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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 1 | HIV/AIDS | 0.344 |  |
|  | Human immunodeficiency virus [HIV] disease |  | B20 |
| 2 | Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock | 0.428 |  |
|  | Gram-negative sepsis, unspecified |  | A41.50 |
|  | Sepsis, unspecified organism |  | A41.9 |
| 6 | Opportunistic Infections | 0.446 |  |
|  | Pneumocystis |  | B59 |
| 8 | Metastatic Cancer and Acute Leukemia | 2.654 |  |
|  | Secondary malignant neoplasm of unspecified site |  | C79.9 |
| 9 | Lung and Other Severe Cancers | 1.027 |  |
|  | Malignant neoplasm of lower lobe, unspecified bronchus or lung |  | C34.30 |
|  | Multiple myeloma in remission |  | C90.01 |
|  | Other Severe (e.g., Mesothelioma, Pancreas, Gallbladder, Liver, Stomach, Esophagus, Small intestine) |  |  |
| 10 | Lymphoma and Other Cancers | 0.675 |  |
|  | Secondary and unspecified malignant neoplasm of lymph node, unspecified |  | C77.9 |
|  | Hodgkin lymphoma, unspecified, unspecified site |  | C81.90 |
|  | Unspecified B-cell lymphoma, unspecified site |  | C85.10 |
|  | Non-Hodgkin lymphoma, unspecified, unspecified site |  | C85.90 |
|  | Other (e.g., Brain, Endocrine, Ovary, Connective & Soft tissue, Peripheral nerves) |  |  |
| 11 | Colorectal, Bladder, and Other Cancers | 0.309 |  |
|  | Malignant neoplasm of colon, unspecified |  | C18.9 |
|  | Malignant neoplasm of bladder, unspecified |  | C67.9 |
|  | Malignant neoplasm of unspecified kidney, except renal pelvis |  | C64.9 |
|  | Other (e.g., Mouth, Tongue, Salivary Glands, Nasopharynx, Sinuses, Ear, Labia, Cervix) |  |  |
| 12 | Breast, Prostate, and Other Cancers and Tumors | 0.153 |  |
|  | Malignant neoplasm of unspecified site of unspecified female breast |  | C50.919 |
|  | Malignant neoplasm of prostate |  | C61 |
|  | Malignant neoplasm of endometrium |  | C54.1 |
|  | Other (e.g., Penis, Eye, Musculoskeletal, Melanoma, Brain benign, Merkel cell, Carcinoid) |  |  |
| 17 | Diabetes with Acute Complications | 0.307 |  |
|  | Type 1 diabetes mellitus with ketoacidosis without coma |  | E10.10 |
|  | Type 2 diabetes mellitus with ketoacidosis without coma |  | E11.10 |
| 18 | Diabetes with Chronic Complications | 0.307 |  |
|  | Type 2 diabetes mellitus with diabetic chronic kidney disease |  | E11.22 |
|  | Type 2 diabetes mellitus with other circulatory complications |  | E11.59 |
| 19 | Diabetes without Complication | 0.106 |  |
|  | Type 2 diabetes mellitus without complications |  | E11.9 |
| 21 | Protein-Calorie Malnutrition | 0.554 |  |
|  | Mild protein-calorie malnutrition |  | E44.1 |
| 22 | Morbid Obesity | 0.262 |  |
|  | Body mass index (BMI) 40.0-44.9, adult |  | Z68.41 |
|  | Class 2 (BMI 35-39.9) severe obesity with serious comorbidity in adult |  | E66.01 |
| 23 | Other Significant Endocrine and Metabolic Disorders | 0.212 |  |
|  | Hyperparathyroidism, unspecified |  | E21.3 |
|  | Secondary hyperparathyroidism of renal origin |  | N25.81 |

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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 27 | End-Stage Liver Disease | 0.913 |  |
|  | Chronic hepatic failure without coma |  | K72.10 |
| 28 | Cirrhosis of Liver | 0.381 |  |
|  | Alcoholic cirrhosis of liver without ascites |  | K70.30 |
|  | Other cirrhosis of liver |  | K74.69 |
| 29 | Chronic Hepatitis | 0.153 |  |
|  | Chronic viral hepatitis, unspecified |  | B18.9 |
| 33 | Intestinal Obstruction/Perforation | 0.243 |  |
|  | Fecal impaction |  | K56.41 |
| 34 | Chronic Pancreatitis | 0.308 |  |
|  | Other chronic pancreatitis |  | K86.1 |
| 35 | Inflammatory Bowel Disease | 0.315 |  |
