

**CBE 3510: Screening/Surveillance Colonoscopy Episode-Based Cost Measure**  
**Risk/Case-mix Adjustment Modeling and/or Stratification Specifications (Section 5.4.4a)**  
**Spring 2026 Maintenance of Endorsement**

Risk adjustment for the Screening/Surveillance Colonoscopy episode-based cost measure is fit using ordinary least squares (OLS) regression of standardized observed episode cost on the full set of risk-adjustment covariates, run separately within each of three care-setting sub-groups: Ambulatory Surgery Center, Hospital Outpatient Department, and Office. The tables below report the intercept, sub-group episode count, coefficient, and p-value for every variable in each sub-group's final model for the 2024 Study Period. The 65–69 patient age category is the reference group for the patient-age categorical variable (coefficient fixed at 0). An entry of "\*" indicates a small-cell suppression marker: the variable was not estimated in that sub-group due to small-cell suppression or insufficient variation to fit the term. Variable definitions, code-level specifications, data sources, and lookback windows are provided in the Measure Information Form (MIF) and the Measure Codes List (RA and RA\_Details tabs).

**Table 1. Final Risk Model — Ambulatory Surgery Center (n = 519,275 episodes), 2024 Study Period**

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
Intercept	519,275	965.898	<.0001
AICD	5,537	-5.462	0.3875
Use of Anti-Coagulation	42,482	22.249	<.0001
Asthma/OSA	62,549	8.038	<.0001
H/O anesthesia difficulties	71	-10.723	0.8408
Valvular Heart Disease and HOCM	29,846	-10.199	0.0003
Home Oxygen/Respiratory Failure	2,683	50.062	<.0001
Poorly Controlled Hypertension	56	-15.237	0.8002
Pulmonary Hypertension	3,627	-6.295	0.4512
HCC1: HIV/AIDS	965	12.378	0.3950
HCC2: Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	1,071	-16.422	0.2542
HCC6: Opportunistic Infections	681	-14.181	0.4247
HCC8: Metastatic Cancer and Acute Leukemia	3,445	-7.308	0.3491
HCC9: Lung and Other Severe Cancers	3,963	19.477	0.0079
HCC10: Lymphoma and Other Cancers	6,603	1.536	0.7872
HCC11: Colorectal, Bladder, and Other Cancers	10,099	-3.175	0.4871

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
HCC12: Breast, Prostate, and Other Cancers and Tumors	33,930	3.436	0.1770
HCC17: Diabetes with Acute Complications	546	8.187	0.6716
HCC18: Diabetes with Chronic Complications	56,115	21.483	<.0001
HCC19: Diabetes without Complication	34,680	19.619	<.0001
HCC21: Protein-Calorie Malnutrition	1,193	-42.406	0.0013
HCC22: Morbid Obesity	23,080	20.674	<.0001
HCC23: Other Significant Endocrine and Metabolic Disorders	12,735	-1.221	0.7679
HCC27: End-Stage Liver Disease	662	41.789	0.0173
HCC28: Cirrhosis of Liver	1,835	15.784	0.1348
HCC29: Chronic Hepatitis	1,453	-1.409	0.9052
HCC33: Intestinal Obstruction/Perforation	1,302	-7.683	0.5407
HCC34: Chronic Pancreatitis	543	2.641	0.8914
HCC35: Inflammatory Bowel Disease	*	*	*
HCC39: Bone/Joint/Muscle Infections/Necrosis	1,161	46.805	0.0009
HCC40: Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	25,312	-15.404	<.0001
HCC46: Severe Hematological Disorders	844	-19.947	0.2004
HCC47: Disorders of Immunity	7,911	-12.168	0.0534
Interaction: HCC47: Disorders of Immunity * Cancer	2,484	4.417	0.6956
HCC48: Coagulation Defects and Other Specified Hematological Disorders	18,819	3.787	0.2680
HCC51: Dementia With Complications	912	65.067	<.0001
HCC52: Dementia Without Complication	3,143	13.842	0.0876
HCC54: Substance Use with	77	16.830	0.7435

