



**Date:** May 06, 2022

**Subject:** 2023 Benefit Year Final HHS Risk Adjustment Model Coefficients

As detailed in the HHS Notice of Benefit and Payment Parameters for 2023 final rule (Final 2023 Payment Notice),<sup>1</sup> the 2023 benefit year final HHS risk adjustment model coefficients are based on blended coefficients separately solved from the 2017, 2018, and 2019 enrollee-level EDGE data.<sup>2</sup> Due to timing constraints, we were unable to finalize the final coefficients in the Final 2023 Payment Notice; therefore, consistent with 45 C.F.R. § 153.320(b)(1)(i), we are publishing the final coefficients for the 2023 benefit year in this document.

The proposed 2023 risk adjustment model coefficients<sup>3</sup> incorporated, among other things, three proposed model specification changes, including: (1) adding a two-stage weighted approach to the adult and child models (two-stage weighted model specification); (2) removing the current severity illness factors from the adult models and adding an interacted hierarchical condition category (HCC) count model specification to the adult and child models (interacted HCC counts model specification); and (3) replacing the current enrollment duration factors in the adult models with HCC-contingent enrollment duration factors (HCC-contingent EDFs).

In the Final 2023 Payment Notice, we finalized the interacted HCC count model specification and the HCC-contingent EDFs, but we did not finalize the proposed two-stage weighted model specification.<sup>4</sup> Because we did not finalize all of the proposed model specification changes, the final coefficients are different from the proposed coefficients. This document releases the 2023 benefit year final risk adjustment model coefficients. Table 1 contains the coefficients for each factor in the adult models, including the age-sex factors, HCCs, RXCs, RXC–HCC interactions, interacted HCC counts factors, and HCC-contingent EDFs. Table 2 contains the coefficients for each factor in the child models, including the age-sex factors, HCCs, and interacted HCC counts factors. Table 3 lists the HCCs that result in the application of the interacted HCC counts factors that apply to the adult and child models. Table 4 contains the coefficients for each factor in the

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<sup>1</sup> See HHS Notice of Benefit and Payment Parameters for 2023; Final Rule, 87 FR 27208 (May 6, 2022).

<sup>2</sup> The 2023 benefit year final HHS risk adjustment model coefficients also include: 1) a market pricing adjustment to the plan liability associated with Hepatitis C drugs in the risk adjustment models; 2) the removal of the mapping of hydroxychloroquine sulfate to RXC 09 in the 2018 and 2019 benefit year enrollee-level EDGE data; and, 3) use of the final, fourth quarter (Q4) RXC mapping document that was applicable for each benefit year of data with the exception of the 2017 enrollee-level EDGE data year, for which we used the Q2 2018 RXC mapping document. See 87 FR 27208 at 27230 through 27235. The adult, child, and infant models have been truncated to account for the high-cost risk pool payment parameters by removing 60 percent of costs above the \$1 million threshold.

<sup>3</sup> See HHS Notice of Benefit and Payment Parameters for 2023; Proposed Rule, 87 FR 584 (Jan. 5, 2022).

<sup>4</sup> See 87 FR 27208 at 27221 through 27230.

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infant models. Tables 5 and 6 contain the HCCs included in the infant models' maturity and severity categories, respectively. Table 7 contains the R-squared statistics for the final 2023 benefit year HHS risk adjustment models.

**TABLE 1: Adult Risk Adjustment Model Factors for the 2023 Benefit Year**

HCC or RXC No.	Factor	Platinum	Gold	Silver	Bronze	Catastrophic
	<i>Demographic Factors</i>					
	Age 21-24, Male	0.167	0.117	0.077	0.048	0.047
	Age 25-29, Male	0.170	0.119	0.078	0.048	0.047
	Age 30-34, Male	0.202	0.144	0.098	0.062	0.061
	Age 35-39, Male	0.225	0.161	0.108	0.066	0.065
	Age 40-44, Male	0.263	0.193	0.134	0.087	0.085
	Age 45-49, Male	0.292	0.216	0.152	0.100	0.098
	Age 50-54, Male	0.377	0.292	0.221	0.162	0.160
	Age 55-59, Male	0.429	0.335	0.257	0.192	0.190
	Age 60-64, Male	0.487	0.384	0.297	0.225	0.223
	Age 21-24, Female	0.256	0.182	0.121	0.074	0.072
	Age 25-29, Female	0.281	0.201	0.135	0.083	0.081
	Age 30-34, Female	0.352	0.263	0.189	0.130	0.128
	Age 35-39, Female	0.420	0.323	0.243	0.179	0.177
	Age 40-44, Female	0.474	0.369	0.281	0.210	0.207
	Age 45-49, Female	0.481	0.372	0.279	0.200	0.198
	Age 50-54, Female	0.529	0.418	0.321	0.239	0.236
	Age 55-59, Female	0.503	0.391	0.293	0.211	0.209
	Age 60-64, Female	0.517	0.402	0.301	0.216	0.213
	<i>Diagnosis Factors</i>					
HCC001	HIV/AIDS	0.829	0.716	0.653	0.616	0.615
HCC002	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	8.980	8.746	8.638	8.584	8.583
HCC003	Central Nervous System Infections, Except Viral Meningitis	8.324	8.186	8.104	8.035	8.032
HCC004	Viral or Unspecified Meningitis	8.298	8.153	8.058	7.974	7.971
HCC006	Opportunistic Infections	7.834	7.759	7.677	7.583	7.579
HCC008	Metastatic Cancer	23.677	23.226	23.131	23.140	23.141
HCC009	Lung, Brain, and Other Severe Cancers, Including Pediatric Acute Lymphoid Leukemia	14.216	13.902	13.805	13.768	13.767
HCC010	Non-Hodgkin Lymphomas and Other Cancers and Tumors	5.954	5.752	5.654	5.582	5.580
HCC011	Colorectal, Breast (Age < 50), Kidney, and Other Cancers	3.670	3.467	3.358	3.273	3.270
HCC012	Breast (Age 50+) and Prostate Cancer, Benign/Uncertain Brain Tumors, and Other Cancers and Tumors	2.483	2.332	2.238	2.161	2.159

