

# Full Measure Submission to Partnership for Quality Measurement

## Feasibility

### **Describe the feasibility assessment conducted showing you considered the people, tools, tasks, and technologies necessary to implement this measure.\***

The feasibility of implementing the HCBS ACSC measure was assessed by the measure developer using qualitative survey, which contained a mix of Likert scale, binary (yes/no), and free-text questions, to which 10 members of the developer’s technical expert panel responded. Expert panel member perspectives reflected in the survey results included providers, Medicaid participants or family members, representatives from interested groups, clinicians, state administrators, advisory experts, and researchers. As a result, the feedback captured in the survey results is representative of a broad array of key stakeholders who could use the measure’s results following its implementation.

For the first question related to feasibility of the HCBS ACSC measure, results indicated that 70 percent of the respondents felt that there would be challenges with capturing data needed for the HCBS ACSC measure. One respondent (10 percent) noted that the data needed should be capturable from administrative claims data if states are reporting results accurately. Two clinicians (20 percent) added that it may be difficult to obtain the data for dually eligible participants when Medicaid is not the primary payer or when dually eligible participants are treated for physical or behavioral health conditions by a Medicare provider. An industry professional (10 percent) added that mental health conditions are not always screened for, so data for these diagnoses may be missing or incomplete.

The second question related to feasibility of the HCBS ACSC measure collected feedback via a free-text field. Two respondents (20 percent) entered comments. One (10 percent) noted that there is a gap in data between Medicare and Medicaid, which could make it difficult to gain a true picture of the barriers to care that participants face. The other respondent (10 percent) commented that the proposed HCBS ACSC measure is the best option available.

Despite these results, the measure developer is confident that the HCBS ACSC measure can be calculated using administrative claims data. The primary barriers identified by members of the technical expert panel—access to both Medicare and Medicaid claims data—are mitigated by centralized calculation (i.e., using the TAF). The developer did not identify any meaningful challenges in

operationalizing the data elements for the HCBS ACSC measure, other than the few state- and territory-level challenges described above.

Results from the qualitative survey related to measure feasibility for HCBS ACSC appear in **Exhibit 2**.

***Exhibit 2. Measure Score Feasibility Results for the Question: For the HCBS ACSC measure, do you foresee any challenges in capturing information about ambulatory care sensitive conditions for adults receiving Medicaid HCBS using Medicaid administrative claims data?***

Response Option	Response (%)	Response (#)
No	10.0%	1
Not Sure/Don't Know	20.0%	2
Yes	70.0%	7

Identify the number and descriptive characteristics (e.g., age, sex, race, diagnosis), of the level(s) of analysis, for example, patient, encounter or episode, separated by level of analysis and data source.\*

The descriptive characteristics of the analytic population for the measure are displayed in **Exhibit 3**.

### Exhibit 3. Descriptive Data for the HCBS ACSC Measure

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Biological Sex	Female	2,410,118	59.65%	149,580	61.14%	2,260,538	59.55%
	Male	1,630,522	40.35%	95,062	38.86%	1,535,460	40.45%
Race and Ethnicity	White	1,898,896	46.99%	110,259	45.07%	1,788,637	47.12%
	Black or Africa-American	832,176	20.59%	62,377	25.50%	769,799	20.28%
	Asian	164,395	4.07%	5,943	2.43%	158,452	4.17%
	American Indian and Alaska Native	42,574	1.05%	3,145	1.29%	39,429	1.04%
	Hawaiian/Pacific Islander	17,490	0.43%	1,022	0.42%	16,468	0.43%
	Multiracial	3,560	0.09%	252	0.10%	3,380	0.09%
	Hispanic	539,645	13.36%	30,426	12.44%	509,219	13.41%
	Unknown	541,940	13.41%	31,219	12.76%	510,721	13.45%
Age as of January 1, 2019 (Mean)		51.72		61.54		51.09	
Age Categories	18-34	1,003,485	24.83%	17,333	7.09%	986,152	25.98%
	35-44	532,035	13.17%	18,916	7.73%	513,119	13.52%
	45-54	625,313	15.48%	38,443	15.71%	586,870	15.46%
	55-59	411,279	10.18%	32,479	13.28%	378,800	9.98%
	60-64	376,098	9.31%	33,493	13.69%	342,605	9.03%
	65-69	269,294	6.66%	25,441	10.40%	243,853	6.42%
	70-74	233,218	5.77%	22,454	9.18%	210,764	5.55%
	75-79	198,975	4.92%	19,211	7.85%	179,764	4.74%
80-84	174,488	4.32%	16,323	6.67%	158,165	4.17%	

