AHRQ Quality Indicators

Prevention Quality Indicators in Inpatient Settings (PQI) Benchmark Data Tables, v2025

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Introduction

The data presented in this document are nationwide comparative rates for Version 2025 of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators (QI) Prevention Quality Indicators in Inpatient Settings (PQI) software. The numerators, denominators, and observed rates shown in this document are based on an analysis of discharge data from the 2022 AHRQ Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID).[1]

HCUP is a family of healthcare databases and related software tools and products developed through a Federal-State-Industry partnership. HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. The SID contains all-payer, encounter-level information on inpatient discharges, including clinical and resource information typically found on a billing record, such as patient demographics, up to 30 *International Classification of Diseases, Tenth Revision, Clinical Modification/Procedural Classification System (ICD-10-CM/PCS)* diagnoses and procedures, length of stay, expected payer, admission and discharge dates, and discharge disposition. In 2022, the HCUP databases represented more than 97 percent of all annual discharges in the United States.[2]

The analytic dataset used to generate the tables in this document consists of the same hospital discharge records that comprise the reference population for Version 2025 of the AHRQ QI software. This reference population file was limited to community hospitals and also excludes rehabilitation and long-term acute care (LTAC) hospitals. Information on the type of hospital was obtained by the American Hospital Association (AHA) Annual Survey of Hospitals. AHA defines community hospitals as "all non-Federal, short-term, general, and other specialty hospitals, excluding hospital units of institutions." Included among community hospitals are specialty hospitals such as obstetrics-gynecology, ear-nose-throat, orthopedic, and pediatric institutions. Also included are public hospitals and academic medical centers.

The 2022 HCUP SID includes information on all inpatient discharges from hospitals in participating States. Discharges from all 47 participating States and District of Columbis in 2022 are used to develop area-level indicators.[3] Additional information on the reference population and the risk adjustment process may be found in Quality Indicator Empirical Methods, available on the AHRQ QI website (http://www.qualityindicators.ahrq.gov/modules/Default.aspx).

The QI observed rates for area-level indicators are per 100,000 population. Cell sizes less than 11 are suppressed due to confidentiality and are designated by an asterisk (*). When only one data point in a series must be suppressed due to cell sizes, another data point is provided as a range to disallow calculation of the masked variable. In some cases, numerators, denominators, or rates are not applicable for the category due to the exclusion criteria in the specification of the indicator and are designated by dashes (--).

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[1]Healthcare Cost and Utilization Project (HCUP) 2022 State Inpatient Databases (SID). Agency for Healthcare Research and Quality, Rockville, MD.

[2] Introduction to the HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). January 2025. Agency for Healthcare Research and Quality, Rockville, MD. https://hcup-us.ahrq.gov/db/state/siddist/Introduction_to_SID.pdf

[3] States with data from 2022 SID included in the area-level reference populations include: AK, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, and WY.

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Table 1. Prevention Quality Indicators in Inpatient Settings (PQI) For Overall Population: Area-Level

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
PQI 01	Diabetes Short-Term Complications Admission Rate	208,567	252,709,953	82.53
PQI 03	Diabetes Long-Term Complications Admission Rate	285,861	252,710,037	113.12
PQI 05	Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate	314,282	157,046,377	200.12
PQI 07	Hypertension Admission Rate	146,251	252,709,946	57.87
PQI 08	Heart Failure Admission Rate	1,022,376	252,711,525	404.56
PQI 11	Community-Acquired Pneumonia Admission Rate	308,414	252,710,446	122.04
PQI 12	Urinary Tract Infection Admission Rate	268,466	252,710,307	106.23
PQI 14	Uncontrolled Diabetes Admission Rate	89,681	252,709,943	35.49
PQI 15	Asthma in Younger Adults Admission Rate	18,185	95,663,773	19.01
PQI 16	Lower-Extremity Amputation Among Patients With Diabetes Rate	91,266	252,709,949	36.11
PQI 90	Prevention Quality Overall Composite	2,702,365	252,716,188	1,069.33
PQI 91	Prevention Quality Acute Composite	576,880	252,711,143	228.28
PQI 92	Prevention Quality Chronic Composite	2,125,515	252,713,160	841.08
PQI 93	Prevention Quality Diabetes Composite	624,838	252,710,167	247.25

Table 2. PQI 01 - Diabetes Short-Term Complications Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	208,567	252,709,953	82.53
Females	97,460	128,798,491	75.67
Males	111,107	123,911,462	89.67
18 to 39 years	88,586	95,663,789	92.60
40 to 64 years	85,591	101,312,512	84.48
65 to 74 years	21,617	32,937,300	65.63
75+ years	12,773	22,796,352	56.03

Table 3. PQI 03 - Diabetes Long-Term Complications Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	285,861	252,710,037	113.12
Females	100,565	128,798,506	78.08
Males	185,296	123,911,531	149.54
18 to 39 years	20,434	95,663,773	21.36
40 to 64 years	147,921	101,312,539	146.00
65 to 74 years	69,717	32,937,321	211.67
75+ years	47,789	22,796,404	209.63

