

Table 4. Comparison of Current and Revised CMS-HCC Risk Adjustment Model HCCs

Current Model			Revised Model	
HCC	Description	Category Short Name	HCC	Description
HCC1	HIV/AIDS	Infection	HCC1	HIV/AIDS
HCC2	Septicemia/Shock		HCC2	<i>Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock</i>
HCC5	Opportunistic Infections	Neoplasm	HCC6	Opportunistic Infections
HCC7	Metastatic Cancer and Acute Leukemia		HCC8	Metastatic Cancer and Acute Leukemia
HCC8	Lung, Upper Digestive Tract, and Other Severe Cancers		HCC9	Lung and Other Severe Cancers
HCC9	Lymphatic, Head and Neck, Brain, and Other Major Cancers		HCC10	Lymphoma and Other Cancers
HCC10	Breast, Prostate, Colorectal and Other Cancers and Tumors		HCC11	Colorectal, Bladder, and Other Cancers
			HCC12	Breast, Prostate, and Other Cancers and Tumors
HCC15	Diabetes with Renal or Peripheral Circulatory Manifestation	Diabetes	HCC17	Diabetes with Acute Complications
HCC16	Diabetes with Neurologic or Other Specified Manifestation		HCC18	<i>Diabetes with Chronic Complications</i>
HCC17	Diabetes with Acute Complications		HCC19	Diabetes without Complication
HCC18	Diabetes with Ophthalmologic or Unspecified Manifestation			
HCC19	Diabetes without Complication			
HCC21	Protein-Calorie Malnutrition	Metabolic	HCC21	Protein-Calorie Malnutrition
			HCC22	Morbid Obesity
			HCC23	Other Significant Endocrine and Metabolic Disorders
HCC25	End-Stage Liver Disease	Liver	HCC27	End-Stage Liver Disease
HCC26	Cirrhosis of Liver		HCC28	Cirrhosis of Liver
HCC27	Chronic Hepatitis		HCC29	Chronic Hepatitis
HCC31	Intestinal Obstruction/Perforation	Gastrointestinal	HCC33	Intestinal Obstruction/Perforation
HCC32	Pancreatic Disease		HCC34	<i>Chronic Pancreatitis</i>
HCC33	Inflammatory Bowel Disease		HCC35	Inflammatory Bowel Disease
HCC37	Bone/Joint/Muscle Infections/Necrosis	Musculoskeletal	HCC39	Bone/Joint/Muscle Infections/Necrosis

Current Model			Revised Model		
HCC	Description	Category Short Name	HCC	Description	
HCC38	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	Blood	HCC40	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	
HCC44	Severe Hematological Disorders		HCC46	Severe Hematological Disorders	
HCC45	Disorders of Immunity		HCC47	Disorders of Immunity	
			HCC48	Coagulation Defects and Other Specified Hematological Disorders	
		Cognitive	HCC51	Dementia With Complications	
			HCC52	Dementia Without Complication	
HCC51	Drug/Alcohol Psychosis	Substance Abuse	HCC54	Drug/Alcohol Psychosis	
HCC52	Drug/Alcohol Dependence		HCC55	Drug/Alcohol Dependence	
HCC54	Schizophrenia	Psychiatric	HCC57	Schizophrenia	
HCC55	Major Depressive, Bipolar, and Paranoid Disorders		HCC58	Major Depressive, Bipolar, and Paranoid Disorders	
HCC67	Quadriplegia, Other Extensive Paralysis		<i>HCC70</i>	<i>Quadriplegia</i>	
HCC68	Paraplegia		HCC71	Paraplegia	
HCC69	Spinal Cord Disorders/Injuries		HCC72	Spinal Cord Disorders/Injuries	
HCC70	Muscular Dystrophy	Neurological	HCC73	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	
HCC71	Polyneuropathy		HCC74	Cerebral Palsy	
HCC72	Multiple Sclerosis		HCC75	Polyneuropathy	
HCC73	Parkinson's and Huntington's Diseases		HCC76	Muscular Dystrophy	
HCC74	Seizure Disorders and Convulsions		HCC77	Multiple Sclerosis	
HCC75	Coma, Brain Compression/Anoxic Damage		HCC78	Parkinson's and Huntington's Diseases	
			HCC79	Seizure Disorders and Convulsions	
			HCC80	Coma, Brain Compression/Anoxic Damage	
HCC77	Respirator Dependence/Tracheostomy Status			HCC82	Respirator Dependence/Tracheostomy Status
HCC78	Respiratory Arrest			HCC83	Respiratory Arrest
HCC79	Cardio-Respiratory Failure and Shock		HCC84	Cardio-Respiratory Failure and Shock	
HCC80	Congestive Heart Failure	Heart	HCC85	Congestive Heart Failure	
HCC81	Acute Myocardial Infarction		HCC86	Acute Myocardial Infarction	
HCC82	Unstable Angina and Other Acute Ischemic Heart Disease		HCC87	Unstable Angina and Other Acute Ischemic Heart Disease	

