



# **PATIENT SAFETY 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™ Patient Safety Indicators (PSI). 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)<sup>1</sup>. HCUP is a family of health care databases and related software tools and products developed through a Federal-State-Industry partnership<sup>2</sup>. 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. 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 additional

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<sup>1</sup> 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.

<sup>2</sup> 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

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

Table 1 lists the PSI 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. Patient Safety Indicators (PSI) For Overall Population**

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE* 1,000)
<b>PROVIDER-LEVEL INDICATORS</b>				
PSI #2	Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)	1,899	7,087,602	0.27
PSI #3	Pressure Ulcer Rate	2,919	7,274,219	0.40
PSI #4	Death Rate among Surgical Inpatients with Serious Treatable Complications	26,915	227,003	118.57
PSI #4A	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A	3,001	37,564	79.89
PSI #4B	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B	12,366	119,371	103.59
PSI #4C	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C	8,841	37,146	238.01
PSI #4D	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D	8,751	24,213	361.42
PSI #4E	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E	2,852	40,186	70.97
PSI #5	Retained Surgical Item or Unretrieved Device Fragment Count	930		
PSI #6	Iatrogenic Pneumothorax Rate	9,241	24,588,032	0.38
PSI #7	Central Venous Catheter-Related Blood Stream Infection Rate	8,571	20,009,470	0.43
PSI #8	Postoperative Hip Fracture Rate	144	4,580,796	0.03
PSI #9	Perioperative Hemorrhage or Hematoma Rate	41,659	7,104,092	5.86
PSI #10	Postoperative Physiologic and Metabolic Derangement Rate	2,013	4,047,667	0.50
PSI #11	Postoperative Respiratory Failure Rate	28,677	3,331,983	8.61
PSI #12	Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate	33,176	7,357,011	4.51
PSI #13	Postoperative Sepsis Rate	9,549	796,070	12.00
PSI #14	Postoperative Wound Dehiscence Rate	2,102	1,138,278	1.85
PSI #15	Accidental Puncture or Laceration Rate	62,411	25,488,300	2.45
PSI #16	Transfusion Reaction Count	67		
PSI #17	Birth Trauma Rate – Injury to Neonate	7,501	3,571,903	2.10
PSI #18	Obstetric Trauma Rate – Vaginal Delivery With Instrument	25,121	180,580	139.11
PSI #19	Obstetric Trauma Rate – Vaginal Delivery Without Instrument	50,330	2,240,822	22.46
<b>AREA-LEVEL INDICATORS</b>				
PSI #21	Retained Surgical Item or Unretrieved Device Fragment Rate	2,227	234,874,974	0.95
PSI #22	Iatrogenic Pneumothorax Rate	16,083	234,874,974	6.85

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INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE* 1,000)
PSI #23	Central Venous Catheter-Related Blood Stream Infection Rate	24,879	234,874,974	10.59
PSI #24	Postoperative Wound Dehiscence Rate	3,955	234,874,974	1.68
PSI #25	Accidental Puncture or Laceration Rate	79,201	234,874,974	33.72
PSI #26	Transfusion Reaction Rate	117	234,874,974	0.05
PSI #27	Perioperative Hemorrhage or Hematoma Rate	89,367	234,874,974	38.05

**Table 2. PSI #2 - Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	1,899	7,087,602	0.27
Females	1,189	5,850,286	0.20
Males	710	1,237,316	0.57
0 to 17 years	*****	118,127	*****
18 to 39 years	441-450*	4,675,819	0.09-0.10*
40 to 64 years	416	1,579,382	0.26
65 to 74 years	217	315,630	0.69
75+ years	815	398,644	2.04
Private	341	2,952,236	0.12
Medicare	1,092	1,065,117	1.03
Medicaid	314	2,361,250	0.13
Other	63	307,956	0.20
Uninsured (self-pay/no charge)	89	401,043	0.22

