

CBE 3510: Screening/Surveillance Colonoscopy Episode-Based Cost Measure**Descriptive Statistics for Risk/Case-mix Variables (Section 5.4.3a)****Spring 2026 Maintenance of Endorsement**

The table below reports descriptive statistics for each risk-adjustment variable in the final attributed episode population for the Screening/Surveillance Colonoscopy episode-based cost measure (2024 Study Period, n = 977,369 episodes; 15,017 attributed clinicians meeting a 10-episode case minimum; 11,854 attributed clinicians meeting a 20-episode case minimum). The first two data columns mirror the in-form Section 5.4.3 prevalence table at the episode level. The remaining six columns report the clinician-level distribution of each variable at two testing thresholds, demonstrating that exposure to each risk factor varies across attributed clinicians and supporting the need to adjust for fair clinician-to-clinician performance comparisons. Variables are ordered as: measure-specific clinical adjustors; CMS HCC Version 24 indicators and HCC-domain interactions; standard beneficiary indicators (end-stage renal disease, long-term care institutional status, originally disabled); and patient age categorical groups. An entry of "*" in the Episodes column denotes a small-cell suppression marker; a dash indicates no attributed clinicians reached the testing threshold for that variable. Variable definitions, data sources, and code-level specifications are provided in the Measure Information Form (MIF) and the Measure Codes List (RA and RA_Details tabs).

Distribution of Risk-Adjustment Variables, Final Attributed Episode Population and Clinicians Meeting 10-Episode and 20-Episode Case Minimums, 2024 Study Period

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
AICD	15,255	1.6%	26	0.17%	12.9	2	0.02%	22.0
Use of Anti-Coagulation	92,849	9.5%	3,017	20.1%	15.9	607	5.1%	26.1
Asthma/OSA	127,016	13.0%	4,579	30.5%	17.9	1,405	11.9%	27.7
H/O anesthesia difficulties	203	0.02%	0	0%	—	0	0%	—
Valvular Heart Disease and HOCM	57,556	5.9%	1,317	8.8%	14.5	160	1.3%	25.9

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
Home Oxygen/Respiratory Failure	8,510	0.9%	2	0.01%	12.0	0	0%	—
Poorly Controlled Hypertension	120	0.01%	0	0%	—	0	0%	—
Pulmonary Hypertension	8,595	0.9%	10	0.07%	11.4	0	0%	—
HCC1: HIV/AIDS	2,235	0.2%	4	0.03%	10.8	0	0%	—
HCC2: Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	2,735	0.3%	0	0%	—	0	0%	—
HCC6: Opportunistic Infections	1,346	0.1%	0	0%	—	0	0%	—
HCC8: Metastatic Cancer and Acute Leukemia	7,769	0.8%	5	0.03%	16.0	2	0.02%	20.5
HCC9: Lung and Other Severe Cancers	8,945	0.9%	1	<0.01%	12.0	0	0%	—
HCC10: Lymphoma and Other Cancers	13,032	1.3%	5	0.03%	11.4	0	0%	—
HCC11: Colorectal, Bladder, and Other Cancers	21,546	2.2%	63	0.42%	11.2	0	0%	—
HCC12: Breast, Prostate, and Other Cancers and Tumors	62,512	6.4%	1,514	10.1%	14.1	162	1.4%	23.9
HCC17: Diabetes with Acute Complications	1,253	0.1%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC18: Diabetes with Chronic Complications	114,784	11.7%	3,966	26.4%	17.1	1,035	8.7%	27.3
HCC19: Diabetes without Complication	70,079	7.2%	1,851	12.3%	14.3	212	1.8%	25.1
HCC21: Protein-Calorie Malnutrition	2,737	0.3%	0	0%	—	0	0%	—
HCC22: Morbid Obesity	52,246	5.3%	1,066	7.1%	13.6	86	0.73%	25.9
HCC23: Other Significant Endocrine and Metabolic Disorders	26,448	2.7%	114	0.76%	11.7	3	0.03%	23.3
HCC27: End-Stage Liver Disease	1,737	0.2%	0	0%	—	0	0%	—
HCC28: Cirrhosis of Liver	3,998	0.4%	0	0%	—	0	0%	—
HCC29: Chronic Hepatitis	2,723	0.3%	0	0%	—	0	0%	—
HCC33: Intestinal Obstruction/Perforation	2,996	0.3%	0	0%	—	0	0%	—
HCC34: Chronic Pancreatitis	1,100	0.1%	0	0%	—	0	0%	—
HCC35: Inflammatory Bowel Disease	*	<0.01%	0	0%	—	0	0%	—
HCC39: Bone/Joint/Muscle Infections/Necrosis	2,638	0.3%	0	0%	—	0	0%	—
HCC40: Rheumatoid Arthritis and Inflammatory	47,744	4.9%	827	5.5%	13.3	63	0.53%	23.8

