Complications | 0.181 |

| | Breast Biopsy | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.495 |
| | Male | 0.445 |
| 2 | Neoplasms | 0.094 |
| 2.5 | Cancer of breast | 0.608 |
| 2.12 | Secondary malignancies | 0.698 |
| 2.13 | Malignant neoplasm without specification of site | 0.340 |
| 5.12 | Substance-related disorders | 0.093 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.140 |
| 9.8 | Liver disease | 0.094 |
| 10 | Diseases of the genitourinary system | 0.279 |

| | Bronchiolitis | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.513 |
| | Male | 0.399 |
| 1.3 | Viral infection | 0.212 |
| 3 | Endocrine; nutritional; and metabolic diseases and immunity disorders | 0.753 |
| 7.2 | Diseases of the heart | 0.471 |
| 8.3 | Asthma | 0.479 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 1.665 |
| 13.6 | Acquired deformities | 0.633 |

| | Colposcopy | |
|----------|-----------------------------------|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.006 |
| 4.1 | Anemia | 0.119 |
| 5 | Mental Illness | 0.283 |
| 8.3 | Asthma | 0.145 |
| 9.2 | Disorders of teeth and jaw | 0.183 |
| 10.3 | Diseases of female genital organs | 0.685 |

| | Congestive Heart Failure Acute Exacerbation | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.004 |
| | Female | 0.448 |
| | Male | 0.583 |
| 3.8 | Fluid and electrolyte disorders | 0.161 |

| 4.2 | Coagulation and hemorrhagic disorders | 0.221 |
|-----|--|-------|
| 4.3 | Diseases of white blood cells | 0.133 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.270 |

| COPD Acute Exacerbation | | |
|-------------------------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.207 |
| | Male | 0.349 |
| 3 | Endocrine; nutritional; and metabolic diseases and immunity disorders | 0.199 |
| 3.8 | Fluid and electrolyte disorders | 0.325 |
| 4.3 | Diseases of white blood cells | 0.288 |
| 8.1 | Respiratory infections | 0.153 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.301 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.811 |

| | Coronary Artery Bypass Graft | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.800 |
| | Male | 0.802 |
| 1.1 | Bacterial infection | 0.102 |
| 3.7 | Gout and other crystal arthropathies | 0.081 |
| 3.8 | Fluid and electrolyte disorders | 0.062 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.086 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.047 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.073 |
| 9.12 | Other gastrointestinal disorders | 0.055 |
| 10.1 | Diseases of the urinary system | 0.053 |
| 11.6 | Other complications of birth; puerperium affecting management of mother | 0.577 |
| 12.3 | Chronic ulcer of skin | 0.156 |
| 16.10 | Complications | 0.055 |
| 16.2 | Fractures | 0.116 |

| | Cystourethroscopy | |
|----------|----------------------------------|--------|
| CCS Code | Factor | Weight |
| | Female | 0.803 |
| | Male | 0.735 |
| 1.1 | Bacterial infection | 0.155 |
| 4.3 | Diseases of white blood cells | 0.270 |
| 5 | Mental illness | 0.163 |
| 9.12 | Other gastrointestinal disorders | 0.139 |
| 16 | Injury and poisoning | 0.151 |

| | Esophagogastroduodenoscopy | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.716 |
| | Male | 0.713 |
| 1.1 | Bacterial infection | 0.037 |
| 3.8 | Fluid and electrolyte disorders | 0.026 |
| 5.12 | Substance-related disorders | 0.031 |
| 5.14 | Screening and history of mental health and substance abuse codes | 0.045 |

| 5.5 | Developmental disorders | 0.132 |
|-------|--|-------|
| 6.3 | Paralysis | 0.085 |
| 6.5 | Headache; including migraine | 0.018 |
| 8.3 | Asthma | 0.037 |
| 8.8 | Other lower respiratory disease | 0.018 |
| 9.1 | Intestinal infection | 0.039 |
| 9.11 | Noninfectious gastroenteritis | 0.044 |
| 9.12 | Other gastrointestinal disorders | 0.103 |
| 9.4 | Upper gastrointestinal disorders | 0.151 |
| 9.7 | Biliary tract disease | 0.044 |
| 14.2 | Digestive congenital anomalies | 0.105 |
| 16.12 | Other injuries and conditions due to external causes | 0.032 |

