

Long-term Enhanced Accountable Care Organization Design (LEAD) Model

Risk Adjustment Overview

August 2026

Version History

Version Number	Update	Date	Updates
1.0	First release	August 17, 2026	N/A
1.1	Update		Updates include: ▪ Two corrections to CMMI Prospective Model v1 table headers ▪ Clarification regarding how relative factors are calculated ▪ The amount of the institutional add-on factor for the CMMI Prospective Model v1

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1. Coefficient estimates for CMMI HCC Concurrent Risk Adjustment Model v2

Risk adjustment is intended to predict expenditures at the population level rather than for any individual beneficiary.

Relative factors are based on a model mean of \$40,225.

Variable	Label	Estimate	Relative factor
F0_34	Female, Age 0-34	\$2,477	0.0616
F35_44	Female, Age 35-44	\$2,477	0.0616
F45_54	Female, Age 45-54	\$2,477	0.0616
F55_59	Female, Age 55-59	\$2,477	0.0616
F60_64	Female, Age 60-64	\$2,477	0.0616
F65_69	Female, Age 65-69	\$3,119	0.0775
F70_74	Female, Age 70-74	\$3,119	0.0775
F75_79	Female, Age 75-79	\$3,119	0.0775
F80_84	Female, Age 80-84	\$3,119	0.0775
F85_89	Female, Age 85-89	\$3,119	0.0775
F90_94	Female, Age 90-94	\$4,017	0.0999
F95_GT	Female, Age 95+	\$6,243	0.1552
M0_34	Male, Age 0-34	\$2,159	0.0537
M35_44	Male, Age 35-44	\$2,159	0.0537
M45_54	Male, Age 45-54	\$2,159	0.0537
M55_59	Male, Age 55-59	\$2,159	0.0537
M60_64	Male, Age 60-64	\$2,159	0.0537
M65_69	Male, Age 65-69	\$2,159	0.0537
M70_74	Male, Age 70-74	\$2,159	0.0537
M75_79	Male, Age 75-79	\$2,159	0.0537
M80_84	Male, Age 80-84	\$2,159	0.0537
M85_89	Male, Age 85-89	\$2,159	0.0537
M90_94	Male, Age 90-94	\$2,159	0.0537
M95_GT	Male, Age 95+	\$4,147	0.1031
HCC1	HIV/AIDS	\$6,546	0.1627
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$24,266	0.6033
HCC6	Opportunistic Infections	\$18,368	0.4566
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$47,616	1.1837

Variable	Label	Estimate	Relative factor
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$27,010	0.6715
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$19,034	0.4732
HCC20	Lung and Other Severe Cancers	\$11,863	0.2949
HCC21	Lymphoma and Other Cancers	\$2,068	0.0514
HCC22	Bladder, Colorectal, and Other Cancers	\$2,068	0.0514
HCC23	Prostate, Breast, and Other Cancers and Tumors	(\$0)	0.0000
HCC35	Pancreas Transplant Status	\$1,018	0.0253
HCC36	Diabetes with Severe Acute Complications	\$980	0.0244
HCC37	Diabetes with Chronic Complications	\$980	0.0244
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$980	0.0244
HCC48	Morbid Obesity	\$432	0.0107
HCC49	Specified Lysosomal Storage Disorders	\$106,389	2.6448
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$9,287	0.2309
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$6,392	0.1589
HCC62	Liver Transplant Status/Complications	\$7,333	0.1823
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$17,604	0.4376
HCC64	Cirrhosis of Liver	\$5,097	0.1267
HCC65	Chronic Hepatitis	\$5,097	0.1267
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$5,097	0.1267
HCC77	Intestine Transplant Status/Complications	\$43,189	1.0737
HCC78	Intestinal Obstruction/Perforation	\$17,112	0.4254
HCC79	Chronic Pancreatitis	\$2,193	0.0545
HCC80	Crohn's Disease (Regional Enteritis)	\$1,082	0.0269
HCC81	Ulcerative Colitis	\$932	0.0232
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$14,491	0.3603
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$1,780	0.0443

Variable	Label	Estimate	Relative factor
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$0	0.0000
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$3,313	0.0824
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$3,313	0.0824
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$19,745	0.4909
HCC111	Hemophilia, Male	\$88,100	2.1902
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$7,119	0.1770
HCC114	Common Variable and Combined Immunodeficiencies	\$28,267	0.7027
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$9,652	0.2399
HCC125	Dementia, Severe	\$4,937	0.1227
HCC126	Dementia, Moderate	\$4,937	0.1227
HCC127	Dementia, Mild or Unspecified	\$4,937	0.1227
HCC135	Drug Use with Psychotic Complications	\$17,085	0.4247
HCC136	Alcohol Use with Psychotic Complications	\$3,691	0.0918
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$2,962	0.0736
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$2,962	0.0736
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	\$343	0.0085
HCC151	Schizophrenia	\$9,072	0.2255
HCC152	Psychosis, Except Schizophrenia	\$8,625	0.2144
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$5,836	0.1451
HCC154	Bipolar Disorders without Psychosis	\$1,738	0.0432
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$1,715	0.0426
HCC180	Quadriplegia	\$10,169	0.2528
HCC181	Paraplegia	\$7,037	0.1749
HCC182	Spinal Cord Disorders/Injuries	\$7,037	0.1749

Variable	Label	Estimate	Relative factor
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$8,076	0.2008
HCC191	Quadriplegic Cerebral Palsy	\$0	0.0000
HCC192	Cerebral Palsy, Except Quadriplegic	(\$0)	0.0000
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$17,847	0.4437
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$60,258	1.4980
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$11,757	0.2923
HCC197	Muscular Dystrophy	(\$0)	0.0000
HCC198	Multiple Sclerosis	\$6,633	0.1649
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$3,438	0.0855
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	(\$0)	0.0000
HCC201	Seizure Disorders and Convulsions	\$0	0.0000
HCC202	Coma, Brain Compression/Anoxic Damage	\$17,604	0.4376
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$62,749	1.5600
HCC212	Respiratory Arrest	\$13,144	0.3268
HCC213	Cardio-Respiratory Failure and Shock	\$13,144	0.3268
HCC221	Heart Transplant Status/Complications	\$34,563	0.8592
HCC222	End Stage Heart Failure	\$47,020	1.1689
HCC223	Heart Assist Device/Artificial Heart	\$47,020	1.1689
HCC224	Acute on Chronic Heart Failure	\$3,931	0.0977
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$3,931	0.0977
HCC226	Heart Failure, Except End Stage and Acute	\$3,931	0.0977
HCC227	Cardiomyopathy/Myocarditis	\$0	0.0000
HCC228	Acute Myocardial Infarction	\$11,438	0.2843
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$7,169	0.1782
HCC238	Specified Heart Arrhythmias	\$3,635	0.0904
HCC248	Intracranial Hemorrhage	\$16,077	0.3997
HCC249	Ischemic or Unspecified Stroke	\$4,691	0.1166
HCC253	Hemiplegia/Hemiparesis	\$5,528	0.1374

Variable	Label	Estimate	Relative factor
HCC254	Monoplegia, Other Paralytic Syndromes	\$2,436	0.0606
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$16,437	0.4086
HCC264	Vascular Disease with Complications	\$11,783	0.2929
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$9,857	0.2450
HCC276	Lung Transplant Status/Complications	\$32,108	0.7982
HCC277	Cystic Fibrosis	\$7,031	0.1748
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$3,443	0.0856
HCC279	Severe Persistent Asthma	\$3,443	0.0856
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$0	0.0000
HCC282	Aspiration and Specified Bacterial Pneumonias	\$16,227	0.4034
HCC283	Empyema, Lung Abscess	\$16,227	0.4034
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	(\$0)	0.0000
HCC300	Exudative Macular Degeneration	\$642	0.0160
HCC326	Chronic Kidney Disease, Stage 5	\$22,634	0.5627
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$1,849	0.0460
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	(\$0)	0.0000
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	(\$0)	0.0000
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$32,975	0.8198
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$18,529	0.4606
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$18,529	0.4606
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$13,098	0.3256
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$2,622	0.0652
HCC385	Severe Skin Burn	\$82,712	2.0562
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$1,006	0.0250

Variable	Label	Estimate	Relative factor
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$8,607	0.2140
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$8,607	0.2140
HCC399	Major Head Injury without Loss of Consciousness	\$8,607	0.2140
HCC401	Vertebral Fractures without Spinal Cord Injury	\$9,388	0.2334
HCC402	Hip Fracture/Dislocation	\$23,248	0.5779
HCC405	Traumatic Amputations and Complications	\$16,901	0.4202
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$809	0.0201
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	\$26,926	0.6694
HCC463	Artificial Openings for Feeding or Elimination	\$13,355	0.3320
LT65_PG49_FRAC	Age <65 # of eligible 4-9 months post-graft /tot elig months	\$6,987	0.1737
LT65_PG10P_FRAC	Age <65 # of eligible 10+ months post-graft /tot elig months	(\$0)	0.0000
GE65_PG49_FRAC	Age >= 65 # of eligible 4-9 months post-graft /tot elig months	\$9,211	0.2290
GE65_PG10P_FRAC	Age >= 65 # of eligible 10+ months post-graft /tot elig months	(\$0)	0.0000
HN_JAN1	First HN identification as of Jan 1	\$2,219	0.0552
HN_Q2	First HN identification as of Q2	\$10,079	0.2506
HN_Q3	First HN identification as of Q3	\$14,309	0.3557
HN_Q4	First HN identification as of Q4	\$10,100	0.2511
D5	# of payment HCCs =5	\$584	0.0145
D6	# of payment HCCs =6	\$2,379	0.0591
D7	# of payment HCCs =7	\$5,567	0.1384
D8	# of payment HCCs =8	\$10,161	0.2526
D9	# of payment HCCs =9	\$15,629	0.3885
D10	# of payment HCCs =10	\$22,422	0.5574
D11	# of payment HCCs =11	\$30,442	0.7568
D12	# of payment HCCs =12	\$40,191	0.9992
D13	# of payment HCCs =13	\$50,510	1.2557
D14	# of payment HCCs =14	\$62,309	1.5490
D15P	# of payment HCCs >=15	\$89,302	2.2201