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HCC or RXC No.	Factor	Platinum	Gold	Silver	Bronze	Catastrophic
HCC013	Thyroid Cancer, Melanoma, Neurofibromatosis, and Other Cancers and Tumors	1.038	0.931	0.823	0.718	0.714
HCC018	Pancreas Transplant Status	5.932	5.949	5.984	6.020	6.021
HCC019	Diabetes with Acute Complications	0.305	0.253	0.205	0.162	0.160
HCC020	Diabetes with Chronic Complications	0.305	0.253	0.205	0.162	0.160
HCC021	Diabetes without Complication	0.305	0.253	0.205	0.162	0.160
HCC022	Type 1 Diabetes Mellitus, add-on to Diabetes HCCs 19-21	0.330	0.300	0.259	0.200	0.198
HCC023	Protein-Calorie Malnutrition	10.838	10.695	10.619	10.566	10.564
HCC026	Mucopolysaccharidosis	27.297	27.064	27.000	26.985	26.986
HCC027	Lipidoses and Glycogenosis	27.297	27.064	27.000	26.985	26.986
HCC029	Amyloidosis, Porphyria, and Other Metabolic Disorders	7.481	7.364	7.303	7.253	7.252
HCC030	Adrenal, Pituitary, and Other Significant Endocrine Disorders	1.453	1.360	1.287	1.216	1.214
HCC034	Liver Transplant Status/Complications	6.091	6.067	5.984	6.020	6.021
HCC035_1 <sup>5</sup>	Acute Liver Failure/Disease, Including Neonatal Hepatitis	7.212	7.015	6.944	6.918	6.917
HCC035_2	Chronic Liver Failure/End-Stage Liver Disorders	2.688	2.502	2.429	2.389	2.388
HCC036	Cirrhosis of Liver	0.831	0.732	0.665	0.600	0.598
HCC037_1	Chronic Viral Hepatitis C	0.636	0.556	0.490	0.434	0.432
HCC037_2	Chronic Hepatitis, Except Chronic Viral Hepatitis C	0.636	0.556	0.490	0.434	0.432
HCC041	Intestine Transplant Status/Complications	19.388	19.268	19.200	19.150	19.147
HCC042	Peritonitis/Gastrointestinal Perforation/Necrotizing Enterocolitis	11.001	10.715	10.646	10.623	10.623
HCC045	Intestinal Obstruction	4.958	4.766	4.662	4.603	4.602
HCC046	Chronic Pancreatitis	2.865	2.677	2.605	2.583	2.583
HCC047	Acute Pancreatitis	2.670	2.465	2.360	2.281	2.280
HCC048	Inflammatory Bowel Disease	0.560	0.478	0.307	0.202	0.198
HCC054	Necrotizing Fasciitis	9.170	8.984	8.936	8.926	8.925
HCC055	Bone/Joint/Muscle Infections/Necrosis	4.709	4.508	4.448	4.436	4.436
HCC056	Rheumatoid Arthritis and Specified Autoimmune Disorders	1.186	1.082	0.996	0.918	0.915
HCC057	Systemic Lupus Erythematosus and Other Autoimmune Disorders	0.539	0.453	0.355	0.247	0.244
HCC061	Osteogenesis Imperfecta and Other Osteodystrophies	2.312	2.156	2.064	1.988	1.985
HCC062	Congenital/Developmental Skeletal and Connective Tissue Disorders	2.312	2.156	2.064	1.988	1.985

<sup>5</sup> HCC numbers that appear with an underscore in this document will appear without the underscore in the DIY software. For example, HCC 035\_1 in this table will appear as HCC 351 in the DIY software.

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HCC063	Cleft Lip/Cleft Palate	1.762	1.636	1.552	1.483	1.482
HCC066	Hemophilia	71.881	71.567	71.487	71.480	71.480
HCC067	Myelodysplastic Syndromes and Myelofibrosis	12.233	12.099	12.047	12.013	12.010
HCC068	Aplastic Anemia	12.233	12.099	12.047	12.013	12.010
HCC069	Acquired Hemolytic Anemia, Including Hemolytic Disease of Newborn	12.233	12.099	12.047	12.013	12.010
HCC070	Sickle Cell Anemia (Hb-SS)	2.351	2.242	2.164	2.096	2.093
HCC071	Beta Thalassemia Major	2.351	2.242	2.164	2.096	2.093
HCC073	Combined and Other Severe Immunodeficiencies	4.086	3.968	3.911	3.865	3.863
HCC074	Disorders of the Immune Mechanism	4.086	3.968	3.911	3.865	3.863
HCC075	Coagulation Defects and Other Specified Hematological Disorders	2.135	2.044	1.979	1.921	1.919
HCC081	Drug Use with Psychotic Complications	1.993	1.829	1.698	1.561	1.556
HCC082	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	1.993	1.829	1.698	1.561	1.556
HCC083	Alcohol Use with Psychotic Complications	1.005	0.876	0.779	0.689	0.687
HCC084	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	1.005	0.876	0.779	0.689	0.687
HCC087_1	Schizophrenia	2.365	2.179	2.064	1.971	1.969
HCC087_2	Delusional and Other Specified Psychotic Disorders, Unspecified Psychosis	2.365	2.179	2.064	1.971	1.969
HCC088	Major Depressive Disorder, Severe, and Bipolar Disorders	1.161	1.043	0.937	0.832	0.828
HCC090	Personality Disorders	0.847	0.753	0.647	0.536	0.532
HCC094	Anorexia/Bulimia Nervosa	2.271	2.138	2.050	1.971	1.968
HCC096	Prader-Willi, Patau, Edwards, and Autosomal Deletion Syndromes	8.408	8.344	8.287	8.227	8.224
HCC097	Down Syndrome, Fragile X, Other Chromosomal Anomalies, and Congenital Malformation Syndromes	1.278	1.200	1.133	1.071	1.069
HCC102	Autistic Disorder	1.034	0.939	0.838	0.739	0.735
HCC103	Pervasive Developmental Disorders, Except Autistic Disorder	0.847	0.753	0.647	0.536	0.532
HCC106	Traumatic Complete Lesion Cervical Spinal Cord	9.171	8.978	8.882	8.814	8.812
HCC107	Quadriplegia	9.171	8.978	8.882	8.814	8.812
HCC108	Traumatic Complete Lesion Dorsal Spinal Cord	6.793	6.624	6.538	6.469	6.467
HCC109	Paraplegia	6.793	6.624	6.538	6.469	6.467
HCC110	Spinal Cord Disorders/Injuries	5.080	4.868	4.778	4.718	4.716