|  | Crohn's disease, unspecified, without complications |  | K50.90 |
|  | Other ulcerative colitis without complications |  | K51.80 |
| 39 | Bone/Join/Muscle Infections/Necrosis | 0.431 |  |
|  | Arthritis due to other bacteria, unspecified joint |  | M00.80 |
|  | Direct infection of unspec. joint in infectious and parasitic diseases classified elsewhere |  | M01.X0 |
|  | Other reactive arthropathies, unspecified site |  | M02.80 |
|  | Reactive arthropathy, unspecified |  | M02.9 |
|  | Osteomyelitis, unspecified |  | M86.9 |
| 40 | Rheumatoid Arthritis and Inflammatory Connective Tissue Disease | 0.426 |  |
|  | Other rheumatoid arthritis with rheumatoid factor of unspecified site |  | M05.80 |
|  | Rheumatoid arthritis with rheumatoid factor, unspecified |  | M05.9 |
|  | Rheumatoid arthritis without rheumatoid factor, unspecified site |  | M06.00 |
| 46 | Severe Hematological Disorders | 1.394 |  |
|  | Refractory anemia, unspecified |  | D46.4 |
|  | Sickle-cell disease without crisis |  | D57.1 |
| 47 | Disorders of Immunity | 0.683 |  |
|  | Antineoplastic chemotherapy induced pancytopenia |  | D61.810 |
|  | Neutropenia, unspecified |  | D70.9 |
| 48 | Coagulation Defects and Other Specified Hematologic Disorders | 0.214 |  |
|  | Sickle-cell trait |  | D57.3 |
|  | Antiphospholipid syndrome |  | D68.61 |
|  | Senile Purpura |  | D69.2 |
|  | Thrombocytopenia, unspecified |  | D69.6 |
| 54 | Drug/Alcohol Psychosis | 0.368 |  |
|  | Alcohol dependence with withdrawal delirium |  | F10.231 |
|  | Cannabis abuse with psychotic disorder, unspecified |  | F12.159 |
| 55 | Substance Use Disorder, Moderate/Severe, or Substance Use with Complications | 0.368 |  |
|  | Alcohol dependence, uncomplicated |  | F10.20 |
|  | Alcohol dependence, in remission |  | F10.21 |
|  | Opioid dependence, uncomplicated |  | F11.20 |
|  | Opioid dependence, in remission |  | F11.21 |
| 56 | Substance Use Disorder, Mild, Except Alcohol and Cannabis | 0.368 |  |
|  | Drug abuse (can specify amphetamines, barbiturates, cocaine, hallucinogens, opioids, etc.) |  | F19.10 |

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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 57 | Schizophrenia | 0.606 |  |
|  | Schizophrenia, unspecified |  | F20.9 |
| 58 | Reactive and Unspecified Psychosis  | 0.546 |  |
|  | Atypical psychosis |  | F29 |
|  | Unspecified psychosis not due to a substance or known physiological condition |  | F29 |
| 59 | Major Depressive, Bipolar, and Paranoid Disorders | 0.353 |  |
|  | Major depressive disorder, recurrent, mild |  | F33.0 |
| 60 | Personality Disorders | 0.353 |  |
|  | Personality disorder, Unspec. (others: Antisocial, Borderline, Manipulative, Narcissistic, etc.) |  | F60.9 |
| 70 | Quadriplegia | 1.338 |  |
|  | Quadriplegia, unspecified |  | G82.50 |
|  | Functional quadriplegia |  | R53.2 |
| 71 | Paraplegia | 1.121 |  |
|  | Paraplegia, unspecified |  | G82.20 |
| 72 | Spinal cord Disorders/ Injuries | 0.519 |  |
|  | Myelitis, unspecified |  | G04.91 |
|  | Unspecified injury at unspecified level of thoracic spinal cord, subsequent encounter |  | S24.109D |
|  | Unspecified injury at unspecified level of thoracic spinal cord, sequela |  | S24.109S |
|  | Complete lesion of unspecified level of lumbar spinal cord, sequela |  | S34.119S |
|  | Incomplete lesion of unspecified level of lumbar spinal cord, subsequent encounter |  | S34.129D |
| 73 | Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease | 1.026 |  |
|  | Amyotrophic lateral sclerosis |  | G12.21 |
| 74 | Cerebral Palsy | 0.354 | G80.9 |
| 75 | Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome, Inflammatory and Toxic Neuropathy | 0.491 |  |