| | Femur/Pelvis Fracture | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.756 |
| | Male | 0.780 |
| 3.8 | Fluid and electrolyte disorders | 0.131 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.290 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.182 |
| 10 | Diseases of the genitourinary system | 0.117 |
| 16.1 | Joint disorders and dislocations; trauma-related | 0.167 |
| 16.5 | Crushing injury or internal injury | 0.290 |
| 16.8 | Superficial injury; contusion | 0.162 |

| | Gastrointestinal Hemorrhage | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.004 |
| 3.8 | Fluid and electrolyte disorders | 0.413 |
| 4.1 | Anemia | 0.742 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.335 |
| 4.3 | Diseases of white blood cells | 0.238 |
| 4.4 | Other hematologic conditions | 0.238 |
| 5.11 | Alcohol-related disorders | 0.164 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.164 |
| 8.4 | Aspiration pneumonitis; food/vomitus | 0.812 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.227 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.223 |
| 9.4 | Upper gastrointestinal disorders | 0.209 |
| 9.5 | Abdominal hernia | 0.224 |
| 14.1 | Cardiac and circulatory congenital anomalies | 0.463 |
| 14.2 | Digestive congenital anomalies | 0.460 |

| Gastrointestinal Obstruction | | |
|------------------------------|---------------------------------|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.003 |
| | Female | 0.394 |
| | Male | 0.452 |
| 3.5 | Nutritional deficiencies | 0.089 |
| 3.8 | Fluid and electrolyte disorders | 0.211 |

| 3.11 | Other nutritional; endocrine; and metabolic disorders | 0.082 |
|-------|---|-------|
| 4.1 | Anemia | 0.125 |
| 6.9 | Other nervous system disorders | 0.121 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.316 |
| 16.10 | Complications | 0.313 |

| | Heart Valve Replacement or Repair | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.778 |
| | Male | 0.732 |
| 1.1 | Bacterial infection | 0.231 |
| 3.7 | Gout and other crystal arthropathies | 0.138 |
| 3.8 | Fluid and electrolyte disorders | 0.076 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.081 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.153 |
| 9.7 | Biliary tract disease | 0.207 |
| 9.10 | Gastrointestinal hemorrhage | 0.217 |
| 12.3 | Chronic ulcer of skin | 0.309 |
| 16.10 | Complications | 0.072 |
| 16.11 | Poisoning | 0.255 |
| 16.5 | Crushing injury or internal injury | 0.277 |

| | Hernia Repair | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.004 |
| | Female | 0.638 |
| | Male | 0.530 |
| 1.4 | Other infections; including parasitic | 0.155 |
| 2.6 | Cancer of uterus and cervix | 0.246 |
| 2.8 | Cancer of male genital organs | 0.232 |
| 2.9 | Cancer of urinary organs | 0.253 |
| 2.13 | Malignant neoplasm without specification of site | 0.528 |
| 3.3 | Diabetes mellitus with complications | 0.094 |
| 3.8 | Fluid and electrolyte disorders | 0.201 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.177 |
| 4.3 | Diseases of white blood cells | 0.181 |
| 6.9 | Other nervous system disorders | 0.114 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.272 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.264 |
| 9.6 | Lower gastrointestinal disorders | 0.236 |
| 9.7 | Biliary tract disease | 0.247 |
| 9.12 | Other gastrointestinal disorders | 0.098 |
| 10.3 | Diseases of female genital organs | 0.084 |
| 14.3 | Genitourinary congenital anomalies | 0.162 |
| 16.6 | Open wounds | 0.186 |
| 16.10 | Complications | 0.367 |

| | | HIV Infection | |
|----------|--------|---------------|--------|
| CCS Code | Factor | | Weight |
| | Female | | 1.000 |
| | Male | | 1.000 |

| Hysterectomy | | |
|--------------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.893 |
| 3.8 | Fluid and electrolyte disorders | 0.083 |
| 4 | Diseases of the blood and blood-forming organs | 0.057 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.167 |
| 9.6 | Lower gastrointestinal disorders | 0.133 |
| 10.1 | Diseases of the urinary system | 0.056 |
| 16.10 | Complications | 0.223 |

