



INPATIENT QUALITY INDICATOR v4.5 BENCHMARK DATA TABLES

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Introduction

The data presented in this document are nationwide comparative rates for the AHRQ QI™ Inpatient Quality Indicators (IQI). The rates are based on analysis of 44 states from the 2010 Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID)¹. HCUP is a family of health care databases and related software tools and products developed through a Federal-State-Industry partnership². 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 contain 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 (ICD-9-CM)* diagnoses and procedures, length of stay (LOS), expected payer, admission and discharge dates and discharge disposition. In 2010, the HCUP databases represent more than 95 percent of all annual discharges in the U.S. The dataset analyzed to generate the tables in this document consists of the same hospital discharge records that comprise the reference population for version 4.5 of the AHRQ QI.

The indicators are calculated using the QI software option that models the effect of missing present on admission (POA) data. The QI observed rate for provider-level indicators are scaled to the rate per 1,000 persons at risk and the area-level indicators are per 100,000. Volume and count indicator results are listed as simple counts with no scaling at all. Rates for any cells with 1-10 cases are not presented. Counts and rates in cells adjacent to cells with missing counts are obscured slightly to prevent back-calculation of the non-reported counts. The obscured counts are listed using a range of ten patients and the rates correspond to the obscured counts. For

¹ The states included in the analysis are Alaska, Arkansas, Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Iowa, Illinois, Indiana, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Missouri, Montana, North Carolina, Nebraska, New Jersey, New Mexico, Nevada, New York, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Vermont, Washington, Wisconsin, West Virginia, and Wyoming.

² The AHRQ QI program would like to acknowledge the HCUP Partner organizations that participated in the HCUP SID: **Alaska** State Hospital and Nursing Home Association, **Arizona** Department of Health Services, **Arkansas** Department of Health, **California** Office of Statewide Health Planning and Development, **Colorado** Hospital Association, **Connecticut** Hospital Association, **Florida** Agency for Health Care Administration, **Georgia** Hospital Association, **Hawaii** Health Information Corporation, **Illinois** Department of Public Health, **Indiana** Hospital Association, **Iowa** Hospital Association, **Kansas** Hospital Association, **Kentucky** Cabinet for Health and Family Services, **Louisiana** Department of Health and Hospitals, **Maine** Health Data Organization, **Maryland** Health Services Cost Review Commission, **Massachusetts** Center for Health Information and Analysis, **Michigan** Health & Hospital Association, **Minnesota** Hospital Association (provides data for Minnesota and North Dakota), **Mississippi** Department of Health, **Missouri** Hospital Industry Data Institute, **Montana** MHA - An Association of Montana Health Care Providers, **Nebraska** Hospital Association, **Nevada** Department of Health and Human Services, **New Hampshire** Department of Health & Human Services, **New Jersey** Department of Health, **New Mexico** Department of Health, **New York** State Department of Health, **North Carolina** Department of Health and Human Services, **North Dakota** (data provided by the Minnesota Hospital Association), **Ohio** Hospital Association, **Oklahoma** State Department of Health, **Oregon** Association of Hospitals and Health Systems, **Oregon** Health Policy and Research, **Pennsylvania** Health Care Cost Containment Council, **Rhode Island** Department of Health, **South Carolina** Budget & Control Board, **South Dakota** Association of Healthcare Organizations, **Tennessee** Hospital Association, **Texas** Department of State Health Services, **Utah** Department of Health, **Vermont** Association of Hospitals and Health Systems, **Virginia** Health Information, **Washington** State Department of Health, **West Virginia** Health Care Authority, **Wisconsin** Department of Health Services, **Wyoming** Hospital Association

additional detail about the AHRQ QI, consult the technical documentation at <http://www.qualityindicators.ahrq.gov>.

Table 1 lists the IQI figures calculated for the overall reference population. Subsequent tables each focus on a single indicator and present the overall figures again, along with figures stratified by gender, age group, and expected payer.

