2023 National Healthcare Quality and Disparities Report

Appendix B. Quality Trends and Disparities Tables: Care Coordination

Care coordination is a conscious effort to ensure that all key information needed to make care decisions is available to patients and providers. It is defined as the deliberate organization of patient care activities between two or more participants involved in a patient's care to facilitate appropriate delivery of healthcare services.[1] Care coordination is multidimensional and essential to preventing adverse events, ensuring efficiency, and making care person centered.[2]

Patients in greatest need of care coordination include those with:

- Multiple chronic medical conditions,
- Concurrent care from several health professionals across care settings,
- Many medications,
- Extensive diagnostic workups, and
- Transitions from one care setting to another.

Effective care coordination requires well-defined multidisciplinary teamwork based on the principle that all who interact with a person must work together to ensure the delivery of safe, high-quality care in every setting.

Importance

Care coordination interventions have been shown to:

- Reduce mortality among patients with heart failure,
- Reduce mortality and dependency among patients with stroke,
- Reduce symptoms among patients with depression and at the end of life, and
- Improve glycemic control among patients with diabetes.[1]

Care coordination interventions have also been shown to:

- Reduce hospitalizations among patients with heart failure,
- Reduce readmissions among patients with mental health conditions, and
- Be cost-effective when applied to the treatment of depression.[1]

Key Findings

Care coordination measures that improved overall include:

- Hospital admissions for asthma per 100,000 population, ages 2-17 years.
- Hospital admissions with chronic obstructive pulmonary disease or asthma per 100,000 population, age 40 years and over.
- Hospital admissions for urinary tract infection per 100,000 population, ages 3 months to 17 years.
- Hospital admissions for asthma per 100,000 population, ages 18-39 years.
- Hospital admissions for urinary tract infection per 100,000 population, age 18 years and over.

Care coordination measures that worsened overall include:

- Hospital admissions with diabetes with short-term complications per 100,000 population, age 18 years and over.
- Lower extremity amputations among admissions for diabetes per 100,000 population, age 18 years and over.
- Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be.

Care coordination measures that showed large disparities include:

- Hospitalizations and emergency department encounters for heart failure.
- Hospital admissions for urinary tract infection per 100,000 population.
- Hospital admissions for community-acquired pneumonia per 100,000 population.

Care coordination measures that showed worsening disparities include:

- Emergency department visits with a principal diagnosis related to dental conditions.
- Hospital admissions with chronic obstructive pulmonary disease or asthma per 100,000 population, age 40 years and over.

References

1. Peterson K, Anderson J, Bourne D, Boundy E. Scoping Brief: Care Coordination Theoretical Models and Frameworks. Washington, DC: Department of Veterans Affairs; 2018. https://www.ncbi.nlm.nih.gov/books/NBK525002/. Accessed October 10, 2023.
2. Powell-Davies G, Williams AM, Larsen K, Perkins D, Roland M, Harris MF. Coordinating primary health care: an analysis of the outcomes of a systematic review. Med J Aust. 2008 Apr 21;188(8 Suppl):S65-68. https://www.ncbi.nlm.nih.gov/pubmed/18429740. Accessed October 10, 2023.

Measure Category: 7. Care Coordination, Subcategory: 1. Transitions of Care

Appendix Table 7.1.1. Adult hospital patients who did not receive good communication about discharge information

Source: HCAHPS

Benchmark: 7.7 in 2015

Data year for disparities analysis: 2021

Note: Lower estimates are better for this measure. The measure unit is percentage.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2009	15.8	2021	11.9	-2.6	Improving	13 years	======	======	======	======	======
Race	White	2009	15.4	2021	11.6	-2.7	Improving	12 years	======	======	======	======	======
	AI/AN	2009	17.4	2021	12.6	-2.7	Improving	13 years	White	11.6	12.6	8.6	Same
	Asian	2009	17.0	2021	11.6	-3.1	Improving	9 years			11.6	0.0	Same
	NHPI	2009	17.2	2021	12.2	-2.9	Improving	11 years			12.2	5.2	Same
	Black	2009	18.2	2021	13.0	-2.8	Improving	13 years			13.0	12.1	Worse
	Multiple races	2009	16.7	2021	12.5	-2.3	Improving	15 years			12.5	7.8	Same
Ethnicity	Non-Hispanic, all races	2009	15.7	2021	11.6	-2.8	Improving	11 years	======	======	======	======	======
	Hispanic, all races	2009	15.8	2021	11.3	-3.0	Improving	9 years	Non-Hispanic, all races	11.6	11.3	-2.6	Same
Age	18-44	2009	15.2	2021	10.2	-3.1	Improving	7 years	======	======	======	======	======
	45-64	2009	15.8	2021	10.9	-3.4	Improving	8 years	18-44	10.2	10.9	6.9	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	65 and over	2009	16.1	2021	12.8	-2.2	Improving	17 years				12.8	25.5	Worse
Education	At least some college	2009	16.2	2021	11.7	-2.9	Improving	11 years		======	======	======	======	======
	Less than high school graduate	2009	15.5	2021	12.0	-2.3	Improving	14 years		At least some college	11.7	12.0	2.6	Same
	High school graduate	2009	15.3	2021	11.8	-2.4	Improving	13 years				11.8	0.9	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.1.2. Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be

Source: HCAHPS

Benchmark: 3.2 in 2015

Data year for disparities analysis: 2021

Note: Lower estimates are better for this measure. The measure unit is percentage.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2014	5.4	2021	7.3	4.7	Worsening	No progress	======	======	======	======	======
Race	White	2014	5.0	2021	7.0	5.3	Worsening	No progress	======	======	======	======	======
	AI/AN	2014	7.4	2021	9.1	3.6	Worsening	No progress	White	7.0	9.1	30.0	Worse
	Asian	2014	4.9	2021	5.7	2.2	Worsening	No progress			5.7	-18.6	Better
	NHPI	2014	6.1	2021	8.1	4.5	Worsening	No progress			8.1	15.7	Worse
	Black	2014	7.5	2021	9.3	3.2	Worsening	No progress			9.3	32.9	Worse
	Multiple races	2014	7.1	2021	9.4	4.6	Worsening	No progress			9.4	34.3	Worse
Ethnicity	Non-Hispanic, all races	2014	5.4	2021	7.3	4.7	Worsening	No progress	======	======	======	======	======
	Hispanic, all races	2014	5.1	2021	6.6	4.1	Worsening	No progress	Non-Hispanic, all races	7.3	6.6	-9.6	Same
Age	18-44	2014	5.3	2021	5.7	1.3	Worsening	No progress	======	======	======	======	======
	45-64	2014	6.6	2021	8.7	4.2	Worsening	No progress	18-44	5.7	8.7	52.6	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	65 and over	2014	4.7	2021	7.2	6.7	Worsening	No progress				7.2	26.3	Worse
Education	At least some college	2014	5.8	2021	7.6	4.1	Worsening	No progress		======	======	======	======	======
	Less than high school graduate	2014	4.8	2021	6.4	4.6	Worsening	No progress		At least some college	7.6	6.4	-15.8	Better
	High school graduate	2014	4.8	2021	6.8	5.5	Worsening	No progress				6.8	-10.5	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 2. Medication Information

Appendix Table 7.2.1. People with a usual source of care who usually asks about prescription medications and treatments from other doctors

Source: MEPS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Higher estimates (percentages) are better for this measure. Percentages were flipped to negative direction for calculations.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2002	75.1	2020	79.9	-1.1	Improving	======	======	======	======	======	======
Race	NHPI	2004	79.3	2012	77.4	0.9	No change	======	------	------	------	------	------
	White	2002	75.3	2020	81.2	-1.4	Improving	======	======	======	======	======	======
	AI/AN	2002	71.0	2020	77.7	-0.6	No change	======	White	81.2	77.7	18.6	Same
	Asian	2002	67.5	2020	72.1	0.0	No change	======			72.1	48.4	Worse
	Black	2002	77.5	2020	74.8	0.0	No change	======			74.8	34.0	Worse
	Multiple races	2002	73.5	2020	82.7	-1.8	Improving	======			82.7	-8.0	Same
Ethnicity	Non-Hispanic, White	2002	74.6	2020	82.4	-1.8	Improving	======	======	======	======	======	======
	Hispanic, all races	2002	79.3	2020	76.4	0.6	No change	======	Non-Hispanic, White	82.4	76.4	34.1	Worse
	Non-Hispanic, all races	2002	74.6	2020	80.6	-1.4	Improving	======			80.6	10.2	Worse
	Non-Hispanic, Asian	2002	67.6	2020	72.2	0.0	No change	======			72.2	58.0	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, Black	2002	77.5	2020	74.6	0.0	No change	======				74.6	44.3	Worse
	Non-Hispanic, others	2002	71.5	2020	81.7	-1.3	Improving	======				81.7	4.0	Same
Income	400% of PL or more	2002	76.8	2020	83.8	-1.7	Improving	======		======	======	======	======	======
	Less than 100% of PL	2002	75.5	2020	74.4	0.0	No change	======		400% of PL or more	83.8	74.4	58.0	Worse
	100%-199% of PL	2002	75.2	2020	73.3	0.1	No change	======				73.3	64.8	Worse
	200%-399% of PL	2002	72.9	2020	79.3	-1.3	Improving	======				79.3	27.8	Worse
Health insurance	Any private	2002	75.3	2020	81.9	-1.8	Improving	======		======	======	======	======	======
	Public only	2002	75.2	2020	74.6	-0.3	No change	======		Any private	81.9	74.6	40.3	Worse
	Uninsured	2002	76.0	2020	80.0	-0.3	No change	======				80.0	10.5	Same
Metropolitan status	Large fringe metro	2002	73.3	2020	81.0	-1.4	Improving	======		======	======	======	======	======
	Metropolitan	2002	75.2	2020	79.6	-1.0	No change	======		Large fringe metro	81.0	79.6	7.4	Same
	Large central metro	2002	75.4	2020	76.9	-0.4	No change	======				76.9	21.6	Worse
	Medium metro	2002	76.5	2020	81.8	-1.1	Improving	======				81.8	-4.2	Same
	Small metro	2002	76.8	2020	80.0	-1.4	Improving	======				80.0	5.3	Same
	Nonmetropolitan	2002	74.8	2020	81.4	-1.6	Improving	======				81.4	-2.1	Same
	Micropolitan	2002	75.7	2020	80.1	-1.2	Improving	======				80.1	4.7	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Noncore	2002	73.2	2020	83.4	-2.2	Improving	======				83.4	-12.6	Same
Age	18-44	2002	77.4	2020	81.7	-1.3	Improving	======		======	======	======	======	======
	0-17	2002	71.1	2020	77.5	-1.6	Improving	======		18-44	81.7	77.5	23.0	Worse
	45-64	2002	77.5	2020	81.2	-0.8	No change	======				81.2	2.7	Same
	65 and over	2002	74.1	2020	78.8	-0.4	No change	======				78.8	15.8	Worse
Disability status	Without disability	2013	81.6	2020	81.1	0.6	No change	======		======	======	======	======	======
	With any disability	2013	79.7	2020	79.3	0.2	No change	======		Without disability	81.1	79.3	9.5	Same
Gender	Male	2002	75.1	2020	79.9	-1.1	Improving	======		======	======	======	======	======
	Female	2002	75.2	2020	79.8	-1.1	Improving	======		Male	79.9	79.8	0.5	Same
Education	At least some college	2002	78.1	2020	82.8	-1.0	Improving	======		======	======	======	======	======
	Less than high school graduate	2002	75.0	2020	77.1	-0.2	No change	======		At least some college	82.8	77.1	33.1	Worse
	High school graduate	2002	76.0	2020	77.6	-0.4	No change	======				77.6	30.2	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 3. Preventable Emergency Department Visits