Variable	Label	Estimate	Relative factor
HCC107_LT65	Age<65 * Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$15,776	0.3922
HCC108_LT65	Age<65 * Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$6,212	0.1544
HCC109_LT65	Age<65 * Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$12,466	0.3099
HCC111_LT65	Age<65 * Hemophilia, Male	\$360,121	8.9527
HCC277_LT65	Age<65 * Cystic Fibrosis	\$4,806	0.1195
HCC326_LT65	Age<65 * Chronic Kidney Disease, Stage 5	\$2,145	0.0533
HCC327_LT65	Age<65 * Chronic Kidney Disease, Severe (Stage 4)	\$717	0.0178

2. Coefficient estimates for CMMI HCC Prospective Risk Adjustment Model v1

Risk adjustment is intended to predict expenditures at the population level rather than for any individual beneficiary.

Relative factors are based on a model mean of \$7,152. Segment means are not used in that calculation and have been removed.

The institutional add-on factor is \$1,873 per beneficiary per year and is applied in addition to all other risk adjustment variables. High Needs beneficiaries are risk-adjusted via the Concurrent model above.

2.1 Community Non-Dual Aged

Variable	Label	Estimate	Relative factor
F0_34	F0_34	#N/A	#N/A
F35_44	F35_44	#N/A	#N/A
F45_54	F45_54	#N/A	#N/A
F55_59	F55_59	#N/A	#N/A
F60_64	F60_64	#N/A	#N/A
F65_69	F65_69	\$4,014	0.5613
F70_74	F70_74	\$4,635	0.6480
F75_79	F75_79	\$5,285	0.7390
F80_84	F80_84	\$5,715	0.7991
F85_89	F85_89	\$6,337	0.8861
F90_94	F90_94	\$7,629	1.0668
F95_GT	F95_GT	\$8,575	1.1991
M0_34	M0_34	#N/A	#N/A
M35_44	M35_44	#N/A	#N/A
M45_54	M45_54	#N/A	#N/A
M55_59	M55_59	#N/A	#N/A
M60_64	M60_64	#N/A	#N/A
M65_69	M65_69	\$4,059	0.5675
M70_74	M70_74	\$4,619	0.6459
M75_79	M75_79	\$5,280	0.7384
M80_84	M80_84	\$5,915	0.8270
M85_89	M85_89	\$6,450	0.9019
M90_94	M90_94	\$7,478	1.0456
M95_GT	M95_GT	\$8,847	1.2370
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	\$1,721	0.2407
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	\$381	0.0533
HCC1	HIV/AIDS	\$1,354	0.1893

Variable	Label	Estimate	Relative factor
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$1,647	0.2302
HCC6	Opportunistic Infections	\$1,520	0.2126
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$23,835	3.3329
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$15,214	2.1273
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$15,214	2.1273
HCC20	Lung and Other Severe Cancers	\$7,203	1.0072
HCC21	Lymphoma and Other Cancers	\$4,426	0.6189
HCC22	Bladder, Colorectal, and Other Cancers	\$3,173	0.4437
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,016	0.2819
HCC35	Pancreas Transplant Status	\$5,189	0.7256
HCC36	Diabetes with Severe Acute Complications	\$0	0.0000
HCC37	Diabetes with Chronic Complications	\$0	0.0000
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$0	0.0000
HCC48	Morbid Obesity	\$1,674	0.2340
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$7,527	1.0524
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$3,805	0.5320
HCC62	Liver Transplant Status/Complications	(\$0)	0.0000
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$4,291	0.5999
HCC64	Cirrhosis of Liver	\$2,548	0.3563
HCC65	Chronic Hepatitis	(\$0)	0.0000
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$2,013	0.2815
HCC77	Intestine Transplant Status/Complications	(\$0)	0.0000
HCC78	Intestinal Obstruction/Perforation	\$2,118	0.2962
HCC79	Chronic Pancreatitis	\$2,465	0.3447
HCC80	Crohn's Disease (Regional Enteritis)	\$5,681	0.7944
HCC81	Ulcerative Colitis	\$3,256	0.4553
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$2,928	0.4095
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$5,489	0.7676

Variable	Label	Estimate	Relative factor
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$2,861	0.4001
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	(\$0)	0.0000
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	(\$0)	0.0000
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$3,985	0.5572
HCC111	Hemophilia, Male	\$3,371	0.4714
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$3,371	0.4714
HCC114	Common Variable and Combined Immunodeficiencies	\$25,792	3.6064
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$4,299	0.6012
HCC125	Dementia, Severe	\$4,039	0.5648
HCC126	Dementia, Moderate	\$4,039	0.5648
HCC127	Dementia, Mild or Unspecified	\$4,039	0.5648
HCC135	Drug Use with Psychotic Complications	\$2,965	0.4145
HCC136	Alcohol Use with Psychotic Complications	\$2,459	0.3439
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$2,459	0.3439
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$1,908	0.2668
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	(\$0)	0.0000
HCC151	Schizophrenia	\$3,405	0.4761
HCC152	Psychosis, Except Schizophrenia	\$3,405	0.4761
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$3,405	0.4761
HCC154	Bipolar Disorders without Psychosis	\$3,176	0.4441
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$2,566	0.3588
HCC180	Quadriplegia	\$5,765	0.8061
HCC181	Paraplegia	\$4,408	0.6164
HCC182	Spinal Cord Disorders/Injuries	\$4,408	0.6164
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$9,144	1.2786
HCC191	Quadriplegic Cerebral Palsy	\$5,462	0.7638
HCC192	Cerebral Palsy, Except Quadriplegic	(\$0)	0.0000

Variable	Label	Estimate	Relative factor
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$24,693	3.4528
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$8,457	1.1825
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$8,457	1.1825
HCC197	Muscular Dystrophy	(\$0)	0.0000
HCC198	Multiple Sclerosis	\$0	0.0000
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$4,880	0.6824
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$2,391	0.3343
HCC201	Seizure Disorders and Convulsions	\$1,493	0.2088
HCC202	Coma, Brain Compression/Anoxic Damage	\$2,222	0.3107
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$2,724	0.3809
HCC212	Respiratory Arrest	\$1,573	0.2199
HCC213	Cardio-Respiratory Failure and Shock	\$1,573	0.2199
HCC221	Heart Transplant Status/Complications	\$4,373	0.6115
HCC222	End Stage Heart Failure	\$2,367	0.3310
HCC223	Heart Assist Device/Artificial Heart	\$2,367	0.3310
HCC224	Acute on Chronic Heart Failure	\$2,367	0.3310
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$2,367	0.3310
HCC226	Heart Failure, Except End Stage and Acute	\$2,367	0.3310
HCC227	Cardiomyopathy/Myocarditis	\$1,634	0.2285
HCC228	Acute Myocardial Infarction	\$1,745	0.2441
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$1,745	0.2441
HCC238	Specified Heart Arrhythmias	\$2,862	0.4001
HCC248	Intracranial Hemorrhage	\$1,410	0.1972
HCC249	Ischemic or Unspecified Stroke	\$1,410	0.1972
HCC253	Hemiplegia/Hemiparesis	(\$0)	0.0000
HCC254	Monoplegia, Other Paralytic Syndromes	\$0	0.0000
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$4,852	0.6785
HCC264	Vascular Disease with Complications	\$3,534	0.4942
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$1,720	0.2406
HCC276	Lung Transplant Status/Complications	\$10,253	1.4337
HCC277	Cystic Fibrosis	\$9,486	1.3264
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$9,486	1.3264

Variable	Label	Estimate	Relative factor
HCC279	Severe Persistent Asthma	\$9,486	1.3264
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$2,199	0.3075
HCC282	Aspiration and Specified Bacterial Pneumonias	\$1,944	0.2719
HCC283	Empyema, Lung Abscess	(\$0)	0.0000
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$3,981	0.5566
HCC300	Exudative Macular Degeneration	\$7,292	1.0197
HCC326	Chronic Kidney Disease, Stage 5	\$3,703	0.5178
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$2,392	0.3345
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	\$0	0.0000
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	(\$0)	0.0000
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$5,711	0.7986
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$5,711	0.7986
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$4,810	0.6725
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$4,810	0.6725
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$4,084	0.5710
HCC385	Severe Skin Burn	\$0	0.0000
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$2,746	0.3840
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$1,560	0.2181
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$1,560	0.2181
HCC399	Major Head Injury without Loss of Consciousness	\$1,560	0.2181
HCC401	Vertebral Fractures without Spinal Cord Injury	\$3,294	0.4605
HCC402	Hip Fracture/Dislocation	\$2,273	0.3179
HCC405	Traumatic Amputations and Complications	\$5,550	0.7761
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$4,210	0.5886
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	\$1,709	0.2389
HCC463	Artificial Openings for Feeding or Elimination	\$2,718	0.3800
DIABETES_HF_V28	DIABETES_HF_V28	\$816	0.1141
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	\$0	0.0000