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
	85+	216,491	5.36%	20,550	8.40%	195,941	5.16%
Dually Enrolled Status	Medicaid Only	2,044,153	50.59%	84,826	34.7%	1,959,327	51.62%
	Medicare-Medicaid	1,996,523	49.41%	159,817	65.33%	1,836,706	48.38%
Rurality Status	Unknown	44,519	1.10%	2,385	0.97%	42,134	1.11%
	Rural Area	737,772	18.26%	46,573	19.04%	691,199	18.21%
	Urban Area	3,258,385	80.64%	195,685	79.99%	3,062,700	80.68%
Hospitalization In Prior Calendar Year	No	3,195,839	79.09%	120,420	49.22%	3,075,419	81.02%
	Yes	844,837	20.91%	124,223	50.78%	720,614	18.98%
HIV/AIDS	HCC	56,263	1.39%	5,100	2.08%	51,163	1.35%
Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	HCC	269,733	6.68%	63,916	26.13%	205,817	5.42%
Opportunistic Infections	HCC	17,054	0.42%	3,975	1.62%	13,079	0.34%
Metastatic Cancer and Acute Leukemia	HCC	38,585	0.95%	5,329	2.18%	33,256	0.88%
Lung and Other Severe Cancers	HCC	48,736	1.21%	8,137	3.33%	40,599	1.07%
Lymphoma and Other Cancers	HCC	46,577	1.15%	5,478	2.24%	41,099	1.08%
Colorectal, Bladder, and Other Cancers	HCC	58,583	1.45%	6,627	2.71%	51,956	1.37%
Breast, Prostate, and Other Cancers and Tumors	HCC	136,429	3.38%	13,245	5.41%	123,184	3.25%
Diabetes With Acute Complications	HCC	49,693	1.23%	19,502	7.97%	30,191	0.80%
Diabetes With Chronic Complications	HCC	779,902	19.30%	131,341	53.69%	648,561	17.09%
Diabetes Without Complication	HCC	1,005,700	24.89%	134,658	55.04%	871,042	22.95%
Protein-Calorie Malnutrition	HCC	134,392	3.33%	36,203	14.80%	98,189	2.59%
Morbid Obesity	HCC	393,156	9.73%	64,009	26.16%	329,147	8.67%
Other Significant Endocrine and Metabolic Disorders	HCC	175,936	4.35%	35,531	14.52%	140,405	3.70%
End-Stage Liver Disease	HCC	31,618	0.78%	6,017	2.46%	25,601	0.67%

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Cirrhosis Of Liver	HCC	63,865	1.58%	11,405	4.66%	52,460	1.38%
Chronic Hepatitis	HCC	102,965	2.55%	12,371	5.06%	90,594	2.39%
Intestinal Obstruction/Perforation	HCC	97,998	2.43%	15,860	6.48%	82,138	2.16%
Chronic Pancreatitis	HCC	19,171	0.47%	4,112	1.68%	15,059	0.40%
Inflammatory Bowel Disease	HCC	33,304	0.82%	3,463	1.42%	29,841	0.79%
Bone/Joint/Muscle Infections/Necrosis	HCC	91,048	2.25%	28,241	11.54%	62,807	1.65%
Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	HCC	208,852	5.17%	22,926	9.37%	185,926	4.90%
Severe Hematological Disorders	HCC	17,485	0.43%	2,672	1.09%	14,813	0.39%
Disorders Of Immunity	HCC	66,500	1.65%	11,344	4.64%	55,156	1.45%
Coagulation Defects and Other Specified Hematological Disorders	HCC	179,048	4.43%	35,532	14.52%	143,516	3.78%
Substance Use With Psychotic Complications	HCC	26,976	0.67%	3,085	1.26%	23,891	0.63%
Substance Use Disorder, Moderate/Severe, Or Substance Use With Complications	HCC	492,601	12.19%	42,717	17.46%	449,884	11.85%
Substance Use Disorder, Mild, Except Alcohol and Cannabis	HCC	168,543	4.17%	20,094	8.21%	148,449	3.91%
Schizophrenia	HCC	373,401	9.24%	22,448	9.18%	350,953	9.25%
Reactive and Unspecified Psychosis	HCC	135,029	3.34%	9,556	3.91%	125,473	3.31%
Major Depressive, Bipolar, and Paranoid Disorders	HCC	1,051,722	26.03%	71,942	29.41%	979,780	25.81%
Personality Disorders	HCC	93,516	2.31%	6,921	2.83%	86,595	2.28%
Quadriplegia	HCC	48,677	1.20%	6,423	2.63%	42,254	1.11%
Paraplegia	HCC	45,659	1.13%	5,952	2.43%	39,707	1.05%
Spinal Cord Disorders/Injuries	HCC	87,153	2.16%	8,630	3.53%	78,523	2.07%