Appendix Table 7.3.1. Emergency department visits with a principal diagnosis related to mental health only, per 100,000 population

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	1052.6	2020	1027.8	-0.7	No change	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	768.7	2020	733.6	-1.2	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	1328.7	2020	1348.5	-0.1	No change	======	Fourth quartile (highest income)	733.6	1348.5	83.8	Worse
	Second quartile	2016	1123.4	2020	1042.1	-1.8	No change	======			1042.1	42.1	Worse
	Third quartile	2016	886.6	2020	852.9	-0.9	No change	======			852.9	16.3	Worse
Metropolitan status	Large fringe metro	2016	901.0	2020	846.4	-0.8	No change	======	======	======	======	======	======
	Large central metro	2016	1064.1	2020	965.6	-3.5	No change	======	Large fringe metro	846.4	965.6	14.1	Same
	Medium metro	2016	1050.6	2020	1107.6	2.0	No change	======			1107.6	30.9	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Small metro	2016	1140.2	2020	1028.4	-2.8	No change	======			1028.4	21.5	Same
	Micropolitan	2016	1223.6	2020	1263.4	0.3	No change	======			1263.4	49.3	Worse
	Noncore	2016	1076.6	2020	1154.9	1.5	No change	======			1154.9	36.4	Worse
Age	18-44	2016	1407.9	2020	1410.5	-0.1	No change	======	======	======	======	======	======
	0-17	2016	784.1	2020	886.4	2.2	No change	======	18-44	1410.5	886.4	-37.2	Better
	45-64	2016	916.8	2020	816.6	-2.7	No change	======			816.6	-42.1	Better
	65-84	2016	759.4	2020	657.8	-2.9	No change	======			657.8	-53.4	Better
	85 and over	2016	1483.3	2020	1177.9	-4.9	Improving	======			1177.9	-16.5	Better
Gender	Male	2016	948.3	2020	965.5	0.3	No change	======	======	======	======	======	======
	Female	2016	1153.9	2020	1088.4	-1.6	No change	======	Male	965.5	1088.4	12.7	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.2. Emergency department visits with a principal diagnosis related to substance use disorder only, per 100,000 population

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	571.3	2020	540.0	-0.9	No change	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	448.6	2020	404.5	-2.4	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	741.8	2020	705.8	-0.7	No change	======	Fourth quartile (highest income)	404.5	705.8	74.5	Worse
	Second quartile	2016	533.9	2020	510.5	-0.4	No change	======			510.5	26.2	Worse
	Third quartile	2016	448.0	2020	435.7	-0.1	No change	======			435.7	7.7	Same
Metropolitan status	Large fringe metro	2016	493.4	2020	450.3	-1.2	No change	======	======	======	======	======	======
	Large central metro	2016	701.8	2020	577.5	-4.2	Improving	======	Large fringe metro	450.3	577.5	28.2	Worse
	Medium metro	2016	534.8	2020	573.1	2.6	No change	======			573.1	27.3	Worse
	Small metro	2016	506.8	2020	488.7	-2.0	No change	======			488.7	8.5	Same
	Micropolitan	2016	438.6	2020	509.2	3.2	Worsening	======			509.2	13.1	Same
	Noncore	2016	343.7	2020	417.3	5.0	Worsening	======			417.3	-7.3	Same
Age	18-44	2016	876.7	2020	828.0	-0.9	No change	======	======	======	======	======	======
	0-17	2016	67.2	2020	58.6	-2.7	Improving	======	18-44	828.0	58.6	-92.9	Better
	45-64	2016	810.2	2020	772.4	-0.7	No change	======			772.4	-6.7	Same
	65-84	2016	217.7	2020	235.3	2.6	Worsening	======			235.3	-71.6	Better
	85 and over	2016	70.4	2020	61.9	-3.6	No change	======			61.9	-92.5	Better

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Gender	Male	2016	824.8	2020	795.2	-0.4	No change	======	======	======	======	======	======
	Female	2016	325.3	2020	292.4	-2.0	No change	======	Male	795.2	292.4	-63.2	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.3. Composite measure: Emergency department visits with a principal diagnosis related to co-occurring mental health, alcohol, and substance use disorder, per 100,000 population

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	438.2	2020	530.1	4.1	Worsening	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	317.1	2020	351.6	1.4	No change	======	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	First quartile (lowest income)	2016	556.9	2020	746.0	6.2	Worsening	======	Fourth quartile (highest income)	351.6	746.0	112.2	Worse
	Second quartile	2016	444.7	2020	492.8	2.5	No change	======			492.8	40.2	Worse
	Third quartile	2016	364.3	2020	412.4	2.8	No change	======			412.4	17.3	Same
Metropolitan status	Large fringe metro	2016	408.1	2020	410.9	0.7	No change	======	======	======	======	======	======
	Large central metro	2016	447.7	2020	533.8	2.3	No change	======	Large fringe metro	410.9	533.8	29.9	Worse
	Medium metro	2016	447.6	2020	606.6	8.1	Worsening	======			606.6	47.6	Worse
	Small metro	2016	452.5	2020	485.7	0.9	No change	======			485.7	18.2	Same
	Micropolitan	2016	421.1	2020	531.0	5.3	Worsening	======			531.0	29.2	Worse
	Noncore	2016	303.5	2020	426.2	6.8	Worsening	======			426.2	3.7	Same
Age	18-44	2016	720.3	2020	915.4	5.2	Worsening	======	======	======	======	======	======
	0-17	2016	63.2	2020	78.3	3.6	No change	======	18-44	915.4	78.3	-91.4	Better
	45-64	2016	569.4	2020	645.4	2.8	No change	======			645.4	-29.5	Better
	65-84	2016	122.6	2020	148.7	4.8	Worsening	======			148.7	-83.8	Better
	85 and over	2016	33.3	2020	33.7	-0.9	No change	======			33.7	-96.3	Better
Gender	Male	2016	546.7	2020	683.3	4.9	Worsening	======	======	======	======	======	======
	Female	2016	332.9	2020	381.5	2.7	No change	======	Male	683.3	381.5	-44.2	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is not a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.4. Emergency department visits with a principal diagnosis related to dental conditions

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	312.3	2020	228.5	-6.8	Improving	======	======	======	======	======	======
Income	Not low income	2016	236.3	2020	165.2	-7.8	Improving	======	======	======	======	======	======
	Low income	2016	515.4	2020	406.2	-5.3	Improving	======	Not low income	165.2	406.2	145.9	Worse
Metropolitan status	Large fringe metro	2016	221.6	2020	162.5	-5.5	No change	======	======	======	======	======	======
	Large central metro	2016	234.1	2020	161.3	-8.8	Improving	======	Large fringe metro	162.5	161.3	-0.7	Same
	Medium and small metro	2016	382.6	2020	280.6	-6.7	Improving	======			280.6	72.7	Worse
	Micropolitan and noncore (rural)	2016	482.9	2020	374.8	-5.9	Improving	======			374.8	130.6	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Age	18-44	2016	603.0	2020	428.7	-7.6	Improving	======	======	======	======	======	======
	0-17	2016	124.1	2020	91.4	-6.0	No change	======	18-44	428.7	91.4	-78.7	Better
	45-64	2016	220.4	2020	180.1	-4.3	No change	======			180.1	-58.0	Better
	65-84	2016	68.3	2020	58.8	-2.6	No change	======			58.8	-86.3	Better
	85 and over	2016	56.1	2020	46.1	-3.7	No change	======			46.1	-89.2	Better
Gender	Male	2016	305.8	2020	230.9	-6.2	Improving	======	======	======	======	======	======
	Female	2016	318.5	2020	226.0	-7.4	Improving	======	Male	230.9	226.0	-2.1	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.5. Emergency department encounters for asthma, adults

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Measure Category: 7. Care Coordination, Subcategory: 3. Preventable Emergency Department Visits

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	407.9	2020	287.4	-6.7	No change	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	218.6	2020	148.8	-7.5	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	625.9	2020	456.7	-5.3	No change	======	Fourth quartile (highest income)	148.8	456.7	206.9	Worse
	Second quartile	2016	450.4	2020	305.5	-7.4	No change	======			305.5	105.3	Worse
	Third quartile	2016	305.8	2020	221.6	-7.2	Improving	======			221.6	48.9	Worse
Metropolitan status	Large fringe metro	2016	344.7	2020	243.0	-6.1	No change	======	======	======	======	======	======
	Large central metro	2016	462.6	2020	293.3	-9.1	No change	======	Large fringe metro	243.0	293.3	20.7	Same
	Medium metro	2016	389.5	2020	312.4	-4.1	No change	======			312.4	28.6	Worse
	Small metro	2016	439.7	2020	303.1	-6.9	Improving	======			303.1	24.7	Same
	Micropolitan	2016	393.9	2020	314.1	-3.8	No change	======			314.1	29.3	Worse
	Noncore	2016	377.5	2020	282.2	-5.7	Improving	======			282.2	16.1	Same
Gender	Male	2016	332.0	2020	238.0	-6.2	No change	======	======	======	======	======	======
	Female	2016	486.3	2020	338.6	-7.0	No change	======	Male	238.0	338.6	42.3	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 3. Preventable Emergency Department Visits

Appendix Table 7.3.6. Emergency department encounters for asthma, children ages 2-17

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	730.7	2020	295.5	-15.2	No change	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	433.5	2020	161.1	-15.8	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	1149.4	2020	474.9	-15.1	No change	======	Fourth quartile (highest income)	161.1	474.9	194.8	Worse
	Second quartile	2016	721.9	2020	297.9	-14.9	No change	======			297.9	84.9	Worse
	Third quartile	2016	592.7	2020	233.5	-15.5	No change	======			233.5	44.9	Worse
Metropolitan status	Large fringe metro	2016	606.9	2020	220.6	-15.2	No change	======	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Large central metro	2016	1058.8	2020	419.1	-15.6	No change	======	Large fringe metro	220.6	419.1	90.0	Worse
	Medium metro	2016	613.6	2020	278.9	-14.3	No change	======			278.9	26.4	Same
	Small metro	2016	575.4	2020	233.1	-16.3	No change	======			233.1	5.7	Same
	Micropolitan	2016	504.4	2020	224.8	-13.9	No change	======			224.8	1.9	Same
	Noncore	2016	492.2	2020	211.5	-15.9	No change	======			211.5	-4.1	Same
Age	2-4	2016	1126.7	2020	388.6	-17.1	No change	======	======	======	======	======	======
	5-9	2016	933.6	2020	347.1	-16.8	No change	======	2-4	388.6	347.1	-10.7	Same
	10-14	2016	523.9	2020	247.6	-12.8	No change	======			247.6	-36.3	Better
	15-17	2016	371.6	2020	203.7	-11.0	No change	======			203.7	-47.6	Better
Gender	Male	2016	870.7	2020	350.1	-15.4	No change	======	======	======	======	======	======
	Female	2016	584.4	2020	238.6	-15.0	No change	======	Male	350.1	238.6	-31.8	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.7. Emergency department visits for asthma per 10,000 population, ages 2-19