| Inpatient Urinary Tract Infection | | |
|-----------------------------------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.007 |
| | Female | 0.385 |
| | Male | 0.334 |
| 1.1 | Bacterial infection | 0.266 |
| 3 | Endocrine; nutritional; and metabolic diseases and immunity disorders | 0.138 |
| 4 | Diseases of the blood and blood-forming organs | 0.103 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.174 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.196 |
| 14.3 | Genitourinary congenital anomalies | 0.186 |
| 14.4 | Nervous system congenital anomalies | 0.246 |

| Knee Arthroscopy | | | |
|------------------|---|--------|--|
| CCS Code | Factor | Weight | |
| | Female | 0.730 | |
| | Male | 0.740 | |
| 6.9 | Other nervous system disorders | 0.189 | |
| 13.1 | Infective arthritis and osteomyelitis (except that caused by TB or STD) | 0.374 | |
| 16.2 | Fractures | 0.134 | |
| 16.7 | Sprains and strains | 0.362 | |

| | Non-acute Percutaneous Coronary Intervention | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.002 |
| | Female | 0.696 |
| | Male | 0.723 |
| 3 | Endocrine; nutritional; and metabolic diseases and immunity disorders | 0.184 |

| Non-operative Ankle Injury | | |
|----------------------------|---------------------------------|--------|
| CCS Code | Factor | Weight |
| | Female | 0.427 |
| | Male | 0.408 |
| 3.8 | Fluid and electrolyte disorders | 0.067 |
| 5.12 | Substance-related disorders | 0.088 |

| 6.3 | Paralysis | 0.253 |
|-------|---|-------|
| 6.9 | Other nervous system disorders | 0.112 |
| 13.1 | Infective arthritis and osteomyelitis (except that caused by TB or STD) | 0.380 |
| 13.2 | Non-traumatic joint disorders | 0.279 |
| 13.8 | Other connective tissue disease | 0.144 |
| 16.2 | Fractures | 0.299 |
| 16.7 | Sprains and strains | 0.271 |
| 16.12 | Other injuries and conditions due to external causes | 0.148 |

| | Non-operative Knee Injury | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.431 |
| | Male | 0.377 |
| 3.4 | Other endocrine disorders | 0.097 |
| 5.12 | Substance-related disorders | 0.075 |
| 6.9 | Other nervous system disorders | 0.070 |
| 13.2 | Non-traumatic joint disorders | 0.327 |
| 13.8 | Other connective tissue disease | 0.044 |
| 16.1 | Joint disorders and dislocations; trauma-related | 0.130 |
| 16.2 | Fractures | 0.326 |
| 16.7 | Sprains and strains | 0.068 |
| 16.8 | Superficial injury; contusion | 0.112 |
| 16.12 | Other injuries and conditions due to external causes | 0.220 |

| | Non-operative Shoulder Injury | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.491 |
| | Male | 0.450 |
| 3.8 | Fluid and electrolyte disorders | 0.126 |
| 6.3 | Paralysis | 0.295 |
| 6.5 | Headache; including migraine | 0.072 |
| 13.2 | Non-traumatic joint disorders | 0.385 |
| 13.3 | Spondylosis; intervertebral disc disorders; other back problems | 0.054 |
| 13.8 | Other connective tissue disease | 0.049 |
| 16.1 | Joint disorders and dislocations; trauma-related | 0.267 |
| 16.2 | Fractures | 0.195 |
| 16.12 | Other injuries and conditions due to external causes | 0.245 |

| Non-operative Wrist Injury | | |
|----------------------------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.417 |
| | Male | 0.496 |
| 1.4 | Other infections; including parasitic | 0.165 |
| 5.5 | Developmental disorders | 0.260 |
| 5.12 | Substance-related disorders | 0.109 |
| 13.2 | Non-traumatic joint disorders | 0.151 |
| 13.8 | Other connective tissue disease | 0.104 |
| 16.2 | Fractures | 0.571 |
| 16.12 | Other injuries and conditions due to external causes | 0.301 |

| Oppositional Defiant Disorder | | |
|-------------------------------|-----------------------------|--------|
| CCS Code | Factor | Weight |
| | Female | 0.912 |
| | Male | 0.952 |
| 5.1 | Adjustment disorders | 0.314 |
| 5.12 | Substance-related disorders | 0.457 |