|  | Myasthenia gravis without (acute) exacerbation |  | G70.00 |
|  | Myoneural disorder, unspecified |  | G70.9 |
| 76 | Muscular Dystrophy | 0.533 | G71.0 |
| 77 | Multiple Sclerosis | 0.441 | G35 |
| 78 | Parkinson’s and Huntington’s Diseases | 0.686 |  |
|  | Parkinson's disease |  | G20 |
|  | Huntington's disease |  | G10 |
| 79 | Seizure Disorders and Convulsions | 0.277 |  |
|  | Other seizures |  | G40.89 |
|  | Epilepsy, unspecified, not intractable, without status epilepticus |  | G40.909 |
| 80 | Coma, Brain Compression/Anoxic Damage | 0.575 |  |
|  | Persistent vegetative state |  | R40.3 |
|  | Anoxic brain damage, not elsewhere classified |  | G93.1 |
| 82 | Respirator Dependence/Tracheostomy Status | 1.051 |  |
|  | Encounter for attention to tracheostomy |  | Z43.0 |
|  | Dependence on respirator [ventilator] status |  | Z99.11 |
| 83 | Respiratory Arrest | 0.404 | R09.2 |
| 84 | Cardio-Respiratory Failure and Shock | 0.314 |  |
|  | Chronic respiratory failure with hypoxia |  | J96.11 |
|  | Chronic respiratory failure with hypercapnia |  | J96.12 |

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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 85 | Congestive Heart Failure | 0.310 |  |
|  | Hypertensive heart disease with heart failure |  | I11.0 |
|  | Pulmonary hypertension, unspecified |  | I27.20 |
|  | Cardiomyopathy, unspecified |  | I42.9 |
|  | Unspecified systolic (congestive) heart failure |  | I50.20 |
|  | Chronic systolic (congestive) heart failure |  | I50.22 |
|  | Unspecified diastolic (congestive) heart failure |  | I50.30 |
|  | Chronic diastolic (congestive) heart failure |  | I50.32 |
|  | Heart failure, unspecified |  | I50.9 |
| 86 | Acute Myocardial Infarction | 0.220 |  |
|  | Other myocardial infarction type |  | I21.A9 |
| 87 | Unstable Angina and Other Acute Ischemic Heart Disease | 0.219 |  |
|  | Unstable angina |  | I20.0 |
| 88 | Angina Pectoris | 0.143 |  |
|  | Angina pectoris, unspecified |  | I20.9 |
|  | Stable angina |  | I20.8 |
| 96 | Specified Heart Arrhythmias | 0.271 |  |
|  | Unspecified atrial fibrillation |  | I48.91 |
|  | Sick sinus syndrome |  | I49.5 |
|  | Supraventricular Tachycardia |  | I47.1 |
| 99 | Cerebral Hemorrhage | 0.276 |  |
|  | Other nontraumatic subarachnoid hemorrhage |  | I60.8 |
|  | Other nontraumatic intracerebral hemorrhage |  | I61.8 |
| 100 | Ischemic or Unspecified Stroke | 0.276 |  |
|  | Cerebral infarction due to thrombosis of unspecified carotid artery |  | I63.039 |
|  | Cerebral infarction, unspecified |  | I63.9 |
| 103 | Hemiplegia/Hemiparesis | 0.498 |  |
|  | Hemiplegia and hemiparesis following unspec. cerebrovascular disease affecting unspec. side |  | I69.359 |
| 104 | Monoplegia, Other Paralytic Syndromes | 0.368 |  |
|  | Monoplegia, unspecified affecting unspecified side |  | G83.30 |
| 106 | Atherosclerosis of the Extremities with Ulceration or Gangrene | 1.537 |  |
|  | Gas gangrene |  | A48.0 |
|  | Gangrene, not elsewhere classified |  | I96 |
| 107 | Vascular Disease with Complications | 0.401 |  |
|  | Chronic pulmonary embolism |  | I27.82 |
|  | Embolism and thrombosis of arteries of extremities, unspecified |  | I74.4 |
|  | Varicose veins of unspecified lower extremity with ulcer of unspecified site |  | I83.009 |
| 108 | Vascular Disease | 0.305 |  |
|  | Atherosclerosis of aorta |  | I70.0 |
|  | Unspecified atherosclerosis of native arteries of extremity, unspecified extremity |  | I70.209 |
|  | Aortic aneurysm of unspecified site, without rupture |  | I71.9 |
|  | Peripheral vascular disease, unspecified |  | I73.9 |