Source: NHAMCS

Benchmark: Not available

Data year for disparities analysis: 2018-2020

Note: Lower estimates are better for this measure. The measure unit is rate per 10,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2006-2008	82.5	2018-2020	78.2	-0.1	No change	======	======	======	======	======	======
Race	White	2006-2008	60.0	2018-2020	40.2	-4.7	Improving	======	======	======	======	======	======
	Black	2006-2008	220.8	2018-2020	200.8	-0.3	No change	======	White	40.2	200.8	399.5	Worse
Ethnicity	Non-Hispanic, White	2006-2008	58.9	2018-2020	33.8	-3.9	Improving	======	======	======	======	======	======
	Hispanic, all races	2006-2008	67.6	2018-2020	94.9	2.2	No change	======	Non-Hispanic, White	33.8	94.9	180.8	Worse
	Non-Hispanic, all races	2006-2008	86.2	2018-2020	72.6	-0.9	No change	======			72.6	114.8	Worse
	Non-Hispanic, Black	2006-2008	219.9	2018-2020	259.2	2.0	Worsening	======			259.2	666.9	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Age	2-9	2006-2008	110.1	2018-2020	118.2	0.5	No change	======	======	======	======	======	======
	10-19	2006-2008	61.0	2018-2020	47.4	-1.1	No change	======	2-9	118.2	47.4	-59.9	Better
Gender	Male	2006-2008	97.4	2018-2020	96.1	-0.1	No change	======	======	======	======	======	======
	Female	2006-2008	66.9	2018-2020	59.7	-0.1	No change	======	Male	96.1	59.7	-37.9	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.8. Emergency department visits for asthma per 10,000 population, ages 2-9

Source: NHAMCS

Benchmark: Not available

Data year for disparities analysis: 2018-2020

Note: Lower estimates are better for this measure. The measure unit is rate per 10,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2007-2009	127.7	2018-2020	118.2	-0.1	No change	======	======	======	======	======	======
Race	White	2007-2009	101.7	2018-2020	53.6	-6.0	Improving	======	======	======	======	======	======
	Black	2007-2009	304.2	2018-2020	340.1	0.5	No change	======	White	53.6	340.1	534.5	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Ethnicity	Non-Hispanic, White	2007-2009	95.6	2018-2020	37.0	-5.1	Improving	======		======	======	======	======	======
	Hispanic, all races	2007-2009	123.7	2018-2020	142.4	0.7	No change	======		Non-Hispanic, White	37.0	142.4	284.9	Worse
	Non-Hispanic, all races	2007-2009	128.9	2018-2020	109.7	-0.3	No change	======				109.7	196.5	Worse
	Non-Hispanic, Black	2007-2009	297.8	2018-2020	444.8	3.3	Worsening	======				444.8	1102.2	Worse
Gender	Male	2007-2009	173.4	2018-2020	153.8	-0.9	No change	======		======	======	======	======	======
	Female	2007-2009	80.0	2018-2020	81.0	1.7	No change	======		Male	153.8	81.0	-47.3	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is not a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.3.9. Emergency department visits for asthma per 10,000 population, ages 10-19

Source: NHAMCS

Benchmark: Not available

Data year for disparities analysis: 2018-2020

Note: Lower estimates are better for this measure. The measure unit is rate per 10,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2007-2009	67.1	2018-2020	47.4	-1.4	No change	======		======	======	======	======	======
Race	White	2007-2009	50.8	2018-2020	30.1	-6.2	Improving	======		======	======	======	======	======
	Black	2007-2009	164.3	2018-2020	90.6	-2.3	No change	======		White	30.1	90.6	201.0	Worse
Ethnicity	Hispanic, all races	2008-2010	56.4	2017-2019	68.7	3.7	No change	======		------	------	------	------	------
	Non-Hispanic, White	2007-2009	52.3	2018-2020	31.5	-4.0	Improving	======		======	======	======	======	======
	Non-Hispanic, all races	2007-2009	70.2	2018-2020	44.3	-2.6	Improving	======		Non-Hispanic, White	31.5	44.3	40.6	Same
	Non-Hispanic, Black	2007-2009	163.7	2018-2020	114.0	-1.1	No change	======				114.0	261.9	Worse
Gender	Male	2007-2009	69.8	2018-2020	51.2	0.4	No change	======		======	======	======	======	======
	Female	2007-2009	64.4	2018-2020	43.3	-3.0	Improving	======		Male	51.2	43.3	-15.4	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is not a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 4. Preventable Hospitalizations

Appendix Table 7.4.1. Hospital admissions for uncontrolled diabetes without complications per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 19.2 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	45.3	2020	36.9	-4.4	Improving	9 years	======	======	======	======	======
Race	White	2016	32.3	2020	26.8	-4.0	Improving	6 years	======	======	======	======	======
	API	2016	22.8	2020	18.1	-4.8	No change	No progress	White	26.8	18.1	-32.5	Better
	Black	2016	128.7	2020	102.1	-5.1	Improving	14 years			102.1	281.0	Worse
Ethnicity	Non-Hispanic, White	2016	32.3	2020	26.8	-4.0	Improving	6 years	======	======	======	======	======
	Hispanic, all races	2016	56.7	2020	42.5	-6.1	Improving	No progress	Non-Hispanic, White	26.8	42.5	58.6	Worse
	Non-Hispanic, API	2016	22.8	2020	18.1	-4.8	No change	No progress			18.1	-32.5	Better
	Non-Hispanic, Black	2016	128.7	2020	102.1	-5.1	Improving	14 years			102.1	281.0	Worse

Measure Category: 7. Care Coordination, Subcategory: 4. Preventable Hospitalizations

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Income	Fourth quartile (highest income)	2016	24.3	2020	19.8	-4.5	Improving	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	77.6	2020	62.5	-4.9	Improving	12 years	Fourth quartile (highest income)	19.8	62.5	215.7	Worse
	Second quartile	2016	46.0	2020	38.1	-3.8	Improving	No progress			38.1	92.4	Worse
	Third quartile	2016	35.1	2020	29.0	-4.1	Improving	No progress			29.0	46.5	Worse
Metropolitan status	Large fringe metro	2016	40.8	2020	34.0	-3.9	Improving	No progress	======	======	======	======	======
	Large central metro	2016	54.2	2020	42.0	-5.7	Improving	8 years	Large fringe metro	34.0	42.0	23.5	Worse
	Medium metro	2016	43.0	2020	36.1	-3.5	Improving	No progress			36.1	6.2	Same
	Small metro	2016	41.0	2020	36.1	-2.9	Improving	No progress			36.1	6.2	Same
	Micropolitan	2016	41.0	2020	34.6	-3.6	Improving	No progress			34.6	1.8	Same
	Noncore	2016	46.2	2020	35.2	-6.2	Improving	6 years			35.2	3.5	Same
Age	18-44	2016	18.4	2020	14.0	-5.9	Improving	Reached	======	======	======	======	======
	65-69	2016	77.2	2020	61.3	-5.2	Improving	11 years	18-44	14.0	61.3	337.9	Worse
	18-64	2016	32.6	2020	26.0	-4.9	Improving	5 years			26.0	85.7	Worse
	70-74	2016	94.5	2020	81.5	-3.1	No change	No progress			81.5	482.1	Worse
	75-79	2016	123.0	2020	104.8	-3.2	No change	No progress			104.8	648.6	Worse
	45-64	2016	52.0	2020	43.0	-4.1	Improving	12 years			43.0	207.1	Worse
	80-84	2016	147.4	2020	128.6	-3.0	No change	No progress			128.6	818.6	Worse

Measure Category: 7. Care Coordination, Subcategory: 4. Preventable Hospitalizations

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	65 and over	2016	105.7	2020	88.2	-3.9	Improving	No progress			88.2	530.0	Worse
	85 and over	2016	144.3	2020	120.9	-3.7	No change	No progress			120.9	763.6	Worse
Gender	Male	2016	49.3	2020	41.5	-3.7	Improving	13 years	======	======	======	======	======
	Female	2016	41.8	2020	33.0	-5.1	Improving	7 years	Male	41.5	33.0	-20.5	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.2. Hospital admissions with diabetes with short-term complications per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 37.8 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	54.5	2020	90.7	14.6	Worsening	No progress	======	======	======	======	======
Race	White	2016	53.2	2020	76.4	10.6	Worsening	No progress	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	API	2016	10.7	2020	20.1	19.0	Worsening	Reached, getting worse	White	76.4	20.1	-73.7	Better
	Black	2016	110.4	2020	218.6	19.5	Worsening	No progress			218.6	186.1	Worse
Ethnicity	Non-Hispanic, White	2016	53.2	2020	76.4	10.6	Worsening	No progress	======	======	======	======	======
	Hispanic, all races	2016	34.2	2020	70.5	21.3	Worsening	No progress	Non-Hispanic, White	76.4	70.5	-7.7	Same
	Non-Hispanic, API	2016	10.7	2020	20.1	19.0	Worsening	Reached, getting worse			20.1	-73.7	Better
	Non-Hispanic, Black	2016	110.4	2020	218.6	19.5	Worsening	No progress			218.6	186.1	Worse
Income	Fourth quartile (highest income)	2016	28.3	2020	43.4	12.3	Worsening	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	83.4	2020	150.3	16.8	Worsening	No progress	Fourth quartile (highest income)	43.4	150.3	246.3	Worse
	Second quartile	2016	60.5	2020	98.9	14.3	Worsening	No progress			98.9	127.9	Worse
	Third quartile	2016	45.5	2020	72.0	13.5	Worsening	No progress			72.0	65.9	Worse
Metropolitan status	Large fringe metro	2016	48.3	2020	75.7	12.9	Worsening	No progress	======	======	======	======	======
	Large central metro	2016	50.0	2020	89.6	16.8	Worsening	No progress	Large fringe metro	75.7	89.6	18.4	Worse
	Medium metro	2016	59.3	2020	100.3	15.1	Worsening	No progress			100.3	32.5	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Small metro	2016	62.9	2020	100.2	13.1	Worsening	No progress			100.2	32.4	Worse
	Micropolitan	2016	65.4	2020	105.7	13.7	Worsening	No progress			105.7	39.6	Worse
	Noncore	2016	65.7	2020	97.9	12.0	Worsening	No progress			97.9	29.3	Worse
Age	18-44	2016	78.5	2020	101.2	7.3	Worsening	No progress	======	======	======	======	======
	18-64	2016	60.8	2020	96.6	13.3	Worsening	No progress	18-44	101.2	96.6	-4.5	Same
	65-69	2016	25.4	2020	66.1	28.5	Worsening	No progress			66.1	-34.7	Better
	70-74	2016	23.5	2020	62.0	29.0	Worsening	No progress			62.0	-38.7	Better
	75-79	2016	24.0	2020	61.1	28.3	Worsening	No progress			61.1	-39.6	Better
	45-64	2016	36.6	2020	90.2	26.7	Worsening	No progress			90.2	-10.9	Better
	80-84	2016	23.6	2020	56.8	25.5	Worsening	No progress			56.8	-43.9	Better
	65 and over	2016	23.8	2020	60.3	27.7	Worsening	No progress			60.3	-40.4	Better
	85 and over	2016	20.2	2020	41.9	21.5	Worsening	No progress			41.9	-58.6	Better
Gender	Male	2016	54.9	2020	100.0	17.2	Worsening	No progress	======	======	======	======	======
	Female	2016	54.4	2020	81.7	11.8	Worsening	No progress	Male	100.0	81.7	-18.3	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.3. Hospital admissions with diabetes with short-term complications per 100,000 population, ages 6-17