Covariate	Episodes	Coefficient	P-value
Psychotic Complications			
HCC55: Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	5,770	21.858	0.0003
HCC56: Substance Use Disorder, Mild, Except Alcohol and Cannabis	217	33.704	0.2707
HCC57: Schizophrenia	1,712	5.914	0.5982
HCC58: Reactive and Unspecified Psychosis	185	-36.308	0.2736
HCC59: Major Depressive, Bipolar, and Paranoid Disorders	33,848	-5.271	0.0428
HCC60: Personality Disorders	129	-48.565	0.2204
HCC70: Quadriplegia	51	-13.217	0.8357
HCC71: Paraplegia	137	82.738	0.0335
HCC72: Spinal Cord Disorders/Injuries	1,763	-12.957	0.2287
HCC73: Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	67	-0.085	0.9988
HCC74: Cerebral Palsy	302	21.060	0.4196
HCC75: Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	3,405	0.677	0.9308
HCC76: Muscular Dystrophy	93	2.755	0.9529
HCC77: Multiple Sclerosis	1,759	1.395	0.9092
HCC78: Parkinson's and Huntington's Diseases	3,629	-11.907	0.1135
HCC79: Seizure Disorders and Convulsions	4,337	-0.529	0.9393
HCC80: Coma, Brain Compression/Anoxic Damage	190	12.897	0.6938
HCC82: Respirator Dependence/Tracheostomy Status	109	2.536	0.9537
HCC83: Respiratory Arrest	*	*	*
HCC84: Cardio-Respiratory	1,821	-5.979	0.7149

Covariate	Episodes	Coefficient	P-value
Failure and Shock			
HCC85: Congestive Heart Failure	18,909	13.448	0.0160
Interaction: HCC85: Congestive Heart Failure * Renal	4,002	21.514	0.0135
Interaction: HCC85: Congestive Heart Failure * HCC96: Specified Heart Arrhythmias	7,462	20.506	0.0043
HCC86: Acute Myocardial Infarction	1,634	40.062	0.0003
HCC87: Unstable Angina and Other Acute Ischemic Heart Disease	1,318	42.210	0.0007
HCC88: Angina Pectoris	9,141	9.941	0.0387
HCC96: Specified Heart Arrhythmias	42,746	4.931	0.2016
HCC99: Intracranial Hemorrhage	469	6.209	0.7684
HCC100: Ischemic or Unspecified Stroke	3,951	15.338	0.0370
HCC103: Hemiplegia/Hemiparesis	1,028	-8.220	0.5656
HCC104: Monoplegia, Other Paralytic Syndromes	152	20.347	0.5776
HCC106: Atherosclerosis of the Extremities with Ulceration or Gangrene	317	-46.095	0.0710
HCC107: Vascular Disease with Complications	3,605	4.328	0.5843
HCC108: Vascular Disease	42,230	13.650	<.0001
HCC110: Cystic Fibrosis	38	51.003	0.4852
HCC111: Chronic Obstructive Pulmonary Disease	20,117	64.041	<.0001
HCC112: Fibrosis of Lung and Other Chronic Lung Disorders	4,245	-7.599	0.2821
HCC114: Aspiration and Specified Bacterial Pneumonias	283	88.751	0.0011
HCC115: Pneumococcal Pneumonia, Empyema, Lung Abscess	449	-15.871	0.4570
HCC122: Proliferative	2,105	29.273	0.0033

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
Diabetic Retinopathy and Vitreous Hemorrhage			
HCC124: Exudative Macular Degeneration	4,702	18.932	0.0042
HCC134: Dialysis Status	828	54.796	0.0241
HCC135: Acute Renal Failure	3,165	31.369	0.0002
HCC136: Chronic Kidney Disease, Stage 5	554	27.277	0.1756
HCC137: Chronic Kidney Disease, Severe (Stage 4)	1,811	38.359	0.0004
HCC138: Chronic Kidney Disease, Moderate (Stage 3)	26,645	12.071	<.0001
HCC157: Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	31	-175.081	0.0337
HCC158: Pressure Ulcer of Skin with Full Thickness Skin Loss	135	-58.036	0.1534
HCC159: Pressure Ulcer of Skin with Partial Thickness Skin Loss	156	-38.245	0.2919
HCC161: Chronic Ulcer of Skin, Except Pressure	2,712	11.830	0.1952
HCC162: Severe Skin Burn or Condition	19	-43.605	0.6727
HCC166: Severe Head Injury	*	*	*
HCC167: Major Head Injury	727	-21.493	0.2040
HCC169: Vertebral Fractures without Spinal Cord Injury	1,413	11.817	0.3250
HCC170: Hip Fracture/Dislocation	572	-26.143	0.1655
HCC173: Traumatic Amputations and Complications	154	-27.762	0.4490
HCC176: Complications of Specified Implanted Device or Graft	2,130	11.399	0.2512
HCC186: Major Organ Transplant or Replacement Status	1,112	-54.364	<.0001
HCC188: Artificial Openings for Feeding or Elimination	625	-52.646	0.0038