| | Otitis Media | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.702 |
| | Male | 0.714 |
| 1.2 | Mycoses | 0.072 |
| 1.3 | Viral infection | 0.056 |
| 3.8 | Fluid and electrolyte disorders | 0.178 |
| 3.10 | Immunity disorders | 0.164 |
| 3.11 | Other nutritional; endocrine; and metabolic disorders | 0.030 |
| 4 | Diseases of the blood and blood-forming organs | 0.057 |
| 4.3 | Diseases of white blood cells | 0.103 |
| 5.5 | Developmental disorders | 0.377 |
| 5.6 | Disorders usually diagnosed in infancy childhood or adolescence | 0.073 |
| 5.12 | Substance-related disorders | 0.157 |
| 5.14 | Screening and history of mental health and substance abuse codes | 0.052 |
| 6.1 | Central nervous system infection | 0.389 |
| 6.3 | Paralysis | 0.183 |
| 6.4 | Epilepsy; convulsions | 0.243 |
| 6.5 | Headache; including migraine | 0.105 |
| 6.9 | Other nervous system disorders | 0.110 |
| 7 | Diseases of the circulatory system | 0.083 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.135 |
| 8.1 | Respiratory infections | 0.025 |
| 8.2 | Chronic obstructive pulmonary disease and bronchiectasis | 0.041 |
| 8.3 | Asthma | 0.032 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.119 |
| 8.8 | Other lower respiratory disease | 0.134 |
| 8.9 | Other upper respiratory disease | 0.085 |
| 9.2 | Disorders of teeth and jaw | 0.090 |
| 9.3 | Diseases of mouth; excluding dental | 0.059 |
| 9.11 | Noninfectious gastroenteritis | 0.071 |
| 9.12 | Other gastrointestinal disorders | 0.091 |
| 12 | Diseases of the skin and subcutaneous tissue | 0.035 |
| 12.4 | Other skin disorders | 0.048 |
| 13.3 | Spondylosis; intervertebral disc disorders; other back problems | 0.048 |
| 14.4 | Nervous system congenital anomalies | 0.106 |
| 14.5 | Other congenital anomalies | 0.089 |
| 15.7 | Other perinatal conditions | 0.133 |
| 16.1 | Joint disorders and dislocations; trauma-related | 0.092 |
| 16.4 | Intracranial injury | 0.090 |
| 16.12 | Other injuries and conditions due to external causes | 0.044 |

| | Outpatient and Non-acute Inpatient Cholecystectomy | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.882 |
| | Male | 0.894 |
| 2.12 | Secondary malignancies | 0.339 |
| 2.9 | Cancer of urinary organs | 0.221 |
| 3.8 | Fluid and electrolyte disorders | 0.129 |
| 4.3 | Diseases of white blood cells | 0.090 |
| 5.12 | Substance-related disorders | 0.049 |
| 6.9 | Other nervous system disorders | 0.052 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.068 |
| 9.5 | Abdominal hernia | 0.069 |
| 9.6 | Lower gastrointestinal disorders | 0.067 |
| 9.8 | Liver disease | 0.067 |
| 9.9 | Pancreatic disorders (not diabetes) | 0.254 |
| 16.10 | Complications | 0.184 |

| | Outpatient Urinary Tract Infection | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.662 |
| | Male | 0.810 |
| 1.1 | Bacterial infection | 0.292 |
| 2.8 | Cancer of male genital organs | 0.518 |
| 3.8 | Fluid and electrolyte disorders | 0.440 |
| 4.3 | Diseases of white blood cells | 0.273 |
| 5.12 | Substance-related disorders | 0.311 |
| 5.14 | Screening and history of mental health and substance abuse codes | 0.088 |
| 6.5 | Headache; including migraine | 0.073 |
| 9 | Diseases of the digestive system | 0.069 |
| 9.5 | Abdominal hernia | 0.118 |
| 9.6 | Lower gastrointestinal disorders | 0.243 |
| 9.7 | Biliary tract disease | 0.210 |
| 9.8 | Liver disease | 0.360 |
| 9.12 | Other gastrointestinal disorders | 0.127 |
| 11.1 | Contraceptive and procreative management | 0.062 |
| 13.3 | Spondylosis; intervertebral disc disorders; other back problems | 0.176 |
| 14.3 | Genitourinary congenital anomalies | 0.356 |

