



# PATIENT SAFETY INDICATORS™ v5.0 BENCHMARK DATA TABLES

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## Introduction

The data presented in this document are nationwide comparative rates for the Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ QIs. The rates are based on analysis of 45 States from the 2012 AHRQ 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 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 2012, the HCUP databases represented more than 95 percent of all annual discharges in the United States. The dataset analyzed to generate the tables in this document consists of the same hospital discharge records that comprise the reference population for Version the 5.0 Version of the AHRQ QI software.

With Version 5.0 of the software, the indicators are no longer calculated using a software option that models the effect of missing present on admission data. 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. Volume and count indicator results are listed as simple counts with no scaling at all. Rates for any cells with 1 to 10 cases are not presented.

The tables below are calculated for the overall reference population.

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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

Table 1. Patient Safety Provider-Level Indicators for Overall Population

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
	<b>PROVIDER -LEVEL INDICATORS</b>			
PSI #2	Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)	1,822	5,636,599	0.32
PSI #3	Pressure Ulcer Rate	2,804	5,606,091	0.5
PSI #4	Death Rate among Surgical Inpatients with Serious Treatable Complications	22,014	185,587	118.62
PSI #4A	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A	1,258	26,659	47.19
PSI #4B	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B	6,151	81,902	75.1
PSI #4C	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C	5,622	28,088	200.16
PSI #4D	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D	7,706	22,388	344.2
PSI #4E	Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E	1,277	26,550	48.1
PSI #5	Retained Surgical Item or Unretrieved Device Fragment Count	973	.	.
PSI #6	Iatrogenic Pneumothorax Rate	6,418	19,129,500	0.34
PSI #7	Central Venous Catheter-Related Blood Stream Infection Rate	3,215	15,569,713	0.21
PSI #8	Postoperative Hip Fracture Rate	153	3,421,646	0.04
PSI #9	Perioperative Hemorrhage or Hematoma Rate	27,155	5,317,074	5.11
PSI #10	Postoperative Physiologic and Metabolic Derangement Rate	1,829	2,655,114	0.69
PSI #11	Postoperative Respiratory Failure Rate	22,402	2,228,418	10.05
PSI #12	Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate	28,370	5,689,423	4.99
PSI #13	Postoperative Sepsis Rate	4,822	501,689	9.61
PSI #14	Postoperative Wound Dehiscence Rate	1,559	836,248	1.86
PSI #15	Accidental Puncture or Laceration Rate	37,494	19,879,692	1.89
PSI #16	Transfusion Reaction Count	38	.	.
PSI #18	Obstetric Trauma Rate – Vaginal Delivery With Instrument	18,246	136,989	133.19
PSI #19	Obstetric Trauma Rate – Vaginal Delivery Without Instrument	39,324	1,875,164	20.97

**Table 2. Patient Safety Area-Level Indicators for Overall Population**

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
	<b>AREA-LEVEL INDICATORS</b>			
PSI #21	Retained Surgical Item or Unretrieved Device Fragment Rate	2,166	201,198,735	1.08
PSI #22	Iatrogenic Pneumothorax Rate	11,410	201,198,776	5.67
PSI #23	Central Venous Catheter-Related Blood Stream Infection Rate	10,615	201,198,758	5.28
PSI #24	Postoperative Wound Dehiscence Rate	2,972	201,198,741	1.48
PSI #25	Accidental Puncture or Laceration Rate	48,481	201,198,932	24.1
PSI #26	Transfusion Reaction Rate	133	201,198,731	0.07
PSI #27	Perioperative Hemorrhage or Hematoma Rate	61,560	201,198,953	30.6

**Table 3. PSI #2 - Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,822	5,636,599	0.32
Females	1,069	4,686,099	0.23
Males	753	950,500	0.79
0 to 17 years	*****	79,051	*****
18 to 39 years	239 - 248	3,742,951	0.06 - 0.07
40 to 64 years	329	1,159,902	0.28
65 to 74 years	223	284,354	0.78
75+ years	1,025	370,341	2.77
Private	273	2,291,898	0.12
Medicare	1,161	914,275	1.27
Medicaid	265	1,923,567	0.14
Other	62	225,474	0.27
Uninsured (self-pay/no charge)	61	281,385	0.22

**Table 4. PSI #3 – Pressure Ulcer Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	2,804	5,606,091	0.5
Females	1,217	2,966,101	0.41
Males	1,587	2,639,990	0.6
0 to 17 years	.	.	.
18 to 39 years	167	613,124	0.27
40 to 64 years	897	2,014,888	0.45
65 to 74 years	621	1,107,649	0.56
75+ years	1,119	1,870,430	0.6
Private	409	1,125,253	0.36
Medicare	1,824	3,329,882	0.55
Medicaid	383	676,120	0.57
Other	84	184,490	0.46
Uninsured (self-pay/no charge)	104	290,346	0.36