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	HCC	2,984	0.07%	270	0.11%	2,714	0.07%
Cerebral Palsy	HCC	139,577	3.45%	6,278	2.57%	133,299	3.51%
Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	HCC	27,267	0.67%	3,804	1.55%	23,463	0.62%
Muscular Dystrophy	HCC	11,024	0.27%	678	0.28%	10,346	0.27%
Multiple Sclerosis	HCC	41,390	1.02%	3,207	1.31%	38,183	1.01%
Parkinson and Huntington Diseases	HCC	54,725	1.35%	7,628	3.12%	47,097	1.24%
Seizure Disorders and Convulsions	HCC	409,910	10.14%	47,273	19.32%	362,637	9.55%
Coma, Brain Compression/Anoxic Damage	HCC	47,709	1.18%	8,626	3.53%	39,083	1.03%
Respirator Dependence/Tracheostomy Status	HCC	30,768	0.76%	6,390	2.61%	24,378	0.64%
Respiratory Arrest	HCC	2,834	0.07%	710	0.29%	2,124	0.06%
Cardio-Respiratory Failure and Shock	HCC	299,109	7.40%	100,243	40.98%	198,866	5.24%
Congestive Heart Failure	HCC	476,784	11.80%	125,585	51.33%	351,199	9.25%
Acute Myocardial Infarction	HCC	86,839	2.15%	25,880	10.58%	60,959	1.61%
Unstable Angina and Other Acute Ischemic Heart Disease	HCC	71,426	1.77%	21,668	8.86%	49,758	1.31%
Angina Pectoris	HCC	101,246	2.51%	18,625	7.61%	82,621	2.18%
Specified Heart Arrhythmias	HCC	302,004	7.47%	67,286	27.50%	234,718	6.18%
Intracranial Hemorrhage	HCC	31,248	0.77%	4,410	1.80%	26,838	0.71%
Ischemic Or Unspecified Stroke	HCC	157,217	3.89%	23,515	9.61%	133,702	3.52%
Hemiplegia/Hemiparesis	HCC	140,084	3.47%	23,171	9.47%	116,913	3.08%
Monoplegia, Other Paralytic Syndromes	HCC	26,316	0.65%	4,682	1.91%	21,634	0.57%

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Atherosclerosis Of The Extremities With Ulceration Or Gangrene	HCC	42,205	1.04%	18,202	7.44%	24,003	0.63%
Vascular Disease With Complications	HCC	100,590	2.49%	21,754	8.89%	78,836	2.08%
Vascular Disease	HCC	466,681	11.55%	85,420	34.92%	381,261	10.04%
Cystic Fibrosis	HCC	2,137	0.05%	284	0.12%	1,853	0.05%
Chronic Obstructive Pulmonary Disease	HCC	597,325	14.78%	117,551	48.05%	479,774	12.64%
Fibrosis Of Lung and Other Chronic Lung Disorders	HCC	70,115	1.74%	15,256	6.24%	54,859	1.45%
Aspiration and Specified Bacterial Pneumonias	HCC	86,386	2.14%	23,833	9.74%	62,553	1.65%
Pneumococcal Pneumonia, Empyema, Lung Abscess	HCC	84,029	2.08%	25,549	10.44%	58,480	1.54%
Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	HCC	37,327	0.92%	8,931	3.65%	28,396	0.75%
Exudative Macular Degeneration	HCC	14,701	0.36%	1,511	0.62%	13,190	0.35%
Dialysis Status	HCC	62,331	1.54%	19,820	8.10%	42,511	1.12%
Acute Renal Failure	HCC	318,810	7.89%	97,371	39.80%	221,439	5.83%
Chronic Kidney Disease, Stage 5	HCC	84,464	2.09%	25,949	10.61%	58,515	1.54%
Chronic Kidney Disease, Severe (Stage 4)	HCC	67,638	1.67%	22,242	9.09%	45,396	1.20%
Chronic Kidney Disease, Moderate (Stage 3)	HCC	231,992	5.74%	55,156	22.55%	176,836	4.66%
Pressure Ulcer Of Skin With Necrosis Through To Muscle, Tendon, Or Bone	HCC	21,615	0.53%	5,921	2.42%	15,694	0.41%
Pressure Ulcer Of Skin With Full Thickness Skin Loss	HCC	46,879	1.16%	12,848	5.25%	34,031	0.90%
Chronic Ulcer Of Skin, Except Pressure	HCC	146,919	3.64%	45,221	18.48%	101,698	2.68%