Variable	Label	Estimate	Relative factor
HF_KIDNEY_V28	HF_KIDNEY_V28	\$0	0.0000
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$1,136	0.1588
HF_HCC238_V28	HF_HCC238_V28	\$0	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	#N/A	#N/A

2.2 Community Partial Benefit Dual Aged

Variable	Label	Estimate	Relative factor
F0_34	F0_34	#N/A	#N/A
F35_44	F35_44	#N/A	#N/A
F45_54	F45_54	#N/A	#N/A
F55_59	F55_59	#N/A	#N/A
F60_64	F60_64	#N/A	#N/A
F65_69	F65_69	\$3,421	0.4784
F70_74	F70_74	\$3,980	0.5566
F75_79	F75_79	\$4,642	0.6491
F80_84	F80_84	\$5,139	0.7185
F85_89	F85_89	\$5,666	0.7923
F90_94	F90_94	\$6,788	0.9492
F95_GT	F95_GT	\$8,047	1.1252
M0_34	M0_34	#N/A	#N/A
M35_44	M35_44	#N/A	#N/A
M45_54	M45_54	#N/A	#N/A
M55_59	M55_59	#N/A	#N/A
M60_64	M60_64	#N/A	#N/A
M65_69	M65_69	\$3,196	0.4469
M70_74	M70_74	\$3,478	0.4863
M75_79	M75_79	\$3,723	0.5206
M80_84	M80_84	\$4,496	0.6287
M85_89	M85_89	\$4,965	0.6942
M90_94	M90_94	\$5,223	0.7303
M95_GT	M95_GT	\$5,571	0.7790
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	\$985	0.1378
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	\$518	0.0725
HCC1	HIV/AIDS	\$918	0.1283
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$916	0.1280
HCC6	Opportunistic Infections	\$1,276	0.1785
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$15,103	2.1119
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$15,103	2.1119
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$15,103	2.1119
HCC20	Lung and Other Severe Cancers	\$7,468	1.0442

Variable	Label	Estimate	Relative factor
HCC21	Lymphoma and Other Cancers	\$4,683	0.6548
HCC22	Bladder, Colorectal, and Other Cancers	\$3,337	0.4667
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,318	0.3241
HCC35	Pancreas Transplant Status	\$0	0.0000
HCC36	Diabetes with Severe Acute Complications	\$1,325	0.1853
HCC37	Diabetes with Chronic Complications	\$1,325	0.1853
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$1,325	0.1853
HCC48	Morbid Obesity	\$1,039	0.1452
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$4,886	0.6832
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$4,420	0.6180
HCC62	Liver Transplant Status/Complications	(\$0)	0.0000
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$4,717	0.6596
HCC64	Cirrhosis of Liver	\$2,036	0.2847
HCC65	Chronic Hepatitis	\$1,447	0.2023
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$1,659	0.2320
HCC77	Intestine Transplant Status/Complications	\$0	0.0000
HCC78	Intestinal Obstruction/Perforation	\$1,924	0.2690
HCC79	Chronic Pancreatitis	\$1,242	0.1736
HCC80	Crohn's Disease (Regional Enteritis)	\$5,336	0.7461
HCC81	Ulcerative Colitis	\$2,544	0.3557
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$3,066	0.4288
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$3,716	0.5196
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$2,779	0.3886
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$7,430	1.0390
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$3,522	0.4925
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$4,841	0.6769
HCC111	Hemophilia, Male	\$3,173	0.4437
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$3,173	0.4437

Variable	Label	Estimate	Relative factor
HCC114	Common Variable and Combined Immunodeficiencies	\$19,506	2.7275
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$2,634	0.3684
HCC125	Dementia, Severe	\$2,858	0.3997
HCC126	Dementia, Moderate	\$2,858	0.3997
HCC127	Dementia, Mild or Unspecified	\$2,858	0.3997
HCC135	Drug Use with Psychotic Complications	\$8,687	1.2147
HCC136	Alcohol Use with Psychotic Complications	\$2,634	0.3684
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$2,634	0.3684
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$1,548	0.2165
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	\$1,548	0.2165
HCC151	Schizophrenia	\$2,769	0.3871
HCC152	Psychosis, Except Schizophrenia	\$2,769	0.3871
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$2,769	0.3871
HCC154	Bipolar Disorders without Psychosis	\$2,769	0.3871
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$2,238	0.3129
HCC180	Quadriplegia	\$4,132	0.5777
HCC181	Paraplegia	\$4,132	0.5777
HCC182	Spinal Cord Disorders/Injuries	\$4,132	0.5777
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$11,837	1.6551
HCC191	Quadriplegic Cerebral Palsy	\$3,822	0.5344
HCC192	Cerebral Palsy, Except Quadriplegic	\$3,822	0.5344
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$19,001	2.6568
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$7,353	1.0281
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$7,353	1.0281
HCC197	Muscular Dystrophy	\$6,799	0.9508
HCC198	Multiple Sclerosis	\$0	0.0000
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$3,885	0.5432
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$1,660	0.2321
HCC201	Seizure Disorders and Convulsions	\$1,347	0.1884
HCC202	Coma, Brain Compression/Anoxic Damage	\$2,125	0.2972

Variable	Label	Estimate	Relative factor
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$1,656	0.2316
HCC212	Respiratory Arrest	\$1,656	0.2316
HCC213	Cardio-Respiratory Failure and Shock	\$1,656	0.2316
HCC221	Heart Transplant Status/Complications	\$0	0.0000
HCC222	End Stage Heart Failure	\$2,478	0.3466
HCC223	Heart Assist Device/Artificial Heart	\$2,478	0.3466
HCC224	Acute on Chronic Heart Failure	\$2,478	0.3466
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$2,478	0.3466
HCC226	Heart Failure, Except End Stage and Acute	\$2,478	0.3466
HCC227	Cardiomyopathy/Myocarditis	\$1,161	0.1623
HCC228	Acute Myocardial Infarction	\$1,713	0.2396
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$1,713	0.2396
HCC238	Specified Heart Arrhythmias	\$2,430	0.3398
HCC248	Intracranial Hemorrhage	\$1,526	0.2134
HCC249	Ischemic or Unspecified Stroke	\$1,353	0.1892
HCC253	Hemiplegia/Hemiparesis	\$0	0.0000
HCC254	Monoplegia, Other Paralytic Syndromes	(\$0)	0.0000
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$5,927	0.8288
HCC264	Vascular Disease with Complications	\$4,554	0.6368
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$1,522	0.2128
HCC276	Lung Transplant Status/Complications	\$0	0.0000
HCC277	Cystic Fibrosis	\$6,448	0.9016
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$6,448	0.9016
HCC279	Severe Persistent Asthma	\$6,448	0.9016
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$2,243	0.3137
HCC282	Aspiration and Specified Bacterial Pneumonias	\$629	0.0880
HCC283	Empyema, Lung Abscess	\$629	0.0880
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$2,967	0.4149
HCC300	Exudative Macular Degeneration	\$6,001	0.8391
HCC326	Chronic Kidney Disease, Stage 5	\$3,861	0.5399
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$2,457	0.3435
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	\$0	0.0000

Variable	Label	Estimate	Relative factor
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	(\$0)	0.0000
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$4,940	0.6907
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$4,940	0.6907
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$4,940	0.6907
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$4,562	0.6379
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$4,562	0.6379
HCC385	Severe Skin Burn	\$0	0.0000
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$7,021	0.9818
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$1,992	0.2786
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$1,992	0.2786
HCC399	Major Head Injury without Loss of Consciousness	\$1,992	0.2786
HCC401	Vertebral Fractures without Spinal Cord Injury	\$2,994	0.4187
HCC402	Hip Fracture/Dislocation	\$1,858	0.2598
HCC405	Traumatic Amputations and Complications	\$4,230	0.5915
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$4,230	0.5915
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	\$833	0.1165
HCC463	Artificial Openings for Feeding or Elimination	\$2,951	0.4127
DIABETES_HF_V28	DIABETES_HF_V28	(\$0)	0.0000
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	(\$0)	0.0000
HF_KIDNEY_V28	HF_KIDNEY_V28	(\$0)	0.0000
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$928	0.1298
HF_HCC238_V28	HF_HCC238_V28	(\$0)	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	#N/A	#N/A