Covariate	Episodes	Coefficient	P-value
HCC189: Amputation Status, Lower Limb/Amputation Complications	711	1.917	0.9115
Interaction: Disabled * HCC6: Opportunistic Infections	28	50.982	0.5578
Interaction: Disabled * HCC39: Bone/Joint/Muscle Infections/Necrosis	109	-85.240	0.0654
Interaction: Disabled * HCC77: Multiple Sclerosis	394	1.009	0.9690
Interaction: Disabled * HCC85: Congestive Heart Failure	749	22.666	0.1892
Interaction: Disabled * HCC161: Chronic Ulcer of Skin, Except Pressure	185	58.103	0.0966
Interaction: Disabled * Pressure Ulcer	30	45.291	0.6101
Interaction: CHF * GCOPDCF	3,013	-31.398	0.0011
Interaction: Diabetes * CHF	6,590	-2.583	0.7223
Indicator: ESRD	1,199	0.814	0.9684
Interaction: GCOPDCF * Cardio-Respiratory Failure	1,022	-18.265	0.3921
Indicator: Long-Term Care Institution	156	32.916	0.3653
Indicator: Originally Disabled	39,107	5.021	0.1106
Age in Range: 0-34	60	-144.793	0.0128
Age in Range: 35-44	366	-60.137	0.0114
Age in Range: 45-54	5,428	-40.453	<.0001
Age in Range: 55-59	4,154	-6.512	0.3991
Age in Range: 60-64	7,774	-20.330	0.0008
Age in Range: 65-69	184,530	0 (reference)	—
Age in Range: 70-74	189,438	7.209	<.0001
Age in Range: 75-79	102,584	20.009	<.0001
Age in Range: 80-84	22,549	34.573	<.0001
Age in Range: 85-89	2,231	50.797	<.0001
Age in Range: 90+	161	-2.974	0.9332

**Table 2. Final Risk Model — Hospital Outpatient Department (n = 445,011 episodes), 2024 Study Period**

Covariate	Episodes	Coefficient	P-value
Intercept	445,011	1418.871	<.0001

Covariate	Episodes	Coefficient	P-value
AICD	9,786	-3.830	0.5475
Use of Anti-Coagulation	50,501	31.396	<.0001
Asthma/OSA	63,719	16.605	<.0001
H/O anesthesia difficulties	129	-74.253	0.1464
Valvular Heart Disease and HOCM	27,465	-7.952	0.0367
Home Oxygen/Respiratory Failure	6,053	29.978	0.0031
Poorly Controlled Hypertension	65	-74.167	0.3035
Pulmonary Hypertension	5,075	13.170	0.1469
HCC1: HIV/AIDS	1,274	-0.634	0.9691
HCC2: Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	1,699	-30.524	0.0404
HCC6: Opportunistic Infections	677	-29.204	0.2205
HCC8: Metastatic Cancer and Acute Leukemia	4,385	5.288	0.5549
HCC9: Lung and Other Severe Cancers	4,981	14.978	0.0776
HCC10: Lymphoma and Other Cancers	6,271	7.294	0.3332
HCC11: Colorectal, Bladder, and Other Cancers	11,476	-16.228	0.0036
HCC12: Breast, Prostate, and Other Cancers and Tumors	27,666	10.646	0.0034
HCC17: Diabetes with Acute Complications	714	89.678	<.0001
HCC18: Diabetes with Chronic Complications	58,154	23.198	<.0001
HCC19: Diabetes without Complication	34,567	11.007	0.0009
HCC21: Protein-Calorie Malnutrition	1,596	-7.618	0.6075
HCC22: Morbid Obesity	28,918	24.873	<.0001
HCC23: Other Significant Endocrine and Metabolic Disorders	13,715	9.930	0.0573
HCC27: End-Stage Liver Disease	1,092	42.477	0.0166
HCC28: Cirrhosis of Liver	2,146	34.624	0.0061
HCC29: Chronic Hepatitis	1,223	31.778	0.0565
HCC33: Intestinal Obstruction/Perforation	1,739	-51.334	0.0003