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
Connective Tissue Disease								
HCC46: Severe Hematological Disorders	1,811	0.2%	0	0%	—	0	0%	—
HCC47: Disorders of Immunity	16,234	1.7%	31	0.21%	13.2	3	0.03%	24.3
Interaction: HCC47: Disorders of Immunity * Cancer	5,280	0.5%	1	<0.01%	11.0	0	0%	—
HCC48: Coagulation Defects and Other Specified Hematological Disorders	35,332	3.6%	456	3.0%	13.8	53	0.45%	25.9
HCC51: Dementia With Complications	2,165	0.2%	0	0%	—	0	0%	—
HCC52: Dementia Without Complication	6,250	0.6%	0	0%	—	0	0%	—
HCC54: Substance Use with Psychotic Complications	177	0.02%	0	0%	—	0	0%	—
HCC55: Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	11,070	1.1%	24	0.16%	11.8	1	<0.01%	21.0
HCC56: Substance Use	503	0.05%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
Disorder, Mild, Except Alcohol and Cannabis								
HCC57: Schizophrenia	4,719	0.5%	0	0%	—	0	0%	—
HCC58: Reactive and Unspecified Psychosis	493	0.05%	0	0%	—	0	0%	—
HCC59: Major Depressive, Bipolar, and Paranoid Disorders	65,916	6.7%	1,646	11.0%	14.4	211	1.8%	24.8
HCC60: Personality Disorders	276	0.03%	0	0%	—	0	0%	—
HCC70: Quadriplegia	294	0.03%	0	0%	—	0	0%	—
HCC71: Paraplegia	484	0.05%	0	0%	—	0	0%	—
HCC72: Spinal Cord Disorders/Injuries	3,676	0.4%	0	0%	—	0	0%	—
HCC73: Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	152	0.02%	0	0%	—	0	0%	—
HCC74: Cerebral Palsy	1,055	0.1%	0	0%	—	0	0%	—
HCC75: Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	6,914	0.7%	3	0.02%	11.3	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC76: Muscular Dystrophy	254	0.03%	0	0%	—	0	0%	—
HCC77: Multiple Sclerosis	3,646	0.4%	0	0%	—	0	0%	—
HCC78: Parkinson's and Huntington's Diseases	7,235	0.7%	1	<0.01%	10.0	0	0%	—
HCC79: Seizure Disorders and Convulsions	10,622	1.1%	1	<0.01%	18.0	0	0%	—
HCC80: Coma, Brain Compression/Anoxic Damage	409	0.04%	0	0%	—	0	0%	—
HCC82: Respirator Dependence/Tracheostomy Status	391	0.04%	0	0%	—	0	0%	—
HCC83: Respiratory Arrest	*	<0.01%	0	0%	—	0	0%	—
HCC84: Cardio-Respiratory Failure and Shock	6,389	0.7%	0	0%	—	0	0%	—
HCC85: Congestive Heart Failure	48,368	4.9%	788	5.2%	13.3	58	0.49%	24.4
Interaction: HCC85: Congestive Heart Failure * Renal	12,154	1.2%	8	0.05%	10.8	0	0%	—
Interaction: HCC85: Congestive Heart Failure * HCC96: Specified Heart	21,088	2.2%	70	0.47%	11.7	2	0.02%	29.5

