



INPATIENT QUALITY INDICATORS™ v6.0 ICD-9-CM BENCHMARK DATA TABLES

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Introduction

The data presented in this document are nationwide comparative rates for Version 6.0 of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Inpatient Quality Indicators (IQI) software. The numerators, denominators and observed rates shown in this document are based on an analysis of discharge data from the AHRQ Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases.

HCUP is a family of health care databases and related software tools and products developed through a Federal-State-industry partnership¹. HCUP¹ 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, Ninth Revision, Clinical Modification diagnoses and procedures, length of stay, expected payer, admission and discharge dates, and discharge disposition. In 2013, the HCUP databases represented more than 97 percent of all annual discharges in the United States.

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 6.0 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.

¹Healthcare Cost and Utilization Project (HCUP) 2013 State Inpatient Databases (SID). Agency for Healthcare Research and Quality, Rockville, MD.

Provider-Level Indicators (IQI 01-IQI 25, IQI 30-IQI 34, IQI 90, IQI 91):

In 2013, 34 states of the SID include indicators of the diagnoses being present on admission (POA) and included the PRDAY data element. Discharges from these 34 participating States¹ are used to develop provider-level indicators. Edit checks on POA were developed during an HCUP evaluation of POA coding in the 2011 SID at hospitals that were required to report POA to CMS (<http://www.hcup-us.ahrq.gov/reports/methods/2015-06.pdf>). The edits identify general patterns of suspect reporting of POA. The edits do not evaluate whether a valid POA value (e.g., Y or N) is appropriate for the specific diagnosis. There are three hospital-level edit checks:

1. Indication that a hospital has POA reported as Y on all diagnoses on all discharges
2. Indication that a hospital has POA reported as missing on all non-Medicare discharges
3. Indication that a hospital reported POA as missing on all nonexempt diagnoses for 15 percent or more of discharges. The cut-point of 15 percent was determined by 2 times the standard deviation plus the mean of the percentage for hospitals that are required to report POA to CMS.

Area-Level Indicators (IQI 26-IQI 29):

The 2013 HCUP SID includes information on all inpatient discharges from hospitals in participating States. Discharges from all 40 participating States² are used to develop area-level indicators.

Additional information on the reference population and the risk adjustment process may be found in Quality Indicator Empirical Methods, available on the AHRQ QITM website (<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>).

The QI observed rates for provider-level indicators are scaled to the rate per 1,000 persons at risk and the area-level indicators are per 100,000 population. Volume and count indicator results are listed as simple counts with no scaling at all. 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 (--).

¹States in the 2013 reference population for the provider-level indicators include: AR, AZ, CA, CO, FL, GA, HI, IA, IL, IN, KS, KY, MD, MI, MN, MT, NC, ND, NE, NJ, NM, NV, NY, OH, OR, PA, SC, SD, TN, TX, VA, VT, WA, and WI.

²States in the 2013 reference population for the area-level indicators include: AR, AZ, CA, CO, CT, FL, GA, HI, IA, IL, IN, KS, KY, MD, MI, MN, MO, MT, NC, ND, NE, NJ, NM, NV, NY, OH, OK, OR, PA, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, and WY

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Table 1 Inpatient Quality Provider-Level Indicators for Overall Population

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1000 (=OBSERVED RATE x 1,000)
IQI 01	Esophageal Resection Volume, per 1,000 Admissions	4,370	--	--
IQI 02	Pancreatic Resection Volume, per 1,000 Admissions	13,231	--	--
IQI 02A	Pancreatic Resection Volume - Stratum A, per 1,000 Admissions	6,967	--	--
IQI 02B	Pancreatic Resection Volume - Stratum B, per 1,000 Admissions	6,264	--	--
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume, per 1,000 Admissions	30,767	--	--
IQI 04A	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum A, per 1,000 Admissions	1,136	--	--
IQI 04B	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum B, per 1,000 Admissions	3,446	--	--
IQI 04C	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum C, per 1,000 Admissions	1,484	--	--
IQI 04D	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum D, per 1,000 Admissions	24,701	--	--
IQI 05	Coronary Artery Bypass Graft (CABG) Volume, per 1,000 Admissions	152,475	--	--
IQI 06	Percutaneous Coronary Intervention (PCI) Volume, per 1,000 Admissions	386,353	--	--
IQI 07	Carotid Endarterectomy Volume, per 1,000 Admissions	67,678	--	--
IQI 08	Esophageal Resection Mortality Rate, per 1,000 Admissions	152	3,523	43.15
IQI 09	Pancreatic Resection Mortality Rate, per 1,000 Admissions	378	13,178	28.68
IQI 09A	Pancreatic Resection Mortality Rate - Stratum A, per 1,000 Admissions	228	6,939	32.86
IQI 09B	Pancreatic Resection Mortality Rate - Stratum B, per 1,000 Admissions	150	6,239	24.04