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

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

**Table 3. PSI #3 - Pressure Ulcer Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	2,919	7,274,219	0.40
Females	1,339	3,878,722	0.35
Males	1,581	3,395,498	0.47
18 to 39 years	148	845,709	0.18
40 to 64 years	909	2,614,054	0.35
65 to 74 years	628	1,383,304	0.45
75+ years	1,234	2,431,152	0.51
Private	480	1,593,401	0.30
Medicare	1,888	4,214,206	0.45
Medicaid	379	848,447	0.45
Other	80	253,686	0.32
Uninsured (self-pay/no charge)	92	364,479	0.25

**Table 4. PSI #4 - Death Rate among Surgical Inpatients with Serious Treatable Complications**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	26,915	227,003	118.57
Females	11,778	111,000	106.11
Males	15,137	116,003	130.49
18 to 39 years	1,138	18,896	60.22
40 to 64 years	8,087	82,944	97.50
65 to 74 years	6,743	55,928	120.57
75+ years	10,945	69,127	158.33
Private	5,298	61,334	86.38
Medicare	17,575	128,541	136.73
Medicaid	2,189	21,267	102.93
Other	709	7,347	96.50
Uninsured (self-pay/no charge)	1,144	8,514	134.37

**Table 5. PSI #4A - Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	3,001	37,564	79.89
Females	1,337	18,995	70.39
Males	1,664	18,569	89.61
0 to 17 years	0	*****	0
18 to 39 years	146	3,057-3,066*	47.62-47.76*
40 to 64 years	978	14,766	66.23
65 to 74 years	805	9,662	83.32
75+ years	1,072	10,069	106.47
Private	729	11,939	61.06
Medicare	1,856	19,828	93.61
Medicaid	229	3,206	71.43
Other	85	1,310	64.89
Uninsured (self-pay/no charge)	102	1,281	79.63

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

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

**Table 6. PSI #4B - Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	12,366	119,371	103.59
Females	5,059	56,344	89.79
Males	7,307	63,027	115.93
0 to 17 years	0	79	0.00
18 to 39 years	458	10,326	44.35
40 to 64 years	3,289	41,231	79.77
65 to 74 years	2,955	28,032	105.42
75+ years	5,664	39,703	142.66
Private	2,258	30,466	74.12
Medicare	8,291	68,504	121.03
Medicaid	924	11,664	79.22
Other	331	3,842	86.15
Uninsured (self-pay/no charge)	562	4,895	114.81



**Table 7. PSI #4C - Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	8,841	37,146	238.01
Females	3,854	17,069	225.79
Males	4,987	20,077	248.39
0 to 17 years	0	13	0.00
18 to 39 years	287	2,737	104.86
40 to 64 years	2,440	13,521	180.46
65 to 74 years	2,387	9,261	257.75
75+ years	3,727	11,614	320.91
Private	1,693	9,260	182.83
Medicare	5,936	21,498	276.12
Medicaid	739	3,941	187.52
Other	200	1,088	183.82
Uninsured (self-pay/no charge)	273	1,359	200.88

**Table 8. PSI #4D - Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	8,751	24,213	361.42
Females	4,081	12,628	323.17
Males	4,670	11,585	403.11
0 to 17 years	*****	16	*****
18 to 39 years	502-511*	2,537	197.87-201.42*
40 to 64 years	3,013	9,084	331.68
65 to 74 years	2,178	5,859	371.74
75+ years	3,048	6,717	453.77
Private	1,811	6,478	279.56
Medicare	5,461	13,607	401.34
Medicaid	839	2,548	329.28
Other	247	733	336.97
Uninsured (self-pay/no charge)	393	847	463.99

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

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

**Table 9. PSI #4E - Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	2,852	40,186	70.97
Females	1,180	19,618	60.15
Males	1,672	20,568	81.29
0 to 17 years	0	*****	*****
18 to 39 years	92	22,243-2,252*	40.85-41.36*
40 to 64 years	963	15,385	62.59
65 to 74 years	774	11,120	69.60
75+ years	1,023	11,428	89.52
Private	545	10,743	50.73
Medicare	1,865	23,861	78.16
Medicaid	241	3,121	77.22
Other	66	1,238	53.31
Uninsured (self-pay/no charge)	135	1,223	110.38