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
HCC34: Chronic Pancreatitis	574	-14.591	0.5484
HCC35: Inflammatory Bowel Disease	*	*	*
HCC39: Bone/Joint/Muscle Infections/Necrosis	1,476	-34.708	0.0393
HCC40: Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	22,010	-4.975	0.2220
HCC46: Severe Hematological Disorders	967	11.175	0.5517
HCC47: Disorders of Immunity	8,220	-7.095	0.3942
Interaction: HCC47: Disorders of Immunity * Cancer	2,768	6.944	0.6212
HCC48: Coagulation Defects and Other Specified Hematological Disorders	16,193	7.570	0.1125
HCC51: Dementia With Complications	1,268	1.406	0.9322
HCC52: Dementia Without Complication	3,101	-3.339	0.7517
HCC54: Substance Use with Psychotic Complications	103	-52.396	0.3611
HCC55: Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	5,295	35.640	<.0001
HCC56: Substance Use Disorder, Mild, Except Alcohol and Cannabis	277	-48.348	0.1669
HCC57: Schizophrenia	3,078	15.041	0.1678
HCC58: Reactive and Unspecified Psychosis	318	-1.036	0.9747
HCC59: Major Depressive, Bipolar, and Paranoid Disorders	31,695	-2.762	0.4305
HCC60: Personality Disorders	137	-43.066	0.3857
HCC70: Quadriplegia	250	-45.868	0.2172
HCC71: Paraplegia	363	-51.212	0.1009
HCC72: Spinal Cord Disorders/Injuries	1,914	-2.600	0.8455



<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
HCC73: Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	84	-38.420	0.5446
HCC74: Cerebral Palsy	765	31.537	0.1410
HCC75: Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	3,502	-24.784	0.0126
HCC76: Muscular Dystrophy	159	37.080	0.4209
HCC77: Multiple Sclerosis	1,876	-22.635	0.1628
HCC78: Parkinson's and Huntington's Diseases	3,603	-1.431	0.8834
HCC79: Seizure Disorders and Convulsions	6,349	15.973	0.0350
HCC80: Coma, Brain Compression/Anoxic Damage	226	-4.606	0.9055
HCC82: Respirator Dependence/Tracheostomy Status	291	-23.342	0.5008
HCC83: Respiratory Arrest	*	*	*
HCC84: Cardio-Respiratory Failure and Shock	4,753	29.265	0.0474
HCC85: Congestive Heart Failure	29,892	23.910	0.0002
Interaction: HCC85: Congestive Heart Failure * Renal	8,429	13.494	0.1152
Interaction: HCC85: Congestive Heart Failure * HCC96: Specified Heart Arrhythmias	13,896	27.639	0.0002
HCC86: Acute Myocardial Infarction	2,240	18.505	0.1358
HCC87: Unstable Angina and Other Acute Ischemic Heart Disease	1,527	12.391	0.4072
HCC88: Angina Pectoris	8,316	0.451	0.9447
HCC96: Specified Heart Arrhythmias	49,895	6.957	0.1535
HCC99: Intracranial Hemorrhage	588	29.351	0.2306
HCC100: Ischemic or	4,565	53.802	<.0001

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
Unspecified Stroke			
HCC103: Hemiplegia/Hemiparesis	1,772	-16.630	0.2432
HCC104: Monoplegia, Other Paralytic Syndromes	163	-1.823	0.9681
HCC106: Atherosclerosis of the Extremities with Ulceration or Gangrene	559	93.758	0.0002
HCC107: Vascular Disease with Complications	4,469	12.685	0.1695
HCC108: Vascular Disease	40,120	24.221	<.0001
HCC110: Cystic Fibrosis	97	64.426	0.2786
HCC111: Chronic Obstructive Pulmonary Disease	26,881	63.417	<.0001
HCC112: Fibrosis of Lung and Other Chronic Lung Disorders	4,383	9.581	0.2889
HCC114: Aspiration and Specified Bacterial Pneumonias	487	35.950	0.1831
HCC115: Pneumococcal Pneumonia, Empyema, Lung Abscess	433	12.972	0.6435
HCC122: Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	2,642	-20.161	0.0837
HCC124: Exudative Macular Degeneration	4,335	40.187	<.0001
HCC134: Dialysis Status	3,733	60.155	0.0036
HCC135: Acute Renal Failure	4,083	46.193	<.0001
HCC136: Chronic Kidney Disease, Stage 5	1,059	2.694	0.8896
HCC137: Chronic Kidney Disease, Severe (Stage 4)	2,625	53.510	<.0001
HCC138: Chronic Kidney Disease, Moderate (Stage 3)	26,830	15.462	0.0001
HCC157: Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	96	517.293	<.0001
HCC158: Pressure Ulcer of Skin with Full Thickness Skin Loss	281	142.873	0.0001
HCC159: Pressure Ulcer of	235	203.984	<.0001