| | Pancreatitis | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.663 |
| | Male | 0.738 |
| 1.1 | Bacterial infection | 0.181 |
| 3.10 | Immunity disorders | 1.093 |
| 4.1 | Anemia | 0.098 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.131 |
| 4.3 | Diseases of white blood cells | 0.110 |
| 4.4 | Other hematologic conditions | 0.263 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.329 |
| 9.7 | Biliary tract disease | 0.245 |

| | Pediatric Pneumonia | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.490 |
| | Male | 0.465 |
| 2.13 | Malignant neoplasm without specification of site | 4.424 |
| 3.5 | Nutritional deficiencies | 0.631 |
| 3.8 | Fluid and electrolyte disorders | 1.477 |
| 4 | Diseases of the blood and blood-forming organs | 0.342 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.871 |
| 7.2 | Diseases of the heart | 0.260 |
| 7.5 | Diseases of veins and lymphatics | 0.873 |
| 8.3 | Asthma | 0.170 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.669 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 1.684 |
| 13.7 | Systemic lupus erythematosus and connective tissue disorders | 2.161 |

| | Perinatal | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.022 |
| 1 | Infectious and parasitic diseases | 0.120 |
| 1.1 | Bacterial infection | 0.077 |
| 1.4 | Other infections; including parasitic | 0.054 |
| 3 | Endocrine; nutritional; and metabolic diseases and immunity disorders | 0.067 |
| 4.1 | Anemia | 0.067 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.082 |
| 4.3 | Diseases of white blood cells | 0.120 |
| 5 | Mental Illness | 0.053 |
| 6.1 | Central nervous system infection | 0.294 |
| 6.3 | Paralysis | 0.194 |
| 6.4 | Epilepsy; convulsions | 0.094 |
| 6.5 | Headache; including migraine | 0.040 |
| 6.6 | Coma; stupor; and brain damage | 0.099 |
| 6.7 | Eye disorders | 0.029 |
| 7.1 | Hypertension | 0.055 |
| 7.2 | Diseases of the heart | 0.091 |
| 7.3 | Cerebrovascular disease | 0.142 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.060 |
| 8 | Diseases of the respiratory system | 0.022 |
| 9.11 | Noninfectious gastroenteritis | 0.046 |
| 9.12 | Other gastrointestinal disorders | 0.043 |
| 9.6 | Lower gastrointestinal disorders | 0.057 |
| 9.7 | Biliary tract disease | 0.121 |
| 9.9 | Pancreatic disorders (not diabetes) | 0.200 |
| 10.1 | Diseases of the urinary system | 0.074 |
| 10.3 | Diseases of female genital organs | 0.096 |
| 13 | Diseases of the musculoskeletal system and connective tissue | 0.024 |
| 14.1 | Cardiac and circulatory congenital anomalies | 0.120 |
| 14.3 | Genitourinary congenital anomalies | 0.084 |
| 14.5 | Other congenital anomalies | 0.049 |

| 16.10 | Complications | 0.108 |
|-------|--|-------|
| 16.12 | Other injuries and conditions due to external causes | 0.054 |
| 16.5 | Crushing injury or internal injury | 0.121 |
| 16.6 | Open wounds | 0.036 |

| | Pneumonia | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.264 |
| | Male | 0.406 |
| 1.1 | Bacterial infection | 0.642 |
| 3.8 | Fluid and electrolyte disorders | 0.693 |
| 3.11 | Other nutritional; endocrine; and metabolic disorders | 0.185 |
| 4.1 | Anemia | 0.332 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.286 |
| 4.3 | Diseases of white blood cells | 0.437 |
| 7.1 | Hypertension | 0.136 |
| 7.2 | Diseases of the heart | 0.187 |
| 9 | Diseases of the digestive system | 0.097 |