\*\*\*\*\* 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. PSI #5 - Retained Surgical Item or Unretrieved Device Fragment Count**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	930		
Females	510		
Males	420		
18 to 39 years	220		
40 to 64 years	393		
65 to 74 years	176		
75+ years	139		
Private	344		
Medicare	341		
Medicaid	151		
Other	48		
Uninsured (self-pay/no charge)	46		

**Table 11. PSI #6 - Iatrogenic Pneumothorax Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	9,241	24,588,032	0.38
Females	5,479	13,294,886	0.41
Males	3,762	11,293,145	0.33
18 to 39 years	723	3,507,017	0.21
40 to 64 years	2,858	9,636,644	0.30
65 to 74 years	1,909	4,431,896	0.43
75+ years	3,751	7,012,474	0.53
Private	1,927	6,666,233	0.29
Medicare	5,845	12,624,535	0.46
Medicaid	890	2,796,231	0.32
Other	254	956,008	0.27
Uninsured (self-pay/no charge)	326	1,545,025	0.21

**Table 12. PSI #7 - Central Venous Catheter-Related Blood Stream Infection Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	8,571	20,009,470	0.43
Females	4,217	12,593,727	0.33
Males	4,354	7,415,743	0.59
18 to 39 years	1,360	5,774,369	0.24
40 to 64 years	3,633	6,507,753	0.56
65 to 74 years	1,582	2,815,850	0.56
75+ years	1,997	4,805,670	0.42
Private	1,973	6,078,223	0.32
Medicare	4,331	8,397,121	0.52
Medicaid	1,558	3,544,742	0.44
Other	299	785,734	0.38
Uninsured (self-pay/no charge)	411	1,203,651	0.34

**Table 13. PSI #8 - Postoperative Hip Fracture Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	144	4,580,796	0.03
Females	76	2,425,308	0.03
Males	68	2,155,488	0.03
18 to 39 years	*****	678,860	*****
40 to 64 years	23-32*	2,107,043	0.01-0.02*
65 to 74 years	29	928,827	0.03
75+ years	82	866,066	0.09
Private	14	1,816,151	0.01
Medicare	112	1,922,977	0.06
Medicaid	11	421,346	0.03
Other	*****	168,466	*****
Uninsured (self-pay/no charge)	*****	251,856	*****

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

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

**Table 14. PSI #9 - Perioperative Hemorrhage or Hematoma Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	41,659	7,104,092	5.86
Females	20,378	3,847,337	5.30
Males	21,281	3,256,755	6.53
18 to 39 years	4,422	903,300	4.90
40 to 64 years	17,927	3,176,540	5.64
65 to 74 years	9,581	1,524,477	6.28
75+ years	9,730	1,499,776	6.49
Private	14,538	2,739,456	5.31
Medicare	20,480	3,154,794	6.49
Medicaid	3,720	563,502	6.60
Other	1,491	320,867	4.65
Uninsured (self-pay/no charge)	1,430	325,473	4.39

**Table 15. PSI #10 - Postoperative Physiologic and Metabolic Derangement Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	2,013	4,047,667	0.50
Females	776	2,330,439	0.33
Males	1,238	1,717,229	0.72
18 to 39 years	95	414,824	0.23
40 to 64 years	772	1,931,024	0.40
65 to 74 years	610	973,569	0.63
75+ years	537	728,251	0.74
Private	591	1,781,481	0.33
Medicare	1,212	1,759,994	0.69
Medicaid	134	244,223	0.55
Other	46	177,140	0.26
Uninsured (self-pay/no charge)	31	84,830	0.37