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
Arrhythmias								
HCC86: Acute Myocardial Infarction	3,827	0.4%	1	<0.01%	12.0	0	0%	—
HCC87: Unstable Angina and Other Acute Ischemic Heart Disease	2,829	0.3%	1	<0.01%	10.0	0	0%	—
HCC88: Angina Pectoris	17,513	1.8%	102	0.68%	13.5	9	0.08%	23.1
HCC96: Specified Heart Arrhythmias	92,614	9.5%	3,013	20.1%	16.1	626	5.3%	26.3
HCC99: Intracranial Hemorrhage	1,052	0.1%	0	0%	—	0	0%	—
HCC100: Ischemic or Unspecified Stroke	8,481	0.9%	2	0.01%	10.5	0	0%	—
HCC103: Hemiplegia/Hemiparesis	2,757	0.3%	0	0%	—	0	0%	—
HCC104: Monoplegia, Other Paralytic Syndromes	312	0.03%	0	0%	—	0	0%	—
HCC106: Atherosclerosis of the Extremities with Ulceration or Gangrene	868	0.09%	0	0%	—	0	0%	—
HCC107: Vascular Disease with Complications	8,036	0.8%	1	<0.01%	10.0	0	0%	—
HCC108: Vascular Disease	82,761	8.5%	2,494	16.6%	15.4	438	3.7%	26.7
HCC110: Cystic Fibrosis	133	0.01%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC111: Chronic Obstructive Pulmonary Disease	46,817	4.8%	800	5.3%	13.2	53	0.45%	22.9
HCC112: Fibrosis of Lung and Other Chronic Lung Disorders	8,693	0.9%	1	<0.01%	14.0	0	0%	—
HCC114: Aspiration and Specified Bacterial Pneumonias	747	0.08%	0	0%	—	0	0%	—
HCC115: Pneumococcal Pneumonia, Empyema, Lung Abscess	883	0.09%	0	0%	—	0	0%	—
HCC122: Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	4,718	0.5%	0	0%	—	0	0%	—
HCC124: Exudative Macular Degeneration	9,107	0.9%	3	0.02%	10.7	0	0%	—
HCC134: Dialysis Status	4,326	0.4%	5	0.03%	13.4	0	0%	—
HCC135: Acute Renal Failure	7,158	0.7%	0	0%	—	0	0%	—
HCC136: Chronic Kidney Disease, Stage 5	1,587	0.2%	0	0%	—	0	0%	—
HCC137: Chronic Kidney Disease, Severe (Stage 4)	4,365	0.4%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC138: Chronic Kidney Disease, Moderate (Stage 3)	53,762	5.5%	1,155	7.7%	13.9	125	1.1%	24.1
HCC157: Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	120	0.01%	0	0%	—	0	0%	—
HCC158: Pressure Ulcer of Skin with Full Thickness Skin Loss	395	0.04%	0	0%	—	0	0%	—
HCC159: Pressure Ulcer of Skin with Partial Thickness Skin Loss	379	0.04%	0	0%	—	0	0%	—
HCC161: Chronic Ulcer of Skin, Except Pressure	6,296	0.6%	0	0%	—	0	0%	—
HCC162: Severe Skin Burn or Condition	44	<0.01%	0	0%	—	0	0%	—
HCC166: Severe Head Injury	13	<0.01%	0	0%	—	0	0%	—
HCC167: Major Head Injury	1,623	0.2%	0	0%	—	0	0%	—
HCC169: Vertebral Fractures without Spinal Cord Injury	2,808	0.3%	0	0%	—	0	0%	—
HCC170: Hip Fracture/Dislocation	1,179	0.1%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC173: Traumatic Amputations and Complications	383	0.04%	0	0%	—	0	0%	—
HCC176: Complications of Specified Implanted Device or Graft	5,231	0.5%	0	0%	—	0	0%	—
HCC186: Major Organ Transplant or Replacement Status	3,504	0.4%	1	<0.01%	11.0	0	0%	—
HCC188: Artificial Openings for Feeding or Elimination	1,944	0.2%	0	0%	—	0	0%	—
HCC189: Amputation Status, Lower Limb/Amputation Complications	1,927	0.2%	0	0%	—	0	0%	—
Interaction: Disabled * HCC6: Opportunistic Infections	101	0.01%	0	0%	—	0	0%	—
Interaction: Disabled * HCC39: Bone/Joint/Muscle Infections/Necrosis	337	0.03%	0	0%	—	0	0%	—
Interaction: Disabled * HCC77: Multiple Sclerosis	992	0.1%	0	0%	—	0	0%	—
Interaction: Disabled *	2,976	0.3%	0	0%	—	0	0%	—

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
HCC85: Congestive Heart Failure								
Interaction: Disabled * HCC161: Chronic Ulcer of Skin, Except Pressure	604	0.06%	0	0%	—	0	0%	—
Interaction: Disabled * Pressure Ulcer	156	0.02%	0	0%	—	0	0%	—
Interaction: CHF * GCOPDCF	9,286	1.0%	2	0.01%	12.0	0	0%	—
Interaction: Diabetes * CHF	18,463	1.9%	39	0.26%	12.0	1	<0.01%	21.0
Indicator: ESRD	5,328	0.5%	6	0.04%	15.2	1	<0.01%	20.0
Interaction: GCOPDCF * Cardio-Respiratory Failure	3,988	0.4%	0	0%	—	0	0%	—
Indicator: Long-Term Care Institution	1,060	0.1%	0	0%	—	0	0%	—
Indicator: Originally Disabled	95,625	9.8%	2,950	19.6%	15.5	550	4.6%	26.2
Age in Range: 0-34	178	0.02%	0	0%	—	0	0%	—
Age in Range: 35-44	1,079	0.1%	0	0%	—	0	0%	—
Age in Range: 45-54	15,287	1.6%	10	0.07%	12.7	0	0%	—
Age in Range: 55-59	11,022	1.1%	4	0.03%	10.8	0	0%	—
Age in Range: 60-64	19,633	2.0%	47	0.31%	11.1	0	0%	—
Age in Range: 65-69	339,011	34.7%	10,173	67.7%	29.6	6,224	52.5%	39.4
Age in Range: 70-74	350,828	35.9%	10,045	66.9%	31.2	6,204	52.3%	41.9

Variable	Episodes	% of Final Episodes	# of Clinicians with Variable (10-Episode Case Minimum)	% of Clinicians (10-Episode Case Minimum)	Mean Episodes per Clinician (10-Episode Case Minimum)	# of Clinicians with Variable (20-Episode Case Minimum)	% of Clinicians (20-Episode Case Minimum)	Mean Episodes per Clinician (20-Episode Case Minimum)
Age in Range: 75-79	189,320	19.4%	6,434	42.8%	23.0	2,968	25.0%	33.8
Age in Range: 80-84	45,153	4.6%	938	6.2%	14.6	136	1.1%	25.6
Age in Range: 85-89	5,420	0.6%	5	0.03%	12.6	0	0%	—
Age in Range: 90-94	420	0.04%	0	0%	—	0	0%	—
Age in Range: 95+	18	<0.01%	0	0%	—	0	0%	—