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1000 (=OBSERVED RATE x 1,000)
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate, per 1,000 Admissions	1,039	30,601	33.95
IQI 11A	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum A, per 1,000 Admissions	375	1,105	339.37
IQI 11B	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum B, per 1,000 Admissions	165	3,413	48.34
IQI 11C	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum C, per 1,000 Admissions	309	1,454	212.52
IQI 11D	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum D, per 1,000 Admissions	190	24,629	7.71
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate, per 1,000 Admissions	3,636	150,067	24.23
IQI 13	Craniotomy Mortality Rate, per 1,000 Admissions	6,144	107,470	57.17
IQI 14	Hip Replacement Mortality Rate, per 1,000 Admissions	131	252,727	0.52
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate, per 1,000 Admissions	22,812	424,728	53.71
IQI 16	Heart Failure Mortality Rate, per 1,000 Admissions	21,401	712,689	30.03
IQI 17	Acute Stroke Mortality Rate, per 1,000 Admissions	34,500	434,384	79.42
IQI 17A	Acute Stroke Mortality Rate - Stratum A, per 1,000 Admissions	3,651	17,271	211.39
IQI 17B	Acute Stroke Mortality Rate - Stratum B, per 1,000 Admissions	15,369	72,333	212.48
IQI 17C	Acute Stroke Mortality Rate - Stratum C, per 1,000 Admissions	15,480	344,780	44.9
IQI 18	Gastrointestinal Hemorrhage Mortality Rate, per 1,000 Admissions	8,615	386,774	22.27
IQI 19	Hip Fracture Mortality Rate, per 1,000 Admissions	4,669	198,469	23.53
IQI 20	Pneumonia Mortality Rate, per 1,000 Admissions	21,648	634,951	34.09
IQI 21	Cesarean Delivery Rate - Uncomplicated, per 1,000 Admissions	785,320	2,617,817	299.99

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1000 (=OBSERVED RATE x 1,000)
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate - Uncomplicated, per 1,000 Admissions	47,936	455,112	105.33
IQI 23	Laparoscopic Cholecystectomy Rate, per 1,000 Admissions	199,383	229,839	867.49
IQI 24	Incidental Appendectomy in the Elderly Rate, per 1,000 Admissions	3,282	311,357	10.54
IQI 25	Bilateral Cardiac Catheterization Rate, per 1,000 Admissions	8,006	697,122	11.48
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate, per 1,000 Admissions	8,635	374,229	23.07
IQI 31	Carotid Endarterectomy Mortality Rate, per 1,000 Admissions	291	67,471	4.31
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate - w/o Transfer Cases, per 1,000 Admissions	19,176	345,961	55.43
IQI 33	Primary Cesarean Delivery Rate - Uncomplicated, per 1,000 Admissions	378,144	2,162,705	174.85
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate - All, per 1,000 Admissions	53,330	511,624	104.24

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Table 2 Inpatient Quality Provider-Level Indicators for Overall Population

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1000 (=OBSERVED RATE x 1,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate, per 100,000 Population	163,571	136,013,058	120.26
IQI 27	Percutaneous Coronary Intervention (PCI) Rate, per 100,000 Population	409,102	136,017,335	300.77
IQI 28	Hysterectomy Rate, per 100,000 Population	182,045	112,880,740	161.27
IQI 29	Laminectomy or Spinal Fusion Rate, per 100,000 Population	513,543	219,826,188	233.61