Table 1. Inpatient Quality Indicators (IQI) For Overall Population

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
PROVIDER-LEVEL INDICATORS				
IQI #1	Esophageal Resection Volume	5,295		
IQI #2	Pancreatic Resection Volume	15,247		
IQI #2A	Pancreatic Resection Volume - Stratum A	8,154		
IQI #2B	Pancreatic Resection Volume - Stratum B	7,093		
IQI #4	Abdominal Aortic Aneurysm (AAA) Repair Volume	38,331		
IQI #4A	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum A	1,979		
IQI #4B	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum B	6,952		
IQI #4C	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum C	1,418		
IQI #4D	Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum D	28,056		
IQI #5	Coronary Artery Bypass Graft (CABG) Volume	213,436		
IQI #6	Percutaneous Coronary Intervention (PCI) Volume	575,002		
IQI #7	Carotid Endarterectomy Volume	94,534		
IQI #8	Esophageal Resection Mortality Rate	212	4,251	49.87
IQI #9	Pancreatic Resection Mortality Rate	530	15,148	34.99
IQI #9A	Pancreatic Resection Mortality Rate - Stratum A	321	8,108	39.59
IQI #9B	Pancreatic Resection Mortality Rate - Stratum B	209	7,040	29.69
IQI #11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	1,585	38,078	41.63
IQI #11A	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum A	723	1,929	374.81
IQI #11B	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum B	324	6,892	47.01
IQI #11C	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum C	316	1,380	228.99
IQI #11D	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum D	245	27,949	8.77
IQI #12	Coronary Artery Bypass Graft (CABG) Mortality Rate	5,381	209,540	25.68
IQI #13	Craniotomy Mortality Rate	7,370	125,889	58.54
IQI #14	Hip Replacement Mortality Rate	240	253,296	0.95
IQI #15	Acute Myocardial Infarction (AMI) Mortality Rate	30,546	506,717	60.28
IQI #16	Heart Failure Mortality Rate	30,179	930,572	32.43
IQI #17	Acute Stroke Mortality Rate	45,284	501,039	90.38
IQI #17A	Acute Stroke Mortality Rate - Stratum A	4,870	21,777	223.63
IQI #17B	Acute Stroke Mortality Rate - Stratum B	20,163	87,338	230.86
IQI #17C	Acute Stroke Mortality Rate - Stratum C	20,247	391,920	51.66
IQI #18	Gastrointestinal Hemorrhage Mortality Rate	10,842	459,619	23.59
IQI #19	Hip Fracture Mortality Rate	6,484	236,113	27.46

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INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
IQI #20	Pneumonia Mortality Rate	32,553	832,701	39.09
IQI #21	Cesarean Delivery Rate, Uncomplicated	965,026	3,215,769	300.09
IQI #22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	48,244	531,079	90.84
IQI #23	Laparoscopic Cholecystectomy Rate	265,335	314,352	844.07
IQI #24	Incidental Appendectomy in the Elderly Rate	4,312	394,124	10.94
IQI #25	Bilateral Cardiac Catheterization Rate	14,156	1,000,212	14.15
IQI #30	Percutaneous Coronary Intervention (PCI) Mortality Rate	9,788	558,552	17.52
IQI #31	Carotid Endarterectomy Mortality Rate	374	94,190	3.97
IQI #32	Acute Myocardial Infarction (AMI) Mortality Rate, w/o Transfer Cases	25,730	404,190	63.66
IQI #33	Primary Cesarean Delivery Rate, Uncomplicated	482,191	2,684,690	179.61
IQI #34	Vaginal Birth After Cesarean (VBAC) Rate, All	54,409	603,143	90.21
AREA-LEVEL INDICATORS				
IQI #26	Coronary Artery Bypass Graft (CABG) Rate	209,955	143,111,339	146.71
IQI #27	Percutaneous Coronary Intervention (PCI) Rate	560,334	143,125,210	391.50
IQI #28	Hysterectomy Rate	348,112	120,851,596	288.05
IQI #29	Laminectomy or Spinal Fusion Rate	588,578	234,883,069	250.58