2.3 Community Full Benefit Dual Aged

Variable	Label	Estimate	Relative factor
F0_34	F0_34	#N/A	#N/A
F35_44	F35_44	#N/A	#N/A
F45_54	F45_54	#N/A	#N/A
F55_59	F55_59	#N/A	#N/A
F60_64	F60_64	#N/A	#N/A
F65_69	F65_69	\$4,046	0.5657
F70_74	F70_74	\$4,871	0.6811
F75_79	F75_79	\$5,327	0.7448
F80_84	F80_84	\$6,078	0.8498
F85_89	F85_89	\$7,074	0.9892
F90_94	F90_94	\$8,305	1.1613
F95_GT	F95_GT	\$10,730	1.5004
M0_34	M0_34	#N/A	#N/A
M35_44	M35_44	#N/A	#N/A
M45_54	M45_54	#N/A	#N/A
M55_59	M55_59	#N/A	#N/A
M60_64	M60_64	#N/A	#N/A
M65_69	M65_69	\$3,842	0.5373
M70_74	M70_74	\$4,870	0.6809
M75_79	M75_79	\$5,534	0.7739
M80_84	M80_84	\$6,127	0.8567
M85_89	M85_89	\$6,802	0.9512
M90_94	M90_94	\$7,767	1.0860
M95_GT	M95_GT	\$9,193	1.2854
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	\$1,114	0.1558
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	\$765	0.1070
HCC1	HIV/AIDS	\$931	0.1302
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$1,505	0.2105
HCC6	Opportunistic Infections	\$2,797	0.3911
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$59,645	8.3402
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$14,937	2.0887
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$14,937	2.0887
HCC20	Lung and Other Severe Cancers	\$8,290	1.1592

Variable	Label	Estimate	Relative factor
HCC21	Lymphoma and Other Cancers	\$4,823	0.6744
HCC22	Bladder, Colorectal, and Other Cancers	\$3,727	0.5212
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,406	0.3364
HCC35	Pancreas Transplant Status	\$0	0.0000
HCC36	Diabetes with Severe Acute Complications	\$1,501	0.2099
HCC37	Diabetes with Chronic Complications	\$1,501	0.2099
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$1,501	0.2099
HCC48	Morbid Obesity	\$1,576	0.2204
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$3,929	0.5494
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$2,052	0.2869
HCC62	Liver Transplant Status/Complications	\$583	0.0815
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$3,984	0.5571
HCC64	Cirrhosis of Liver	\$2,393	0.3346
HCC65	Chronic Hepatitis	(\$0)	0.0000
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$1,186	0.1658
HCC77	Intestine Transplant Status/Complications	\$0	0.0000
HCC78	Intestinal Obstruction/Perforation	\$2,199	0.3075
HCC79	Chronic Pancreatitis	\$3,663	0.5123
HCC80	Crohn's Disease (Regional Enteritis)	\$4,104	0.5738
HCC81	Ulcerative Colitis	\$3,139	0.4390
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$2,439	0.3410
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$3,451	0.4826
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$2,010	0.2811
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$0	0.0000
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$0	0.0000
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$2,980	0.4167
HCC111	Hemophilia, Male	\$3,393	0.4745
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$3,393	0.4745

Variable	Label	Estimate	Relative factor
HCC114	Common Variable and Combined Immunodeficiencies	\$16,891	2.3619
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$2,551	0.3568
HCC125	Dementia, Severe	\$4,313	0.6031
HCC126	Dementia, Moderate	\$4,313	0.6031
HCC127	Dementia, Mild or Unspecified	\$4,313	0.6031
HCC135	Drug Use with Psychotic Complications	\$3,050	0.4265
HCC136	Alcohol Use with Psychotic Complications	\$3,050	0.4265
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$3,050	0.4265
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$2,631	0.3679
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	\$1,489	0.2082
HCC151	Schizophrenia	\$2,942	0.4114
HCC152	Psychosis, Except Schizophrenia	\$2,942	0.4114
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$2,942	0.4114
HCC154	Bipolar Disorders without Psychosis	\$2,942	0.4114
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$2,942	0.4114
HCC180	Quadriplegia	\$4,190	0.5858
HCC181	Paraplegia	\$4,190	0.5858
HCC182	Spinal Cord Disorders/Injuries	\$4,190	0.5858
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$13,835	1.9346
HCC191	Quadriplegic Cerebral Palsy	\$1,604	0.2242
HCC192	Cerebral Palsy, Except Quadriplegic	\$0	0.0000
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$15,772	2.2054
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$56,728	7.9323
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$5,734	0.8017
HCC197	Muscular Dystrophy	\$0	0.0000
HCC198	Multiple Sclerosis	\$1,225	0.1713
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$4,485	0.6271
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$3,091	0.4322
HCC201	Seizure Disorders and Convulsions	\$1,543	0.2158
HCC202	Coma, Brain Compression/Anoxic Damage	\$569	0.0796

Variable	Label	Estimate	Relative factor
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$1,840	0.2573
HCC212	Respiratory Arrest	\$1,840	0.2573
HCC213	Cardio-Respiratory Failure and Shock	\$1,840	0.2573
HCC221	Heart Transplant Status/Complications	\$7,019	0.9815
HCC222	End Stage Heart Failure	\$3,306	0.4623
HCC223	Heart Assist Device/Artificial Heart	\$3,306	0.4623
HCC224	Acute on Chronic Heart Failure	\$3,306	0.4623
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$3,306	0.4623
HCC226	Heart Failure, Except End Stage and Acute	\$3,306	0.4623
HCC227	Cardiomyopathy/Myocarditis	\$1,147	0.1604
HCC228	Acute Myocardial Infarction	\$1,811	0.2532
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$1,811	0.2532
HCC238	Specified Heart Arrhythmias	\$2,501	0.3498
HCC248	Intracranial Hemorrhage	\$1,367	0.1912
HCC249	Ischemic or Unspecified Stroke	\$1,367	0.1912
HCC253	Hemiplegia/Hemiparesis	\$72	0.0100
HCC254	Monoplegia, Other Paralytic Syndromes	\$72	0.0100
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$6,211	0.8684
HCC264	Vascular Disease with Complications	\$4,905	0.6859
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$2,274	0.3179
HCC276	Lung Transplant Status/Complications	\$8,547	1.1951
HCC277	Cystic Fibrosis	\$6,068	0.8485
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$6,068	0.8485
HCC279	Severe Persistent Asthma	\$6,068	0.8485
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$2,366	0.3308
HCC282	Aspiration and Specified Bacterial Pneumonias	\$2,385	0.3336
HCC283	Empyema, Lung Abscess	\$1,852	0.2589
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$3,259	0.4557
HCC300	Exudative Macular Degeneration	\$5,524	0.7725
HCC326	Chronic Kidney Disease, Stage 5	\$4,154	0.5808
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$2,388	0.3340
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	\$271	0.0379

Variable	Label	Estimate	Relative factor
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	\$271	0.0379
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$8,265	1.1557
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$8,265	1.1557
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$5,833	0.8156
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$5,833	0.8156
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$4,800	0.6712
HCC385	Severe Skin Burn	(\$0)	0.0000
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$4,046	0.5657
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$2,631	0.3678
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$2,631	0.3678
HCC399	Major Head Injury without Loss of Consciousness	\$2,631	0.3678
HCC401	Vertebral Fractures without Spinal Cord Injury	\$3,087	0.4316
HCC402	Hip Fracture/Dislocation	\$2,645	0.3698
HCC405	Traumatic Amputations and Complications	\$3,150	0.4405
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$3,150	0.4405
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	(\$0)	0.0000
HCC463	Artificial Openings for Feeding or Elimination	\$3,395	0.4747
DIABETES_HF_V28	DIABETES_HF_V28	\$0	0.0000
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	\$0	0.0000
HF_KIDNEY_V28	HF_KIDNEY_V28	\$0	0.0000
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$1,441	0.2015
HF_HCC238_V28	HF_HCC238_V28	\$0	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	#N/A	#N/A

2.4 Community Non-Dual Disabled

Variable	Label	Estimate	Relative factor
F0_34	F0_34	\$2,046	0.2861
F35_44	F35_44	\$2,937	0.4107
F45_54	F45_54	\$3,434	0.4802
F55_59	F55_59	\$4,016	0.5615
F60_64	F60_64	\$4,450	0.6223
F65_69	F65_69	#N/A	#N/A
F70_74	F70_74	#N/A	#N/A
F75_79	F75_79	#N/A	#N/A
F80_84	F80_84	#N/A	#N/A
F85_89	F85_89	#N/A	#N/A
F90_94	F90_94	#N/A	#N/A
F95_GT	F95_GT	#N/A	#N/A
M0_34	M0_34	\$1,066	0.1490
M35_44	M35_44	\$1,296	0.1812
M45_54	M45_54	\$1,963	0.2744
M55_59	M55_59	\$2,587	0.3618
M60_64	M60_64	\$3,186	0.4454
M65_69	M65_69	#N/A	#N/A
M70_74	M70_74	#N/A	#N/A
M75_79	M75_79	#N/A	#N/A
M80_84	M80_84	#N/A	#N/A
M85_89	M85_89	#N/A	#N/A
M90_94	M90_94	#N/A	#N/A
M95_GT	M95_GT	#N/A	#N/A
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	#N/A	#N/A
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	#N/A	#N/A
HCC1	HIV/AIDS	\$994	0.1390
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$1,758	0.2458
HCC6	Opportunistic Infections	\$2,746	0.3840
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$22,161	3.0987
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$16,383	2.2909
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$16,383	2.2909
HCC20	Lung and Other Severe Cancers	\$7,080	0.9899