**Table 16. PSI #11 - Postoperative Respiratory Failure Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	28,677	3,331,983	8.61
Females	14,761	2,053,765	7.19
Males	13,915	1,278,217	10.89
18 to 39 years	1,441	388,306	3.71
40 to 64 years	11,481	1,667,892	6.88
65 to 74 years	8,119	756,539	10.73
75+ years	7,636	519,246	14.71
Private	7,864	1,564,103	5.03
Medicare	17,225	1,329,765	12.95
Medicaid	2,203	206,976	10.64
Other	859	160,439	5.35
Uninsured (self-pay/no charge)	526	70,700	7.44

**Table 17. PSI #12 - Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	33,176	7,357,011	4.51
Females	16,214	3,961,810	4.09
Males	16,962	3,395,201	5.00
18 to 39 years	2,235	945,592	2.36
40 to 64 years	12,559	3,280,341	3.83
65 to 74 years	8,472	1,574,477	5.38
75+ years	9,911	1,556,602	6.37
Private	9,668	2,820,088	3.43
Medicare	18,305	3,270,250	5.60
Medicaid	2,832	589,248	4.81
Other	1,265	334,023	3.79
Uninsured (self-pay/no charge)	1,106	343,402	3.22

**Table 18. PSI #13 - Postoperative Sepsis Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	9,549	796,070	12.00
Females	4,592	438,085	10.48
Males	4,957	357,985	13.85
18 to 39 years	527	65,425	8.06
40 to 64 years	3,525	348,299	10.12
65 to 74 years	2,683	206,155	13.01
75+ years	2,814	176,191	15.97
Private	2,582	293,378	8.80
Medicare	5,809	394,840	14.71
Medicaid	717	54,239	13.22
Other	269	36,118	7.45
Uninsured (self-pay/no charge)	173	17,496	9.89

**Table 19. PSI #14 - Postoperative Wound Dehiscence Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	2,102	1,138,278	1.85
Females	719	709,640	1.01
Males	1,383	428,638	3.23
18 to 39 years	162	174,340	0.93
40 to 64 years	891	569,702	1.56
65 to 74 years	542	205,039	2.64
75+ years	507	189,197	2.68
Private	564	517,408	1.09
Medicare	1,121	405,956	2.76
Medicaid	239	109,295	2.19
Other	72	45,161	1.59
Uninsured (self-pay/no charge)	106	60,458	1.75

**Table 20. PSI #15 - Accidental Puncture or Laceration Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	62,411	25,488,300	2.45
Females	38,940	13,671,789	2.85
Males	23,471	11,816,512	1.99
18 to 39 years	6,999	3,569,786	1.96
40 to 64 years	28,698	9,877,100	2.91
65 to 74 years	13,122	4,649,903	2.82
75+ years	13,592	7,391,512	1.84
Private	24,073	6,837,400	3.52
Medicare	28,016	13,203,487	2.12
Medicaid	5,480	2,883,991	1.90
Other	2,396	956,327	2.51
Uninsured (self-pay/no charge)	2,446	1,607,096	1.52

**Table 21. PSI #16 - Transfusion Reaction Count**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	67		
Females	45		
Males	22		
0 to 17 years	*****		
18 to 39 years	20		
40 to 64 years	23		
65 to 74 years	13		
75+ years	*****		
Private	21		
Medicare	22		
Medicaid	16		
Other	*****		
Uninsured (self-pay/no charge)	*****		

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

**Table 22. PSI #17 - Birth Trauma Rate – Injury to Neonate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	7,501	3,571,903	2.10
Females	3,371	1,741,611	1.94
Males	4,130	1,830,292	2.26
<1 year	7,501	3,571,903	2.10
Private	3,644	1,684,279	2.16
Medicare	*****	4,397	*****
Medicaid	3,313-3,322*	1,626,294	2.04
Other	271	110,132	2.46
Uninsured (self-pay/no charge)	263	146,801	1.79