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HCC111	Amyotrophic Lateral Sclerosis and Other Anterior Horn Cell Disease	4.804	4.625	4.519	4.424	4.421
HCC112	Quadriplegic Cerebral Palsy	1.332	1.150	1.043	0.950	0.947
HCC113	Cerebral Palsy, Except Quadriplegic	0.655	0.574	0.497	0.419	0.417
HCC114	Spina Bifida and Other Brain/Spinal/Nervous System Congenital Anomalies	1.381	1.278	1.199	1.120	1.118
HCC115	Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	5.140	5.033	4.993	4.969	4.968
HCC117	Muscular Dystrophy	1.640	1.528	1.435	1.339	1.335
HCC118	Multiple Sclerosis	1.963	1.829	1.741	1.659	1.656
HCC119	Parkinson's, Huntington's, and Spinocerebellar Disease, and Other Neurodegenerative Disorders	1.640	1.528	1.435	1.339	1.335
HCC120	Seizure Disorders and Convulsions	1.173	1.061	0.974	0.892	0.889
HCC121	Hydrocephalus	9.778	9.651	9.573	9.507	9.505
HCC122	Coma, Brain Compression/Anoxic Damage	10.040	9.859	9.762	9.685	9.682
HCC123	Narcolepsy and Cataplexy	5.710	5.551	5.451	5.363	5.360
HCC125	Respirator Dependence/Tracheostomy Status	19.636	19.402	19.298	19.235	19.234
HCC126	Respiratory Arrest	8.426	8.201	8.093	8.029	8.027
HCC127	Cardio-Respiratory Failure and Shock, Including Respiratory Distress Syndromes	8.426	8.201	8.093	8.029	8.027
HCC128	Heart Assistive Device/Artificial Heart	18.901	18.730	18.647	18.621	18.624
HCC129	Heart Transplant Status/Complications	18.901	18.730	18.647	18.621	18.624
HCC130	Heart Failure	2.157	2.053	1.998	1.956	1.955
HCC131	Acute Myocardial Infarction	5.536	5.258	5.186	5.188	5.190
HCC132	Unstable Angina and Other Acute Ischemic Heart Disease	4.287	4.035	3.942	3.901	3.901
HCC135	Heart Infection/Inflammation, Except Rheumatic	8.954	8.833	8.741	8.652	8.649
HCC137	Hypoplastic Left Heart Syndrome and Other Severe Congenital Heart Disorders	2.292	2.187	2.109	2.043	2.041
HCC138	Major Congenital Heart/Circulatory Disorders	2.292	2.187	2.109	2.043	2.041
HCC139	Atrial and Ventricular Septal Defects, Patent Ductus Arteriosus, and Other Congenital Heart/Circulatory Disorders	2.292	2.187	2.109	2.043	2.041
HCC142	Specified Heart Arrhythmias	1.980	1.860	1.772	1.686	1.688
HCC145	Intracranial Hemorrhage	10.523	10.326	10.234	10.173	10.171
HCC146	Ischemic or Unspecified Stroke	1.432	1.306	1.241	1.195	1.194

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HCC149	Cerebral Aneurysm and Arteriovenous Malformation	2.340	2.200	2.114	2.037	2.035
HCC150	Hemiplegia/Hemiparesis	3.422	3.280	3.238	3.230	3.231
HCC151	Monoplegia, Other Paralytic Syndromes	2.540	2.419	2.349	2.287	2.285
HCC153	Atherosclerosis of the Extremities with Ulceration or Gangrene	7.708	7.537	7.515	7.546	7.547
HCC154	Vascular Disease with Complications	5.409	5.242	5.172	5.129	5.128
HCC156	Pulmonary Embolism and Deep Vein Thrombosis	7.584	7.470	7.369	7.258	7.253
HCC158	Lung Transplant Status/Complications	11.151	10.965	10.891	10.876	10.874
HCC159	Cystic Fibrosis	5.579	5.369	5.265	5.195	5.193
HCC160	Chronic Obstructive Pulmonary Disease, Including Bronchiectasis	0.703	0.613	0.523	0.431	0.428
HCC161_1	Severe Asthma	0.703	0.613	0.523	0.431	0.428
HCC161_2	Asthma, Except Severe	0.703	0.613	0.523	0.431	0.428
HCC162	Fibrosis of Lung and Other Lung Disorders	1.765	1.656	1.581	1.510	1.507
HCC163	Aspiration and Specified Bacterial Pneumonias and Other Severe Lung Infections	5.932	5.949	5.984	6.020	6.021
HCC174	Exudative Macular Degeneration	1.365	1.229	1.113	1.003	1.000
HCC183	Kidney Transplant Status/Complications	6.045	5.980	5.984	6.020	6.021
HCC184	End Stage Renal Disease	20.979	20.542	20.529	20.537	20.540
HCC187	Chronic Kidney Disease, Stage 5	0.761	0.675	0.651	0.635	0.633
HCC188	Chronic Kidney Disease, Severe (Stage 4)	0.761	0.675	0.651	0.635	0.633
HCC203	Ectopic and Molar Pregnancy	2.029	1.826	1.630	1.415	1.409
HCC204	Miscarriage with Complications	0.748	0.650	0.509	0.325	0.317
HCC205	Miscarriage with No or Minor Complications	0.748	0.650	0.509	0.325	0.317
HCC207	Pregnancy with Delivery with Major Complications	3.882	3.578	3.308	3.023	3.017
HCC208	Pregnancy with Delivery with Complications	3.882	3.578	3.308	3.023	3.017
HCC209	Pregnancy with Delivery with No or Minor Complications	2.752	2.534	2.266	1.892	1.881
HCC210	(Ongoing) Pregnancy without Delivery with Major Complications	0.997	0.868	0.695	0.496	0.489
HCC211	(Ongoing) Pregnancy without Delivery with Complications	0.653	0.555	0.412	0.264	0.259
HCC212	(Ongoing) Pregnancy without Delivery with No or Minor Complications	0.085	0.039	0.000	0.000	0.000
HCC217	Chronic Ulcer of Skin, Except Pressure	1.619	1.508	1.452	1.413	1.412
HCC218	Extensive Third Degree Burns	22.367	22.109	22.009	21.957	21.955

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HCC219	Major Skin Burn or Condition	2.792	2.658	2.577	2.515	2.513
HCC223	Severe Head Injury	17.057	16.879	16.774	16.689	16.686
HCC226	Hip and Pelvic Fractures	8.033	7.753	7.679	7.672	7.672
HCC228	Vertebral Fractures without Spinal Cord Injury	4.501	4.312	4.206	4.117	4.115
HCC234	Traumatic Amputations and Amputation Complications	5.039	4.853	4.792	4.777	4.777
HCC251	Stem Cell, Including Bone Marrow, Transplant Status/Complications	21.119	21.111	21.064	21.027	21.026
HCC253	Artificial Openings for Feeding or Elimination	5.948	5.817	5.773	5.756	5.756
HCC254	Amputation Status, Upper Limb or Lower Limb	1.474	1.347	1.284	1.244	1.244
	<i>Interacted HCC Counts Factors</i>					
	Severe illness, 1 payment HCC	-5.932	-5.949	-5.984	-6.020	-6.021
	Severe illness, 2 payment HCCs	-5.403	-5.470	-5.504	-5.531	-5.531
	Severe illness, 3 payment HCCs	-4.343	-4.388	-4.335	-4.244	-4.240
	Severe illness, 4 payment HCCs	-3.631	-3.615	-3.460	-3.243	-3.234
	Severe illness, 5 payment HCCs	-2.997	-2.890	-2.640	-2.326	-2.314
	Severe illness, 6 payment HCCs	-2.707	-2.501	-2.162	-1.768	-1.754
	Severe illness, 7 payment HCCs	-2.013	-1.634	-1.189	-0.714	-0.698
	Severe illness, 8 payment HCCs	-1.879	-1.457	-0.988	-0.496	-0.479
	Severe illness, 9 payment HCCs	-0.126	0.494	1.070	1.639	1.657
	Severe illness, 10 or more payment HCCs	7.926	8.961	9.734	10.435	10.457
	Transplant severe illness, 4 payment HCCs	4.203	4.122	4.061	3.946	3.942
	Transplant severe illness, 5 payment HCCs	7.562	7.470	7.421	7.321	7.317
	Transplant severe illness, 6 payment HCCs	13.706	13.624	13.586	13.503	13.499
	Transplant severe illness, 7 payment HCCs	18.666	18.561	18.522	18.439	18.435
	Transplant severe illness, 8 or more payment HCCs	33.829	33.853	33.886	33.855	33.852
	<i>Enrollment Duration Factors</i>					
	Enrolled for 1 month, at least one payment HCC	9.348	7.984	6.959	6.027	5.995
	Enrolled for 2 months, at least one payment HCC	4.521	3.808	3.265	2.807	2.792
	Enrolled for 3 months, at least one payment HCC	2.949	2.471	2.098	1.796	1.787
	Enrolled for 4 months, at least one payment HCC	1.837	1.504	1.234	1.017	1.010
	Enrolled for 5 months, at least one payment HCC	1.348	1.100	0.893	0.722	0.717
	Enrolled for 6 months, at least one payment HCC	0.952	0.767	0.607	0.471	0.466