|  | Phlebitis & thrombophlebitis of unspecified deep vessels of unspecified lower extremity |  | I80.209 |
|  | Acute embolism & thrombosis of unspecified deep veins of unspecified lower extremity |  | I82.409 |
|  | Chronic embolism & thrombosis of unspecified deep veins of unspecified lower |  | I82.509 |

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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 110 | Cystic Fibrosis | 0.509 |  |
|  | Cystic fibrosis, unspecified |  | E84.9 |
| 111 | Chronic Obstructive Pulmonary Disease | 0.335 |  |
|  | Emphysema, unspecified |  | J43.9 |
|  | Chronic obstructive pulmonary disease, unspecified |  | J44.9 |
| 112 | Fibrosis of Lung and Other Chronic Lung Disorders | 0.216 |  |
|  | Pulmonary fibrosis, unspecified |  | J84.10 |
|  | Interstitial pulmonary disease, unspecified |  | J84.9 |
| 114 | Aspiration and Specified Bacterial Pneumonias | 0.612 |  |
|  | Pneumonitis due to inhalation of food and vomit |  | J69.0 |
| 115 | Pneumococcal Pneumonia, Empyema, Lung Abscess | 0.164 |  |
|  | Pneumonia due to Streptococcus pneumoniae |  | J13 |
|  | Abscess of lung with pneumonia |  | J85.1 |
| 122 | Proliferative Diabetic Retinopathy and Vitreous Hemorrhage | 0.232 |  |
|  | Vitreous hemorrhage, unspecified eye |  | H43.10 |
|  | Vitreous hemorrhage, bilateral |  | H43.13 |
| 124 | Exudative Macular Degeneration | 0.522 |  |
|  | Exudative age-related macular degeneration, unspecified eye, stage unspecified |  | H35.3290 |
| 134 | Dialysis Status | 0.474 |  |
|  | Other mechanical complication of intraperitoneal dialysis catheter, sequela |  | T85.691S |
| 135 | Acute Renal Failure | 0.474 |  |
|  | Other acute kidney failure |  | N17.8 |
| 136 | Chronic Kidney Disease, Stage 5 | 0.284 | N18.5 |
| 137 | Chronic Kidney Disease, Severe (Stage 4) | 0.284 | N18.4 |
| 138 | Chronic kidney disease, Moderate (Stage 3) | 0.068 | N18.3 |
| 157 | Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone | 2.112 |  |
|  | Pressure ulcer of unspecified site, stage 4 |  | L89.94 |
| 158 | Pressure Ulcer of Skin with Full Thickness Skin Loss | 1.153 |  |
|  | Pressure ulcer of unspecified site, stage 3 |  | L89.93 |
|  | Pressure ulcer of unspecified site, unstageable |  | L89.95 |
| 161 | Chronic Ulcer of Skin, Except Pressure | 0.551 |  |
|  | Non-pressure chronic ulcer of skin of other sites with unspecified severity |  | L98.499 |
| 162 | Severe Skin Burn or Condition | 0.262 |  |
|  | Burns involving 10-19% of body surface with 10-19% third degree burns |  | T31.11 |
|  | Stevens-Johnson syndrome |  | L51.1 |
| 166 | Severe Head Injury | 0.575 |  |
|  | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter |  | S06.9X5A |
| 167 | Major Head Injury | 0.143 |  |
|  | Unspecified fracture of skull, sequela |  | S02.91XS |
|  | Unspecified fracture of facial bones, sequela |  | S02.92XS |
|  | Diffuse traumatic brain injury without loss of consciousness, sequela |  | S06.2X0S |
|  | Diffuse traumatic brain injury with loss of consciousness of unspecified duration, sequela |  | S06.2X9S |
|  | Traumatic subdural hemorrhage without loss of consciousness, sequela |  | S06.5X0S |
|  | Traumatic subarachnoid hemorrhage without loss of consciousness, sequela |  | S06.6X0S |

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| HCCCategory | **HCC Category Descriptor / Example Diagnoses** | 2019 HCCValue | ICD-10Code |
| 169 | Vertebral Fractures without Spinal Cord Injury | 0.508 |  |
|  | Collapsed vertebra, not elsewhere classified, site unspec., initial encounter for fracture |  | M48.50XA |
|  | Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture |  | M80.88XA |