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Severe Skin Burn Or Condition	HCC	1,446	0.04%	203	0.08%	1,243	0.03%
Severe Head Injury	HCC	1,756	0.04%	126	0.05%	1,630	0.04%
Major Head Injury	HCC	61,150	1.51%	6,358	2.60%	54,792	1.44%
Vertebral Fractures Without Spinal Cord Injury	HCC	50,773	1.26%	7,991	3.27%	42,782	1.13%
Hip Fracture/Dislocation	HCC	55,677	1.38%	7,988	3.27%	47,689	1.26%
Traumatic Amputations and Complications	HCC	17,598	0.44%	3,469	1.42%	14,129	0.37%
Complications Of Specified Implanted Device Or Graft	HCC	128,002	3.17%	26,201	10.71%	101,801	2.68%
Major Organ Transplant Or Replacement Status	HCC	11,017	0.27%	1,667	0.68%	9,350	0.25%
Artificial Openings For Feeding Or Elimination	HCC	94,669	2.34%	13,514	5.52%	81,155	2.14%
Amputation Status, Lower Limb/Amputation Complications	HCC	54,590	1.35%	18,394	7.52%	36,196	0.95%
Alcohol Use-Related Diagnosis, including Alcohol Use with Psychotic Complications and Alcohol Use Disorder	Alcohol Use Disorder Diagnosis	206,917	5.12%	18,373	7.51%	188,544	4.97%
Nicotine Dependence	Nicotine Dependence Diagnosis	670,308	16.59%	83,341	34.07%	586,967	15.46%
Exposure to Tobacco Use, and History of Tobacco Use	Tobacco Use-Related Diagnosis	551,106	13.64%	98,163	40.12%	452,943	11.93%
Participant Population for AK	Submitting State	9,069	0.22%	336	0.14%	8,733	0.23%
Participant Population for AL	Submitting State	36,623	0.91%	2,859	1.17%	33,764	0.89%
Participant Population for AR	Submitting State	24,360	0.60%	2,619	1.07%	21,741	0.57%
Participant Population for AZ	Submitting State	72,944	1.81%	3,575	1.46%	69,369	1.83%
Participant Population for CA	Submitting State	169,456	4.19%	5,397	2.21%	164,059	4.32%
Participant Population for CO	Submitting State	50,345	1.25%	2,634	1.08%	47,711	1.26%
Participant Population for CT	Submitting State	49,033	1.21%	3,893	1.59%	45,140	1.19%
Participant Population for DC	Submitting State	10,661	0.26%	977	0.40%	9,684	0.26%



Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Participant Population for DE	Submitting State	11,551	0.29%	825	0.34%	10,726	0.28%
Participant Population for FL	Submitting State	129,953	3.22%	9,790	4.00%	120,163	3.17%
Participant Population for GA	Submitting State	66,707	1.65%	5,916	2.42%	60,791	1.60%
Participant Population for HI	Submitting State	17,167	0.42%	1,011	0.41%	16,156	0.43%
Participant Population for IA	Submitting State	32,495	0.80%	1,718	0.70%	30,777	0.81%
Participant Population for ID	Submitting State	17,194	0.43%	716	0.29%	16,478	0.43%
Participant Population for IL	Submitting State	181,931	4.50%	9,800	4.01%	172,131	4.53%
Participant Population for IN	Submitting State	44,932	1.11%	3,840	1.57%	41,092	1.08%
Participant Population for KS	Submitting State	26,450	0.65%	1,839	0.75%	24,611	0.65%
Participant Population for KY	Submitting State	27,349	0.68%	2,570	1.05%	24,779	0.65%
Participant Population for LA	Submitting State	36,237	0.90%	2,099	0.86%	34,138	0.90%
Participant Population for MA	Submitting State	121,811	3.01%	10,036	4.10%	111,775	2.94%
Participant Population for MD	Submitting State	116,757	2.89%	3,364	1.38%	113,393	2.99%
Participant Population for ME	Submitting State	13,244	0.33%	795	0.32%	12,449	0.33%
Participant Population for MI	Submitting State	172,136	4.26%	7,903	3.23%	164,233	4.33%
Participant Population for MN	Submitting State	79,726	1.97%	4,161	1.70%	75,565	1.99%
Participant Population for MO	Submitting State	69,025	1.71%	6,027	2.46%	62,998	1.66%
Participant Population for MS	Submitting State	27,917	0.69%	2,617	1.07%	25,300	0.67%
Participant Population for MT	Submitting State	5,930	0.15%	302	0.12%	5,628	0.15%
Participant Population for NC	Submitting State	73,761	1.83%	7,704	3.15%	66,057	1.74%
Participant Population for ND	Submitting State	5,338	0.13%	318	0.13%	5,020	0.13%
Participant Population for NE	Submitting State	10,940	0.27%	488	0.20%	10,452	0.28%
Participant Population for NH	Submitting State	12,762	0.32%	677	0.28%	12,085	0.32%
Participant Population for NJ	Submitting State	68,678	1.70%	5,389	2.20%	63,289	1.67%
Participant Population for NM	Submitting State	56,608	1.40%	2,908	1.19%	53,700	1.41%
Participant Population for NV	Submitting State	16,912	0.42%	1,256	0.51%	15,656	0.41%
Participant Population for NY	Submitting State	618,971	15.32%	39,635	16.20%	579,336	15.26%
Participant Population for OH	Submitting State	301,916	7.47%	17,508	7.16%	284,408	7.49%

Characteristic	Category	Total (N=4,040,676)		With Ambulatory Care Sensitive Condition (N=244,643)		Without Ambulatory Care Sensitive Condition (N=3,796,033)	
		N	%	N	%	N	%
Participant Population for OK	Submitting State	24,227	0.60%	2,856	1.17%	21,371	0.56%
Participant Population for OR	Submitting State	146,451	3.62%	4,877	1.99%	141,574	3.73%
Participant Population for PA	Submitting State	327,058	8.09%	13,637	5.57%	313,421	8.26%
Participant Population for PR	Submitting State	7,633	0.19%	459	0.19%	7,174	0.19%
Participant Population for RI	Submitting State	9,629	0.24%	310	0.13%	9,319	0.25%
Participant Population for SC	Submitting State	55,749	1.38%	4,099	1.68%	51,650	1.36%
Participant Population for SD	Submitting State	4,893	0.12%	265	0.11%	4,628	0.12%
Participant Population for TN	Submitting State	42,555	1.05%	2,232	0.91%	40,323	1.06%
Participant Population for TX	Submitting State	297,762	7.37%	22,394	9.15%	275,368	7.25%
Participant Population for UT	Submitting State	20,409	0.51%	885	0.36%	19,524	0.51%
Participant Population for VA	Submitting State	58,131	1.44%	4,819	1.97%	53,312	1.40%
Participant Population for VI	Submitting State	71	0.00%	6	0.00%	65	0.00%
Participant Population for VT	Submitting State	7,715	0.19%	571	0.23%	7,144	0.19%
Participant Population for WA	Submitting State	80,798	2.00%	4,537	1.85%	76,261	2.01%
Participant Population for WI	Submitting State	120,635	2.99%	6,943	2.84%	113,692	3.00%
Participant Population for WV	Submitting State	42,919	1.06%	1,858	0.76%	41,061	1.08%
Participant Population for WY	Submitting State	7,152	0.18%	393	0.16%	6,759	0.18%