| | Respiratory Infection | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.001 |
| | Female | 0.775 |
| | Male | 0.762 |
| 3.8 | Fluid and electrolyte disorders | 0.181 |
| 3.10 | Immunity disorders | 0.150 |
| 3.11 | Other nutritional; endocrine; and metabolic disorders | 0.019 |
| 4.3 | Diseases of white blood cells | 0.171 |
| 5.12 | Substance-related disorders | 0.079 |
| 5.13 | Suicide and intentional self-inflicted injury | 0.057 |
| 6 | Diseases of the nervous system and sense organs | 0.015 |
| 7 | Diseases of the circulatory system | 0.075 |
| 8.2 | Chronic obstructive pulmonary disease and bronchiectasis | 0.120 |
| 8.3 | Asthma | 0.108 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.289 |
| 8.8 | Other lower respiratory disease | 0.184 |
| 8.9 | Other upper respiratory disease | 0.093 |
| 9.12 | Other gastrointestinal disorders | 0.052 |
| 9.3 | Diseases of mouth; excluding dental | 0.055 |
| 10.1 | Diseases of the urinary system | 0.029 |
| 10.3 | Diseases of female genital organs | 0.018 |
| 12.4 | Other skin disorders | 0.028 |
| 13 | Diseases of the musculoskeletal system and connective tissue | 0.028 |

| Screening and Surveillance Colonoscopy | | | |
|--|-------------------|--------|--|
| CCS Code | Factor | Weight | |
| | Female | 0.645 | |
| | Male | 0.672 | |
| 2.1 | Colorectal cancer | 0.083 | |
| 2.16 | Benign neoplasms | 0.245 | |

| 3.3 | Diabetes mellitus with complications | 0.043 |
|------|--|-------|
| 5.12 | Substance-related disorders | 0.110 |
| 5.14 | Screening and history of mental health and substance abuse codes | 0.082 |
| 7.1 | Hypertension | 0.036 |
| 7.5 | Diseases of veins and lymphatics | 0.036 |
| 8.2 | Chronic obstructive pulmonary disease and bronchiectasis | 0.026 |
| 9 | Diseases of the digestive system | 0.023 |
| 9.1 | Intestinal infection | 0.058 |
| 9.11 | Noninfectious gastroenteritis | 0.082 |
| 9.12 | Other gastrointestinal disorders | 0.047 |
| 9.6 | Lower gastrointestinal disorders | 0.046 |
| 9.7 | Biliary tract disease | 0.053 |
| 11 | Complications of pregnancy; childbirth; and the puerperium | 0.023 |
| | | |

| | Skin and Soft Tissue Infections | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.002 |
| | Female | 0.421 |
| | Male | 0.507 |
| 1 | Infectious and parasitic diseases | 0.043 |
| 4.1 | Anemia | 0.228 |
| 4.2 | Coagulation and hemorrhagic disorders | 0.210 |
| 4.3 | Diseases of white blood cells | 0.698 |
| 5 | Mental Illness | 0.165 |
| 6.1 | Central nervous system infection | 0.670 |
| 6.3 | Paralysis | 0.210 |
| 6.6 | Coma; stupor; and brain damage | 0.221 |
| 6.9 | Other nervous system disorders | 0.101 |
| 7.1 | Hypertension | 0.124 |
| 7.2 | Diseases of the heart | 0.120 |
| 7.4 | Diseases of arteries; arterioles; and capillaries | 0.142 |
| 7.5 | Diseases of veins and lymphatics | 0.337 |
| 8.2 | Chronic obstructive pulmonary disease and bronchiectasis | 0.061 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.422 |
| 9.2 | Disorders of teeth and jaw | 0.099 |
| 9.6 | Lower gastrointestinal disorders | 0.111 |
| 9.8 | Liver disease | 0.104 |
| 9.9 | Pancreatic disorders (not diabetes) | 0.371 |
| 9.12 | Other gastrointestinal disorders | 0.055 |
| 13 | Diseases of the musculoskeletal system and connective tissue | 0.298 |
| 16 | Injury and poisoning | 0.165 |

| Spinal Decompression Without Fusion | | |
|-------------------------------------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.002 |
| | Female | 0.693 |
| | Male | 0.732 |
| 1.1 | Bacterial infection | 0.126 |
| 2.15 | Maintenance chemotherapy; radiotherapy | 0.977 |
| 3.8 | Fluid and electrolyte disorders | 0.127 |

| 4 | Diseases of the blood and blood-forming organs | 0.167 |
|-------|---|-------|
| 5.4 | Delirium dementia and amnestic and other cognitive disorders | 0.363 |
| 5.6 | Disorders usually diagnosed in infancy childhood or adolescence | 0.335 |
| 6.1 | Central nervous system infection | 0.720 |
| 6.3 | Paralysis | 0.966 |
| 6.9 | Other nervous system disorders | 0.086 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.217 |
| 13.1 | Infective arthritis and osteomyelitis (except that caused by TB or STD) | 0.525 |
| 13.5 | Pathological fracture | 0.453 |
| 16.2 | Fractures | 0.167 |
| 16.10 | Complications | 0.354 |