Source: HCUP

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	26.1	2020	28.0	1.9	No change	======	======	======	======	======	======
Race	White	2016	26.2	2020	25.6	-0.3	No change	======	======	======	======	======	======
	API	2016	6.0	2020	5.4	-2.4	No change	======	White	25.6	5.4	-78.9	Better
	Black	2016	37.7	2020	52.7	7.8	Worsening	======			52.7	105.9	Worse
Ethnicity	Non-Hispanic, White	2016	26.2	2020	25.6	-0.3	No change	======	======	======	======	======	======
	Hispanic, all races	2016	19.5	2020	19.1	0.3	No change	======	Non-Hispanic, White	25.6	19.1	-25.4	Better
	Non-Hispanic, API	2016	6.0	2020	5.4	-2.4	No change	======			5.4	-78.9	Better
	Non-Hispanic, Black	2016	37.7	2020	52.7	7.8	Worsening	======			52.7	105.9	Worse
Income	Fourth quartile (highest income)	2016	17.2	2020	18.3	1.7	No change	======	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	First quartile (lowest income)	2016	35.8	2020	39.7	2.4	No change	======	Fourth quartile (highest income)	18.3	39.7	116.9	Worse
	Second quartile	2016	27.1	2020	28.1	1.2	No change	======			28.1	53.6	Worse
	Third quartile	2016	24.2	2020	25.4	1.4	No change	======			25.4	38.8	Worse
Metropolitan status	Large fringe metro	2016	21.2	2020	21.7	0.6	No change	======	======	======	======	======	======
	Large central metro	2016	27.0	2020	31.4	4.1	No change	======	Large fringe metro	21.7	31.4	44.7	Worse
	Medium metro	2016	30.8	2020	33.8	2.5	Worsening	======			33.8	55.8	Worse
	Small metro	2016	26.5	2020	25.9	-0.1	No change	======			25.9	19.4	Same
	Micropolitan	2016	23.8	2020	23.4	-1.2	No change	======			23.4	7.8	Same
	Noncore	2016	27.8	2020	26.5	-1.4	No change	======			26.5	22.1	Same
Age	6-9	2016	12.4	2020	14.4	3.5	No change	======	======	======	======	======	======
	10-14	2016	28.9	2020	34.3	4.4	No change	======	6-9	14.4	34.3	138.2	Worse
	15-17	2016	38.9	2020	35.1	-2.2	No change	======			35.1	143.8	Worse
Gender	Male	2016	23.5	2020	28.0	4.4	No change	======	======	======	======	======	======
	Female	2016	28.8	2020	28.1	-0.5	No change	======	Male	28.0	28.1	0.4	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.4. Hospital admissions with diabetes with long-term complications per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 40.1 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	85.1	2020	107.1	5.6	No change	No progress	======	======	======	======	======
Race	White	2016	65.4	2020	88.0	7.2	No change	No progress	======	======	======	======	======
	API	2016	29.2	2020	33.7	3.4	No change	No progress	White	88.0	33.7	-61.7	Better
	Black	2016	180.8	2020	207.9	3.3	No change	No progress			207.9	136.3	Worse
Ethnicity	Non-Hispanic, White	2016	65.4	2020	88.0	7.2	No change	No progress	======	======	======	======	======
	Hispanic, all races	2016	122.6	2020	139.1	3.1	No change	No progress	Non-Hispanic, White	88.0	139.1	58.1	Worse
	Non-Hispanic, API	2016	29.2	2020	33.7	3.4	No change	No progress			33.7	-61.7	Better
	Non-Hispanic, Black	2016	180.8	2020	207.9	3.3	No change	No progress			207.9	136.3	Worse
Income	Fourth quartile (highest income)	2016	46.6	2020	56.2	4.5	No change	No progress	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	First quartile (lowest income)	2016	137.9	2020	174.3	5.5	No change	No progress	Fourth quartile (highest income)	56.2	174.3	210.1	Worse
	Second quartile	2016	90.3	2020	115.9	6.2	No change	No progress			115.9	106.2	Worse
	Third quartile	2016	70.5	2020	88.3	5.7	No change	No progress			88.3	57.1	Worse
Metropolitan status	Large fringe metro	2016	76.2	2020	93.3	4.9	No change	No progress	======	======	======	======	======
	Large central metro	2016	98.9	2020	115.6	3.7	No change	No progress	Large fringe metro	93.3	115.6	23.9	Worse
	Medium metro	2016	84.4	2020	110.8	6.7	No change	No progress			110.8	18.8	Worse
	Small metro	2016	78.7	2020	105.2	7.0	No change	No progress			105.2	12.8	Same
	Micropolitan	2016	79.1	2020	110.8	8.3	Worsening	No progress			110.8	18.8	Worse
	Noncore	2016	83.2	2020	115.2	7.8	Worsening	No progress			115.2	23.5	Worse
Age	18-44	2016	33.4	2020	32.8	-0.6	No change	No progress	======	======	======	======	======
	65-69	2016	153.5	2020	205.6	7.1	No change	No progress	18-44	32.8	205.6	526.8	Worse
	18-64	2016	72.7	2020	86.9	4.2	No change	No progress			86.9	164.9	Worse
	70-74	2016	151.6	2020	215.2	8.9	No change	No progress			215.2	556.1	Worse
	75-79	2016	160.7	2020	230.2	9.3	No change	No progress			230.2	601.8	Worse
	45-64	2016	127.4	2020	164.1	6.1	No change	No progress			164.1	400.3	Worse
	80-84	2016	153.6	2020	236.7	10.9	No change	No progress			236.7	621.6	Worse
	65 and over	2016	151.3	2020	214.4	8.7	No change	No progress			214.4	553.7	Worse
	85 and over	2016	129.1	2020	192.7	9.8	No change	No progress			192.7	487.5	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Gender	Male	2016	110.8	2020	145.7	6.7	No change	No progress	======	======	======	======	======
	Female	2016	62.6	2020	73.6	3.8	No change	No progress	Male	145.7	73.6	-49.5	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.5. Lower extremity amputations among admissions for diabetes per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 13.7 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	25.9	2020	34.2	7.0	Worsening	No progress	======	======	======	======	======
Race	White	2016	19.9	2020	27.8	8.4	Worsening	No progress	======	======	======	======	======
	API	2016	8.8	2020	10.3	3.3	No change	No progress	White	27.8	10.3	-62.9	Better
	Black	2016	61.1	2020	71.1	3.8	Worsening	No progress			71.1	155.8	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Ethnicity	Non-Hispanic, White	2016	19.9	2020	27.8	8.4	Worsening	No progress	======	======	======	======	======
	Hispanic, all races	2016	38.9	2020	46.6	4.9	Worsening	No progress	Non-Hispanic, White	27.8	46.6	67.6	Worse
	Non-Hispanic, API	2016	8.8	2020	10.3	3.3	No change	No progress			10.3	-62.9	Better
	Non-Hispanic, Black	2016	61.1	2020	71.1	3.8	Worsening	No progress			71.1	155.8	Worse
Income	Fourth quartile (highest income)	2016	13.1	2020	16.5	5.7	Worsening	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	43.2	2020	57.6	7.2	Worsening	No progress	Fourth quartile (highest income)	16.5	57.6	249.1	Worse
	Second quartile	2016	27.7	2020	37.5	7.9	Worsening	No progress			37.5	127.3	Worse
	Third quartile	2016	21.3	2020	27.7	6.7	Worsening	No progress			27.7	67.9	Worse
Metropolitan status	Large fringe metro	2016	21.2	2020	26.4	5.5	Worsening	No progress	======	======	======	======	======
	Large central metro	2016	29.1	2020	35.5	5.1	Worsening	No progress	Large fringe metro	26.4	35.5	34.5	Worse
	Medium metro	2016	27.3	2020	38.9	8.9	Worsening	No progress			38.9	47.3	Worse
	Small metro	2016	25.7	2020	37.0	9.2	Worsening	No progress			37.0	40.2	Worse
	Micropolitan	2016	26.2	2020	37.6	9.1	Worsening	No progress			37.6	42.4	Worse
	Noncore	2016	27.3	2020	39.1	9.1	Worsening	No progress			39.1	48.1	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Age	18-44	2016	4.6	2020	6.5	9.0	Worsening	Reached, getting worse	======	======	======	======	======
	65-69	2016	60.4	2020	75.4	5.4	Worsening	No progress	18-44	6.5	75.4	1060.0	Worse
	18-64	2016	19.5	2020	27.0	8.2	Worsening	No progress			27.0	315.4	Worse
	70-74	2016	61.4	2020	75.3	5.2	Worsening	No progress			75.3	1058.5	Worse
	75-79	2016	66.2	2020	79.3	4.8	Worsening	No progress			79.3	1120.0	Worse
	45-64	2016	40.3	2020	56.2	8.4	Worsening	No progress			56.2	764.6	Worse
	80-84	2016	62.5	2020	76.1	5.3	Worsening	No progress			76.1	1070.8	Worse
	65 and over	2016	60.8	2020	74.2	5.0	Worsening	No progress			74.2	1041.5	Worse
	85 and over	2016	50.5	2020	56.3	2.7	Worsening	No progress			56.3	766.2	Worse
Gender	Male	2016	39.0	2020	52.8	7.6	Worsening	No progress	======	======	======	======	======
	Female	2016	14.5	2020	17.9	5.4	Worsening	No progress	Male	52.8	17.9	-66.1	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.6. Composite measure: Hospital admissions for one or more diabetes complications (short-term complications, long-term complications, uncontrolled diabetes, or lower-extremity amputation) per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 111.4 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	200.0	2020	249.6	6.0	No change	No progress	======	======	======	======	======
Race	White	2016	162.5	2020	203.1	6.1	Worsening	No progress	======	======	======	======	======
	API	2016	68.1	2020	76.5	3.3	No change	No progress	White	203.1	76.5	-62.3	Better
	Black	2016	456.8	2020	560.3	5.6	Worsening	No progress			560.3	175.9	Worse
Ethnicity	Non-Hispanic, White	2016	162.5	2020	203.1	6.1	Worsening	No progress	======	======	======	======	======
	Hispanic, all races	2016	235.0	2020	272.3	4.2	No change	No progress	Non-Hispanic, White	203.1	272.3	34.1	Worse
	Non-Hispanic, API	2016	68.1	2020	76.5	3.3	No change	No progress			76.5	-62.3	Better
	Non-Hispanic, Black	2016	456.8	2020	560.3	5.6	Worsening	No progress			560.3	175.9	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Income	Fourth quartile (highest income)	2016	106.7	2020	126.5	4.6	No change	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	324.3	2020	412.8	6.4	Worsening	No progress	Fourth quartile (highest income)	126.5	412.8	226.3	Worse
	Second quartile	2016	213.0	2020	269.1	6.5	Worsening	No progress			269.1	112.7	Worse
	Third quartile	2016	163.4	2020	201.4	5.9	No change	No progress			201.4	59.2	Worse
Metropolitan status	Large fringe metro	2016	177.6	2020	214.4	5.1	No change	No progress	======	======	======	======	======
	Large central metro	2016	219.9	2020	263.3	4.9	No change	No progress	Large fringe metro	214.4	263.3	22.8	Worse
	Medium metro	2016	202.6	2020	264.2	7.3	Worsening	No progress			264.2	23.2	Worse
	Small metro	2016	198.0	2020	257.7	6.9	Worsening	No progress			257.7	20.2	Worse
	Micropolitan	2016	200.5	2020	266.4	7.6	Worsening	No progress			266.4	24.3	Worse
	Noncore	2016	210.9	2020	264.4	6.2	Worsening	No progress			264.4	23.3	Worse
Age	18-44	2016	132.9	2020	151.1	3.8	No change	No progress	======	======	======	======	======
	65-69	2016	291.7	2020	365.6	5.9	Worsening	No progress	18-44	151.1	365.6	142.0	Worse
	18-64	2016	177.3	2020	221.8	6.1	Worsening	No progress			221.8	46.8	Worse
	70-74	2016	305.9	2020	390.0	6.6	No change	No progress			390.0	158.1	Worse
	45-64	2016	239.3	2020	322.6	7.9	Worsening	No progress			322.6	113.5	Worse
	75-79	2016	346.9	2020	427.8	5.9	No change	No progress			427.8	183.1	Worse
	80-84	2016	361.4	2020	450.2	5.8	No change	No progress			450.2	197.9	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	65 and over	2016	316.7	2020	393.1	5.8	No change	No progress				393.1	160.2	Worse
	85 and over	2016	323.6	2020	374.8	3.9	No change	No progress				374.8	148.0	Worse
Gender	Male	2016	237.3	2020	310.1	7.1	Worsening	No progress		======	======	======	======	======
	Female	2016	167.6	2020	196.1	4.5	No change	No progress		Male	310.1	196.1	-36.8	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is not a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.7. Hospital admissions for asthma per 100,000 population, ages 18 to 39