Variable	Label	Estimate	Relative factor
HCC21	Lymphoma and Other Cancers	\$4,943	0.6912
HCC22	Bladder, Colorectal, and Other Cancers	\$3,170	0.4432
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,494	0.3487
HCC35	Pancreas Transplant Status	\$4,151	0.5805
HCC36	Diabetes with Severe Acute Complications	\$1,612	0.2254
HCC37	Diabetes with Chronic Complications	\$1,612	0.2254
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$1,612	0.2254
HCC48	Morbid Obesity	\$1,437	0.2009
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$10,988	1.5365
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$3,280	0.4586
HCC62	Liver Transplant Status/Complications	\$0	0.0000
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$3,809	0.5326
HCC64	Cirrhosis of Liver	\$1,424	0.1992
HCC65	Chronic Hepatitis	\$0	0.0000
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$1,167	0.1632
HCC77	Intestine Transplant Status/Complications	\$0	0.0000
HCC78	Intestinal Obstruction/Perforation	\$2,736	0.3825
HCC79	Chronic Pancreatitis	\$2,777	0.3883
HCC80	Crohn's Disease (Regional Enteritis)	\$5,701	0.7972
HCC81	Ulcerative Colitis	\$3,278	0.4584
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$2,894	0.4047
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$5,029	0.7032
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$3,384	0.4731
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$6,842	0.9567
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$6,842	0.9567
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$1,194	0.1670
HCC111	Hemophilia, Male	\$3,726	0.5209
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$3,726	0.5209

Variable	Label	Estimate	Relative factor
HCC114	Common Variable and Combined Immunodeficiencies	\$33,577	4.6951
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$6,926	0.9684
HCC125	Dementia, Severe	\$3,017	0.4219
HCC126	Dementia, Moderate	\$3,017	0.4219
HCC127	Dementia, Mild or Unspecified	\$3,017	0.4219
HCC135	Drug Use with Psychotic Complications	\$5,631	0.7874
HCC136	Alcohol Use with Psychotic Complications	\$4,184	0.5851
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$2,869	0.4012
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$2,332	0.3260
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	\$1,309	0.1830
HCC151	Schizophrenia	\$2,975	0.4160
HCC152	Psychosis, Except Schizophrenia	\$2,975	0.4160
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$2,975	0.4160
HCC154	Bipolar Disorders without Psychosis	\$2,055	0.2874
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$2,055	0.2874
HCC180	Quadriplegia	\$3,354	0.4690
HCC181	Paraplegia	\$3,354	0.4690
HCC182	Spinal Cord Disorders/Injuries	\$3,354	0.4690
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$13,492	1.8866
HCC191	Quadriplegic Cerebral Palsy	(\$0)	0.0000
HCC192	Cerebral Palsy, Except Quadriplegic	\$0	0.0000
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$22,923	3.2053
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$12,447	1.7404
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$12,447	1.7404
HCC197	Muscular Dystrophy	\$0	0.0000
HCC198	Multiple Sclerosis	(\$0)	0.0000
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$5,603	0.7835
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$1,995	0.2789
HCC201	Seizure Disorders and Convulsions	\$1,277	0.1785
HCC202	Coma, Brain Compression/Anoxic Damage	(\$0)	0.0000

Variable	Label	Estimate	Relative factor
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$1,470	0.2055
HCC212	Respiratory Arrest	\$1,202	0.1681
HCC213	Cardio-Respiratory Failure and Shock	\$1,202	0.1681
HCC221	Heart Transplant Status/Complications	\$6,297	0.8805
HCC222	End Stage Heart Failure	\$2,885	0.4033
HCC223	Heart Assist Device/Artificial Heart	\$2,885	0.4033
HCC224	Acute on Chronic Heart Failure	\$2,885	0.4033
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$2,885	0.4033
HCC226	Heart Failure, Except End Stage and Acute	\$2,885	0.4033
HCC227	Cardiomyopathy/Myocarditis	\$1,289	0.1803
HCC228	Acute Myocardial Infarction	\$2,238	0.3129
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$2,238	0.3129
HCC238	Specified Heart Arrhythmias	\$2,954	0.4131
HCC248	Intracranial Hemorrhage	(\$0)	0.0000
HCC249	Ischemic or Unspecified Stroke	\$0	0.0000
HCC253	Hemiplegia/Hemiparesis	\$0	0.0000
HCC254	Monoplegia, Other Paralytic Syndromes	(\$0)	0.0000
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$5,028	0.7031
HCC264	Vascular Disease with Complications	\$3,988	0.5577
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$2,177	0.3045
HCC276	Lung Transplant Status/Complications	\$5,681	0.7944
HCC277	Cystic Fibrosis	\$7,780	1.0879
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$7,780	1.0879
HCC279	Severe Persistent Asthma	\$7,780	1.0879
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$1,689	0.2361
HCC282	Aspiration and Specified Bacterial Pneumonias	\$2,745	0.3839
HCC283	Empyema, Lung Abscess	\$2,745	0.3839
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$3,937	0.5506
HCC300	Exudative Macular Degeneration	\$4,484	0.6271
HCC326	Chronic Kidney Disease, Stage 5	\$3,076	0.4301
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$2,307	0.3226
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	\$1,372	0.1919

Variable	Label	Estimate	Relative factor
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	\$1,372	0.1919
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$5,506	0.7698
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$5,506	0.7698
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$5,073	0.7094
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$3,688	0.5157
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$3,688	0.5157
HCC385	Severe Skin Burn	(\$0)	0.0000
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$4,615	0.6453
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$1,472	0.2058
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$1,472	0.2058
HCC399	Major Head Injury without Loss of Consciousness	\$1,472	0.2058
HCC401	Vertebral Fractures without Spinal Cord Injury	\$3,437	0.4806
HCC402	Hip Fracture/Dislocation	\$922	0.1290
HCC405	Traumatic Amputations and Complications	\$6,884	0.9625
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$4,572	0.6394
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	(\$0)	0.0000
HCC463	Artificial Openings for Feeding or Elimination	\$4,706	0.6580
DIABETES_HF_V28	DIABETES_HF_V28	\$0	0.0000
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	\$0	0.0000
HF_KIDNEY_V28	HF_KIDNEY_V28	\$157	0.0219
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$2,125	0.2971
HF_HCC238_V28	HF_HCC238_V28	(\$0)	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	\$274	0.0383

2.5 Community Partial Benefit Dual Disabled

Variable	Label	Estimate	Relative factor
F0_34	F0_34	\$4,351	0.6084
F35_44	F35_44	\$4,438	0.6205
F45_54	F45_54	\$4,494	0.6284
F55_59	F55_59	\$4,467	0.6246
F60_64	F60_64	\$4,530	0.6334
F65_69	F65_69	#N/A	#N/A
F70_74	F70_74	#N/A	#N/A
F75_79	F75_79	#N/A	#N/A
F80_84	F80_84	#N/A	#N/A
F85_89	F85_89	#N/A	#N/A
F90_94	F90_94	#N/A	#N/A
F95_GT	F95_GT	#N/A	#N/A
M0_34	M0_34	\$2,443	0.3416
M35_44	M35_44	\$2,644	0.3697
M45_54	M45_54	\$2,932	0.4099
M55_59	M55_59	\$3,381	0.4727
M60_64	M60_64	\$3,514	0.4914
M65_69	M65_69	#N/A	#N/A
M70_74	M70_74	#N/A	#N/A
M75_79	M75_79	#N/A	#N/A
M80_84	M80_84	#N/A	#N/A
M85_89	M85_89	#N/A	#N/A
M90_94	M90_94	#N/A	#N/A
M95_GT	M95_GT	#N/A	#N/A
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	#N/A	#N/A
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	#N/A	#N/A
HCC1	HIV/AIDS	(\$0)	0.0000
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$1,882	0.2632
HCC6	Opportunistic Infections	\$4,045	0.5656
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$18,552	2.5941
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$18,552	2.5941
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$15,192	2.1243
HCC20	Lung and Other Severe Cancers	\$6,675	0.9333

Variable	Label	Estimate	Relative factor
HCC21	Lymphoma and Other Cancers	\$4,275	0.5977
HCC22	Bladder, Colorectal, and Other Cancers	\$3,464	0.4843
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,311	0.3232
HCC35	Pancreas Transplant Status	\$0	0.0000
HCC36	Diabetes with Severe Acute Complications	\$1,860	0.2601
HCC37	Diabetes with Chronic Complications	\$1,860	0.2601
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$1,860	0.2601
HCC48	Morbid Obesity	(\$0)	0.0000
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$4,208	0.5884
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$2,793	0.3905
HCC62	Liver Transplant Status/Complications	\$0	0.0000
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$2,808	0.3926
HCC64	Cirrhosis of Liver	\$2,808	0.3926
HCC65	Chronic Hepatitis	(\$0)	0.0000
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$2,808	0.3926
HCC77	Intestine Transplant Status/Complications	\$0	0.0000
HCC78	Intestinal Obstruction/Perforation	\$1,838	0.2571
HCC79	Chronic Pancreatitis	\$1,704	0.2383
HCC80	Crohn's Disease (Regional Enteritis)	\$5,136	0.7182
HCC81	Ulcerative Colitis	\$3,487	0.4875
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$3,756	0.5252
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$3,351	0.4686
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$2,926	0.4091
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$55,952	7.8237
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$4,249	0.5941
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	(\$0)	0.0000
HCC111	Hemophilia, Male	\$2,224	0.3110
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$2,224	0.3110