Provider-Level Indicators

Table 2. IQI #1 - Esophageal Resection Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	5,295		
Females	1,178		
Males	4,117		
18 to 39 years	182		
40 to 64 years	2,731		
65 to 74 years	1,667		
75+ years	715		
Private	2,289		
Medicare	2,312		
Medicaid	445		
Other	156		
Uninsured (self-pay/no charge)	93		

Table 3. IQI #2 - Pancreatic Resection Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	15,247		
Females	7,789		
Males	7,458		
18 to 39 years	1,139		
40 to 64 years	6,999		
65 to 74 years	4,332		
75+ years	2,777		
Private	6,436		
Medicare	6,762		
Medicaid	1,115		
Other	409		
Uninsured (self-pay/no charge)	525		

Table 4. IQI #2A - Pancreatic Resection Volume - Stratum A

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	8,154		
Females	3,941		
Males	4,213		
18 to 39 years	157		
40 to 64 years	3,342		
65 to 74 years	2,709		
75+ years	1,946		
Private	3,048		
Medicare	4,247		
Medicaid	489		
Other	168		
Uninsured (self-pay/no charge)	202		

Table 5. IQI #2B - Pancreatic Resection Volume - Stratum B

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	7,093		
Females	3,848		
Males	3,245		
18 to 39 years	982		
40 to 64 years	3,657		
65 to 74 years	1,623		
75+ years	831		
Private	3,388		
Medicare	2,515		
Medicaid	626		
Other	241		
Uninsured (self-pay/no charge)	323		

Table 6. IQI #4 - Abdominal Aortic Aneurysm (AAA) Repair Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	38,331		
Females	7,931		
Males	30,400		
18 to 39 years	49		
40 to 64 years	6,364		
65 to 74 years	14,647		
75+ years	17,271		
Private	7,030		
Medicare	29,306		
Medicaid	803		
Other	727		
Uninsured (self-pay/no charge)	465		

Table 7. IQI #4A - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum A

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	1,979		
Females	486		
Males	1,493		
18 to 39 years	*****		
40 to 64 years	366-375*		
65 to 74 years	702		
75+ years	901		
Private	381		
Medicare	1,418		
Medicaid	57		
Other	55		
Uninsured (self-pay/no charge)	68		

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 8. IQI #4B - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum B

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	6,952		
Females	1,926		
Males	5,026		
18 to 39 years	33		
40 to 64 years	1,668		
65 to 74 years	2,937		
75+ years	2,314		
Private	1,706		
Medicare	4,778		
Medicaid	204		
Other	144		
Uninsured (self-pay/no charge)	120		

Table 9. IQI #4C - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum C

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	1,418		
Females	334		
Males	1,084		
18 to 39 years	*****		
40 to 64 years	233-244		
65 to 74 years	444		
75+ years	729		
Private	246		
Medicare	1,070		
Medicaid	40		
Other	30		
Uninsured (self-pay/no charge)	32		

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 10. IQI #4D - Abdominal Aortic Aneurysm (AAA) Repair Volume - Stratum D

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	28,056		
Females	5,210		
Males	22,846		
18 to 39 years	12		
40 to 64 years	4,090		
65 to 74 years	10,588		
75+ years	13,366		
Private	4,709		
Medicare	22,098		
Medicaid	502		
Other	502		
Uninsured (self-pay/no charge)	245		

Table 11. IQI #5 - Coronary Artery Bypass Graft (CABG) Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	213,436		
Females	58,923		
Males	154,513		
18 to 39 years	1,907		
40 to 64 years	89,789		
65 to 74 years	70,289		
75+ years	51,451		
Private	69,121		
Medicare	116,256		
Medicaid	12,404		
Other	6,507		
Uninsured (self-pay/no charge)	9,148		