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	<i>Prescription Drug Factors</i>					
RXC01	Anti-HIV Agents	8.080	7.445	7.089	6.763	6.756
RXC02	Anti-Hepatitis C (HCV) Agents, Direct Acting Agents	7.337	6.835	6.703	6.727	6.731
RXC03	Antiarrhythmics	0.103	0.094	0.086	0.063	0.039
RXC04	Phosphate Binders	1.490	1.607	1.567	1.642	1.630
RXC05	Inflammatory Bowel Disease Agents	1.700	1.574	1.367	1.157	1.149
RXC06	Insulin	1.537	1.340	1.141	0.952	0.945
RXC07	Anti-Diabetic Agents, Except Insulin and Metformin Only	0.812	0.706	0.582	0.432	0.427
RXC08	Multiple Sclerosis Agents	22.766	21.760	21.387	21.195	21.194
RXC09	Immune Suppressants and Immunomodulators	16.493	15.865	15.676	15.713	15.715
RXC10	Cystic Fibrosis Agents	16.685	16.283	16.191	16.197	16.200
RXC01 x HCC001	Additional effect for enrollees with RXC 01 and HCC 001	2.996	3.107	3.389	3.774	3.785
RXC02 x HCC037_1, 036, 035_2, 035_1, 034	Additional effect for enrollees with RXC 02 and (HCC 037_1 or 036 or 035_2 or 035_1 or 034)	-0.636	-0.556	-0.490	-0.419	-0.417
RXC03 x HCC142	Additional effect for enrollees with RXC 03 and HCC 142	0.000	0.000	0.000	0.000	0.000
RXC04 x HCC184, 183, 187, 188	Additional effect for enrollees with RXC 04 and (HCC 184 or 183 or 187 or 188)	0.000	0.000	0.000	0.000	0.000
RXC05 x HCC048, 041	Additional effect for enrollees with RXC 05 and (HCC 048 or 041)	-0.529	-0.478	-0.307	-0.202	-0.198
RXC06 x HCC018, 019, 020, 021	Additional effect for enrollees with RXC 06 and (HCC 018 or 019 or 020 or 021)	0.396	0.447	0.524	0.571	0.574
RXC07 x HCC018, 019, 020, 021	Additional effect for enrollees with RXC 07 and (HCC 018 or 019 or 020 or 021)	-0.305	-0.253	-0.205	-0.162	-0.160
RXC08 x HCC118	Additional effect for enrollees with RXC 08 and HCC 118	0.324	0.804	1.157	1.490	1.497
RXC09 x HCC056 or 057 and 048 or 041	Additional effect for enrollees with RXC 09 and (HCC 048 or 041) and (HCC 056 or 057)	0.898	0.993	0.857	0.920	0.922
RXC09 x HCC056	Additional effect for enrollees with RXC 09 and HCC 056	-1.186	-1.082	-0.996	-0.918	-0.915
RXC09 x HCC057	Additional effect for enrollees with RXC 09 and HCC 057	-0.539	-0.453	-0.355	-0.247	-0.244

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HCC or RXC No.	Factor	Platinum	Gold	Silver	Bronze	Catastrophic
RXC09 x HCC048, 041	Additional effect for enrollees with RXC 09 and (HCC 048 or 041)	0.529	0.598	1.021	1.122	1.125
RXC10 x HCC159, 158	Additional effect for enrollees with RXC 10 and (HCC 159 or 158)	48.995	49.045	49.149	49.264	49.267

**TABLE 2: Child Risk Adjustment Model Factors for the 2023 Benefit Year**

Factor	Platinum	Gold	Silver	Bronze	Catastrophic
<i>Demographic Factors</i>					
Age 2-4, Male	0.269	0.195	0.144	0.105	0.104
Age 5-9, Male	0.192	0.130	0.091	0.064	0.063
Age 10-14, Male	0.227	0.165	0.122	0.096	0.095
Age 15-20, Male	0.266	0.200	0.148	0.111	0.110
Age 2-4, Female	0.210	0.147	0.107	0.080	0.079
Age 5-9, Female	0.142	0.087	0.055	0.034	0.033
Age 10-14, Female	0.211	0.151	0.112	0.086	0.086
Age 15-20, Female	0.295	0.215	0.150	0.102	0.101
<i>Diagnosis Factors</i>					
HIV/AIDS	6.079	5.588	5.395	5.284	5.282
Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	14.363	14.145	14.018	13.928	13.927
Central Nervous System Infections, Except Viral Meningitis	13.069	12.896	12.804	12.743	12.741
Viral or Unspecified Meningitis	10.692	10.648	10.612	10.582	10.581
Opportunistic Infections	16.437	16.372	16.290	16.199	16.196
Metastatic Cancer	30.906	30.616	30.514	30.467	30.467
Lung, Brain, and Other Severe Cancers, Including Pediatric Acute Lymphoid Leukemia	8.469	8.204	8.060	7.951	7.948
Non-Hodgkin Lymphomas and Other Cancers and Tumors	7.068	6.837	6.698	6.583	6.580
Colorectal, Breast (Age < 50), Kidney, and Other Cancers	4.676	4.522	4.409	4.305	4.301
Breast (Age 50+) and Prostate Cancer, Benign/Uncertain Brain Tumors, and Other Cancers and Tumors	4.676	4.522	4.409	4.305	4.301
Thyroid Cancer, Melanoma, Neurofibromatosis, and Other Cancers and Tumors	0.886	0.771	0.663	0.557	0.554
Pancreas Transplant Status	11.147	10.995	10.948	10.906	10.905
Diabetes with Acute Complications	2.582	2.320	2.054	1.777	1.771
Diabetes with Chronic Complications	2.582	2.320	2.054	1.777	1.771
Diabetes without Complication	2.582	2.320	2.054	1.777	1.771
Protein-Calorie Malnutrition	18.256	18.124	18.055	18.009	18.007
Mucopolysaccharidosis	38.265	37.987	37.895	37.857	37.856
Lipidoses and Glycogenosis	38.265	37.987	37.895	37.857	37.856