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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	22,014	185,587	118.62
Females	9,484	89,815	105.59
Males	12,530	95,772	130.83
0 to 17 years	*****	65	*****
18 to 39 years	1,004 - 1,013	16,173	62.08 - 62.64
40 to 64 years	7,030	68,454	102.7
65 to 74 years	5,486	45,932	119.44
75+ years	8,491	54,963	154.49
Private	4,058	46,612	87.06
Medicare	14,239	106,084	134.22
Medicaid	2,009	18,803	106.84
Other	625	6,090	102.63
Uninsured (self-pay/no charge)	1,083	7,998	135.41

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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,258	26,659	47.19
Females	572	13,781	41.51
Males	686	12,878	53.27
0 to 17 years	*****	*****	*****
18 to 39 years	55 - 64	2,343 - 2,352	23.47 - 27.21
40 to 64 years	443	10,581	41.87
65 to 74 years	338	6,931	48.77
75+ years	421	6,791	61.99
Private	278	8,312	33.45
Medicare	774	14,016	55.22
Medicaid	106	2,282	46.45
Other	40	1,015	39.41
Uninsured (self-pay/no charge)	60	1,034	58.03

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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	6,151	81,902	75.1
Females	2,451	38,471	63.71
Males	3,700	43,431	85.19
0 to 17 years	*****	35	*****
18 to 39 years	249 - 258	7,552	32.97 - 34.16
40 to 64 years	1,776	28,485	62.35
65 to 74 years	1,422	19,311	73.64
75+ years	2,698	26,519	101.74
Private	1,090	19,653	55.46
Medicare	4,023	47,249	85.14
Medicaid	506	8,314	60.86
Other	191	2,775	68.83
Uninsured (self-pay/no charge)	341	3,911	87.19

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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	5,622	28,088	200.16
Females	2,417	12,722	189.99
Males	3,205	15,366	208.58
0 to 17 years	*****	11	*****
18 to 39 years	192 - 201	2,350	81.70 - 85.53
40 to 64 years	1,557	10,415	149.5
65 to 74 years	1,456	6,843	212.77
75+ years	2,415	8,469	285.16
Private	962	6,476	148.55
Medicare	3,808	16,169	235.51
Medicaid	493	3,328	148.14
Other	139	862	161.25
Uninsured (self-pay/no charge)	220	1,253	175.58



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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	7,706	22,388	344.2
Females	3,500	11,804	296.51
Males	4,206	10,584	397.39
0 to 17 years	*****	12	*****
18 to 39 years	457 - 466	2,490	183.53 - 187.15
40 to 64 years	2,786	8,614	323.43
65 to 74 years	1,949	5,441	358.21
75+ years	2,508	5,831	430.11
Private	1,518	5,573	272.38
Medicare	4,796	12,634	379.61
Medicaid	793	2,653	298.91
Other	216	630	342.86
Uninsured (self-pay/no charge)	383	898	426.5

**Table 10. PSI #4E – Death Rate among Surgical Inpatients with Serious Treatable Complications – Stratum E**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,277	26,550	48.1
Females	544	13,037	41.73
Males	733	13,513	54.24
0 to 17 years	*****	*****	*****
18 to 39 years	33 - 42	1,428 - 1,437	23.11 - 29.23
40 to 64 years	468	10,359	45.18
65 to 74 years	321	7,406	43.34
75+ years	449	7,353	61.06
Private	210	6,598	31.83
Medicare	838	16,016	52.32
Medicaid	111	2,226	49.87
Other	39	808	48.27
Uninsured (self-pay/no charge)	79	902	87.58

**Table 11. PSI #5 – Retained Surgical Item or Unretrieved Device Fragment Count**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	973	.	.
Females	543	.	.
Males	430	.	.
0 to 17 years	*****	.	.
18 to 39 years	188 - 197	.	.
40 to 64 years	412	.	.
65 to 74 years	200	.	.
75+ years	167	.	.
Private	355	.	.
Medicare	394	.	.
Medicaid	133	.	.
Other	45	.	.
Uninsured (self-pay/no charge)	46	.	.