Table 12. IQI #6 - Percutaneous Coronary Intervention (PCI) Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	575,002		
Females	193,147		
Males	381,855		
18 to 39 years	11,118		
40 to 64 years	273,831		
65 to 74 years	153,038		
75+ years	137,015		
Private	189,851		
Medicare	293,690		
Medicaid	37,841		
Other	18,653		
Uninsured (self-pay/no charge)	34,967		

Table 13. IQI #7 - Carotid Endarterectomy Volume

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	94,534		
Females	39,515		
Males	55,019		
18 to 39 years	79		
40 to 64 years	22,785		
65 to 74 years	35,410		
75+ years	36,260		
Private	20,291		
Medicare	67,735		
Medicaid	3,311		
Other	1,626		
Uninsured (self-pay/no charge)	1,571		

Table 14. IQI #8 - Esophageal Resection Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	212	4,251	49.87
Females	41	747	54.89
Males	171	3,504	48.80
18 to 39 years	*****	66	*****
40 to 64 years	62-71*	2,199	28.19-32.29*
65 to 74 years	93	1,417	65.63
75+ years	47	569	82.60
Private	60	1,866	32.15
Medicare	130	1,902	68.35
Medicaid	15	306	49.02
Other	*****	113	*****
Uninsured (self-pay/no charge)	*****	64	*****

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 15. IQI #9 - Pancreatic Resection Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	530	15,148	34.99
Females	217	7,744	28.02
Males	313	7,404	42.27
18 to 39 years	45	1,116	40.32
40 to 64 years	158	6,967	22.68
65 to 74 years	170	4,309	39.45
75+ years	157	2,756	56.97
Private	128	6,401	20.00
Medicare	304	6,725	45.20
Medicaid	44	1,104	39.86
Other	24	395	60.76
Uninsured (self-pay/no charge)	30	523	57.36

Table 16. IQI #9A - Pancreatic Resection Mortality Rate - Stratum A

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	321	8,108	39.59
Females	142	3,917	36.25
Males	179	4,191	42.71
18 to 39 years	*****	155	*****
40 to 64 years	75-84*	3,329	22.53-25.23*
65 to 74 years	120	2,694	44.54
75+ years	116	1,930	60.10
Private	66	3,039	21.72
Medicare	218	4,222	51.63
Medicaid	17	487	34.91
Other	*****	159	*****
Uninsured (self-pay/no charge)	*****	201	*****

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 17. IQI #9B - Pancreatic Resection Mortality Rate - Stratum B

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	209	7,040	29.69
Females	75	3,827	19.60
Males	134	3,213	41.71
18 to 39 years	44	961	45.79
40 to 64 years	74	3,638	20.34
65 to 74 years	50	1,615	30.96
75+ years	41	826	49.64
Private	62	3,362	18.44
Medicare	86	2,503	34.36
Medicaid	27	617	43.76
Other	14	236	59.32
Uninsured (self-pay/no charge)	20	322	62.11

Table 18. IQI #11 - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	1,585	38,078	41.63
Females	510	7,878	64.74
Males	1,075	30,200	35.60
18 to 39 years	*****	47	*****
40 to 64 years	152-161*	6,318	24.06-25.48*
65 to 74 years	485	14,555	33.32
75+ years	938	17,158	54.67
Private	187	6,985	26.77
Medicare	1,300	29,141	44.61
Medicaid	35	796	43.97
Other	30	696	43.10
Uninsured (self-pay/no charge)	33	460	71.74

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 19. IQI #11A - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum A

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	723	1,929	374.81
Females	204	479	425.89
Males	519	1,450	357.93
18 to 39 years	0	0	0
40 to 64 years	95	364	260.99
65 to 74 years	222	684	324.56
75+ years	406	881	460.84
Private	104	373	278.82
Medicare	568	1,387	409.52
Medicaid	15	54	277.78
Other	16	48	333.33
Uninsured (self-pay/no charge)	20	67	298.51