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Factor	Platinum	Gold	Silver	Bronze	Catastrophic
Congenital Metabolic Disorders, Not Elsewhere Classified	5.543	5.422	5.343	5.278	5.276
Amyloidosis, Porphyria, and Other Metabolic Disorders	5.543	5.422	5.343	5.278	5.276
Adrenal, Pituitary, and Other Significant Endocrine Disorders	6.756	6.490	6.385	6.334	6.332
Liver Transplant Status/Complications	11.147	10.995	10.948	10.906	10.905
Acute Liver Failure/Disease, Including Neonatal Hepatitis	10.003	9.845	9.793	9.778	9.778
Chronic Liver Failure/End-Stage Liver Disorders	9.665	9.506	9.431	9.379	9.378
Cirrhosis of Liver	2.894	2.843	2.779	2.709	2.710
Chronic Viral Hepatitis C	1.659	1.500	1.437	1.434	1.435
Chronic Hepatitis, Except Chronic Viral Hepatitis C	0.000	0.000	0.000	0.000	0.000
Intestine Transplant Status/Complications	13.630	13.519	13.424	13.326	13.321
Peritonitis/Gastrointestinal Perforation/Necrotizing Enterocolitis	17.595	17.294	17.189	17.156	17.155
Intestinal Obstruction	4.137	3.943	3.818	3.707	3.703
Chronic Pancreatitis	11.253	11.043	10.971	10.944	10.944
Acute Pancreatitis	4.564	4.321	4.183	4.074	4.072
Inflammatory Bowel Disease	10.154	9.737	9.568	9.461	9.458
Necrotizing Fasciitis	3.304	3.091	2.970	2.884	2.882
Bone/Joint/Muscle Infections/Necrosis	3.304	3.091	2.970	2.884	2.882
Rheumatoid Arthritis and Specified Autoimmune Disorders	5.379	5.113	4.982	4.898	4.895
Systemic Lupus Erythematosus and Other Autoimmune Disorders	0.765	0.649	0.532	0.408	0.404
Osteogenesis Imperfecta and Other Osteodystrophies	1.169	1.054	0.966	0.888	0.885
Congenital/Developmental Skeletal and Connective Tissue Disorders	1.169	1.054	0.966	0.888	0.885
Cleft Lip/Cleft Palate	1.070	0.917	0.790	0.667	0.664
Hemophilia	72.571	72.059	71.903	71.851	71.851
Myelodysplastic Syndromes and Myelofibrosis	12.140	11.969	11.883	11.825	11.823
Aplastic Anemia	12.140	11.969	11.883	11.825	11.823
Acquired Hemolytic Anemia, Including Hemolytic Disease of Newborn	12.140	11.969	11.883	11.825	11.823
Sickle Cell Anemia (Hb-SS)	4.829	4.619	4.494	4.397	4.394
Beta Thalassemia Major	4.829	4.619	4.494	4.397	4.394
Combined and Other Severe Immunodeficiencies	4.861	4.707	4.618	4.546	4.544
Disorders of the Immune Mechanism	4.861	4.707	4.618	4.546	4.544
Coagulation Defects and Other Specified Hematological Disorders	3.813	3.685	3.589	3.504	3.502
Drug Use with Psychotic Complications	2.384	2.215	2.087	1.965	1.962
Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications	2.384	2.215	2.087	1.965	1.962
Alcohol Use with Psychotic Complications	0.910	0.760	0.622	0.527	0.524

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Factor	Platinum	Gold	Silver	Bronze	Catastrophic
Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications	0.910	0.760	0.622	0.527	0.524
Schizophrenia	4.245	3.948	3.771	3.630	3.626
Delusional and Other Specified Psychotic Disorders, Unspecified Psychosis	3.409	3.158	2.980	2.816	2.812
Major Depressive Disorder, Severe, and Bipolar Disorders	2.512	2.306	2.145	1.993	1.988
Personality Disorders	0.381	0.293	0.194	0.102	0.099
Anorexia/Bulimia Nervosa	2.458	2.287	2.172	2.070	2.067
Prader-Willi, Patau, Edwards, and Autosomal Deletion Syndromes	11.422	11.316	11.236	11.163	11.160
Down Syndrome, Fragile X, Other Chromosomal Anomalies, and Congenital Malformation Syndromes	0.988	0.860	0.765	0.673	0.669
Autistic Disorder	2.512	2.306	2.145	1.993	1.988
Pervasive Developmental Disorders, Except Autistic Disorder	0.381	0.293	0.194	0.102	0.099
Traumatic Complete Lesion Cervical Spinal Cord	9.418	9.174	9.066	9.004	9.003
Quadriplegia	9.418	9.174	9.066	9.004	9.003
Traumatic Complete Lesion Dorsal Spinal Cord	8.841	8.595	8.497	8.441	8.440
Paraplegia	8.841	8.595	8.497	8.441	8.440
Spinal Cord Disorders/Injuries	4.080	3.879	3.737	3.594	3.588
Amyotrophic Lateral Sclerosis and Other Anterior Horn Cell Disease	47.933	47.676	47.564	47.478	47.476
Quadriplegic Cerebral Palsy	1.729	1.489	1.373	1.302	1.300
Cerebral Palsy, Except Quadriplegic	0.406	0.270	0.164	0.080	0.077
Spina Bifida and Other Brain/Spinal/Nervous System Congenital Anomalies	1.702	1.571	1.480	1.395	1.392
Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	9.779	9.592	9.530	9.508	9.507
Muscular Dystrophy	5.811	5.647	5.539	5.440	5.437
Multiple Sclerosis	12.054	11.613	11.489	11.464	11.465
Parkinson's, Huntington's, and Spinocerebellar Disease, and Other Neurodegenerative Disorders	5.811	5.647	5.539	5.440	5.437
Seizure Disorders and Convulsions	1.867	1.718	1.581	1.444	1.439
Hydrocephalus	10.434	10.456	10.471	10.490	10.491
Coma, Brain Compression/Anoxic Damage	10.434	10.456	10.471	10.490	10.491
Narcolepsy and Cataplexy	5.192	5.010	4.876	4.742	4.736
Respirator Dependence/Tracheostomy Status	27.991	27.740	27.642	27.591	27.589
Respiratory Arrest	15.409	15.142	15.014	14.936	14.935
Cardio-Respiratory Failure and Shock, Including Respiratory Distress Syndromes	15.409	15.142	15.014	14.936	14.935
Heart Assistive Device/Artificial Heart	13.630	13.519	13.424	13.326	13.321
Heart Transplant Status/Complications	13.630	13.519	13.424	13.326	13.321
Heart Failure	5.079	4.957	4.879	4.815	4.812