| | Spinal Fusion | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Female | 0.844 |
| | Male | 0.880 |
| 1.1 | Bacterial infection | 0.092 |
| 3.8 | Fluid and electrolyte disorders | 0.063 |
| 4.1 | Anemia | 0.143 |
| 6.1 | Central nervous system infection | 0.219 |
| 6.3 | Paralysis | 0.350 |
| 7.2 | Diseases of the heart | 0.047 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.156 |
| 12.3 | Chronic ulcer of skin | 0.166 |
| 13.6 | Acquired deformities | 0.045 |
| 16.2 | Fractures | 0.077 |
| 16.3 | Spinal cord injury | 0.294 |
| 16.10 | Complications | 0.078 |

| | Syncope Work-up | |
|----------|--|--------|
| CCS Code | Factor | Weight |
| | Age (per year) | 0.006 |
| | Female | 0.145 |
| | Male | 0.251 |
| 3.8 | Fluid and electrolyte disorders | 0.356 |
| 4.3 | Diseases of white blood cells | 0.163 |
| 5.11 | Alcohol-related disorders | 0.183 |
| 5.12 | Substance-related disorders | 0.104 |
| 5.14 | Screening and history of mental health and substance abuse codes | 0.142 |
| 6.4 | Epilepsy; convulsions | 0.094 |
| 6.5 | Headache; including migraine | 0.127 |
| 6.8 | Ear conditions | 0.101 |
| 6.9 | Other nervous system disorders | 0.090 |
| 7.1 | Hypertension | 0.095 |
| 7.2 | Diseases of the heart | 0.324 |
| 7.3 | Cerebrovascular disease | 0.479 |
| 8.8 | Other lower respiratory disease | 0.119 |
| 14.4 | Nervous system congenital anomalies | 0.426 |
| 16.12 | Other injuries and conditions due to external causes | 0.108 |

| | Tonsillectomy | |
|----------|---|--------|
| CCS Code | Factor | Weight |
| | Female | 0.775 |
| | Male | 0.810 |
| 3.8 | Fluid and electrolyte disorders | 0.109 |
| 4 | Diseases of the blood and blood-forming organs | 0.107 |
| 5.5 | Developmental disorders | 0.074 |
| 6.3 | Paralysis | 0.308 |
| 6.4 | Epilepsy; convulsions | 0.099 |
| 6.8 | Ear conditions | 0.157 |
| 7 | Diseases of the circulatory system | 0.050 |
| 8.3 | Asthma | 0.075 |
| 8.4 | Aspiration pneumonitis; food/vomitus | 0.646 |
| 8.5 | Pleurisy; pneumothorax; pulmonary collapse | 0.233 |
| 8.6 | Respiratory failure; insufficiency; arrest (adult) | 0.281 |
| 8.9 | Other upper respiratory disease | 0.039 |
| 9.10 | Gastrointestinal hemorrhage | 0.114 |
| 14.1 | Cardiac and circulatory congenital anomalies | 0.274 |
| 14.2 | Digestive congenital anomalies | 0.112 |
| 15.2 | Short gestation; low birth weight; and fetal growth retardation | 0.194 |
| 16.10 | Complications | 0.419 |

| Total Joint Replacement | | | |
|-------------------------|---|--------|--|
| CCS Code | Factor | Weight | |
| | Female | 0.911 | |
| | Male | 0.920 | |
| 1.1 | Bacterial infection | 0.107 | |
| 4.1 | Anemia | 0.059 | |
| 4.4 | Other hematologic conditions | 0.062 | |
| 6.9 | Other nervous system disorders | 0.043 | |
| 12.3 | Chronic ulcer of skin | 0.126 | |
| 13.1 | Infective arthritis and osteomyelitis (except that caused by TB or STD) | 0.237 | |
| 16.6 | Open wounds | 0.082 | |
| 16.10 | Complications | 0.096 | |

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: <u>Clinical Classifications Software (CCS) for ICD-10-CM/PCS</u>.