Covariate	Episodes	Coefficient	P-value
Skin with Partial Thickness Skin Loss			
HCC161: Chronic Ulcer of Skin, Except Pressure	3,621	1.197	0.9103
HCC162: Severe Skin Burn or Condition	23	68.775	0.5699
HCC166: Severe Head Injury	*	*	*
HCC167: Major Head Injury	903	23.425	0.2355
HCC169: Vertebral Fractures without Spinal Cord Injury	1,404	-39.173	0.0118
HCC170: Hip Fracture/Dislocation	593	2.841	0.9054
HCC173: Traumatic Amputations and Complications	236	176.135	<.0001
HCC176: Complications of Specified Implanted Device or Graft	3,172	-20.812	0.0575
HCC186: Major Organ Transplant or Replacement Status	2,424	-26.372	0.0350
HCC188: Artificial Openings for Feeding or Elimination	1,413	-98.348	<.0001
HCC189: Amputation Status, Lower Limb/Amputation Complications	1,256	12.113	0.4741
Interaction: Disabled * HCC6: Opportunistic Infections	75	-43.412	0.5430
Interaction: Disabled * HCC39: Bone/Joint/Muscle Infections/Necrosis	236	4.935	0.9068
Interaction: Disabled * HCC77: Multiple Sclerosis	581	-1.265	0.9655
Interaction: Disabled * HCC85: Congestive Heart Failure	2,301	2.072	0.8762
Interaction: Disabled * HCC161: Chronic Ulcer of Skin, Except Pressure	431	-62.850	0.0384
Interaction: Disabled * Pressure Ulcer	132	-363.552	<.0001
Interaction: CHF *	6,475	-16.079	0.0814

Covariate	Episodes	Coefficient	P-value
GCOPDCF			
Interaction: Diabetes * CHF	12,164	-9.170	0.2198
Indicator: ESRD	4,377	25.677	0.1801
Interaction: GCOPDCF * Cardio-Respiratory Failure	3,087	-11.868	0.5084
Indicator: Long-Term Care Institution	966	8.587	0.6567
Indicator: Originally Disabled	56,586	14.244	<.0001
Age in Range: 0-34	117	-140.389	0.0091
Age in Range: 35-44	715	-100.869	<.0001
Age in Range: 45-54	9,888	-82.643	<.0001
Age in Range: 55-59	6,918	-35.290	<.0001
Age in Range: 60-64	11,855	-16.525	0.0113
Age in Range: 65-69	148,623	0 (reference)	—
Age in Range: 70-74	156,119	14.083	<.0001
Age in Range: 75-79	84,731	36.942	<.0001
Age in Range: 80-84	22,512	53.191	<.0001
Age in Range: 85-89	3,243	46.092	<.0001
Age in Range: 90+	290	3.839	0.9106

**Table 3. Final Risk Model — Office (n = 33,026 episodes), 2024 Study Period**

Covariate	Episodes	Coefficient	P-value
Intercept	33,026	610.325	<.0001
AICD	306	-4.326	0.8467
Use of Anti-Coagulation	2,132	-4.012	0.7686
Asthma/OSA	3,478	5.549	0.4184
H/O anesthesia difficulties	*	*	*
Valvular Heart Disease and HOCM	1,678	-8.046	0.4059
Home Oxygen/Respiratory Failure	108	270.353	<.0001
Poorly Controlled Hypertension	*	*	*
Pulmonary Hypertension	182	29.742	0.3361
HCC1: HIV/AIDS	60	-40.595	0.3997
HCC2: Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	69	-16.655	0.7252
HCC6: Opportunistic Infections	32	42.750	0.5224
HCC8: Metastatic Cancer and Acute Leukemia	203	140.900	<.0001
HCC9: Lung and Other Severe Cancers	228	19.482	0.4418
HCC10: Lymphoma and	460	2.003	0.9114