Table 20. IQI #11B - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum B

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	324	6,892	47.01
Females	121	1,912	63.28
Males	203	4,980	40.76
18 to 39 years	*****	33	*****
40 to 64 years	18-27*	1,658	10.86-16.28*
65 to 74 years	115	2,913	39.48
75+ years	181	2,288	79.11
Private	31	1,695	18.29
Medicare	279	4,737	58.90
Medicaid	*****	202	*****
Other	*****	138	*****
Uninsured (self-pay/no charge)	*****	120	*****

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 21. IQI #11C - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum C

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	316	1,380	228.99
Females	104	321	323.99
Males	212	1,059	200.19
18 to 39 years	0	*****	*****
40 to 64 years	28	228-237*	118.14-122.81*
65 to 74 years	83	433	191.69
75+ years	205	709	289.14
Private	34	238	142.86
Medicare	260	1,045	248.80
Medicaid	11	38	289.47
Other	*****	28	*****
Uninsured (self-pay/no charge)	*****	31	*****

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 22. IQI #11D - Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate - Stratum D

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000
Overall	245	27,949	8.77
Females	93	5,191	17.92
Males	152	22,758	6.68
18 to 39 years	*****	11	*****
40 to 64 years	4-13*	4,071	0.98-3.19*
65 to 74 years	72	10,549	6.83
75+ years	159	13,318	11.94
Private	24	4,690	5.12
Medicare	210	22,029	9.53
Medicaid	*****	502	*****
Other	*****	486	*****
Uninsured (self-pay/no charge)	*****	242	*****

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 23. IQI #12 - Coronary Artery Bypass Graft (CABG) Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	5,381	209,540	25.68
Females	2,181	57,736	37.78
Males	3,200	151,804	21.08
18 to 39 years	0	0	0
40 to 64 years	1,342	89,100	15.06
65 to 74 years	1,689	69,662	24.25
75+ years	2,350	50,778	46.28
Private	937	67,833	13.81
Medicare	3,872	114,939	33.69
Medicaid	275	11,863	23.18
Other	122	6,125	19.92
Uninsured (self-pay/no charge)	175	8,780	19.93

Table 24. IQI #13 - Craniotomy Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	7,370	125,889	58.54
Females	3,575	68,014	52.56
Males	3,795	57,875	65.57
18 to 39 years	540	21,466	25.16
40 to 64 years	3,440	61,329	56.09
65 to 74 years	1,580	24,097	65.57
75+ years	1,810	18,997	95.28
Private	2,065	54,570	37.84
Medicare	3,465	46,214	74.98
Medicaid	848	14,402	58.88
Other	318	4,694	67.75
Uninsured (self-pay/no charge)	674	6,009	112.17

Table 25. IQI #14 - Hip Replacement Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	240	253,296	0.95
Females	118	143,255	0.82
Males	122	110,041	1.11
18 to 39 years	*****	4,524	*****
40 to 64 years	30-39*	112,012	0.27-0.35*
65 to 74 years	63	74,693	0.84
75+ years	137	62,067	2.21
Private	32	104,722	0.31
Medicare	200	132,345	1.51
Medicaid	*****	8,119	*****
Other	*****	6,215	*****
Uninsured (self-pay/no charge)	0	1,895	0.00

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 26. IQI #15 - Acute Myocardial Infarction (AMI) Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	30,546	506,717	60.28
Females	14,295	201,091	71.09
Males	16,251	305,626	53.17
18 to 39 years	198	11,799	16.78
40 to 64 years	6,038	207,576	29.09
65 to 74 years	6,047	109,130	55.41
75+ years	18,263	178,212	102.48
Private	4,036	137,501	29.35
Medicare	23,037	285,496	80.69
Medicaid	1,433	32,555	44.02
Other	710	15,752	45.07
Uninsured (self-pay/no charge)	1,330	35,413	37.56