Source: HCUP

Benchmark: 16.1 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	34.7	2020	20.5	-10.6	Improving	No progress		======	======	======	======	======
Race	White	2016	26.2	2020	15.4	-10.7	Improving	Reached		======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	API	2016	8.0	2020	3.7	-15.8	Improving	Reached	White	15.4	3.7	-76.0	Better
	Black	2016	88.8	2020	54.3	-9.8	Improving	No progress			54.3	252.6	Worse
Ethnicity	Non-Hispanic, White	2016	26.2	2020	15.4	-10.7	Improving	Reached	======	======	======	======	======
	Hispanic, all races	2016	25.9	2020	14.9	-11.0	No change	No progress	Non-Hispanic, White	15.4	14.9	-3.2	Same
	Non-Hispanic, API	2016	8.0	2020	3.7	-15.8	Improving	Reached			3.7	-76.0	Better
	Non-Hispanic, Black	2016	88.8	2020	54.3	-9.8	Improving	No progress			54.3	252.6	Worse
Income	Fourth quartile (highest income)	2016	19.9	2020	10.6	-13.0	Improving	Reached	======	======	======	======	======
	First quartile (lowest income)	2016	53.6	2020	33.3	-9.8	Improving	No progress	Fourth quartile (highest income)	10.6	33.3	214.2	Worse
	Second quartile	2016	35.6	2020	20.7	-10.4	Improving	No progress			20.7	95.3	Worse
	Third quartile	2016	27.9	2020	16.6	-10.2	Improving	No progress			16.6	56.6	Worse
Metropolitan status	Large fringe metro	2016	35.8	2020	19.5	-12.1	Improving	1 years	======	======	======	======	======
	Large central metro	2016	39.6	2020	23.8	-10.3	Improving	No progress	Large fringe metro	19.5	23.8	22.1	Worse
	Medium metro	2016	32.6	2020	19.8	-10.0	Improving	No progress			19.8	1.5	Same
	Small metro	2016	30.2	2020	19.6	-8.7	Improving	2 years			19.6	0.5	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Micropolitan	2016	27.7	2020	17.4	-9.0	Improving	No progress				17.4	-10.8	Same
	Noncore	2016	27.1	2020	14.1	-13.9	Improving	Reached				14.1	-27.7	Better
Gender	Male	2016	22.9	2020	14.1	-10.0	Improving	Reached		======	======	======	======	======
	Female	2016	46.6	2020	27.0	-10.8	Improving	No progress		Male	14.1	27.0	91.5	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.4.8. Hospital admissions for asthma per 100,000 population, ages 2-17

Source: HCUP

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	89.5	2020	29.7	-21.1	Improving	======		======	======	======	======	======
Race	White	2016	49.6	2020	16.6	-20.8	Improving	======		======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	API	2016	47.0	2020	10.7	-27.0	No change	======	White	16.6	10.7	-35.5	Better
	Black	2016	226.5	2020	79.4	-20.7	Improving	======			79.4	378.3	Worse
Ethnicity	Non-Hispanic, White	2016	49.6	2020	16.6	-20.8	Improving	======	======	======	======	======	======
	Hispanic, all races	2016	82.0	2020	24.6	-22.3	No change	======	Non-Hispanic, White	16.6	24.6	48.2	Worse
	Non-Hispanic, API	2016	47.0	2020	10.7	-27.0	No change	======			10.7	-35.5	Better
	Non-Hispanic, Black	2016	226.5	2020	79.4	-20.7	Improving	======			79.4	378.3	Worse
Income	Fourth quartile (highest income)	2016	54.1	2020	16.5	-22.2	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	145.3	2020	50.2	-20.9	Improving	======	Fourth quartile (highest income)	16.5	50.2	204.2	Worse
	Second quartile	2016	81.7	2020	27.4	-20.7	Improving	======			27.4	66.1	Worse
	Third quartile	2016	71.7	2020	22.7	-21.6	Improving	======			22.7	37.6	Worse
Metropolitan status	Large fringe metro	2016	74.2	2020	23.7	-21.6	No change	======	======	======	======	======	======
	Large central metro	2016	126.5	2020	42.3	-21.1	Improving	======	Large fringe metro	23.7	42.3	78.5	Worse
	Medium metro	2016	85.5	2020	28.5	-20.9	Improving	======			28.5	20.3	Same
	Small metro	2016	65.8	2020	22.7	-20.5	Improving	======			22.7	-4.2	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Micropolitan	2016	55.7	2020	18.5	-21.5	Improving	======				18.5	-21.9	Same
	Noncore	2016	51.3	2020	17.0	-21.7	Improving	======				17.0	-28.3	Better
Age	2-4	2016	179.6	2020	56.2	-21.8	Improving	======		======	======	======	======	======
	5-9	2016	116.3	2020	35.6	-22.6	Improving	======		2-4	56.2	35.6	-36.7	Better
	10-14	2016	49.2	2020	18.6	-19.2	No change	======				18.6	-66.9	Better
	15-17	2016	27.4	2020	13.1	-15.1	Improving	======				13.1	-76.7	Better
Gender	Male	2016	105.6	2020	34.1	-21.7	Improving	======		======	======	======	======	======
	Female	2016	72.7	2020	25.0	-20.4	Improving	======		Male	34.1	25.0	-26.7	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 5. Preventable Hospitalizations Among Home Health and Nursing Home Patients

Appendix Table 7.5.1. Hospitalizations and emergency department encounters for heart failure

Source: HCUP_NEDS

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	448.7	2020	501.5	2.6	No change	======	======	======	======	======	======
Income	Fourth quartile (highest income)	2016	299.9	2020	325.5	1.4	No change	======	======	======	======	======	======
	First quartile (lowest income)	2016	629.8	2020	755.2	4.9	No change	======	Fourth quartile (highest income)	325.5	755.2	132.0	Worse
	Second quartile	2016	498.4	2020	528.6	1.6	No change	======			528.6	62.4	Worse
	Third quartile	2016	369.0	2020	400.7	1.1	No change	======			400.7	23.1	Worse
Metropolitan status	Large fringe metro	2016	386.1	2020	419.4	2.5	No change	======	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Large central metro	2016	414.8	2020	457.7	1.4	No change	======	Large fringe metro	419.4	457.7	9.1	Same
	Medium metro	2016	424.9	2020	534.0	4.5	No change	======			534.0	27.3	Worse
	Small metro	2016	538.9	2020	545.7	2.1	No change	======			545.7	30.1	Worse
	Micropolitan	2016	563.1	2020	642.7	3.9	Worsening	======			642.7	53.2	Worse
	Noncore	2016	663.8	2020	700.9	2.3	No change	======			700.9	67.1	Worse
Age	18-44	2016	47.2	2020	66.5	7.6	Worsening	======	======	======	======	======	======
	45-64	2016	339.1	2020	441.4	5.9	Worsening	======	18-44	66.5	441.4	563.8	Worse
	65 and over	2016	1592.9	2020	1525.1	-0.8	No change	======			1525.1	2193.4	Worse
	65-69	2016	729.9	2020	771.6	1.3	No change	======			771.6	1060.3	Worse
	70-74	2016	1043.5	2020	1078.9	0.9	No change	======			1078.9	1522.4	Worse
	75-79	2016	1617.2	2020	1633.3	0.4	No change	======			1633.3	2356.1	Worse
	80-84	2016	2469.8	2020	2390.1	-0.5	No change	======			2390.1	3494.1	Worse
	85 and over	2016	4052.8	2020	3636.2	-2.1	No change	======			3636.2	5368.0	Worse
Gender	Male	2016	476.6	2020	554.6	3.4	No change	======	======	======	======	======	======
	Female	2016	422.3	2020	451.0	1.7	No change	======	Male	554.6	451.0	-18.7	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 5. Preventable Hospitalizations Among Home Health and Nursing Home Patients

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Appendix Table 7.5.2. Home health care patients who had an emergency department visit and were then hospitalized