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Factor	Platinum	Gold	Silver	Bronze	Catastrophic
Acute Myocardial Infarction	0.514	0.454	0.421	0.401	0.401
Unstable Angina and Other Acute Ischemic Heart Disease	0.514	0.454	0.421	0.401	0.401
Heart Infection/Inflammation, Except Rheumatic	16.066	15.931	15.841	15.760	15.758
Hypoplastic Left Heart Syndrome and Other Severe Congenital Heart Disorders	3.678	3.511	3.379	3.262	3.258
Major Congenital Heart/Circulatory Disorders	1.168	1.058	0.941	0.839	0.836
Atrial and Ventricular Septal Defects, Patent Ductus Arteriosus, and Other Congenital Heart/Circulatory Disorders	0.667	0.568	0.475	0.401	0.399
Specified Heart Arrhythmias	2.887	2.721	2.615	2.526	2.523
Intracranial Hemorrhage	12.012	11.831	11.719	11.625	11.621
Ischemic or Unspecified Stroke	1.179	1.016	0.918	0.831	0.828
Cerebral Aneurysm and Arteriovenous Malformation	1.578	1.375	1.247	1.134	1.131
Hemiplegia/Hemiparesis	4.980	4.848	4.766	4.691	4.688
Monoplegia, Other Paralytic Syndromes	2.963	2.811	2.710	2.614	2.611
Atherosclerosis of the Extremities with Ulceration or Gangrene	12.005	11.753	11.638	11.570	11.567
Vascular Disease with Complications	6.543	6.389	6.331	6.296	6.295
Pulmonary Embolism and Deep Vein Thrombosis	20.060	19.901	19.803	19.721	19.718
Lung Transplant Status/Complications	13.630	13.519	13.424	13.326	13.321
Cystic Fibrosis	53.970	53.425	53.285	53.267	53.268
Chronic Obstructive Pulmonary Disease, Including Bronchiectasis	2.042	1.884	1.760	1.641	1.637
Severe Asthma	1.236	1.070	0.911	0.755	0.749
Asthma, Except Severe	0.340	0.260	0.173	0.100	0.097
Fibrosis of Lung and Other Lung Disorders	1.407	1.263	1.126	0.998	0.994
Aspiration and Specified Bacterial Pneumonias and Other Severe Lung Infections	10.492	10.456	10.471	10.490	10.491
Kidney Transplant Status/Complications	11.147	10.995	10.948	10.906	10.905
End Stage Renal Disease	35.177	34.921	34.865	34.867	34.867
Chronic Kidney Disease, Stage 5	0.992	0.898	0.814	0.728	0.724
Chronic Kidney Disease, Severe (Stage 4)	0.992	0.898	0.814	0.728	0.724
Ectopic and Molar Pregnancy	2.000	1.798	1.591	1.373	1.365
Miscarriage with Complications	0.697	0.574	0.403	0.202	0.194
Miscarriage with No or Minor Complications	0.697	0.574	0.403	0.202	0.194
Pregnancy with Delivery with Major Complications	3.397	3.083	2.773	2.395	2.383
Pregnancy with Delivery with Complications	3.397	3.083	2.773	2.395	2.383
Pregnancy with Delivery with No or Minor Complications	2.352	2.125	1.829	1.386	1.369
(Ongoing) Pregnancy without Delivery with Major Complications	0.603	0.472	0.306	0.136	0.131
(Ongoing) Pregnancy without Delivery with Complications	0.603	0.472	0.306	0.136	0.131
(Ongoing) Pregnancy without Delivery with No or Minor Complications	0.384	0.282	0.162	0.056	0.052

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Factor	Platinum	Gold	Silver	Bronze	Catastrophic
Chronic Ulcer of Skin, Except Pressure	2.095	1.988	1.905	1.842	1.840
Extensive Third Degree Burns	19.980	19.736	19.623	19.551	19.548
Major Skin Burn or Condition	2.016	1.858	1.737	1.632	1.628
Severe Head Injury	19.980	19.736	19.623	19.551	19.548
Hip and Pelvic Fractures	4.053	3.817	3.674	3.575	3.573
Vertebral Fractures without Spinal Cord Injury	4.037	3.829	3.673	3.526	3.521
Traumatic Amputations and Amputation Complications	3.982	3.758	3.604	3.454	3.449
Stem Cell, Including Bone Marrow, Transplant Status/Complications	13.630	13.519	13.424	13.326	13.321
Artificial Openings for Feeding or Elimination	7.194	7.002	6.944	6.925	6.926
Amputation Status, Upper Limb or Lower Limb	3.982	3.758	3.604	3.454	3.449
<i>Interacted HCC Counts Factors</i>					
Severe illness, 1 payment HCC	-10.434	-10.456	-10.471	-10.490	-10.491
Severe illness, 2 payment HCCs	-10.347	-10.401	-10.435	-10.468	-10.469
Severe illness, 3 payment HCCs	-8.328	-8.390	-8.323	-8.235	-8.231
Severe illness, 4 payment HCCs	-7.945	-7.994	-7.890	-7.708	-7.701
Severe illness, 5 payment HCCs	-5.724	-5.636	-5.381	-5.071	-5.060
Severe illness, 6 or 7 payment HCCs	-1.370	-1.098	-0.702	-0.265	-0.251
Severe illness, 8 or more payment HCCs	15.108	15.916	16.635	17.322	17.344
Transplant severe illness, 4 or more payment HCCs	17.558	17.665	17.716	17.749	17.750

**TABLE 3: HHS HCCs Selected for the HCC Interacted Counts Variables for the Adult and Child Models for the 2023 Benefit Year**

Payment HCC	Severity Illness Indicator	Transplant Indicator
HCC 2 Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	X	
HCC 3 Central Nervous System Infections, Except Viral Meningitis	X	
HCC 4 Viral or Unspecified Meningitis	X	
HCC 6 Opportunistic Infections	X	
HCC 18 Pancreas Transplant Status	X	X
HCC 23 Protein-Calorie Malnutrition	X	
HCC 34 Liver Transplant Status/Complications	X	X
HCC 41 Intestine Transplant Status/Complications	X	X
HCC 42 Peritonitis/Gastrointestinal Perforation/Necrotizing Enterocolitis	X	
HCC 96 Prader-Willi, Patau, Edwards, and Autosomal Deletion Syndromes	X	
HCC 121 Hydrocephalus	X	
HCC 122 Coma, Brain Compression/Anoxic Damage	X	
HCC 125 Respirator Dependence/Tracheostomy Status	X	
HCC 135 Heart Infection/Inflammation, Except Rheumatic	X	
HCC 145 Intracranial Hemorrhage	X	
HCC 156 Pulmonary Embolism and Deep Vein Thrombosis	X	
HCC 158 Lung Transplant Status/Complications	X	X