Table 4. PQI 05 - Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	314,282	157,046,377	200.12
Females	186,500	81,678,741	228.33
Males	127,782	75,367,636	169.54
40 to 64 years	125,601	101,312,531	123.97
65 to 74 years	99,325	32,937,367	301.56
75+ years	89,356	22,796,479	391.97

Table 5. PQI 07 - Hypertension Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	146,251	252,709,946	57.87
Females	80,975	128,798,489	62.87
Males	65,276	123,911,457	52.68
18 to 39 years	14,676	95,663,774	15.34
40 to 64 years	63,058	101,312,506	62.24
65 to 74 years	28,737	32,937,299	87.25
75+ years	39,780	22,796,367	174.50

Table 6. PQI 08 - Heart Failure Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	1,022,376	252,711,525	404.56
Females	484,948	128,799,266	376.51
Males	537,428	123,912,259	433.72
18 to 39 years	29,332	95,663,775	30.66
40 to 64 years	288,466	101,312,613	284.73
65 to 74 years	237,812	32,937,495	722.01
75+ years	466,766	22,797,642	2,047.43

Table 7. PQI 11 - Community-Acquired Pneumonia Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	308,414	252,710,446	122.04
Females	164,344	128,798,694	127.60
Males	144,070	123,911,752	116.27
18 to 39 years	13,266	95,663,775	13.87
40 to 64 years	77,555	101,312,542	76.55
65 to 74 years	75,282	32,937,392	228.56
75+ years	142,311	22,796,737	624.26

Table 8. PQI 12 - Urinary Tract Infection Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	268,466	252,710,307	106.23
Females	193,065	128,798,770	149.90
Males	75,401	123,911,537	60.85
18 to 39 years	17,848	95,663,776	18.66
40 to 64 years	47,275	101,312,517	46.66
65 to 74 years	52,568	32,937,316	159.60
75+ years	150,775	22,796,698	661.39

Table 9. PQI 14 - Uncontrolled Diabetes Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	89,681	252,709,943	35.49
Females	43,872	128,798,486	34.06
Males	45,809	123,911,457	36.97
18 to 39 years	9,531	95,663,774	9.96
40 to 64 years	34,029	101,312,505	33.59
65 to 74 years	21,025	32,937,303	63.83
75+ years	25,096	22,796,361	110.09

Table 10. PQI 15 - Asthma in Younger Adults Admission Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	18,185	95,663,773	19.01
Females	11,727	47,119,840	24.89
Males	6,458	48,543,933	13.30
18 to 39 years	18,185	95,663,773	19.01

Table 11. PQI 16 - Lower-Extremity Amputation Among Patients With Diabetes Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	91,266	252,709,949	36.11
Females	24,093	128,798,479	18.71
Males	67,173	123,911,470	54.21
18 to 39 years	3,488	95,663,773	3.65
40 to 64 years	49,835	101,312,513	49.19
65 to 74 years	24,056	32,937,303	73.04
75+ years	13,887	22,796,360	60.92

Table 12. PQI 90 - Prevention Quality Overall Composite*

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	2,702,365	252,716,188	1,069.33
Females	1,374,200	128,801,697	1,066.91
Males	1,328,165	123,914,491	1,071.84
18 to 39 years	213,645	95,663,799	223.33
40 to 64 years	892,244	101,313,069	880.68
65 to 74 years	616,417	32,938,472	1,871.42
75+ years	980,059	22,800,848	4,298.34

*PQI 90 Composite includes PQI 01, 03, 05, 07, 08, 11, 12, 14, 15 and 16.

Table 13. PQI 91 - Prevention Quality Acute Composite*

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	576,880	252,711,143	228.28
Females	357,409	128,799,186	277.49
Males	219,471	123,911,957	177.12
18 to 39 years	31,114	95,663,778	32.52
40 to 64 years	124,830	101,312,568	123.21
65 to 74 years	127,850	32,937,443	388.16
75+ years	293,086	22,797,354	1,285.61

*PQI 91 Composite includes PQI 11 and 12.

Table 14. PQI 92 - Prevention Quality Chronic Composite*

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	2,125,515	252,713,160	841.08
Females	1,016,804	128,799,986	789.44
Males	1,108,711	123,913,174	894.75
18 to 39 years	182,531	95,663,794	190.80
40 to 64 years	767,423	101,312,874	757.48
65 to 74 years	488,580	32,937,947	1,483.33
75+ years	686,981	22,798,545	3,013.27

*PQI 92 Composite includes PQI 01, 03, 05, 07, 08, 14, 15 and 16.

Table 15. PQI 93 - Prevention Quality Diabetic Composite*

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 POPULATION
Overall	624,838	252,710,167	247.25
Females	252,765	128,798,562	196.25
Males	372,073	123,911,605	300.27
18 to 39 years	120,349	95,663,790	125.80
40 to 64 years	290,497	101,312,581	286.73
65 to 74 years	122,845	32,937,347	372.97
75+ years	91,147	22,796,449	399.83

*PQI 93 Composite includes PQI 01, 03, 14 and 16.