Table 27. IQI #16 - Heart Failure Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	30,179	930,572	32.43
Females	15,127	470,062	32.18
Males	15,052	460,510	32.69
18 to 39 years	265	20,626	12.85
40 to 64 years	3,588	231,283	15.51
65 to 74 years	4,817	188,878	25.50
75+ years	21,509	489,785	43.92
Private	3,287	111,652	29.44
Medicare	24,194	694,888	34.82
Medicaid	1,165	74,511	15.64
Other	978	17,899	54.64
Uninsured (self-pay/no charge)	555	31,622	17.55

Table 28. IQI #17 - Acute Stroke Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	45,284	501,039	90.38
Females	24,571	260,631	94.28
Males	20,713	240,408	86.16
18 to 39 years	972	13,530	71.84
40 to 64 years	11,348	156,173	72.66
65 to 74 years	8,278	104,751	79.03
75+ years	24,686	226,585	108.95
Private	8,068	102,197	78.95
Medicare	29,647	318,971	92.95
Medicaid	3,001	37,957	79.06
Other	1,850	13,369	138.38
Uninsured (self-pay/no charge)	2,718	28,545	95.22

Table 29. IQI #17A - Acute Stroke Mortality Rate - Stratum A

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	4,870	21,777	223.63
Females	3,093	13,386	231.06
Males	1,777	8,391	211.77
18 to 39 years	330	2,273	145.18
40 to 64 years	2,267	11,916	190.25
65 to 74 years	905	3,482	259.91
75+ years	1,368	4,106	333.17
Private	1,404	8,334	168.47
Medicare	2,158	7,556	285.60
Medicaid	544	2,812	193.46
Other	232	919	252.45
Uninsured (self-pay/no charge)	532	2,156	246.75

Table 30. IQI #17B - Acute Stroke Mortality Rate - Stratum B

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	20,163	87,338	230.86
Females	10,040	40,737	246.46
Males	10,123	46,601	217.23
18 to 39 years	426	2,906	146.59
40 to 64 years	5,683	27,357	207.73
65 to 74 years	3,951	17,611	224.35
75+ years	10,103	39,464	256.01
Private	3,550	17,832	199.08
Medicare	12,992	54,176	239.81
Medicaid	1,495	7,420	201.48
Other	731	2,629	278.05
Uninsured (self-pay/no charge)	1,395	5,281	264.15

Table 31. IQI #17C - Acute Stroke Mortality Rate - Stratum C

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	20,247	391,920	51.66
Females	11,436	206,506	55.38
Males	8,811	185,414	47.52
18 to 39 years	216	8,351	25.87
40 to 64 years	3,397	116,899	29.06
65 to 74 years	3,421	83,657	40.89
75+ years	13,213	183,013	72.20
Private	3,113	76,030	40.94
Medicare	14,495	257,237	56.35
Medicaid	962	27,725	34.70
Other	887	9,821	90.32
Uninsured (self-pay/no charge)	791	21,108	37.47

Table 32. IQI #18 - Gastrointestinal Hemorrhage Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	10,842	459,619	23.59
Females	5,086	226,631	22.44
Males	5,756	232,988	24.71
18 to 39 years	134	25,963	5.16
40 to 64 years	2,384	135,664	17.57
65 to 74 years	1,867	91,982	20.30
75+ years	6,457	206,010	31.34
Private	1,412	86,301	16.36
Medicare	8,009	300,553	26.65
Medicaid	753	35,256	21.36
Other	292	12,342	23.66
Uninsured (self-pay/no charge)	376	25,167	14.94

Table 33. IQI #19 - Hip Fracture Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	6,484	236,113	27.46
Females	3,769	171,934	21.92
Males	2,715	64,179	42.30
65 to 74 years	556	37,918	14.66
75+ years	5,928	198,195	29.91
Private	428	15,326	27.93
Medicare	5,849	214,564	27.26
Medicaid	57	2,346	24.30
Other	123	2,934	41.92
Uninsured (self-pay/no charge)	27	943	28.63