|  | Fracture of neck, unspecified, initial encounter |  | S12.9XXA |
|  | Wedge compression fracture of unspecified thoracic vertebra, initial encounter for closed fracture |  | S22.000A |
|  | Other fracture of sacrum, initial encounter for closed fracture |  | S32.19XA |
|  | Fracture of coccyx, initial encounter for closed fracture |  | S32.2XXA |
|  | Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture |  | M80.08XA |
| 170 | Hip Fracture/Dislocation | 0.406 |  |
|  | Pathological fracture, unspecified femur, initial encounter for fracture |  | M84.453A |
|  | Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture |  | M84.559A |
|  | Unspecified fracture of unspecified ilium, initial encounter for closed fracture |  | S32.309A |
|  | Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture |  | S32.409A |
|  | Unspecified fracture of unspecified ischium, initial encounter for closed fracture |  | S32.609A |
|  | Fracture of other parts of pelvis, initial encounter for closed fracture |  | S32.89XA |
| 173 | Traumatic Amputations and Complications | 0.249 |  |
|  | Partial traumatic transmetacarpal amputation of unspecified hand, initial encounter |  | S68.729A |
|  | Partial traumatic amputation of unspecified great toe, initial encounter |  | S98129A |
| 176 | Complications of Specified Implanted Device or Graft | 0.609 |  |
|  | Other cystostomy complication |  | N99.518 |
| 186 | Major Organ Transplant or Replacement Status | 0.855 |  |
| 188 | Artificial Openings for Feeding or Elimination | 0.581 |  |
|  | Encounter for attention to gastrostomy |  | Z43.1 |
|  | Encounter for attention to ileostomy |  | Z43.2 |
|  | Encounter for attention to colostomy |  | Z43.3 |
|  | Encounter for attention to cystostomy |  | Z43.5 |
| 189 | Amputation Status, Lower Limb/Amputation Complications | 0.567 |  |
|  | Phantom limb syndrome with pain |  | G54.6 |
|  | Partial traumatic transmetacarpal amputation of unspecified hand, sequela |  | S68.729S |
|  | Partial traumatic amputation of unspecified great toe, subsequent encounter |  | S98.129D |

* CMS uses a Hierarchical Condition Category (HCC) risk adjustment model to calculate patient risk scores to predict health care costs. Scores are used to adjust capitated payments for beneficiaries enrolled in Medicare Advantage and to determine expected costs in Medicare Shared Savings Programs (ACOs).
* Total Risk Adjustment Factor (RAF) Score = Demographics + Diagnoses + Interactions
* Each year CMS publishes a "denominator" to convert risk scores into dollar amounts. The 2019 denominator is $9,367.34. Multiplying the risk score by this denominator results in an estimated annual expenditure for a beneficiary.
* The diagnoses above often are “unspecified” only as examples. It is important to code to the highest level of specificity to achieve an accurate risk score. All active diagnoses need to be documented and resubmitted each year.
* E/M documentation must support all submitted diagnoses. Proper documentation of each diagnosis must demonstrate the provider is Monitoring, Evaluating, Assessing/Addressing, or Treating (MEAT) the condition yearly.
* Useful Tool: Risk score calculator resource--<http://www.hccuniversity.com/risk-score-calculator/>

**Disclaimer:** HCC Risk Adjustment values vary based on beneficiary demographics, RA model, specificity of the diagnosis reported, and change year to year. Unspecified diagnosis code ranges are used throughout this resource simply as a reference point for you to then select the appropriate specified code based on your patient’s conditions. HCC values listed are based on the 2019 CMS HCC Model for community non-dual aged beneficiaries.