Provider-Level Indicators

Table 3. IQI 01- Esophageal Resection Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	4,370	--	--
Females	1,038	--	--
Males	3,332	--	--
18 to 39 years	152	--	--
40 to 64 years	2,133	--	--
65 to 74 years	1,496	--	--
75+ years	589	--	--
Private	1,767	--	--
Medicare	2,076	--	--
Medicaid	345	--	--
Other	107	--	--
Uninsured (self-pay/no charge)	75	--	--

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Table 4. IQI 02- Pancreatic Resection Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	13,231	--	--
Females	6,695	--	--
Males	6,536	--	--
18 to 39 years	1,003	--	--
40 to 64 years	5,943	--	--
65 to 74 years	3,965	--	--
75+ years	2,320	--	--
Private	5,197	--	--
Medicare	6,166	--	--
Medicaid	947	--	--
Other	402	--	--
Uninsured (self-pay/no charge)	519	--	--

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Table 4A. IQI 02A - Pancreatic Resection Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	6,967	--	--
Females	3,327	--	--
Males	3,640	--	--
18 to 39 years	137	--	--
40 to 64 years	2,762	--	--
65 to 74 years	2,437	--	--
75+ years	1,631	--	--
Private	2,374	--	--
Medicare	3,828	--	--
Medicaid	395	--	--
Other	173	--	--
Uninsured (self-pay/no charge)	197	--	--

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Table 4B. IQI 02B - Pancreatic Resection Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	6,264	--	--
Females	3,368	--	--
Males	2,896	--	--
18 to 39 years	866	--	--
40 to 64 years	3,181	--	--
65 to 74 years	1,528	--	--
75+ years	689	--	--
Private	2,823	--	--
Medicare	2,338	--	--
Medicaid	552	--	--
Other	229	--	--
Uninsured (self-pay/no charge)	322	--	--

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Table 5. IQI 04 - Abdominal Aortic Aneurysm (AAA) Repair Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	30,767	--	--
Females	6,506	--	--
Males	24,261	--	--
18 to 39 years	39	--	--
40 to 64 years	4,936	--	--
65 to 74 years	11,864	--	--
75+ years	13,928	--	--
Private	4,912	--	--
Medicare	24,284	--	--

Medicaid	641	--	--
Other	519	--	--
Uninsured (self-pay/no charge)	411	--	--

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Table 5A. IQI 04A - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum A

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,136	--	--
Females	257	--	--
Males	879	--	--
18 to 39 years	*****	--	--
40 to 64 years	253 - 262 †	--	--
65 to 74 years	399	--	--
75+ years	475	--	--
Private	208	--	--
Medicare	798	--	--
Medicaid	49	--	--
Other	29	--	--
Uninsured (self-pay/no charge)	52	--	--

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† Range provided to preserve small sample size masking

Table 5B. IQI 04B - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum B

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	3,446	--	--
Females	1,047	--	--
Males	2,399	--	--
18 to 39 years	25	--	--
40 to 64 years	924	--	--
65 to 74 years	1,407	--	--
75+ years	1,090	--	--
Private	824	--	--
Medicare	2,359	--	--
Medicaid	113	--	--
Other	74	--	--
Uninsured (self-pay/no charge)	76	--	--

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Table 5C. IQI 04C - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum C

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,484	--	--
Females	308	--	--
Males	1,176	--	--
18 to 39 years	*****	--	--
40 to 64 years	258 - 267 †	--	--
65 to 74 years	501	--	--
75+ years	722	--	--
Private	229	--	--
Medicare	1,134	--	--
Medicaid	43	--	--
Other	31	--	--
Uninsured (self-pay/no charge)	47	--	--

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***** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 5D. IQI 04D - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum D

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	24,701	--	--
Females	4,894	--	--
Males	19,807	--	--
18 to 39 years	*****	--	--
40 to 64 years	3,497 - 3,506 †	--	--
65 to 74 years	9,557	--	--
75+ years	11,641	--	--
Private	3,651	--	--
Medicare	19,993	--	--
Medicaid	436	--	--
Other	385	--	--
Uninsured (self-pay/no charge)	236	--	--