Covariate	Episodes	Coefficient	P-value
Other Cancers			
HCC11: Colorectal, Bladder, and Other Cancers	608	38.312	0.0125
HCC12: Breast, Prostate, and Other Cancers and Tumors	2,144	7.538	0.3667
HCC17: Diabetes with Acute Complications	38	349.266	<.0001
HCC18: Diabetes with Chronic Complications	3,455	10.925	0.1306
HCC19: Diabetes without Complication	2,327	12.017	0.1371
HCC21: Protein-Calorie Malnutrition	55	16.305	0.7467
HCC22: Morbid Obesity	1,352	21.225	0.0448
HCC23: Other Significant Endocrine and Metabolic Disorders	715	18.701	0.1929
HCC27: End-Stage Liver Disease	39	-13.644	0.8208
HCC28: Cirrhosis of Liver	118	-4.377	0.8986
HCC29: Chronic Hepatitis	107	-35.495	0.3243
HCC33: Intestinal Obstruction/Perforation	73	-44.822	0.3056
HCC34: Chronic Pancreatitis	23	58.765	0.4491
HCC35: Inflammatory Bowel Disease	*	*	*
HCC39: Bone/Joint/Muscle Infections/Necrosis	75	-24.893	0.5701
HCC40: Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	1,454	-17.364	0.0877
HCC46: Severe Hematological Disorders	55	-25.558	0.6131
HCC47: Disorders of Immunity	516	-22.934	0.2697
Interaction: HCC47: Disorders of Immunity * Cancer	174	13.456	0.7085
HCC48: Coagulation Defects and Other Specified Hematological Disorders	1,141	-17.212	0.1347
HCC51: Dementia With Complications	67	-15.299	0.7374

<b>Covariate</b>	<b>Episodes</b>	<b>Coefficient</b>	<b>P-value</b>
HCC52: Dementia Without Complication	199	9.490	0.7218
HCC54: Substance Use with Psychotic Complications	*	*	*
HCC55: Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	316	9.457	0.6564
HCC56: Substance Use Disorder, Mild, Except Alcohol and Cannabis	17	54.533	0.5471
HCC57: Schizophrenia	133	23.971	0.4685
HCC58: Reactive and Unspecified Psychosis	*	*	*
HCC59: Major Depressive, Bipolar, and Paranoid Disorders	1,941	-24.515	0.0061
HCC60: Personality Disorders	*	*	*
HCC70: Quadriplegia	*	*	*
HCC71: Paraplegia	*	*	*
HCC72: Spinal Cord Disorders/Injuries	89	-31.999	0.4190
HCC73: Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	*	*	*
HCC74: Cerebral Palsy	17	94.643	0.2976
HCC75: Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	183	-0.869	0.9750
HCC76: Muscular Dystrophy	*	*	*
HCC77: Multiple Sclerosis	94	-19.886	0.6597
HCC78: Parkinson's and Huntington's Diseases	183	14.355	0.6028
HCC79: Seizure Disorders and Convulsions	267	11.263	0.6259
HCC80: Coma, Brain Compression/Anoxic Damage	*	*	*
HCC82: Respirator Dependence/Tracheostomy	*	*	*