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Payment HCC	Severity Illness Indicator	Transplant Indicator
HCC 163 Aspiration and Specified Bacterial Pneumonias and Other Severe Lung Infections	X	
HCC 183 Kidney Transplant Status/Complications	X	X
HCC 218 Extensive Third Degree Burns	X	
HCC 223 Severe Head Injury	X	
HCC 251 Stem Cell, Including Bone Marrow, Transplant Status/Complications	X	X
G13 (Includes HCC 126 Respiratory Arrest and HCC 127 Cardio-Respiratory Failure and Shock, Including Respiratory Distress Syndromes)	X	
G14 (Includes HCC 128 Heart Assistive Device/Artificial Heart and HCC 129 Heart Transplant Status/Complications)	X	X

**TABLE 4: Infant Risk Adjustment Model Factors for the 2023 Benefit Year**

Group	Platinum	Gold	Silver	Bronze	Catastrophic
Extremely Immature * Severity Level 5 (Highest)	211.847	210.261	209.774	209.658	209.658
Extremely Immature * Severity Level 4	148.695	146.920	146.268	145.994	145.989
Extremely Immature * Severity Level 3	33.466	32.026	31.446	31.173	31.167
Extremely Immature * Severity Level 2	33.466	32.026	31.446	31.173	31.167
Extremely Immature * Severity Level 1 (Lowest)	33.466	32.026	31.446	31.173	31.167
Immature * Severity Level 5 (Highest)	114.344	112.652	112.106	111.935	111.932
Immature * Severity Level 4	68.725	67.061	66.501	66.299	66.296
Immature * Severity Level 3	33.466	32.026	31.446	31.173	31.167
Immature * Severity Level 2	30.548	29.122	28.536	28.242	28.234
Immature * Severity Level 1 (Lowest)	25.486	24.146	23.553	23.234	23.225
Premature/Multiples * Severity Level 5 (Highest)	101.851	100.439	99.973	99.813	99.810
Premature/Multiples * Severity Level 4	28.535	27.102	26.509	26.228	26.222
Premature/Multiples * Severity Level 3	13.748	12.735	12.109	11.610	11.594
Premature/Multiples * Severity Level 2	7.676	6.953	6.337	5.695	5.672
Premature/Multiples * Severity Level 1 (Lowest)	5.767	5.141	4.569	4.022	4.004
Term * Severity Level 5 (Highest)	78.540	77.274	76.768	76.528	76.523
Term * Severity Level 4	15.369	14.386	13.770	13.291	13.278
Term * Severity Level 3	5.921	5.324	4.752	4.173	4.154
Term * Severity Level 2	3.667	3.171	2.610	2.020	2.000
Term * Severity Level 1 (Lowest)	1.898	1.532	1.094	0.779	0.769
Age1 * Severity Level 5 (Highest)	63.543	62.814	62.526	62.389	62.386
Age1 * Severity Level 4	12.611	12.090	11.788	11.574	11.568
Age1 * Severity Level 3	2.978	2.696	2.472	2.291	2.285
Age1 * Severity Level 2	1.969	1.733	1.508	1.303	1.296
Age1 * Severity Level 1 (Lowest)	0.573	0.489	0.433	0.392	0.391
Age 0 Male	0.534	0.491	0.451	0.386	0.384
Age 1 Male	0.112	0.096	0.077	0.058	0.058

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**TABLE 5: HHS HCCs Included in Infant Model Maturity Categories**

Maturity Category	HCC/Description
Extremely Immature	Extremely Immature Newborns, Birth weight < 500 Grams
Extremely Immature	Extremely Immature Newborns, Including Birth weight 500-749 Grams
Extremely Immature	Extremely Immature Newborns, Including Birth weight 750-999 Grams
Immature	Premature Newborns, Including Birth weight 1000-1499 Grams
Immature	Premature Newborns, Including Birth weight 1500-1999 Grams
Premature/Multiples	Premature Newborns, Including Birth weight 2000-2499 Grams
Premature/Multiples	Other Premature, Low Birth weight, Malnourished, or Multiple Birth Newborns
Term	Term or Post-Term Singleton Newborn, Normal or High Birth weight
Age 1	All age 1 infants

**TABLE 6: HHS HCCs Included in Infant Model Severity Categories**

Severity Category	HCC/Description
Severity Level 5 (Highest)	Metastatic Cancer
Severity Level 5	Pancreas Transplant Status
Severity Level 5	Liver Transplant Status/Complications
Severity Level 5	Intestine Transplant Status/Complications
Severity Level 5	Peritonitis/Gastrointestinal Perforation/Necrotizing Enterocolitis
Severity Level 5	Respirator Dependence/Tracheostomy Status
Severity Level 5	Heart Assistive Device/Artificial Heart
Severity Level 5	Heart Transplant Status/Complications
Severity Level 5	Heart Failure
Severity Level 5	Hypoplastic Left Heart Syndrome and Other Severe Congenital Heart Disorders
Severity Level 5	Lung Transplant Status/Complications
Severity Level 5	Kidney Transplant Status/Complications
Severity Level 5	End Stage Renal Disease
Severity Level 5	Stem Cell, Including Bone Marrow, Transplant Status/Complications
Severity Level 4	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock
Severity Level 4	Lung, Brain, and Other Severe Cancers, Including Pediatric Acute Lymphoid Leukemia
Severity Level 4	Mucopolysaccharidosis
Severity Level 4	Adrenal, Pituitary, and Other Significant Endocrine Disorders
Severity Level 4	Acute Liver Failure/Disease, Including Neonatal Hepatitis
Severity Level 4	Chronic Liver Failure/End-Stage Liver Disorders
Severity Level 4	Major Congenital Anomalies of Diaphragm, Abdominal Wall, and Esophagus, Age < 2
Severity Level 4	Myelodysplastic Syndromes and Myelofibrosis
Severity Level 4	Aplastic Anemia
Severity Level 4	Combined and Other Severe Immunodeficiencies
Severity Level 4	Traumatic Complete Lesion Cervical Spinal Cord
Severity Level 4	Quadriplegia
Severity Level 4	Amyotrophic Lateral Sclerosis and Other Anterior Horn Cell Disease
Severity Level 4	Quadriplegic Cerebral Palsy
Severity Level 4	Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy
Severity Level 4	Coma, Brain Compression/Anoxic Damage
Severity Level 4	Respiratory Arrest
Severity Level 4	Cardio-Respiratory Failure and Shock, Including Respiratory Distress Syndromes
Severity Level 4	Acute Myocardial Infarction
Severity Level 4	Heart Infection/Inflammation, Except Rheumatic
Severity Level 4	Major Congenital Heart/Circulatory Disorders
Severity Level 4	Intracranial Hemorrhage