Source: OASIS

Benchmark: 8.9 in 2015

Data year for disparities analysis: 2021

Note: Lower estimates are better for this measure. The measure unit is percentage.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2013	11.0	2021	12.1	0.2	No change	No progress	======	======	======	======	======
Race	White	2013	10.9	2021	11.9	0.1	No change	No progress	======	======	======	======	======
	AI/AN	2013	12.2	2021	13.3	0.0	No change	No progress	White	11.9	13.3	11.8	Worse
	Asian	2013	7.6	2021	9.5	1.8	Worsening	No progress			9.5	-20.2	Better
	NHPI	2013	9.0	2021	10.3	1.3	Worsening	No progress			10.3	-13.4	Better
	Black	2013	12.4	2021	13.6	0.3	No change	No progress			13.6	14.3	Worse
	Multiple races	2013	17.6	2021	18.2	-0.4	No change	No progress			18.2	52.9	Worse
Ethnicity	Non-Hispanic, White	2013	10.9	2021	11.9	0.1	No change	No progress	======	======	======	======	======
	Hispanic, all races	2013	9.4	2021	11.5	1.4	No change	No progress	Non-Hispanic, White	11.9	11.5	-3.4	Same
	Non-Hispanic, AI/AN	2013	12.2	2021	13.3	0.0	No change	No progress			13.3	11.8	Worse
	Non-Hispanic, Asian	2013	7.6	2021	9.5	1.8	Worsening	No progress			9.5	-20.2	Better

Measure Category: 7. Care Coordination, Subcategory: 5. Preventable Hospitalizations Among Home Health and Nursing Home Patients

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Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, NHPI	2013	9.0	2021	10.3	1.3	Worsening	No progress			10.3	-13.4	Better
	Non-Hispanic, Black	2013	12.4	2021	13.6	0.3	No change	No progress			13.6	14.3	Worse
	Non-Hispanic, multiple races	2013	17.6	2021	18.2	-0.4	No change	No progress			18.2	52.9	Worse
Age	0-64	2013	12.6	2021	13.3	-0.4	No change	No progress	======	======	======	======	======
	65-74	2013	9.9	2021	11.5	0.9	No change	No progress	0-64	13.3	11.5	-13.5	Better
	75-84	2013	10.5	2021	11.8	0.4	No change	No progress			11.8	-11.3	Better
	85 and over	2013	11.5	2021	12.4	0.0	No change	No progress			12.4	-6.8	Same
Gender	Male	2013	11.9	2021	13.5	0.7	No change	No progress	======	======	======	======	======
	Female	2013	10.5	2021	11.1	-0.4	No change	No progress	Male	13.5	11.1	-17.8	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 5. Preventable Hospitalizations Among Home Health and Nursing Home Patients

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Measure Category: 7. Care Coordination, Subcategory: 6. Supportive and Palliative Care

Appendix Table 7.6.1. Home health care patients who had an emergency department visit without a hospitalization

Source: OASIS

Benchmark: 2.8 in 2015

Data year for disparities analysis: 2021

Note: Lower estimates are better for this measure. The measure unit is percentage.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2013	3.5	2021	3.8	0.9	No change	No progress	======	======	======	======	======
Race	White	2013	3.6	2021	3.9	1.0	No change	No progress	======	======	======	======	======
	AI/AN	2013	4.9	2021	5.3	0.3	No change	No progress	White	3.9	5.3	35.9	Worse
	Asian	2013	2.1	2021	2.7	2.4	Worsening	Reached, getting worse			2.7	-30.8	Better
	NHPI	2013	3.6	2021	4.0	1.0	No change	No progress			4.0	2.6	Same
	Black	2013	3.5	2021	3.6	0.2	No change	No progress			3.6	-7.7	Same
	Multiple races	2013	3.8	2021	4.1	0.7	No change	No progress			4.1	5.1	Same
Ethnicity	Non-Hispanic, White	2013	3.6	2021	3.9	1.0	No change	No progress	======	======	======	======	======
	Hispanic, all races	2013	2.5	2021	3.0	2.2	Worsening	No progress	Non-Hispanic, White	3.9	3.0	-23.1	Better

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, AI/AN	2013	4.9	2021	5.3	0.3	No change	No progress			5.3	35.9	Worse
	Non-Hispanic, Asian	2013	2.1	2021	2.7	2.4	Worsening	Reached, getting worse			2.7	-30.8	Better
	Non-Hispanic, NHPI	2013	3.6	2021	4.0	1.0	No change	No progress			4.0	2.6	Same
	Non-Hispanic, Black	2013	3.5	2021	3.6	0.2	No change	No progress			3.6	-7.7	Same
	Non-Hispanic, multiple races	2013	3.8	2021	4.1	0.7	No change	No progress			4.1	5.1	Same
Age	0-64	2013	4.8	2021	5.1	0.5	No change	No progress	======	======	======	======	======
	65-74	2013	3.1	2021	3.6	1.5	Worsening	No progress	0-64	5.1	3.6	-29.4	Better
	75-84	2013	3.2	2021	3.5	1.1	No change	No progress			3.5	-31.4	Better
	85 and over	2013	3.3	2021	3.7	1.3	Worsening	No progress			3.7	-27.5	Better
Gender	Male	2013	3.5	2021	3.9	1.2	Worsening	No progress	======	======	======	======	======
	Female	2013	3.4	2021	3.7	0.8	No change	No progress	Male	3.9	3.7	-5.1	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.6.2. Home health care patients who had to be admitted to the hospital

Source: OASIS

Benchmark: 10.5 in 2015

Data year for disparities analysis: 2021

Note: Lower estimates are better for this measure. The measure unit is percentage.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2013	15.0	2021	13.2	-2.9	Improving	7 years	======	======	======	======	======
Race	White	2013	14.5	2021	12.7	-2.9	Improving	6 years	======	======	======	======	======
	AI/AN	2013	16.8	2021	14.3	-3.2	Improving	8 years	White	12.7	14.3	12.6	Worse
	Asian	2013	10.9	2021	10.7	-1.4	No change	No progress			10.7	-15.7	Better
	NHPI	2013	12.0	2021	11.3	-1.7	Improving	4 years			11.3	-11.0	Better
	Black	2013	17.9	2021	15.5	-3.0	Improving	10 years			15.5	22.0	Worse
	Multiple races	2013	23.9	2021	20.4	-3.3	Improving	14 years			20.4	60.6	Worse
Ethnicity	Non-Hispanic, White	2013	14.5	2021	12.7	-2.9	Improving	6 years	======	======	======	======	======
	Hispanic, all races	2013	14.7	2021	13.6	-2.4	Improving	No progress	Non-Hispanic, White	12.7	13.6	7.1	Same
	Non-Hispanic, AI/AN	2013	16.8	2021	14.3	-3.2	Improving	8 years			14.3	12.6	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, Asian	2013	10.9	2021	10.7	-1.4	No change	No progress				10.7	-15.7	Better
	Non-Hispanic, NHPI	2013	12.0	2021	11.3	-1.7	Improving	4 years				11.3	-11.0	Better
	Non-Hispanic, Black	2013	17.9	2021	15.5	-3.0	Improving	10 years				15.5	22.0	Worse
	Non-Hispanic, multiple races	2013	23.9	2021	20.4	-3.3	Improving	14 years				20.4	60.6	Worse
Age	0-64	2013	17.4	2021	14.4	-3.7	Improving	7 years		======	======	======	======	======
	65-74	2013	13.6	2021	12.6	-2.2	Improving	No progress		0-64	14.4	12.6	-12.5	Better
	75-84	2013	14.3	2021	12.9	-2.6	Improving	7 years				12.9	-10.4	Better
	85 and over	2013	15.6	2021	13.5	-2.9	Improving	7 years				13.5	-6.3	Same
Gender	Male	2013	16.3	2021	14.9	-2.2	Improving	13 years		======	======	======	======	======
	Female	2013	14.2	2021	12.1	-3.4	Improving	4 years		Male	14.9	12.1	-18.8	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.6.3. Home health care patients who had timely initiation of care

Source: OASIS

Benchmark: 94.9 in 2015

Data year for disparities analysis: 2021

Note: Higher estimates (percentages) are better for this measure. Percentages were flipped to negative direction for calculations.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2013	90.4	2021	94.3	-7.4	Improving	1 years		======	======	======	======	======
Race	White	2013	90.6	2021	94.5	-7.8	Improving	1 years		======	======	======	======	======
	AI/AN	2013	88.2	2021	93.6	-9.0	Improving	2 years		White	94.5	93.6	16.4	Worse
	Asian	2013	90.5	2021	92.8	-4.6	Improving	5 years				92.8	30.9	Worse
	NHPI	2013	88.0	2021	91.9	-5.7	Improving	5 years				91.9	47.3	Worse
	Black	2013	88.7	2021	93.5	-7.1	Improving	2 years				93.5	18.2	Worse
	Multiple races	2013	89.7	2021	93.6	-6.7	Improving	2 years				93.6	16.4	Worse
Ethnicity	Non-Hispanic, White	2013	90.6	2021	94.5	-7.8	Improving	1 years		======	======	======	======	======
	Hispanic, all races	2013	90.9	2021	93.6	-5.3	Improving	3 years		Non-Hispanic, White	94.5	93.6	16.4	Worse
	Non-Hispanic, AI/AN	2013	88.2	2021	93.6	-9.0	Improving	2 years				93.6	16.4	Worse
	Non-Hispanic, Asian	2013	90.5	2021	92.8	-4.6	Improving	5 years				92.8	30.9	Worse
	Non-Hispanic, NHPI	2013	88.0	2021	91.9	-5.7	Improving	5 years				91.9	47.3	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, Black	2013	88.7	2021	93.5	-7.1	Improving	2 years				93.5	18.2	Worse
	Non-Hispanic, multiple races	2013	89.7	2021	93.6	-6.7	Improving	2 years				93.6	16.4	Worse
Age	0-64	2013	89.6	2021	93.5	-6.7	Improving	2 years		======	======	======	======	======
	65-74	2013	90.7	2021	94.4	-7.3	Improving	1 years		0-64	93.5	94.4	-13.8	Better
	75-84	2013	90.5	2021	94.4	-7.5	Improving	1 years				94.4	-13.8	Better
	85 and over	2013	90.4	2021	94.4	-7.6	Improving	1 years				94.4	-13.8	Better
Gender	Male	2013	90.8	2021	94.3	-7.0	Improving	1 years		======	======	======	======	======
	Female	2013	90.1	2021	94.2	-7.6	Improving	1 years		Male	94.3	94.2	1.8	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.6.4. Adults who reported that home health care providers always seemed informed and up to date about all the care or treatment they got at home in the last 2 months of care