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***** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 6. IQI 05 - Coronary Artery Bypass Graft (CABG) Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	152,475	--	--
Females	40,475	--	--
Males	112,000	--	--
18 to 39 years	1,257	--	--
40 to 64 years	61,327	--	--
65 to 74 years	53,171	--	--

75+ years	36,720	--	--
Private	44,896	--	--
Medicare	87,352	--	--
Medicaid	8,369	--	--
Other	4,592	--	--
Uninsured (self-pay/no charge)	7,266	--	--

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Table 7. IQI 06 - Percutaneous Coronary Intervention (PCI) Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	386,353	--	--
Females	126,198	--	--
Males	260,155	--	--
18 to 39 years	7,539	--	--
40 to 64 years	181,998	--	--
65 to 74 years	104,698	--	--
75+ years	92,118	--	--
Private	115,387	--	--
Medicare	203,244	--	--
Medicaid	25,371	--	--
Other	12,988	--	--
Uninsured (self-pay/no charge)	29,363	--	--

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Table 8. IQI 07 - Carotid Endarterectomy Volume

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	67,678	--	--
Females	28,013	--	--
Males	39,665	--	--
18 to 39 years	55	--	--
40 to 64 years	15,628	--	--
65 to 74 years	26,443	--	--
75+ years	25,552	--	--
Private	12,332	--	--
Medicare	50,650	--	--
Medicaid	2,296	--	--
Other	1,054	--	--
Uninsured (self-pay/no charge)	1,346	--	--

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Table 9. IQI 08 - Esophageal Resection Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	152	3,523	43.15
Females	27	627	43.06
Males	125	2,896	43.16
18 to 39 years	*****	54	*****
40 to 64 years	45 - 54 †	1,695	26.55 - 31.86 †
65 to 74 years	70	1,296	54.01
75+ years	32	478	66.95
Private	33	1,445	22.84
Medicare	101	1,712	59
Medicaid	15	240	62.5
Other	*****	77	*****
Uninsured (self-pay/no charge)	*****	49	*****

*** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 10. IQI 09 - Pancreatic Resection Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	378	13,178	28.68
Females	142	6,674	21.28
Males	236	6,504	36.29
18 to 39 years	30	997	30.09
40 to 64 years	119	5,923	20.09
65 to 74 years	127	3,951	32.14
75+ years	102	2,307	44.21
Private	85	5,180	16.41
Medicare	223	6,142	36.31
Medicaid	30	942	31.85
Other	15	396	37.88
Uninsured (self-pay/no charge)	25	518	48.26

Table 10A. IQI 09A - Pancreatic Resection Mortality Rate - Stratum A

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	228	6,939	32.86
Females	88	3,313	26.56
Males	140	3,626	38.61
18 to 39 years	*****	135	*****
40 to 64 years	70 - 79 †	2,753	25.43 - 28.70 †
65 to 74 years	88	2,427	36.26
75+ years	67	1,624	41.26
Private	53	2,368	22.38
Medicare	148	3,814	38.8
Medicaid	14	393	35.62

Other	****	167	****
Uninsured (self-pay/no charge)	****	197	****

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 10B. IQI 09B - Pancreatic Resection Mortality Rate - Stratum B

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	150	6,239	24.04
Females	54	3,361	16.07
Males	96	2,878	33.36
18 to 39 years	29	862	33.64
40 to 64 years	47	3,170	14.83
65 to 74 years	39	1,524	25.59
75+ years	35	683	51.24
Private	25 - 34 †	2,812	8.89 - 12.09 †
Medicare	75	2,328	32.22
Medicaid	16	549	29.14
Other	****	229	****
Uninsured (self-pay/no charge)	18	321	56.07

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 11. IQI 11 - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,039	30,601	33.95
Females	321	6,470	49.61
Males	718	24,131	29.75
18 to 39 years	****	37	****
40 to 64 years	123 - 132 †	4,909	25.06 - 26.89 †
65 to 74 years	335	11,809	28.37
75+ years	569	13,846	41.09
Private	119	4,889	24.34
Medicare	843	24,175	34.87
Medicaid	34	635	53.54
Other	16	496	32.26
Uninsured (self-pay/no charge)	27	406	66.5