Variable	Label	Estimate	Relative factor
HCC114	Common Variable and Combined Immunodeficiencies	\$5,067	0.7085
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$5,067	0.7085
HCC125	Dementia, Severe	\$2,393	0.3346
HCC126	Dementia, Moderate	\$2,393	0.3346
HCC127	Dementia, Mild or Unspecified	\$2,393	0.3346
HCC135	Drug Use with Psychotic Complications	\$7,476	1.0453
HCC136	Alcohol Use with Psychotic Complications	\$3,437	0.4806
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$2,618	0.3661
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$1,673	0.2339
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	(\$0)	0.0000
HCC151	Schizophrenia	\$2,915	0.4077
HCC152	Psychosis, Except Schizophrenia	\$1,915	0.2677
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$1,915	0.2677
HCC154	Bipolar Disorders without Psychosis	\$0	0.0000
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$0	0.0000
HCC180	Quadriplegia	\$3,141	0.4393
HCC181	Paraplegia	\$3,141	0.4393
HCC182	Spinal Cord Disorders/Injuries	\$3,141	0.4393
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$15,016	2.0997
HCC191	Quadriplegic Cerebral Palsy	(\$0)	0.0000
HCC192	Cerebral Palsy, Except Quadriplegic	(\$0)	0.0000
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$10,114	1.4142
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$41,564	5.8119
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$13,069	1.8274
HCC197	Muscular Dystrophy	(\$0)	0.0000
HCC198	Multiple Sclerosis	\$1,851	0.2588
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$4,378	0.6121
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$1,675	0.2342
HCC201	Seizure Disorders and Convulsions	(\$0)	0.0000
HCC202	Coma, Brain Compression/Anoxic Damage	\$0	0.0000

Variable	Label	Estimate	Relative factor
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$0	0.0000
HCC212	Respiratory Arrest	\$0	0.0000
HCC213	Cardio-Respiratory Failure and Shock	\$0	0.0000
HCC221	Heart Transplant Status/Complications	\$2,746	0.3840
HCC222	End Stage Heart Failure	\$2,627	0.3673
HCC223	Heart Assist Device/Artificial Heart	\$2,627	0.3673
HCC224	Acute on Chronic Heart Failure	\$2,627	0.3673
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$2,627	0.3673
HCC226	Heart Failure, Except End Stage and Acute	\$2,627	0.3673
HCC227	Cardiomyopathy/Myocarditis	(\$0)	0.0000
HCC228	Acute Myocardial Infarction	\$1,972	0.2758
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$1,972	0.2758
HCC238	Specified Heart Arrhythmias	\$2,334	0.3264
HCC248	Intracranial Hemorrhage	(\$0)	0.0000
HCC249	Ischemic or Unspecified Stroke	(\$0)	0.0000
HCC253	Hemiplegia/Hemiparesis	\$0	0.0000
HCC254	Monoplegia, Other Paralytic Syndromes	(\$0)	0.0000
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$4,987	0.6974
HCC264	Vascular Disease with Complications	\$3,685	0.5153
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$2,210	0.3091
HCC276	Lung Transplant Status/Complications	\$6,423	0.8982
HCC277	Cystic Fibrosis	\$6,924	0.9681
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$6,924	0.9681
HCC279	Severe Persistent Asthma	\$6,924	0.9681
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$1,742	0.2436
HCC282	Aspiration and Specified Bacterial Pneumonias	\$3,035	0.4243
HCC283	Empyema, Lung Abscess	(\$0)	0.0000
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$3,196	0.4468
HCC300	Exudative Macular Degeneration	\$5,588	0.7814
HCC326	Chronic Kidney Disease, Stage 5	\$2,677	0.3743
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$1,700	0.2377
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	(\$0)	0.0000

Variable	Label	Estimate	Relative factor
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	(\$0)	0.0000
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$4,791	0.6699
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$4,791	0.6699
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$3,421	0.4783
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$3,421	0.4783
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$3,421	0.4783
HCC385	Severe Skin Burn	\$0	0.0000
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$1,549	0.2166
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$3,355	0.4691
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$3,355	0.4691
HCC399	Major Head Injury without Loss of Consciousness	\$3,355	0.4691
HCC401	Vertebral Fractures without Spinal Cord Injury	\$4,141	0.5790
HCC402	Hip Fracture/Dislocation	\$2,713	0.3793
HCC405	Traumatic Amputations and Complications	\$4,987	0.6974
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$4,987	0.6974
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	\$0	0.0000
HCC463	Artificial Openings for Feeding or Elimination	\$4,127	0.5771
DIABETES_HF_V28	DIABETES_HF_V28	(\$0)	0.0000
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	(\$0)	0.0000
HF_KIDNEY_V28	HF_KIDNEY_V28	(\$0)	0.0000
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$2,775	0.3880
HF_HCC238_V28	HF_HCC238_V28	\$0	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	\$2,016	0.2819

2.6 Community Full Benefit Dual Disabled

Variable	Label	Estimate	Relative factor
F0_34	F0_34	\$3,174	0.4439
F35_44	F35_44	\$3,404	0.4759
F45_54	F45_54	\$3,974	0.5557
F55_59	F55_59	\$4,354	0.6088
F60_64	F60_64	\$4,820	0.6739
F65_69	F65_69	#N/A	#N/A
F70_74	F70_74	#N/A	#N/A
F75_79	F75_79	#N/A	#N/A
F80_84	F80_84	#N/A	#N/A
F85_89	F85_89	#N/A	#N/A
F90_94	F90_94	#N/A	#N/A
F95_GT	F95_GT	#N/A	#N/A
M0_34	M0_34	\$1,804	0.2522
M35_44	M35_44	\$1,949	0.2725
M45_54	M45_54	\$2,545	0.3558
M55_59	M55_59	\$3,333	0.4660
M60_64	M60_64	\$4,050	0.5663
M65_69	M65_69	#N/A	#N/A
M70_74	M70_74	#N/A	#N/A
M75_79	M75_79	#N/A	#N/A
M80_84	M80_84	#N/A	#N/A
M85_89	M85_89	#N/A	#N/A
M90_94	M90_94	#N/A	#N/A
M95_GT	M95_GT	#N/A	#N/A
ORIGINALLYDISABLED_FEMALE	ORIGINALLYDISABLED_FEMALE	#N/A	#N/A
ORIGINALLYDISABLED_MALE	ORIGINALLYDISABLED_MALE	#N/A	#N/A
HCC1	HIV/AIDS	\$1,351	0.1889
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	\$1,837	0.2568
HCC6	Opportunistic Infections	\$1,718	0.2403
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	\$18,972	2.6529
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	\$18,972	2.6529
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	\$18,972	2.6529
HCC20	Lung and Other Severe Cancers	\$6,773	0.9470

Variable	Label	Estimate	Relative factor
HCC21	Lymphoma and Other Cancers	\$4,231	0.5917
HCC22	Bladder, Colorectal, and Other Cancers	\$3,662	0.5121
HCC23	Prostate, Breast, and Other Cancers and Tumors	\$2,243	0.3136
HCC35	Pancreas Transplant Status	\$4,386	0.6132
HCC36	Diabetes with Severe Acute Complications	\$1,484	0.2075
HCC37	Diabetes with Chronic Complications	\$1,484	0.2075
HCC38	Diabetes with No, Glycemic, or Unspecified Complications	\$1,484	0.2075
HCC48	Morbid Obesity	\$1,305	0.1825
HCC49	Specified Lysosomal Storage Disorders	\$0	0.0000
HCC50	Amyloidosis, Porphyria, and Other Specified Metabolic Disorders	\$10,837	1.5153
HCC51	Addison's and Cushing's Diseases, Acromegaly, and Other Specified Endocrine Disorders	\$3,553	0.4968
HCC62	Liver Transplant Status/Complications	\$668	0.0933
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	\$2,117	0.2960
HCC64	Cirrhosis of Liver	\$2,117	0.2960
HCC65	Chronic Hepatitis	\$702	0.0982
HCC68	Cholangitis and Obstruction of Bile Duct Without Gallstones	\$2,117	0.2960
HCC77	Intestine Transplant Status/Complications	\$0	0.0000
HCC78	Intestinal Obstruction/Perforation	\$3,155	0.4411
HCC79	Chronic Pancreatitis	\$3,158	0.4416
HCC80	Crohn's Disease (Regional Enteritis)	\$6,730	0.9411
HCC81	Ulcerative Colitis	\$4,177	0.5841
HCC92	Bone/Joint/Muscle/Severe Soft Tissue Infections/Necrosis	\$3,499	0.4893
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	\$4,286	0.5993
HCC94	Systemic Lupus Erythematosus and Other Specified Systemic Connective Tissue Disorders	\$3,619	0.5061
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	\$42,326	5.9184
HCC108	Sickle Cell Disorders, Except Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero; Beta Thalassemia Major	\$10,114	1.4142
HCC109	Acquired Hemolytic, Aplastic, and Sideroblastic Anemias	\$769	0.1076
HCC111	Hemophilia, Male	\$8,482	1.1861