Source: HHCAHPS

Benchmark: 67.6 in 2015

Data year for disparities analysis: 2022

Note: Higher estimates (percentages) are better for this measure. Percentages were flipped to negative direction for calculations.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2012	62.2	2022	65.0	-0.7	No change	10 years		======	======	======	======	======
Race	White	2012	63.3	2022	66.1	-0.7	No change	6 years		======	======	======	======	======
	AI/AN	2012	60.4	2022	61.9	-0.5	No change	More than 20 years		White	66.1	61.9	12.4	Worse
	Asian	2012	48.1	2022	53.6	-1.1	Improving	More than 20 years				53.6	36.9	Worse
	NHPI	2012	59.2	2022	60.6	-0.4	No change	No progress				60.6	16.2	Worse
	Black	2012	61.4	2022	63.7	-0.7	No change	15 years				63.7	7.1	Same
	Multiple races	2012	57.7	2022	61.3	-0.4	No change	No progress				61.3	14.2	Worse
Ethnicity	Non-Hispanic, all races	2012	63.0	2022	65.7	-0.7	No change	7 years		======	======	======	======	======
	Hispanic, all races	2012	59.6	2022	60.8	-0.2	No change	No progress		Non-Hispanic, all races	65.7	60.8	14.3	Worse
Age	18-44	2012	59.8	2022	61.6	-0.4	No change	More than 20 years		======	======	======	======	======
	45-64	2012	63.7	2022	65.8	-0.6	No change	9 years		18-44	61.6	65.8	-10.9	Better
	65 and over	2012	62.1	2022	65.0	-0.8	No change	9 years				65.0	-8.9	Same
Education	At least some college	2012	61.6	2022	64.5	-0.7	No change	12 years		======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Less than high school graduate	2012	62.8	2022	65.7	-0.8	No change	7 years		At least some college	64.5	65.7	-3.4	Same
	High school graduate	2012	63.6	2022	66.6	-0.9	No change	3 years				66.6	-5.9	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Measure Category: 7. Care Coordination, Subcategory: 7. Potentially Avoidable Admissions

Appendix Table 7.7.1. Hospital admissions with hypertension per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 19.0 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	50.5	2020	54.4	1.9	No change	No progress	======	======	======	======	======
Race	White	2016	32.3	2020	34.6	1.7	No change	No progress	======	======	======	======	======
	API	2016	26.7	2020	27.0	0.1	No change	No progress	White	34.6	27.0	-22.0	Better
	Black	2016	168.0	2020	179.9	1.8	No change	No progress			179.9	419.9	Worse
Ethnicity	Non-Hispanic, White	2016	32.3	2020	34.6	1.7	No change	No progress	======	======	======	======	======
	Hispanic, all races	2016	54.6	2020	53.8	-0.3	No change	No progress	Non-Hispanic, White	34.6	53.8	55.5	Worse
	Non-Hispanic, API	2016	26.7	2020	27.0	0.1	No change	No progress			27.0	-22.0	Better

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Non-Hispanic, Black	2016	168.0	2020	179.9	1.8	No change	No progress			179.9	419.9	Worse
Income	Fourth quartile (highest income)	2016	28.6	2020	30.3	1.2	No change	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	84.6	2020	91.6	1.8	No change	No progress	Fourth quartile (highest income)	30.3	91.6	202.3	Worse
	Second quartile	2016	50.8	2020	55.5	2.6	No change	No progress			55.5	83.2	Worse
	Third quartile	2016	40.5	2020	43.3	1.8	No change	No progress			43.3	42.9	Worse
Metropolitan status	Large fringe metro	2016	47.2	2020	49.4	1.2	No change	No progress	======	======	======	======	======
	Large central metro	2016	60.6	2020	62.7	0.8	No change	No progress	Large fringe metro	49.4	62.7	26.9	Worse
	Medium metro	2016	49.6	2020	55.9	3.0	No change	No progress			55.9	13.2	Same
	Small metro	2016	46.3	2020	55.7	4.5	No change	No progress			55.7	12.8	Same
	Micropolitan	2016	41.3	2020	46.5	3.0	No change	No progress			46.5	-5.9	Same
	Noncore	2016	42.0	2020	42.2	0.6	No change	No progress			42.2	-14.6	Better
Age	18-44	2016	17.7	2020	21.0	3.9	No change	No progress	======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	65-69	2016	75.2	2020	77.4	0.5	No change	No progress	18-44	21.0	77.4	268.6	Worse
	18-64	2016	35.0	2020	39.6	3.0	No change	No progress			39.6	88.6	Worse
	70-74	2016	91.0	2020	93.7	0.9	No change	No progress			93.7	346.2	Worse
	75-79	2016	125.3	2020	123.3	0.2	No change	No progress			123.3	487.1	Worse
	45-64	2016	58.7	2020	65.8	2.9	No change	No progress			65.8	213.3	Worse
	80-84	2016	170.4	2020	174.8	0.7	No change	No progress			174.8	732.4	Worse
	65 and over	2016	118.4	2020	117.1	-0.1	No change	No progress			117.1	457.6	Worse
	85 and over	2016	216.4	2020	206.9	-0.9	No change	No progress			206.9	885.2	Worse
Gender	Male	2016	46.6	2020	53.1	3.1	No change	No progress	======	======	======	======	======
	Female	2016	52.5	2020	54.0	0.8	No change	No progress	Male	53.1	54.0	1.7	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.7.2. Hospital admissions with chronic obstructive pulmonary disease or asthma per 100,000 population, age 40 and over

Source: HCUP

Benchmark: 197.1 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	443.9	2020	220.7	-16.0	Improving	0 years	======	======	======	======	======
Race	White	2016	430.5	2020	216.7	-15.9	Improving	No progress	======	======	======	======	======
	API	2016	154.8	2020	64.9	-18.8	Improving	No progress	White	216.7	64.9	-70.1	Better
	Black	2016	706.9	2020	377.6	-13.8	Improving	2 years			377.6	74.3	Worse
Ethnicity	Non-Hispanic, White	2016	430.5	2020	216.7	-15.9	Improving	No progress	======	======	======	======	======
	Hispanic, all races	2016	329.8	2020	136.2	-19.5	Improving	Reached	Non-Hispanic, White	216.7	136.2	-37.1	Better
	Non-Hispanic, API	2016	154.8	2020	64.9	-18.8	Improving	No progress			64.9	-70.1	Better
	Non-Hispanic, Black	2016	706.9	2020	377.6	-13.8	Improving	2 years			377.6	74.3	Worse
Income	Fourth quartile (highest income)	2016	244.3	2020	115.0	-17.3	Improving	No progress	======	======	======	======	======
	First quartile (lowest income)	2016	715.7	2020	367.7	-15.2	Improving	2 years	Fourth quartile (highest income)	115.0	367.7	219.7	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Second quartile	2016	482.6	2020	239.2	-15.9	Improving	1 years				239.2	108.0	Worse
	Third quartile	2016	356.1	2020	174.5	-16.3	Improving	Reached				174.5	51.7	Worse
Metropolitan status	Large fringe metro	2016	413.2	2020	199.3	-16.7	Improving	0 years		======	======	======	======	======
	Large central metro	2016	431.5	2020	208.6	-16.3	Improving	0 years		Large fringe metro	199.3	208.6	4.7	Same
	Medium metro	2016	424.2	2020	215.3	-15.5	Improving	0 years				215.3	8.0	Same
	Small metro	2016	438.4	2020	237.7	-14.6	Improving	No progress				237.7	19.3	Worse
	Micropolitan	2016	500.5	2020	263.6	-14.8	Improving	No progress				263.6	32.3	Worse
	Noncore	2016	598.2	2020	291.8	-16.3	Improving	No progress				291.8	46.4	Worse
Age	18-44	2016	96.3	2020	50.3	-14.0	Improving	Reached		======	======	======	======	======
	65-69	2016	626.3	2020	320.1	-15.5	Improving	2 years		18-44	50.3	320.1	536.4	Worse
	40-64	2016	293.8	2020	158.7	-13.8	Improving	Reached				158.7	215.5	Worse
	70-74	2016	815.9	2020	385.6	-17.1	Improving	No progress				385.6	666.6	Worse
	75-79	2016	997.1	2020	481.9	-16.7	Improving	No progress				481.9	858.1	Worse
	45-64	2016	341.4	2020	185.1	-13.8	Improving	Reached				185.1	268.0	Worse
	80-84	2016	1082.5	2020	505.2	-17.8	Improving	No progress				505.2	904.4	Worse
	65 and over	2016	839.8	2020	396.6	-17.4	Improving	No progress				396.6	688.5	Worse
	85 and over	2016	1046.4	2020	419.0	-21.2	Improving	No progress				419.0	733.0	Worse
Gender	Male	2016	393.0	2020	200.0	-16.0	Improving	No progress		======	======	======	======	======
	Female	2016	493.6	2020	240.8	-16.0	Improving	1 years		Male	200.0	240.8	20.4	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.7.3. Hospital admissions for community-acquired pneumonia per 100,000 population, age 18 and over

Source: HCUP

Benchmark: 137.1 in 2016

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	217.2	2020	133.8	-8.5	No change	No progress	======	======	======	======	======
Race	White	2016	220.6	2020	137.3	-7.9	No change	No progress	======	======	======	======	======
	API	2016	101.6	2020	51.9	-13.1	Improving	Reached	White	137.3	51.9	-62.2	Better
	Black	2016	235.5	2020	159.7	-7.1	Improving	No progress			159.7	16.3	Worse
Ethnicity	Non-Hispanic, White	2016	220.6	2020	137.3	-7.9	No change	No progress	======	======	======	======	======
	Hispanic, all races	2016	183.5	2020	96.8	-13.1	Improving	Reached	Non-Hispanic, White	137.3	96.8	-29.5	Better
	Non-Hispanic, API	2016	101.6	2020	51.9	-13.1	Improving	Reached			51.9	-62.2	Better
	Non-Hispanic, Black	2016	235.5	2020	159.7	-7.1	Improving	No progress			159.7	16.3	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Income	Fourth quartile (highest income)	2016	144.7	2020	81.3	-10.9	Improving	Reached	======	======	======	======	======
	First quartile (lowest income)	2016	301.5	2020	197.8	-6.9	No change	No progress	Fourth quartile (highest income)	81.3	197.8	143.3	Worse
	Second quartile	2016	241.2	2020	149.6	-8.2	No change	No progress			149.6	84.0	Worse
	Third quartile	2016	185.7	2020	109.6	-9.4	Improving	No progress			109.6	34.8	Worse
Metropolitan status	Large fringe metro	2016	199.8	2020	118.8	-9.2	No change	No progress	======	======	======	======	======
	Large central metro	2016	174.8	2020	104.3	-9.6	Improving	No progress	Large fringe metro	118.8	104.3	-12.2	Better
	Medium metro	2016	203.0	2020	128.1	-7.5	No change	No progress			128.1	7.8	Same
	Small metro	2016	227.9	2020	153.8	-6.4	No change	No progress			153.8	29.5	Worse
	Micropolitan	2016	285.0	2020	184.8	-7.1	No change	No progress			184.8	55.6	Worse
	Noncore	2016	390.1	2020	237.8	-9.0	Improving	No progress			237.8	100.2	Worse
Age	18-44	2016	46.5	2020	27.7	-10.2	Improving	Reached	======	======	======	======	======
	65-69	2016	352.5	2020	221.9	-7.6	No change	No progress	18-44	27.7	221.9	701.1	Worse
	18-64	2016	101.3	2020	65.6	-7.5	No change	No progress			65.6	136.8	Worse
	70-74	2016	518.9	2020	323.1	-7.6	No change	No progress			323.1	1066.4	Worse
	75-79	2016	787.2	2020	497.1	-7.1	No change	No progress			497.1	1694.6	Worse
	45-64	2016	176.3	2020	118.8	-6.3	No change	No progress			118.8	328.9	Worse
	80-84	2016	1170.0	2020	714.7	-8.5	No change	No progress			714.7	2480.1	Worse
	65 and over	2016	757.1	2020	447.9	-9.3	No change	No progress			447.9	1517.0	Worse
	85 and over	2016	1937.3	2020	1072.3	-11.5	Improving	5 years			1072.3	3771.1	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Gender	Male	2016	228.7	2020	144.6	-8.0	No change	No progress		======	======	======	======	======
	Female	2016	212.2	2020	127.2	-9.0	No change	No progress		Male	144.6	127.2	-12.0	Better