Table 34. IQI #20 - Pneumonia Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	32,553	832,701	39.09
Females	16,189	441,311	36.68
Males	16,364	391,390	41.81
18 to 39 years	484	60,750	7.97
40 to 64 years	5,072	243,885	20.80
65 to 74 years	5,893	161,438	36.50
75+ years	21,104	366,628	57.56
Private	3,954	149,147	26.51
Medicare	25,469	553,322	46.03
Medicaid	1,650	75,145	21.96
Other	920	19,785	46.50
Uninsured (self-pay/no charge)	560	35,302	15.86

Table 35. IQI #21 - Cesarean Delivery Rate, Uncomplicated

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	965,026	3,215,769	300.09
Females	964,962	3,215,528	300.09
Males	64	241	265.56
0 to 17 years	17,044	92,848	183.57
18 to 39 years	909,307	3,037,281	299.38
40 to 64 years	38,675	85,640	451.60
Private	493,772	1,569,416	314.62
Medicare	6,122	16,224	377.34
Medicaid	411,728	1,434,297	287.06
Other	28,021	101,106	277.14
Uninsured (self-pay/no charge)	25,383	94,726	267.96

Table 36. IQI #22 - Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	48,244	531,079	90.84
Females	48,235-48,244*	531,043	90.83-90.84*
Males	*****	36	*****
0 to 17 years	137	1,439	95.21
18 to 39 years	45,927	506,238	90.72
40 to 64 years	2,180	23,402	93.15
Private	23,228	261,553	88.81
Medicare	291	3,549	81.99
Medicaid	21,469	235,189	91.28
Other	1,371	15,109	90.74
Uninsured (self-pay/no charge)	1,885	15,679	120.22

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 37. IQI #23 - Laparoscopic Cholecystectomy Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	265,335	314,352	844.07
Females	174,414	198,975	876.56
Males	90,921	115,377	788.03
18 to 39 years	79,488	84,909	936.16
40 to 64 years	110,966	131,783	842.04
65 to 74 years	36,580	47,478	770.46
75+ years	38,301	50,182	763.24
Private	108,239	123,994	872.94
Medicare	79,961	103,738	770.80
Medicaid	37,890	42,635	888.71
Other	10,850	12,648	857.84
Uninsured (self-pay/no charge)	28,395	31,337	906.12

Table 38. IQI #24 - Incidental Appendectomy in the Elderly Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	4,312	394,124	10.94
Females	2,480	228,964	10.83
Males	1,832	165,160	11.09
65 to 74 years	2,537	207,230	12.24
75+ years	1,775	186,894	9.50
Private	474	40,232	11.78
Medicare	3,718	341,812	10.88
Medicaid	55	6,059	9.08
Other	50	3,774	13.25
Uninsured (self-pay/no charge)	15	2,247	6.68

Table 39. IQI #25 - Bilateral Cardiac Catheterization Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	14,156	1,000,212	14.15
Females	5,404	373,864	14.45
Males	8,752	626,348	13.97
18 to 39 years	279	20,061	13.91
40 to 64 years	6,081	461,308	13.18
65 to 74 years	4,233	269,527	15.71
75+ years	3,563	249,316	14.29
Private	3,948	301,690	13.09
Medicare	8,033	534,371	15.03
Medicaid	1,111	72,857	15.25
Other	477	31,398	15.19
Uninsured (self-pay/no charge)	587	59,896	9.80

Table 40. IQI #30 - Percutaneous Coronary Intervention (PCI) Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	9,788	558,552	17.52
Females	4,073	188,800	21.57
Males	5,715	369,752	15.46
40 to 64 years	3,002	271,052	11.08
65 to 74 years	2,504	151,742	16.50
75+ years	4,282	135,758	31.54
Private	1,782	182,723	9.75
Medicare	6,587	290,565	22.67
Medicaid	568	35,304	16.09
Other	238	17,539	13.57
Uninsured (self-pay/no charge)	613	32,421	18.91