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Severity Category	HCC/Description
Severity Level 4	Ischemic or Unspecified Stroke
Severity Level 4	Vascular Disease with Complications
Severity Level 4	Pulmonary Embolism and Deep Vein Thrombosis
Severity Level 4	Aspiration and Specified Bacterial Pneumonias and Other Severe Lung Infections
Severity Level 4	Chronic Kidney Disease, Stage 5
Severity Level 4	Artificial Openings for Feeding or Elimination
Severity Level 3	HIV/AIDS
Severity Level 3	Central Nervous System Infections, Except Viral Meningitis
Severity Level 3	Opportunistic Infections
Severity Level 3	Non-Hodgkin Lymphomas and Other Cancers and Tumors
Severity Level 3	Colorectal, Breast (Age < 50), Kidney, and Other Cancers
Severity Level 3	Breast (Age 50+) and Prostate Cancer, Benign/Uncertain Brain Tumors, and Other Cancers and Tumors
Severity Level 3	Lipidoses and Glycogenosis
Severity Level 3	Intestinal Obstruction
Severity Level 3	Necrotizing Fasciitis
Severity Level 3	Bone/Joint/Muscle Infections/Necrosis
Severity Level 3	Osteogenesis Imperfecta and Other Osteodystrophies
Severity Level 3	Cleft Lip/Cleft Palate
Severity Level 3	Hemophilia
Severity Level 3	Disorders of the Immune Mechanism
Severity Level 3	Coagulation Defects and Other Specified Hematological Disorders
Severity Level 3	Drug Use with Psychotic Complications
Severity Level 3	Drug Use Disorder, Moderate/Severe, or Drug Use with Non-Psychotic Complications
Severity Level 3	Alcohol Use with Psychotic Complications
Severity Level 3	Alcohol Use Disorder, Moderate/Severe, or Alcohol Use with Specified Non-Psychotic Complications
Severity Level 3	Prader-Willi, Patau, Edwards, and Autosomal Deletion Syndromes
Severity Level 3	Traumatic Complete Lesion Dorsal Spinal Cord
Severity Level 3	Paraplegia
Severity Level 3	Spinal Cord Disorders/Injuries
Severity Level 3	Cerebral Palsy, Except Quadriplegic
Severity Level 3	Spina Bifida and Other Brain/Spinal/Nervous System Congenital Anomalies
Severity Level 3	Muscular Dystrophy
Severity Level 3	Parkinson's, Huntington's, and Spinocerebellar Disease, and Other Neurodegenerative Disorders
Severity Level 3	Hydrocephalus
Severity Level 3	Unstable Angina and Other Acute Ischemic Heart Disease
Severity Level 3	Atrial and Ventricular Septal Defects, Patent Ductus Arteriosus, and Other Congenital Heart/Circulatory Disorders
Severity Level 3	Specified Heart Arrhythmias
Severity Level 3	Cerebral Aneurysm and Arteriovenous Malformation
Severity Level 3	Hemiplegia/Hemiparesis
Severity Level 3	Cystic Fibrosis
Severity Level 3	Extensive Third Degree Burns
Severity Level 3	Severe Head Injury
Severity Level 3	Hip and Pelvic Fractures
Severity Level 3	Vertebral Fractures without Spinal Cord Injury
Severity Level 2	Viral or Unspecified Meningitis
Severity Level 2	Thyroid Cancer, Melanoma, Neurofibromatosis, and Other Cancers and Tumors

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Severity Category	HCC/Description
Severity Level 2	Diabetes with Acute Complications
Severity Level 2	Diabetes with Chronic Complications
Severity Level 2	Diabetes without Complication
Severity Level 2	Protein-Calorie Malnutrition
Severity Level 2	Congenital Metabolic Disorders, Not Elsewhere Classified
Severity Level 2	Amyloidosis, Porphyria, and Other Metabolic Disorders
Severity Level 2	Cirrhosis of Liver
Severity Level 2	Chronic Pancreatitis
Severity Level 2	Acute Pancreatitis
Severity Level 2	Inflammatory Bowel Disease
Severity Level 2	Rheumatoid Arthritis and Specified Autoimmune Disorders
Severity Level 2	Systemic Lupus Erythematosus and Other Autoimmune Disorders
Severity Level 2	Congenital/Developmental Skeletal and Connective Tissue Disorders
Severity Level 2	Acquired Hemolytic Anemia, Including Hemolytic Disease of Newborn
Severity Level 2	Sickle Cell Anemia (Hb-SS)
Severity Level 2	Down Syndrome, Fragile X, Other Chromosomal Anomalies, and Congenital Malformation Syndromes
Severity Level 2	Seizure Disorders and Convulsions
Severity Level 2	Monoplegia, Other Paralytic Syndromes
Severity Level 2	Atherosclerosis of the Extremities with Ulceration or Gangrene
Severity Level 2	Chronic Obstructive Pulmonary Disease, Including Bronchiectasis
Severity Level 2	Severe Asthma
Severity Level 2	Fibrosis of Lung and Other Lung Disorders
Severity Level 2	Chronic Kidney Disease, Severe (Stage 4)
Severity Level 2	Chronic Ulcer of Skin, Except Pressure
Severity Level 2	Major Skin Burn or Condition
Severity Level 1 (Lowest)	Chronic Viral Hepatitis C
Severity Level 1	Chronic Hepatitis, Except Chronic Viral Hepatitis C
Severity Level 1	Beta Thalassemia Major
Severity Level 1	Autistic Disorder
Severity Level 1	Pervasive Developmental Disorders, Except Autistic Disorder
Severity Level 1	Multiple Sclerosis
Severity Level 1	Asthma, Except Severe
Severity Level 1	Traumatic Amputations and Amputation Complications
Severity Level 1	Amputation Status, Upper Limb or Lower Limb

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**TABLE 7: R-Squared Statistics for Final HHS Risk Adjustment Models**

Model	2017 Enrollee-Level EDGE Data	2018 Enrollee-Level EDGE Data	2019 Enrollee-Level EDGE Data
Platinum Adult	0.4505	0.4471	0.4480
Gold Adult	0.4443	0.4404	0.4413
Silver Adult	0.4410	0.4371	0.4378
Bronze Adult	0.4382	0.4342	0.4349
Catastrophic Adult	0.4381	0.4341	0.4348
Platinum Child	0.3489	0.3535	0.3546
Gold Child	0.3456	0.3503	0.3512
Silver Child	0.3432	0.3479	0.3487
Bronze Child	0.3407	0.3454	0.3462
Catastrophic Child	0.3406	0.3453	0.3461
Platinum Infant	0.3311	0.3112	0.3146
Gold Infant	0.3272	0.3073	0.3107
Silver Infant	0.3252	0.3053	0.3087
Bronze Infant	0.3237	0.3037	0.3073
Catastrophic Infant	0.3236	0.3037	0.3072

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