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 11A. IQI 11A - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum A

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	375	1,105	339.37
Females	102	254	401.57
Males	273	851	320.8
18 to 39 years	*****	*****	*****
40 to 64 years	57 - 66 †	240 - 249	237.50 - 265.06 †
65 to 74 years	115	386	297.93
75+ years	202	466	433.48
Private	42 - 51 †	199	211.06 - 256.28 †
Medicare	287	782	367.01
Medicaid	16	48	333.33
Other	*****	25	*****
Uninsured (self-pay/no charge)	18	51	352.94

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 11B. IQI 11B - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum B

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	165	3,413	48.34
Females	68	1,036	65.64
Males	97	2,377	40.81
18 to 39 years	*****	24	*****
40 to 64 years	33 - 42 †	917	35.99 - 45.80 †
65 to 74 years	68	1,395	48.75
75+ years	60	1,077	55.71
Private	24	816	29.41
Medicare	129	2,343	55.06
Medicaid	*****	110	*****
Other	*****	68	*****
Uninsured (self-pay/no charge)	*****	76	*****

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 11C. IQI 11C - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum C

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	309	1,454	212.52
Females	78	305	255.74
Males	231	1,149	201.04
18 to 39 years	*****	*****	*****
40 to 64 years	19 - 28 †	251 - 260 †	75.70 - 107.69 †

65 to 74 years	95	491	193.48
75+ years	186	706	263.46
Private	33	228	144.74
Medicare	260	1,112	233.81
Medicaid	*****	42	*****
Other	*****	26	*****
Uninsured (self-pay/no charge)	*****	46	*****

-- Indicates Not Applicable

† Range provided to preserve small sample size masking

Table 11D. IQI 11D - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum D

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	190	24,629	7.71
Females	73	4,875	14.97
Males	117	19,754	5.92
18 to 39 years	*****	*****	*****
40 to 64 years	*****	*****	*****
65 to 74 years	57	9,537	5.98
75+ years	121	11,597	10.43
Private	14	3,646	3.84
Medicare	167	19,938	8.38
Medicaid	*****	435	*****
Other	*****	377	*****
Uninsured (self-pay/no charge)	*****	233	*****

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 12. IQI 12 - Coronary Artery Bypass Graft (CABG) Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	3,636	150,067	24.23
Females	1,402	39,736	35.28
Males	2,234	110,331	20.25
40 to 64 years	948	60,896	15.57
65 to 74 years	1,174	52,769	22.25
75+ years	1,514	36,402	41.59
Private	643	44,035	14.6
Medicare	2,588	86,611	29.88
Medicaid	188	7,998	23.51
Other	77	4,418	17.43
Uninsured (self-pay/no charge)	140	7,005	19.99

Table13. IQI 13 - Craniotomy Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	6,144	107,470	57.17
Females	2,844	57,685	49.3
Males	3,300	49,785	66.29
18 to 39 years	411	17,029	24.14
40 to 64 years	2,835	50,564	56.07
65 to 74 years	1,368	22,981	59.53
75+ years	1,530	16,896	90.55
Private	1,572	42,817	36.71
Medicare	2,967	43,276	68.56
Medicaid	785	11,749	66.81
Other	214	3,788	56.49
Uninsured (self-pay/no charge)	606	5,840	103.77

Table 14. IQI 14 - Hip Replacement Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	131	252,727	0.52
Females	75	140,958	0.53
Males	56	111,769	0.5
18 to 39 years	*****	3,928	*****
40 to 64 years	14 - 23 †	112,231	0.12 - 0.20 †
65 to 74 years	32	80,761	0.4
75+ years	78	55,807	1.4
Private	20	102,013	0.2
Medicare	102	133,530	0.76
Medicaid	*****	8,103	*****
Other	*****	6,724	*****
Uninsured (self-pay/no charge)	*****	2,357	*****