Variable	Label	Estimate	Relative factor
HCC112	Immune Thrombocytopenia and Specified Coagulation Defects and Hemorrhagic Conditions	\$8,482	1.1861
HCC114	Common Variable and Combined Immunodeficiencies	\$14,624	2.0448
HCC115	Specified Immunodeficiencies and White Blood Cell Disorders	\$4,255	0.5949
HCC125	Dementia, Severe	\$2,406	0.3365
HCC126	Dementia, Moderate	\$2,406	0.3365
HCC127	Dementia, Mild or Unspecified	\$2,406	0.3365
HCC135	Drug Use with Psychotic Complications	\$7,733	1.0812
HCC136	Alcohol Use with Psychotic Complications	\$3,891	0.5440
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	\$3,891	0.5440
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	\$3,094	0.4327
HCC139	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	\$1,817	0.2540
HCC151	Schizophrenia	\$4,046	0.5657
HCC152	Psychosis, Except Schizophrenia	\$2,949	0.4124
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	\$2,949	0.4124
HCC154	Bipolar Disorders without Psychosis	\$1,715	0.2398
HCC155	Major Depression, Moderate or Severe, without Psychosis	\$1,715	0.2398
HCC180	Quadriplegia	\$2,441	0.3413
HCC181	Paraplegia	\$2,441	0.3413
HCC182	Spinal Cord Disorders/Injuries	\$2,441	0.3413
HCC190	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease, Spinal Muscular Atrophy	\$33,057	4.6224
HCC191	Quadriplegic Cerebral Palsy	(\$0)	0.0000
HCC192	Cerebral Palsy, Except Quadriplegic	(\$0)	0.0000
HCC193	Chronic Inflammatory Demyelinating Polyneuritis and Multifocal Motor Neuropathy	\$18,116	2.5331
HCC195	Myasthenia Gravis with (Acute) Exacerbation	\$11,990	1.6765
HCC196	Myasthenia Gravis without (Acute) Exacerbation and Other Myoneural Disorders	\$11,990	1.6765
HCC197	Muscular Dystrophy	\$1,169	0.1635
HCC198	Multiple Sclerosis	\$919	0.1285

Variable	Label	Estimate	Relative factor
HCC199	Parkinson and Other Degenerative Disease of Basal Ganglia	\$3,839	0.5368
HCC200	Friedreich and Other Hereditary Ataxias; Huntington Disease	\$4,041	0.5650
HCC201	Seizure Disorders and Convulsions	\$1,179	0.1648
HCC202	Coma, Brain Compression/Anoxic Damage	\$1,209	0.1691
HCC211	Respirator Dependence/Tracheostomy Status/Complications	\$1,655	0.2314
HCC212	Respiratory Arrest	\$1,655	0.2314
HCC213	Cardio-Respiratory Failure and Shock	\$1,655	0.2314
HCC221	Heart Transplant Status/Complications	\$5,127	0.7170
HCC222	End Stage Heart Failure	\$3,200	0.4474
HCC223	Heart Assist Device/Artificial Heart	\$3,200	0.4474
HCC224	Acute on Chronic Heart Failure	\$3,200	0.4474
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	\$3,200	0.4474
HCC226	Heart Failure, Except End Stage and Acute	\$3,200	0.4474
HCC227	Cardiomyopathy/Myocarditis	\$1,373	0.1920
HCC228	Acute Myocardial Infarction	\$2,156	0.3015
HCC229	Unstable Angina and Other Acute Ischemic Heart Disease	\$2,156	0.3015
HCC238	Specified Heart Arrhythmias	\$2,300	0.3216
HCC248	Intracranial Hemorrhage	\$775	0.1084
HCC249	Ischemic or Unspecified Stroke	\$775	0.1084
HCC253	Hemiplegia/Hemiparesis	(\$0)	0.0000
HCC254	Monoplegia, Other Paralytic Syndromes	(\$0)	0.0000
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	\$5,731	0.8013
HCC264	Vascular Disease with Complications	\$4,524	0.6326
HCC267	Deep Vein Thrombosis and Pulmonary Embolism	\$2,251	0.3148
HCC276	Lung Transplant Status/Complications	\$4,028	0.5633
HCC277	Cystic Fibrosis	\$6,468	0.9044
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	\$6,468	0.9044
HCC279	Severe Persistent Asthma	\$6,468	0.9044
HCC280	Chronic Obstructive Pulmonary Disease, Interstitial Lung Disorders, and Other Chronic Lung Disorders	\$1,989	0.2782
HCC282	Aspiration and Specified Bacterial Pneumonias	\$3,023	0.4228
HCC283	Empyema, Lung Abscess	\$2,317	0.3240

Variable	Label	Estimate	Relative factor
HCC298	Severe Diabetic Eye Disease, Retinal Vein Occlusion, and Vitreous Hemorrhage	\$4,397	0.6148
HCC300	Exudative Macular Degeneration	\$3,276	0.4580
HCC326	Chronic Kidney Disease, Stage 5	\$5,084	0.7109
HCC327	Chronic Kidney Disease, Severe (Stage 4)	\$2,597	0.3632
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	\$799	0.1117
HCC329	Chronic Kidney Disease, Moderate (Stage 3, Except 3B)	\$799	0.1117
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	\$8,086	1.1307
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	\$8,086	1.1307
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	\$3,632	0.5079
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	\$3,632	0.5079
HCC383	Chronic Ulcer of Skin, Except Pressure, Not Specified as Through to Bone or Muscle	\$3,632	0.5079
HCC385	Severe Skin Burn	\$2,449	0.3424
HCC387	Pemphigus, Pemphigoid, and Other Specified Autoimmune Skin Disorders	\$3,955	0.5530
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	\$2,175	0.3041
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	\$2,175	0.3041
HCC399	Major Head Injury without Loss of Consciousness	\$2,175	0.3041
HCC401	Vertebral Fractures without Spinal Cord Injury	\$3,071	0.4294
HCC402	Hip Fracture/Dislocation	\$1,890	0.2642
HCC405	Traumatic Amputations and Complications	\$6,472	0.9050
HCC409	Amputation Status, Lower Limb/Amputation Complications	\$5,731	0.8013
HCC454	Stem Cell, Including Bone Marrow, Transplant Status/Complications	\$0	0.0000
HCC463	Artificial Openings for Feeding or Elimination	\$4,045	0.5656
DIABETES_HF_V28	DIABETES_HF_V28	(\$0)	0.0000
HF_CHR_LUNG_V28	HF_CHR_LUNG_V28	(\$0)	0.0000
HF_KIDNEY_V28	HF_KIDNEY_V28	\$0	0.0000
CHR_LUNG_CARD_RESP_FAIL_V28	CHR_LUNG_CARD_RESP_FAIL_V28	\$1,696	0.2371
HF_HCC238_V28	HF_HCC238_V28	(\$0)	0.0000
GSUBUSEDISORDER_GPSYCH_V28	GSUBUSEDISORDER_GPSYCH_V28	\$813	0.1137

3. Hierarchy exclusions

If disease group is listed in left column, drop HCCs listed in right column.

Variable	Label	Hierarchy exclusions
HCC17	Cancer Metastatic to Lung, Liver, Brain, and Other Organs; Acute Myeloid Leukemia Except Promyelocytic	18, 19, 20, 21, 22, 23
HCC18	Cancer Metastatic to Bone, Other and Unspecified Metastatic Cancer; Acute Leukemia Except Myeloid	19, 20, 21, 22, 23
HCC19	Myelodysplastic Syndromes, Multiple Myeloma, and Other Cancers	20, 21, 22, 23
HCC20	Lung and Other Severe Cancers	21, 22, 23
HCC21	Lymphoma and Other Cancers	22, 23
HCC22	Bladder, Colorectal, and Other Cancers	23
HCC35	Pancreas Transplant Status	36, 37, 38
HCC36	Diabetes with Severe Acute Complications	37, 38
HCC37	Diabetes with Chronic Complications	38
HCC62	Liver Transplant Status/Complications	63, 64, 65, 68
HCC63	Chronic Liver Failure/End-Stage Liver Disorders	64, 65, 68, 202
HCC64	Cirrhosis of Liver	65, 68
HCC77	Intestine Transplant Status/Complications	78, 80, 81
HCC80	Crohn's Disease (Regional Enteritis)	81
HCC93	Rheumatoid Arthritis and Other Specified Inflammatory Rheumatic Disorders	94
HCC107	Sickle Cell Anemia (Hb-SS) and Thalassemia Beta Zero	108
HCC111	Hemophilia, Male	112
HCC114	Common Variable and Combined Immunodeficiencies	115
HCC125	Dementia, Severe	126, 127
HCC126	Dementia, Moderate	127
HCC135	Drug Use with Psychotic Complications	136, 137, 138, 139
HCC136	Alcohol Use with Psychotic Complications	137, 138, 139
HCC137	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	138, 139
HCC138	Drug Use Disorder, Mild, Uncomplicated, Except Cannabis	139
HCC151	Schizophrenia	152, 153, 154, 155
HCC152	Psychosis, Except Schizophrenia	153, 154, 155
HCC153	Personality Disorders; Anorexia/Bulimia Nervosa	154, 155
HCC154	Bipolar Disorders without Psychosis	155
HCC180	Quadriplegia	181, 182, 253, 254
HCC181	Paraplegia	182, 254
HCC191	Quadriplegic Cerebral Palsy	180, 181, 182, 192, 253, 254
HCC192	Cerebral Palsy, Except Quadriplegic	180, 181, 182, 253, 254
HCC195	Myasthenia Gravis with (Acute) Exacerbation	196
HCC211	Respirator Dependence/Tracheostomy Status/Complications	212, 213