Current Model			Revised Model	
HCC	Description	Category Short Name	HCC	Description
HCC83	Angina Pectoris/Old Myocardial Infarction		<i>HCC88</i>	<i>Angina Pectoris</i>
HCC92	Specified Heart Arrhythmias		HCC96	Specified Heart Arrhythmias
HCC95	Cerebral Hemorrhage	Cerebrovascular Disease	HCC99	Cerebral Hemorrhage
HCC96	Ischemic or Unspecified Stroke		HCC100	Ischemic or Unspecified Stroke
HCC100	Hemiplegia/Hemiparesis		HCC103	Hemiplegia/Hemiparesis
HCC101	Cerebral Palsy and Other Paralytic Syndromes		<i>HCC104</i>	<i>Monoplegia, Other Paralytic Syndromes</i>
HCC104	Vascular Disease with Complications			HCC106
HCC105	Vascular Disease	Vascular	HCC107	Vascular Disease with Complications
			HCC108	Vascular Disease
HCC107	Cystic Fibrosis	Lung	HCC110	Cystic Fibrosis
HCC108	Chronic Obstructive Pulmonary Disease		HCC111	Chronic Obstructive Pulmonary Disease
HCC111	Aspiration and Specified Bacterial Pneumonias		HCC112	Fibrosis of Lung and Other Chronic Lung Disorders
HCC112	Pneumococcal Pneumonia, Empyema, Lung Abscess		HCC114	Aspiration and Specified Bacterial Pneumonias
			HCC115	Pneumococcal Pneumonia, Empyema, Lung Abscess
HCC119	Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	Eye	HCC122	Proliferative Diabetic Retinopathy and Vitreous Hemorrhage
			HCC124	Exudative Macular Degeneration
HCC130	Dialysis Status	Kidney	HCC134	Dialysis Status
HCC131	Renal Failure		<i>HCC135</i>	<i>Acute Renal Failure</i>
HCC132	Nephritis		<i>HCC136</i>	<i>Chronic Kidney Disease, Stage 5</i>
			<i>HCC137</i>	<i>Chronic Kidney Disease, Severe (Stage 4)</i>
			<i>HCC138</i>	<i>Chronic Kidney Disease, Moderate (Stage 3)</i>
			<i>HCC139</i>	<i>Chronic Kidney Disease, Mild or Unspecified (Stages 1-2 or Unspecified)</i>
			<i>HCC140</i>	<i>Unspecified Renal Failure</i>
			HCC141	Nephritis