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 15. IQI 15 - Acute Myocardial Infarction (AMI) Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	22,812	424,728	53.71
Females	9,994	162,695	61.43
Males	12,818	262,033	48.92
18 to 39 years	133	9,208	14.44
40 to 64 years	4,869	174,501	27.9
65 to 74 years	4,960	100,111	49.55

75+ years	12,850	140,908	91.19
Private	2,979	108,092	27.56
Medicare	17,076	243,857	70.02
Medicaid	1,045	26,823	38.96
Other	606	13,321	45.49
Uninsured (self-pay/no charge)	1,106	32,635	33.89

Table 16. IQI 16 - Heart Failure Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	21,401	712,689	30.03
Females	10,450	349,066	29.94
Males	10,951	363,623	30.12
18 to 39 years	208	16,184	12.85
40 to 64 years	2,613	184,218	14.18
65 to 74 years	3,708	150,645	24.61
75+ years	14,872	361,642	41.12
Private	2,200	77,237	28.48
Medicare	17,229	533,831	32.27
Medicaid	843	57,955	14.55
Other	759	15,066	50.38
Uninsured (self-pay/no charge)	370	28,600	12.94

Table 17. IQI 17 - Acute Stroke Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	34,500	434,384	79.42
Females	18,187	220,824	82.36
Males	16,313	213,560	76.39
18 to 39 years	770	11,268	68.34
40 to 64 years	8,921	136,778	65.22
65 to 74 years	6,649	97,093	68.48
75+ years	18,160	189,245	95.96
Private	5,744	81,901	70.13
Medicare	22,561	281,335	80.19
Medicaid	2,358	31,659	74.48
Other	1,694	12,063	140.43
Uninsured (self-pay/no charge)	2,143	27,426	78.14

Table 17A. IQI 17A - Acute Stroke Mortality Rate - Stratum A

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	3,651	17,271	211.39
Females	2,252	10,584	212.77
Males	1,399	6,687	209.21
18 to 39 years	243	1,716	141.61
40 to 64 years	1,652	9,197	179.62
65 to 74 years	690	3,013	229.01
75+ years	1,066	3,345	318.68
Private	910	6,089	149.45
Medicare	1,710	6,439	265.57
Medicaid	440	2,112	208.33
Other	172	704	244.32
Uninsured (self-pay/no charge)	419	1,927	217.44

Table 17B. IQI 17B - Acute Stroke Mortality Rate - Stratum B

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	15,369	72,333	212.48
Females	7,484	33,037	226.53
Males	7,885	39,296	200.66
18 to 39 years	370	2,460	150.41
40 to 64 years	4,444	23,097	192.41
65 to 74 years	3,152	15,506	203.28
75+ years	7,403	31,270	236.74
Private	2,600	13,713	189.6
Medicare	9,861	45,350	217.44
Medicaid	1,109	6,037	183.7
Other	692	2,438	283.84
Uninsured (self-pay/no charge)	1,107	4,795	230.87

Table 17C. IQI 17C - Acute Stroke Mortality Rate - Stratum C

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	15,480	344,780	44.9
Females	8,451	177,203	47.69
Males	7,029	167,577	41.94
18 to 39 years	157	7,092	22.14
40 to 64 years	2,825	104,484	27.04
65 to 74 years	2,807	78,574	35.72
75+ years	9,691	154,630	62.67
Private	2,234	62,099	35.97
Medicare	10,990	229,546	47.88
Medicaid	809	23,510	34.41

Other	830	8,921	93.04
Uninsured (self-pay/no charge)	617	20,704	29.8

Table 18. IQI 18 - Gastrointestinal Hemorrhage Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	8,615	386,774	22.27
Females	3,945	186,799	21.12
Males	4,670	199,975	23.35
18 to 39 years	106	20,841	5.09
40 to 64 years	2,004	114,256	17.54
65 to 74 years	1,684	82,296	20.46
75+ years	4,821	169,381	28.46
Private	1,027	65,237	15.74
Medicare	6,336	259,289	24.44
Medicaid	629	29,260	21.5
Other	266	10,497	25.34
Uninsured (self-pay/no charge)	357	22,491	15.87