Variable	Label	Hierarchy exclusions
HCC212	Respiratory Arrest	213
HCC221	Heart Transplant Status/Complications	222, 223, 224, 225, 226, 227
HCC222	End Stage Heart Failure	223, 224, 225, 226, 227
HCC223	Heart Assist Device/Artificial Heart	224, 225, 226, 227
HCC224	Acute on Chronic Heart Failure	225, 226, 227
HCC225	Acute Heart Failure (Excludes Acute on Chronic)	226, 227
HCC226	Heart Failure, Except End Stage and Acute	227
HCC228	Acute Myocardial Infarction	229
HCC248	Intracranial Hemorrhage	249
HCC253	Hemiplegia/Hemiparesis	254
HCC263	Atherosclerosis of Arteries of the Extremities with Ulceration or Gangrene	264, 383, 409
HCC276	Lung Transplant Status/Complications	277, 278, 279, 280
HCC277	Cystic Fibrosis	278, 279, 280
HCC278	Idiopathic Pulmonary Fibrosis and Lung Involvement in Systemic Sclerosis	279, 280
HCC279	Severe Persistent Asthma	280
HCC282	Aspiration and Specified Bacterial Pneumonias	283
HCC326	Chronic Kidney Disease, Stage 5	327, 328, 329
HCC327	Chronic Kidney Disease, Severe (Stage 4)	328, 329
HCC328	Chronic Kidney Disease, Moderate (Stage 3B)	329
HCC379	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	380, 381, 382, 383
HCC380	Chronic Ulcer of Skin, Except Pressure, Through to Bone or Muscle	381, 382, 383
HCC381	Pressure Ulcer of Skin with Full Thickness Skin Loss	382, 383
HCC382	Pressure Ulcer of Skin with Partial Thickness Skin Loss	383
HCC397	Major Head Injury with Loss of Consciousness > 1 Hour	202, 398, 399
HCC398	Major Head Injury with Loss of Consciousness < 1 Hour or Unspecified	202, 399
HCC405	Traumatic Amputations and Complications	409

4. Notes

CMMI Concurrent Model v2

Concurrent sample criteria

1. At least one month of eligibility in the concurrent year.
2. Only months with Part A&B enrollment, non-HMO, non-ESRD (dialysis and transplant) non-MSP are included as eligible.
3. Ineligible months are excluded from diagnoses and expenditure data, but beneficiaries with ineligible months are retained with eligible months only.
4. Include post-graft status months as eligible (codes G, R, or Y)
5. US residents only.
6. Sample includes aged and disabled, non-dual-eligible and dual-eligible, community-residing and institutional beneficiaries.
7. All eligible beneficiaries are identified as High Needs at some point during the year. However, all REACH-eligible months for those beneficiaries are included in the calibration data.

Age Definition

Age is defined as of February 1.

CMS-HCCs

CMS-HCCs are V28 CMS-Hierarchical Condition Categories (HCCs). CMS-HCCs are based on ICD-10-CM diagnosis codes from valid sources (including hospital inpatient and physician office). There are 115 Version 28 CMS-HCCs. However, given the pre-specified CMS-HCC groupings, the effective number of CMS-HCCs is 105.

HCC Groups

An HCC group is a set of HCCs that are effectively treated as a single HCC. For example, HCC group G1 is defined by HCCs 36, 37, and 38. An HCC group variable is created that equals 1 if the person has HCC 36, 37, or 38, and equals 0 otherwise. In the risk adjustment model regression, only the HCC group variable is included—variables for individual HCCs 36, 37, and 38 are not included. However, in this table, we present the individual HCCs (36, 37, 38), each with the coefficient and statistics for the HCC group variable from the risk adjustment model regression. Finally, note that in this table, the sum of the counts of the individual HCCs in an HCC group can be higher than the count for the HCC group. Thus, note that whether an enrollee has only 1 HCC in an HCC group, or has multiple HCCs in an HCC group, the enrollee's incremental predicted expenditures for the HCC group are the same.

HCC Count Variables

To reflect nonlinearities in the relationship between HCCs and expenditures, this model includes a set of HCC count indicator variables. They are applied additively to other risk factors; an individual with seven HCCs will be assigned incremental risk values for all seven HCC coefficients, the HCC_count=7 (D7) coefficient, and the applicable age-sex category coefficient.

Each individual's HCC count includes the 115 HCCs in the model specification, after hierarchy exclusions. So for example, someone who receives an HCC 80 diagnosis (Crohn's disease) and also a diagnosis of HCC 81 (Ulcerative Colitis) would be flagged only with HCC 80, because it is above HCC 81 in the hierarchy. Also note that this set of diagnoses would also add only one HCC to the individual's HCC count.

HCC interactions with Age<65

To reflect different expenditures associated with a few HCCs depending on whether a beneficiary is aged or disabled, this model includes seven HCC interaction variables with an indicator for beneficiary age being less than 65. These interaction coefficients are applied additively; someone who is less than age 65 is assigned incremental risk values for the HCC coefficient and for the associated interaction coefficient. The seven Age<65 interaction HCCs are 107, 108, 109, 111, 277, 326, and 327.

Constraints

Regression model coefficient constraints were applied as follows:

1. A1-A5 indicate age group monotonicity constraints.
2. G1-G6 indicate CMMI-HCC grouping constraints.
3. H1-H9 indicate CMMI-HCC hierarchy violation constraints.
4. Z1-Z14 indicate non-negativity (zero) constraints.

Constraints A1-A4 and G1-G6 are pre-specified; the other constraints are empirically-driven (imposed only if a hierarchy is violated, a coefficient is negative, or monotonicity is violated).

Source: RTI analysis of 2023 Medicare enrollment and claims data.

Date: July 7, 2026

CMMI Prospective Model v1

Prospective sample criteria

1. At least one month of eligibility in the expenditures year (CY2023).

2. Only months with Part A&B enrollment, non-HMO, non-ESRD (dialysis and transplant) non-MSP are included as eligible.
3. Ineligible months are excluded from diagnoses and expenditure data, but beneficiaries with ineligible months are retained with eligible months only.
4. Include post-graft status months as eligible (codes G, R, or Y)
5. US residents only.
6. Sample includes aged and disabled, non-dual-eligible and dual-eligible, and community-residing beneficiaries. Institutional-residing beneficiaries are excluded from the calibration sample.
7. Beneficiaries identified as High Needs at any point during the year are excluded entirely from the sample.

Age Definition

Age is defined as of February 1.

CMS-HCCs

CMS-HCCs are V28 CMS-Hierarchical Condition Categories (HCCs). CMS-HCCs are based on ICD-10-CM diagnosis codes from valid sources (including hospital inpatient and physician office). There are 115 Version 28 CMS-HCCs. However, given the pre-specified CMS-HCC groupings, the effective number of CMS-HCCs is 105.

HCC Groups

An HCC group is a set of HCCs that are effectively treated as a single HCC. For example, HCC group G1 is defined by HCCs 36, 37, and 38. An HCC group variable is created that equals 1 if the person has HCC 36, 37, or 38, and equals 0 otherwise. In the risk adjustment model regression, only the HCC group variable is included—variables for individual HCCs 36, 37, and 38 are not included. However, in this table, we present the individual HCCs (36, 37, 38), each with the coefficient and statistics for the HCC group variable from the risk adjustment model regression. Finally, note that in this table, the sum of the counts of the individual HCCs in an HCC group can be higher than the count for the HCC group. Thus note that whether an enrollee has only 1 HCC in an HCC group, or has multiple HCCs in an HCC group, the enrollee's incremental predicted expenditures for the HCC group are the same.

HCC Count Variables

To reflect nonlinearities in the relationship between HCCs and expenditures, some risk adjustment models include a set of HCC count indicator variables. Because of the non-High Needs sample restriction and resulting distribution of expenditures, HCC count variables are excluded from the model specification.

HCC interactions variables

To reflect different expenditures associated with some HCCs when they occur in conjunction with other specific HCCs, this model includes six HCC interaction variables. These interaction coefficients are applied additively. The HCC interactions are:

1. Diabetes (HCCs 35, 36, 37, 38) * Heart Failure (HCCs 221, 222, 223, 224, 225, 226)
2. Heart Failure (HCCs 221, 222, 223, 224, 225, 226) * Chronic Lung Disorder (HCCs 276, 277, 278, 279, 280)
3. Heart Failure (HCCs 221, 222, 223, 224, 225, 226) * Kidney (HCCs 326, 327, 328, 329)
4. Chronic Lung Disorder (HCCs 276, 277, 278, 279, 280) * Cardiorespiratory Failure (HCCs 211, 212, 213)
5. Heart Failure (HCCs 221, 222, 223, 224, 225, 226) * Specified Heart Arrhythmias (HCC 238)
6. (Disabled beneficiary model segments only) Substance Use Disorder (HCCs 135, 136, 137, 138, 139) * Psychiatric (HCCs 151, 152, 153, 154, 155)

Constraints

Regression model coefficient constraints were applied as follows:

1. G1-G7 indicate CMMI-HCC grouping constraints.
2. H1-H32 indicate CMMI-HCC hierarchy violation constraints.
3. Z1-Z32 indicate non-negativity (zero) constraints.

Constraints G1-G7 are pre-specified; the other constraints are empirically-driven (imposed only if a hierarchy is violated or a coefficient is negative).

Source: RTI analysis of 2022-2023 Medicare enrollment and claims data.

Date: August 14, 2026