Current Model			Revised Model	
HCC	Description	Category Short Name	HCC	Description
HCC148	Decubitus Ulcer of Skin	Skin	HCC157	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone
HCC149	Chronic Ulcer of Skin, Except Decubitus		HCC158	Pressure Ulcer of Skin with Full Thickness Skin Loss
HCC150	Extensive Third-Degree Burns		HCC159	Pressure Ulcer of Skin with Partial Thickness Skin Loss
			HCC160	Pressure Pre-Ulcer Skin Changes or Unspecified Stage
			HCC161	Chronic Ulcer of Skin, Except Pressure
			<i>HCC162</i>	<i>Severe Skin Burn or Condition</i>
HCC154	Severe Head Injury	Injury	HCC166	Severe Head Injury
HCC155	Major Head Injury		HCC167	Major Head Injury
HCC157	Vertebral Fractures w/o Spinal Cord Injury		HCC169	Vertebral Fractures without Spinal Cord Injury
HCC158	Hip Fracture/Dislocation		HCC170	Hip Fracture/Dislocation
HCC161	Traumatic Amputation		<i>HCC173</i>	<i>Traumatic Amputations and Complications</i>
HCC164	Major Complications of Medical Care and Trauma	Complications	<i>HCC176</i>	<i>Complications of Specified Implanted Device or Graft</i>
HCC174	Major Organ Transplant Status	Transplant	HCC186	Major Organ Transplant or Replacement Status
HCC176	Artificial Openings for Feeding or Elimination	Openings	HCC188	Artificial Openings for Feeding or Elimination
HCC177	Amputation Status, Lower Limb/Amputation Complications	Amputation	HCC189	Amputation Status, Lower Limb/Amputation Complications
		Disabled/Disease Interactions		
D-HCC5	Disabled_Opportunistic Infections		D_HCC6	Disabled, Opportunistic Infections
D-HCC44	Disabled_Severe Hematological Disorders		D_HCC34	Disabled, Chronic Pancreatitis
			D_HCC46	Disabled, Severe Hematological Disorders
D-HCC51	Disabled_Drug/Alcohol Psychosis		D_HCC54	Disabled, Drug/Alcohol Psychosis
D-HCC52	Disabled_Drug/Alcohol Dependence		D_HCC55	Disabled, Drug/Alcohol Dependence
D-HCC107	Disabled_Cystic Fibrosis		D_HCC110	Disabled, Cystic Fibrosis

Current Model			Revised Model	
HCC	Description	Category Short Name	HCC	Description
			D_HCC176	Disabled, Complications of Specified Implanted Device or Graft
		DiseaseInteractions		
INT1	DM_CHF		SEPSIS_CARD_RESP_FAIL	Sepsis*Cardiorespiratory Failure
INT2	DM_CVD		CANCER_IMMUNE	Cancer*Immune Disorders
INT3	CHF_COPD		DIABETES_CHF	Diabetes*Congestive Heart Failure
INT4	COPD_CVD_CAD		CHF_COPD	Congestive Heart Failure*Chronic Obstructive Pulmonary Disease
INT5	RF_CHF		CHF_RENAL	Congestive Heart Failure*Renal Disease
INT6	RF_CHF_DM		COPD_CARD_RESP_FAIL	Chronic Obstructive Pulmonary Disease*Cardiorespiratory Failure

Current Model NOTES:

Beneficiaries with three-way interaction RF_CHF_DM are excluded from the two-way interactions DM_CHF and RF_CHF.

DM is diabetes mellitus (HCCs 15-19).

CHF is congestive heart failure (HCC 80).

COPD is chronic obstructive pulmonary disease (HCC 108).

CVD is cerebrovascular disease (HCCs 95-96, 100-101).

CAD is coronary artery disease (HCCs 81-83).

RF is renal failure (HCC 131).

Revised Model NOTES:

New HCCs, demographic factors, or interactions (compared to the current model HCCs) are bolded.

Substantially revised HCCs, demographic factors, or interactions (compared to the current model HCCs) are in italics.

In the "disease interactions", the variables are defined as follows:

Sepsis = HCC 2.

Cardiorespiratory Failure = HCCs 82-84.

Cancer = HCCs 8-12.

Immune Disorders = HCC 47.

Diabetes = HCCs 17, 18, 19.

Congestive Heart Failure = HCC 85.

Chronic Obstructive Pulmonary Disease = HCCs 110-111.

Renal Disease = HCCs 134-141.