**Table 12. PSI #6 – Latrogenic Pneumothorax Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	6,418	19,129,500	0.34
Females	3,695	10,259,192	0.36
Males	2,723	8,870,308	0.31
0 to 17 years	.	.	.
18 to 39 years	552	2,611,117	0.21
40 to 64 years	1,970	7,458,084	0.26
65 to 74 years	1,377	3,584,896	0.38
75+ years	2,519	5,475,403	0.46
Private	1,184	4,754,304	0.25
Medicare	4,145	10,154,984	0.41
Medicaid	687	2,261,267	0.3
Other	154	724,309	0.21
Uninsured (self-pay/no charge)	248	1,234,636	0.2

**Table 13. PSI #7 – Central Venous Catheter-Related Blood Stream Infection Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	3,215	15,569,713	0.21
Females	1,526	9,813,751	0.16
Males	1,689	5,755,962	0.29
0 to 17 years	*****	71,017	*****
18 to 39 years	592 - 601	4,580,030	0.13 - 0.13
40 to 64 years	1,406	5,020,712	0.28
65 to 74 years	590	2,240,531	0.26
75+ years	626	3,657,423	0.17
Private	650	4,530,727	0.14
Medicare	1,638	6,612,012	0.25
Medicaid	643	2,876,033	0.22
Other	103	600,313	0.17
Uninsured (self-pay/no charge)	181	950,628	0.19

**Table 14. PSI #8 – Postoperative Hip Fracture Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	153	3,421,646	0.04
Females	79	1,785,127	0.04
Males	74	1,636,519	0.05
0 to 17 years	.	.	.
18 to 39 years	*****	498,819	*****
40 to 64 years	34 - 43	1,562,010	0.02 - 0.03
65 to 74 years	34	712,352	0.05
75+ years	81	648,465	0.12
Private	16	1,252,483	0.01
Medicare	122	1,494,515	0.08
Medicaid	*****	339,417	*****
Other	*****	126,335	*****
Uninsured (self-pay/no charge)	*****	208,896	*****

**Table 15. PSI #9 – Perioperative Hemorrhage or Hematoma Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	27,155	5,317,074	5.11
Females	13,453	2,871,520	4.68
Males	13,702	2,445,554	5.6
0 to 17 years	.	.	.
18 to 39 years	2,891	663,595	4.36
40 to 64 years	11,750	2,365,649	4.97
65 to 74 years	6,420	1,186,620	5.41
75+ years	6,094	1,101,210	5.53
Private	8,917	1,925,451	4.63
Medicare	13,669	2,434,735	5.61
Medicaid	2,577	448,588	5.74
Other	993	242,509	4.09
Uninsured (self-pay/no charge)	999	265,791	3.76

**Table 16. PSI #10 – Postoperative Physiologic and Metabolic Derangement Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,829	2,655,114	0.69
Females	713	1,517,865	0.47
Males	1,116	1,137,249	0.98
0 to 17 years	.	.	.
18 to 39 years	47	243,554	0.19
40 to 64 years	606	1,250,065	0.48
65 to 74 years	590	684,988	0.86
75+ years	586	476,507	1.23
Private	440	1,093,949	0.4
Medicare	1,227	1,224,732	1
Medicaid	97	165,700	0.59
Other	41	111,058	0.37
Uninsured (self-pay/no charge)	24	59,675	0.4

**Table 17. PSI #11 – Postoperative Respiratory Failure Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	22,402	2,228,418	10.05
Females	12,013	1,353,280	8.88
Males	10,389	875,138	11.87
0 to 17 years	.	.	.
18 to 39 years	1,150	227,618	5.05
40 to 64 years	9,180	1,095,360	8.38
65 to 74 years	6,565	550,503	11.93
75+ years	5,507	354,937	15.52
Private	5,988	973,335	6.15
Medicare	13,638	960,333	14.2
Medicaid	1,640	142,918	11.48
Other	738	101,245	7.29
Uninsured (self-pay/no charge)	398	50,587	7.87

**Table 18. PSI #12 – Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	28,370	5,689,423	4.99
Females	13,936	3,033,488	4.59
Males	14,434	2,655,935	5.43
0 to 17 years	.	.	.
18 to 39 years	2,126	705,407	3.01
40 to 64 years	10,818	2,504,605	4.32
65 to 74 years	7,327	1,271,903	5.76
75+ years	8,099	1,207,508	6.71
Private	7,970	2,024,378	3.94
Medicare	15,620	2,638,264	5.92
Medicaid	2,609	482,286	5.41
Other	1,143	257,662	4.44
Uninsured (self-pay/no charge)	1,028	286,833	3.58

**Table 19. PSI #13 – Postoperative Sepsis Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	4,822	501,689	9.61
Females	2,321	275,892	8.41
Males	2,501	225,797	11.08
0 to 17 years	.	.	.
18 to 39 years	322	38,898	8.28
40 to 64 years	1,831	218,326	8.39
65 to 74 years	1,320	135,156	9.77
75+ years	1,349	109,309	12.34
Private	1,198	173,145	6.92
Medicare	2,967	259,651	11.43
Medicaid	403	36,030	11.19
Other	143	20,463	6.99
Uninsured (self-pay/no charge)	111	12,400	8.95