Covariate	Episodes	Coefficient	P-value
Status			
HCC83: Respiratory Arrest	*	*	*
HCC84: Cardio-Respiratory Failure and Shock	85	-107.279	0.0845
HCC85: Congestive Heart Failure	949	-1.155	0.9533
Interaction: HCC85: Congestive Heart Failure * Renal	177	-60.080	0.0774
Interaction: HCC85: Congestive Heart Failure * HCC96: Specified Heart Arrhythmias	338	125.182	<.0001
HCC86: Acute Myocardial Infarction	75	-81.002	0.0606
HCC87: Unstable Angina and Other Acute Ischemic Heart Disease	69	-39.772	0.3789
HCC88: Angina Pectoris	456	-10.119	0.5687
HCC96: Specified Heart Arrhythmias	2,174	15.323	0.2611
HCC99: Intracranial Hemorrhage	27	90.725	0.2138
HCC100: Ischemic or Unspecified Stroke	207	13.471	0.6105
HCC103: Hemiplegia/Hemiparesis	57	-61.088	0.2269
HCC104: Monoplegia, Other Paralytic Syndromes	*	*	*
HCC106: Atherosclerosis of the Extremities with Ulceration or Gangrene	25	-15.880	0.8323
HCC107: Vascular Disease with Complications	184	12.726	0.6573
HCC108: Vascular Disease	2,529	7.452	0.3540
HCC110: Cystic Fibrosis	*	*	*
HCC111: Chronic Obstructive Pulmonary Disease	1,159	67.209	<.0001
HCC112: Fibrosis of Lung and Other Chronic Lung Disorders	260	49.199	0.0379
HCC114: Aspiration and Specified Bacterial Pneumonias	*	*	*
HCC115: Pneumococcal	20	-37.319	0.6555

Covariate	Episodes	Coefficient	P-value
Pneumonia, Empyema, Lung Abscess			
HCC122: Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	130	-59.798	0.0708
HCC124: Exudative Macular Degeneration	279	-6.121	0.7847
HCC134: Dialysis Status	56	326.060	0.0001
HCC135: Acute Renal Failure	161	46.688	0.1289
HCC136: Chronic Kidney Disease, Stage 5	32	-79.127	0.2599
HCC137: Chronic Kidney Disease, Severe (Stage 4)	95	176.682	<.0001
HCC138: Chronic Kidney Disease, Moderate (Stage 3)	1,458	21.031	0.0459
HCC157: Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	*	*	*
HCC158: Pressure Ulcer of Skin with Full Thickness Skin Loss	*	*	*
HCC159: Pressure Ulcer of Skin with Partial Thickness Skin Loss	*	*	*
HCC161: Chronic Ulcer of Skin, Except Pressure	163	-24.503	0.4142
HCC162: Severe Skin Burn or Condition	*	*	*
HCC166: Severe Head Injury	*	*	*
HCC167: Major Head Injury	42	-47.868	0.4126
HCC169: Vertebral Fractures without Spinal Cord Injury	69	69.782	0.1207
HCC170: Hip Fracture/Dislocation	37	-22.577	0.7130
HCC173: Traumatic Amputations and Complications	*	*	*
HCC176: Complications of Specified Implanted Device or Graft	114	-36.625	0.3053
HCC186: Major Organ Transplant or Replacement	62	0.691	0.9887



Covariate	Episodes	Coefficient	P-value
Status			
HCC188: Artificial Openings for Feeding or Elimination	30	-111.874	0.1008
HCC189: Amputation Status, Lower Limb/Amputation Complications	37	-4.626	0.9404
Interaction: Disabled * HCC6: Opportunistic Infections	*	*	*
Interaction: Disabled * HCC39: Bone/Joint/Muscle Infections/Necrosis	*	*	*
Interaction: Disabled * HCC77: Multiple Sclerosis	26	0.222	0.9979
Interaction: Disabled * HCC85: Congestive Heart Failure	39	-7.015	0.9106
Interaction: Disabled * HCC161: Chronic Ulcer of Skin, Except Pressure	*	*	*
Interaction: Disabled * Pressure Ulcer	*	*	*
Interaction: CHF * GCOPDCF	137	-88.834	0.0159
Interaction: Diabetes * CHF	320	50.930	0.0594
Indicator: ESRD	78	74.709	0.3046
Interaction: GCOPDCF * Cardio-Respiratory Failure	46	34.506	0.6728
Indicator: Long-Term Care Institution	*	*	*
Indicator: Originally Disabled	2,637	28.754	0.0051
Age in Range: 0-44	30	-124.655	0.0708
Age in Range: 45-54	413	-55.799	0.0083
Age in Range: 55-59	275	22.283	0.3684
Age in Range: 60-64	580	-43.416	0.0197
Age in Range: 65-69	12,240	0 (reference)	—
Age in Range: 70-74	12,161	-4.618	0.3336
Age in Range: 75-79	6,083	9.075	0.1247
Age in Range: 80-84	1,116	23.398	0.0469
Age in Range: 85+	128	58.349	0.0788