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.7.4. Hospital admissions for urinary tract infection per 100,000 population, age 18 and over

Source: HCUP

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	153.5	2020	101.9	-8.9	Improving	======		======	======	======	======	======
Race	White	2016	146.4	2020	101.1	-8.0	Improving	======		======	======	======	======	======
	API	2016	67.3	2020	40.3	-10.8	Improving	======		White	101.1	40.3	-60.1	Better
	Black	2016	193.6	2020	125.5	-9.3	Improving	======				125.5	24.1	Worse
Ethnicity	Non-Hispanic, White	2016	146.4	2020	101.1	-8.0	Improving	======		======	======	======	======	======

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Hispanic, all races	2016	173.0	2020	89.1	-14.3	Improving	======		Non-Hispanic, White	101.1	89.1	-11.9	Better
	Non-Hispanic, API	2016	67.3	2020	40.3	-10.8	Improving	======				40.3	-60.1	Better
	Non-Hispanic, Black	2016	193.6	2020	125.5	-9.3	Improving	======				125.5	24.1	Worse
Income	Fourth quartile (highest income)	2016	118.7	2020	77.9	-9.1	Improving	======		======	======	======	======	======
	First quartile (lowest income)	2016	203.4	2020	136.2	-8.7	Improving	======		Fourth quartile (highest income)	77.9	136.2	74.8	Worse
	Second quartile	2016	158.0	2020	106.0	-8.6	Improving	======				106.0	36.1	Worse
	Third quartile	2016	135.6	2020	89.0	-9.0	Improving	======				89.0	14.2	Worse
Metropolitan status	Large fringe metro	2016	154.9	2020	101.4	-9.1	Improving	======		======	======	======	======	======
	Large central metro	2016	151.2	2020	90.4	-11.2	Improving	======		Large fringe metro	101.4	90.4	-10.8	Better
	Medium metro	2016	143.3	2020	98.1	-8.0	Improving	======				98.1	-3.3	Same
	Small metro	2016	140.2	2020	103.5	-6.8	Improving	======				103.5	2.1	Same
	Micropolitan	2016	158.4	2020	117.0	-6.4	Improving	======				117.0	15.4	Worse
	Noncore	2016	205.5	2020	144.9	-7.6	Improving	======				144.9	42.9	Worse
Age	18-44	2016	42.4	2020	25.0	-11.5	Improving	======		======	======	======	======	======
	65-69	2016	189.4	2020	124.9	-9.2	Improving	======		18-44	25.0	124.9	399.6	Worse
	18-64	2016	58.7	2020	37.4	-9.7	Improving	======				37.4	49.6	Worse
	70-74	2016	314.6	2020	220.0	-7.7	Improving	======				220.0	780.0	Worse

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	75-79	2016	548.5	2020	385.5	-7.5	Improving	======			385.5	1442.0	Worse
	45-64	2016	81.1	2020	54.9	-8.3	Improving	======			54.9	119.6	Worse
	80-84	2016	932.5	2020	647.5	-7.8	Improving	======			647.5	2490.0	Worse
	65 and over	2016	563.8	2020	371.6	-9.1	Improving	======			371.6	1386.4	Worse
	85 and over	2016	1645.3	2020	1080.0	-9.2	Improving	======			1080.0	4220.0	Worse
Gender	Male	2016	94.7	2020	64.1	-8.4	Improving	======	======	======	======	======	======
	Female	2016	200.4	2020	131.8	-9.1	Improving	======	Male	64.1	131.8	105.6	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.7.5. Hospital admissions for urinary tract infection per 100,000 population, ages 3 months to 17 years

Source: HCUP

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	23.1	2020	13.9	-11.1	Improving	======	======	======	======	======	======

Measure Category: 7. Care Coordination, Subcategory: 7. Potentially Avoidable Admissions

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Race	White	2016	22.3	2020	14.6	-9.3	Improving	======		======	======	======	======	======
	API	2016	11.3	2020	6.0	-14.0	Improving	======		White	14.6	6.0	-58.9	Better
	Black	2016	17.4	2020	10.7	-10.7	Improving	======				10.7	-26.7	Better
Ethnicity	Non-Hispanic, White	2016	22.3	2020	14.6	-9.3	Improving	======		======	======	======	======	======
	Hispanic, all races	2016	25.8	2020	13.5	-14.1	Improving	======		Non-Hispanic, White	14.6	13.5	-7.5	Same
	Non-Hispanic, API	2016	11.3	2020	6.0	-14.0	Improving	======				6.0	-58.9	Better
	Non-Hispanic, Black	2016	17.4	2020	10.7	-10.7	Improving	======				10.7	-26.7	Better
Income	Fourth quartile (highest income)	2016	15.2	2020	9.8	-9.9	Improving	======		======	======	======	======	======
	First quartile (lowest income)	2016	31.0	2020	17.5	-12.8	Improving	======		Fourth quartile (highest income)	9.8	17.5	78.6	Worse
	Second quartile	2016	24.7	2020	14.8	-10.8	Improving	======				14.8	51.0	Worse
	Third quartile	2016	20.7	2020	12.8	-10.3	Improving	======				12.8	30.6	Worse
Metropolitan status	Large fringe metro	2016	19.6	2020	12.1	-10.9	Improving	======		======	======	======	======	======
	Large central metro	2016	22.0	2020	13.0	-11.6	Improving	======		Large fringe metro	12.1	13.0	7.4	Same
	Medium metro	2016	25.0	2020	15.3	-10.4	Improving	======				15.3	26.4	Same
	Small metro	2016	24.8	2020	15.5	-9.9	Improving	======				15.5	28.1	Worse
	Micropolitan	2016	26.1	2020	14.9	-12.6	Improving	======				14.9	23.1	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark	Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Noncore	2016	30.6	2020	16.4	-13.6	Improving	======			16.4	35.5	Worse
Age	3 months - 4 years	2016	45.3	2020	24.9	-13.1	Improving	======	======	======	======	======	======
	5-9	2016	17.5	2020	10.9	-10.0	Improving	======	3 months - 4 years	24.9	10.9	-56.2	Better
	10-14	2016	9.0	2020	6.4	-8.0	Improving	======			6.4	-74.3	Better
	15-17	2016	21.9	2020	14.0	-9.7	Improving	======			14.0	-43.8	Better
Gender	Male	2016	7.9	2020	4.9	-10.8	Improving	======	======	======	======	======	======
	Female	2016	39.1	2020	23.3	-11.3	Improving	======	Male	4.9	23.3	375.5	Worse

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.

Appendix Table 7.7.6. Hospital admissions for pediatric gastroenteritis per 100,000 population, ages 3 months to 17 years

Source: HCUP

Benchmark: Not available

Data year for disparities analysis: 2020

Note: Lower estimates are better for this measure. The measure unit is rate per 100,000.

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
Total	Total	2016	36.5	2020	14.2	-18.0	No change	======		======	======	======	======	======
Race	White	2016	32.8	2020	12.9	-17.7	No change	======		======	======	======	======	======
	API	2016	22.5	2020	8.2	-19.7	Improving	======		White	12.9	8.2	-36.4	Better
	Black	2016	33.8	2020	14.9	-15.8	No change	======				14.9	15.5	Same
Ethnicity	Non-Hispanic, White	2016	32.8	2020	12.9	-17.7	No change	======		======	======	======	======	======
	Hispanic, all races	2016	40.0	2020	14.3	-19.5	Improving	======		Non-Hispanic, White	12.9	14.3	10.9	Same
	Non-Hispanic, API	2016	22.5	2020	8.2	-19.7	Improving	======				8.2	-36.4	Better
	Non-Hispanic, Black	2016	33.8	2020	14.9	-15.8	No change	======				14.9	15.5	Same
Income	Fourth quartile (highest income)	2016	27.8	2020	11.4	-17.2	No change	======		======	======	======	======	======
	First quartile (lowest income)	2016	46.6	2020	17.5	-18.8	Improving	======		Fourth quartile (highest income)	11.4	17.5	53.5	Worse
	Second quartile	2016	36.0	2020	13.9	-18.3	No change	======				13.9	21.9	Same
	Third quartile	2016	34.1	2020	13.6	-17.1	No change	======				13.6	19.3	Same
Metropolitan status	Large fringe metro	2016	32.8	2020	13.8	-16.9	No change	======		======	======	======	======	======
	Large central metro	2016	42.2	2020	16.8	-17.4	No change	======		Large fringe metro	13.8	16.8	21.7	Same
	Medium metro	2016	38.5	2020	14.6	-18.1	No change	======				14.6	5.8	Same
	Small metro	2016	28.0	2020	10.7	-18.4	No change	======				10.7	-22.5	Same

Population Category	Subgroup	Baseline Year	Baseline Estimate	Current Year	Current Estimate	Average Annual Change %	Change Over Time	Years to Benchmark		Reference Group	Estimate for Reference Group	Estimate for Comparison Group	Relative Difference	Disparities
	Micropolitan	2016	30.7	2020	10.6	-20.7	Improving	======				10.6	-23.2	Better
	Noncore	2016	34.3	2020	10.8	-22.3	Improving	======				10.8	-21.7	Same
Age	3 months - 4 years	2016	88.6	2020	32.5	-18.7	No change	======		======	======	======	======	======
	5-9	2016	24.3	2020	9.0	-19.3	Improving	======		3 months - 4 years	32.5	9.0	-72.3	Better
	10-14	2016	13.3	2020	5.8	-16.7	Improving	======				5.8	-82.2	Better
	15-17	2016	15.4	2020	8.8	-12.1	Improving	======				8.8	-72.9	Better
Gender	Male	2016	38.7	2020	15.0	-17.9	No change	======		======	======	======	======	======
	Female	2016	34.2	2020	13.4	-18.0	No change	======		Male	15.0	13.4	-10.7	Same

------ : Data were not available or reliable for the analysis. Subgroups without valid data in any year are not listed.

====== : Not applicable.

This measure is a core measure. More information and data are available at https://datatools.ahrq.gov/nhqdr.