Table 19. IQI 19 - Hip Fracture Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	4,669	198,469	23.53
Females	2,704	142,944	18.92
Males	1,965	55,525	35.39
65 to 74 years	434	35,163	12.34
75+ years	4,235	163,306	25.93
Private	243	10,623	22.87
Medicare	4,302	182,781	23.54
Medicaid	32	1,670	19.16
Other	71	2,523	28.14
Uninsured (self-pay/no charge)	21	872	24.08

Table 20. IQI 20 - Pneumonia Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	21,648	634,951	34.09
Females	10,863	335,913	32.34
Males	10,785	299,038	36.07
18 to 39 years	348	41,666	8.35
40 to 64 years	3,370	184,594	18.26
65 to 74 years	4,159	129,267	32.17
75+ years	13,771	279,424	49.28
Private	2,575	100,657	25.58

Medicare	17,020	435,797	39.05
Medicaid	1,003	54,724	18.33
Other	679	14,217	47.76
Uninsured (self-pay/no charge)	371	29,556	12.55

Table 21. IQI 21 - Cesarean Delivery Rate - Uncomplicated

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	785,320	2,617,817	299.99
Females	785,320	2,617,817	299.99
0 to 17 years	9,123	53,422	170.77
18 to 39 years	742,462	2,490,335	298.14
40 to 64 years	33,735	74,060	455.51
Private	407,549	1,318,358	309.13
Medicare	6,552	17,844	367.18
Medicaid	328,047	1,127,293	291
Other	21,570	78,644	274.27
Uninsured (self-pay/no charge)	21,602	75,678	285.45

Table 22. IQI 22 - Vaginal Birth After Cesarean (VBAC) Delivery Rate - Uncomplicated

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	47,936	455,112	105.33
Females	47,936	455,112	105.33
0 to 17 years	63	618	101.94
18 to 39 years	45,942	433,681	105.94
40 to 64 years	1,931	20,813	92.78
Private	23,121	221,973	104.16
Medicare	374	3,955	94.56
Medicaid	21,210	202,460	104.76
Other	1,548	12,781	121.12
Uninsured (self-pay/no charge)	1,683	13,943	120.71

Table 23. IQI 23 - Laparoscopic Cholecystectomy Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	199,383	229,839	867.49
Females	127,217	142,189	894.7
Males	72,166	87,650	823.34
18 to 39 years	57,825	60,969	948.43
40 to 64 years	83,983	96,839	867.24
65 to 74 years	29,220	36,563	799.17
75+ years	28,355	35,468	799.45
Private	74,458	83,643	890.19

Medicare	62,497	77,703	804.31
Medicaid	28,696	31,641	906.92
Other	8,147	9,182	887.28
Uninsured (self-pay/no charge)	25,585	27,670	924.65

Table 24. IQI 24 - Incidental Appendectomy in the Elderly Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	3,282	311,357	10.54
Females	1,948	176,693	11.02
Males	1,334	134,664	9.91
65 to 74 years	1,991	170,192	11.7
75+ years	1,291	141,165	9.15
Private	343	29,122	11.78
Medicare	2,864	273,011	10.49
Medicaid	28	4,312	6.49
Other	34	3,104	10.95
Uninsured (self-pay/no charge)	13	1,808	7.19

Table 25. IQI 25 - Bilateral Cardiac Catheterization Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	8,006	697,122	11.48
Females	3,037	254,664	11.93
Males	4,969	442,458	11.23
18 to 39 years	161	13,617	11.82
40 to 64 years	3,490	312,595	11.16
65 to 74 years	2,370	195,007	12.15
75+ years	1,985	175,903	11.28
Private	2,110	186,907	11.29
Medicare	4,568	388,539	11.76
Medicaid	646	49,942	12.94
Other	263	22,068	11.92
Uninsured (self-pay/no charge)	419	49,666	8.44

Table 26. IQI 30 - Percutaneous Coronary Intervention (PCI) Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	8,635	374,229	23.07
Females	3,389	122,855	27.59
Males	5,246	251,374	20.87
40 to 64 years	2,601	179,779	14.47
65 to 74 years	2,404	103,442	23.24
75+ years	3,630	91,008	39.89
Private	1,457	110,647	13.17