\*\*\*\*\* 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. PSI #18 - Obstetric Trauma Rate – Vaginal Delivery With Instrument**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	25,121	180,580	139.11
Females	25,111-25,120*	180,561	139.07-139.12*
Males	*****	19	*****
0 to 17 years	1,023	8,074	126.70
18 to 39 years	23,652	168,483	140.38
40 to 64 years	446	4,023	110.86
Private	15,816	93,960	168.33
Medicare	92	846	108.75
Medicaid	7,771	74,937	103.70
Other	807	6,059	133.19
Uninsured (self-pay/no charge)	635	4,778	132.90

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

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

**Table 24. PSI #19 - Obstetric Trauma Rate – Vaginal Delivery Without Instrument**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATE*1,000)
Overall	50,330	2,240,822	22.46
Females	50,320-50,329*	2,240,656	22.46
Males	*****	166	*****
0 to 17 years	1,997	74,912	26.66
18 to 39 years	47,553	2,118,326	22.45
40 to 64 years	780	47,584	16.39
Private	31,741	1,053,797	30.12
Medicare	137	10,568	12.96
Medicaid	15,472	1,033,254	14.97
Other	1,604	72,635	22.08
Uninsured (self-pay/no charge)	1,376	70,568	19.50

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

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

## Area-level Indicators

**Table 25. PSI #21 - Retained Surgical Item or Unretrieved Device Fragment Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	2,227	234,874,974	0.95
Females	1,255	120,848,090	1.04
Males	972	114,026,884	0.85
18 to 39 years	470	91,767,727	0.51
40 to 64 years	994	102,672,777	0.97
65 to 74 years	422	21,839,903	1.93
75+ years	341	18,594,567	1.83

**Table 26. PSI #22 - Iatrogenic Pneumothorax Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	16,083	234,874,974	6.85
Females	9,362	120,848,090	7.75
Males	6,721	114,026,884	5.89
18 to 39 years	1,253	91,767,727	1.37
40 to 64 years	5,277	102,672,777	5.14
65 to 74 years	3,741	21,839,903	17.13
75+ years	5,812	18,594,567	31.26

**Table 27. PSI #23 - Central Venous Catheter-Related Blood Stream Infection Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	24,879	234,874,974	10.59
Females	13,419	120,848,090	11.10
Males	11,460	114,026,884	10.05
18 to 39 years	5,410	91,767,727	5.90
40 to 64 years	11,212	102,672,777	10.92
65 to 74 years	3,832	21,839,903	17.55
75+ years	4,425	18,594,567	23.80

**Table 28. PSI #24 - Postoperative Wound Dehiscence Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	3,955	234,874,974	1.68
Females	1,546	120,848,090	1.28
Males	2,409	114,026,884	2.11
18 to 39 years	325	91,767,727	0.35
40 to 64 years	1,809	102,672,777	1.76
65 to 74 years	979	21,839,903	4.48
75+ years	842	18,594,567	4.53



**Table 29. PSI #25 - Accidental Puncture or Laceration Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	79,201	234,874,974	33.72
Females	49,555	120,848,090	41.01
Males	29,646	114,026,884	26.00
18 to 39 years	9,029	91,767,727	9.84
40 to 64 years	35,977	102,672,777	35.04
65 to 74 years	16,742	21,839,903	76.66
75+ years	17,453	18,594,567	93.86

**Table 30. PSI #26 - Transfusion Reaction Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	117	234,874,974	0.05
Females	74	120,848,090	0.06
Males	43	114,026,884	0.04
18 to 39 years	37	91,767,727	0.04
40 to 64 years	37	102,672,777	0.04
65 to 74 years	24	21,839,903	0.11
75+ years	19	18,594,567	0.10

**Table 31. PSI #27 - Perioperative Hemorrhage or Hematoma Rate**

GROUP	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATE*100,000)
Overall	89,367	234,874,974	38.05
Females	43,506	120,848,090	36.00
Males	45,861	114,026,884	40.22
18 to 39 years	10,090	91,767,727	11.00
40 to 64 years	37,008	102,672,777	36.04
65 to 74 years	20,275	21,839,903	92.83
75+ years	21,994	18,594,567	118.28