Table 41. IQI #31 - Carotid Endarterectomy Mortality Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	374	94,190	3.97
Females	137	39,369	3.48
Males	237	54,821	4.32
18 to 39 years	*****	77	*****
40 to 64 years	61-70*	22,698	2.69-3.08*
65 to 74 years	105	35,288	2.98
75+ years	198	36,127	5.48
Private	47	20,228	2.32
Medicare	291	67,491	4.31
Medicaid	17	3,294	5.16
Other	*****	1,611	*****
Uninsured (self-pay/no charge)	9-18	1,566	5.75-7.02

***** Cells entries based on counts between 0 and 11 are not reported.

* Cell entry obscured slightly to prevent back-calculation of small cells.

Table 42. IQI #32 - Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	25,730	404,190	63.66
Females	12,307	164,121	74.99
Males	13,423	240,069	55.91
18 to 39 years	150	9,158	16.38
40 to 64 years	4,808	160,838	29.89
65 to 74 years	4,808	84,198	57.10
75+ years	15,964	149,996	106.43
Private	3,297	107,195	30.76
Medicare	19,600	231,322	84.73
Medicaid	1,185	25,674	46.16
Other	568	12,205	46.54
Uninsured (self-pay/no charge)	1,080	27,794	38.86

Table 43. IQI #33 - Primary Cesarean Delivery Rate, Uncomplicated

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	482,191	2,684,690	179.61
Females	482,161	2,684,485	179.61
Males	30	205	146.34
0 to 17 years	15,742	91,409	172.21
18 to 39 years	448,996	2,531,043	177.40
40 to 64 years	17,453	62,238	280.42
Private	255,447	1,307,863	195.32
Medicare	2,864	12,675	225.96
Medicaid	198,008	1,199,108	165.13
Other	14,283	85,997	166.09
Uninsured (self-pay/no charge)	11,589	79,047	146.61

Table 44. IQI #34 - Vaginal Birth After Cesarean (VBAC) Rate, All

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	54,409	603,143	90.21
Females	54,407	603,105	90.21
0 to 17 years	166	1,622	102.34
18 to 39 years	51,724	573,566	90.18
40 to 64 years	2,519	27,955	90.11
Private	25,601	295,436	86.65
Medicare	363	4,309	84.24
Medicaid	24,712	268,285	92.11
Other	1,548	17,224	89.87
Uninsured (self-pay/no charge)	2,185	17,889	122.14

Area-Level Indicators

Table 45. IQI #26 - Coronary Artery Bypass Graft (CABG) Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	209,955	143,111,339	146.71
Females	57,966	75,371,460	76.91
Males	151,989	67,739,879	224.37
40 to 64 years	89,123	102,673,297	86.80
65 to 74 years	69,751	21,841,707	319.35
75+ years	51,081	18,596,335	274.68

Table 46. IQI #27 - Percutaneous Coronary Intervention (PCI) Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	560,334	143,125,210	391.50
Females	189,362	75,375,427	251.23
Males	370,972	67,749,783	547.56
40 to 64 years	271,907	102,676,462	264.82
65 to 74 years	152,060	21,846,527	696.04
75+ years	136,367	18,602,221	733.07

Table 47. IQI #28 - Hysterectomy Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	348,112	120,851,596	288.05
Females	348,112	120,851,596	288.05
18 to 39 years	81,313	45,478,073	178.80
40 to 64 years	237,632	52,391,046	453.57
65 to 74 years	20,690	11,680,091	177.14
75+ years	8,477	11,302,386	75.00

Table 48. IQI #29 - Laminectomy or Spinal Fusion Rate

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	588,578	234,883,069	250.58
Females	299,408	120,851,889	247.75
Males	289,170	114,031,180	253.59
18 to 39 years	78,947	91,767,905	86.03
40 to 64 years	321,720	102,675,022	313.34
65 to 74 years	118,497	21,843,036	542.49
75+ years	69,414	18,597,106	373.25