Medicare	5,860	200,381	29.24
Medicaid	516	23,497	21.96
Other	212	12,367	17.14
Uninsured (self-pay/no charge)	590	27,337	21.58

Table 27. IQI 31 - Carotid Endarterectomy Mortality Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	291	67,471	4.31
Females	124	27,939	4.44
Males	167	39,532	4.22
18 to 39 years	*****	55	*****
40 to 64 years	55 - 64 †	15,578	3.53 - 4.11 †
65 to 74 years	108	26,372	4.1
75+ years	127	25,466	4.99
Private	40	12,302	3.25
Medicare	224	50,502	4.44
Medicaid	16	2,287	7
Other	*****	1,039	*****
Uninsured (self-pay/no charge)	*****	1,341	*****

**** Obscured due to small sample size

† Range provided to preserve small sample size masking

Table 28. IQI 32 - Acute Myocardial Infarction (AMI) Mortality Rate - w/o Transfer Cases

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	19,176	345,961	55.43
Females	8,508	134,836	63.1
Males	10,668	211,125	50.53
18 to 39 years	103	7,491	13.75
40 to 64 years	3,943	140,074	28.15
65 to 74 years	3,980	79,118	50.3
75+ years	11,150	119,278	93.48
Private	2,426	86,649	28
Medicare	14,464	200,286	72.22
Medicaid	874	21,716	40.25
Other	488	10,565	46.19
Uninsured (self-pay/no charge)	924	26,745	34.55

Table 29. IQI 33 - Primary Cesarean Delivery Rate - Uncomplicated

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	378,144	2,162,705	174.85
Females	378,144	2,162,705	174.85
0 to 17 years	8,568	52,804	162.26
18 to 39 years	354,723	2,056,654	172.48
40 to 64 years	14,853	53,247	278.95
Private	208,697	1,096,385	190.35
Medicare	2,971	13,889	213.91
Medicaid	146,797	924,833	158.73
Other	10,337	65,863	156.95
Uninsured (self-pay/no charge)	9,342	61,735	151.32

Table 30. IQI 34 - Vaginal Birth After Cesarean (VBAC) Rate - All

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	53,330	511,624	104.24
Females	53,330	511,624	104.24
0 to 17 years	83	715	116.08
18 to 39 years	51,026	486,309	104.93
40 to 64 years	2,221	24,600	90.28
Private	25,210	247,933	101.68
Medicare	450	4,604	97.74
Medicaid	24,019	229,008	104.88
Other	1,696	14,310	118.52
Uninsured (self-pay/no charge)	1,955	15,769	123.98

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Table 31. IQI 26 - Coronary Artery Bypass Graft (CABG) Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	163,571	136,013,058	120.26
Females	43,472	71,486,024	60.81
Males	120,099	64,527,034	186.12
40 to 64 years	66,561	95,139,561	69.96
64 to 74 years	57,433	23,037,209	249.31
75+ years	39,577	17,836,288	221.89

Table 32. IQI 27 - Percutaneous Coronary Intervention (PCI) Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	409,102	136,017,335	300.77
Females	134,581	71,487,242	188.26
Males	274,521	64,530,093	425.42
40 to 64 years	196,768	95,140,563	206.82
64 to 74 years	112,890	23,038,457	490.01
75+ years	99,444	17,838,315	557.47

Table 33. IQI 28 - Hysterectomy Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	182,045	112,880,740	161.27
Females	182,045	112,880,740	161.27
18 to 39 years	36,579	41,394,222	88.37
40 to 64 years	126,771	48,544,068	261.15
64 to 74 years	13,627	12,263,686	111.12
75+ years	5,068	10,678,764	47.46

Table 34. IQI 29 - Laminectomy or Spinal Fusion Rate

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	513,543	219,826,188	233.61
Females	260,561	112,881,939	230.83
Males	252,982	106,944,249	236.56
18 to 39 years	56,866	83,810,419	67.85
40 to 64 years	271,962	95,140,628	285.85
64 to 74 years	120,997	23,038,157	525.2
75+ years	63,718	17,836,984	357.22