**Table 20. PSI #14 – Postoperative Wound Dehiscence Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	1,559	836,248	1.86
Females	541	511,297	1.06
Males	1,018	324,951	3.13
0 to 17 years	.	.	.
18 to 39 years	112	121,201	0.92
40 to 64 years	675	413,168	1.63
65 to 74 years	377	159,936	2.36
75+ years	395	141,943	2.78
Private	403	353,740	1.14
Medicare	845	316,946	2.67
Medicaid	187	84,638	2.21
Other	53	33,587	1.58
Uninsured (self-pay/no charge)	71	47,337	1.5

**Table 21. PSI #15 – Accidental Puncture or Laceration Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	37,494	19,879,692	1.89
Females	23,894	10,577,178	2.26
Males	13,600	9,302,514	1.46
0 to 17 years	.	.	.
18 to 39 years	3,858	2,676,404	1.44
40 to 64 years	17,023	7,662,360	2.22
65 to 74 years	8,187	3,755,500	2.18
75+ years	8,426	5,785,428	1.46
Private	13,435	4,894,449	2.74
Medicare	17,639	10,629,925	1.66
Medicaid	3,519	2,335,732	1.51
Other	1,313	729,917	1.8
Uninsured (self-pay/no charge)	1,588	1,289,669	1.23

**Table 22. PSI #16 – Transfusion Reaction Count**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	38	.	.
Females	18	.	.
Males	20	.	.
0 to 17 years	.	.	.
18 to 39 years	*****	.	.
40 to 64 years	20	.	.
65 to 74 years	*****	.	.
75+ years	*****	.	.
Private	19	.	.
Medicare	14	.	.
Medicaid	*****	.	.
Other	*****	.	.
Uninsured (self-pay/no charge)	.	.	.

**Table 23. PSI #18 – Obstetric Trauma Rate – Vaginal Delivery With Instrument**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	18,246	136,989	133.19
Females	18,246	136,989	133.19
Males	.	.	.
0 to 17 years	615	5,076	121.16
18 to 39 years	17,290	128,533	134.52
40 to 64 years	341	3,380	100.89
65 to 74 years	.	.	.
75+ years	.	.	.
Private	11,855	72,933	162.55
Medicare	82	874	93.82
Medicaid	5,323	55,415	96.06
Other	603	4,434	135.99
Uninsured (self-pay/no charge)	383	3,333	114.91

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

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 1,000 (=OBSERVED RATEx1,000)
Overall	39,324	1,875,164	20.97
Females	39,324	1,875,164	20.97
Males	.	.	.
0 to 17 years	1,277	51,432	24.83
18 to 39 years	37,424	1,780,864	21.01
40 to 64 years	623	42,868	14.53
65 to 74 years	.	.	.
75+ years	.	.	.
Private	25,236	895,505	28.18
Medicare	188	12,805	14.68
Medicaid	11,817	860,143	13.74
Other	1,264	60,349	20.94
Uninsured (self-pay/no charge)	819	46,362	17.67

**Table 25. PSI #22 – Iatrogenic Pneumothorax Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	11,410	201,198,776	5.67
Females	6,512	103,365,042	6.3
Males	4,898	97,833,734	5.01
18 to 39 years	883	76,709,774	1.15
40 to 64 years	3,700	88,042,799	4.2
65 to 74 years	2,742	20,256,413	13.54
75+ years	4,085	16,189,790	25.23

**Table 26. PSI #23 – Central Venous Catheter-Related Blood Stream Infection Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	10,615	201,198,758	5.28
Females	5,757	103,365,019	5.57
Males	4,858	97,833,739	4.97
18 to 39 years	2,579	76,709,775	3.36
40 to 64 years	4,736	88,042,805	5.38
65 to 74 years	1,690	20,256,408	8.34
75+ years	1,609	16,189,769	9.94

**Table 27. PSI #24 – Postoperative Wound Dehiscence Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	2,972	201,198,741	1.48
Females	1,218	103,365,014	1.18
Males	1,754	97,833,727	1.79
18 to 39 years	245	76,709,775	0.32
40 to 64 years	1,374	88,042,797	1.56
65 to 74 years	711	20,256,405	3.51
75+ years	642	16,189,764	3.97

**Table 28. PSI #25 – Accidental Puncture or Laceration Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	48,481	201,198,932	24.1
Females	30,989	103,365,126	29.98
Males	17,492	97,833,806	17.88
18 to 39 years	4,944	76,709,776	6.45
40 to 64 years	21,800	88,042,822	24.76
65 to 74 years	10,828	20,256,451	53.45
75+ years	10,909	16,189,883	67.38

**Table 29. PSI #26 – Transfusion Reaction Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	133	201,198,731	0.07
Females	91	103,365,012	0.09
Males	42	97,833,719	0.04
18 to 39 years	59	76,709,774	0.08
40 to 64 years	44	88,042,795	0.05
65 to 74 years	15	20,256,402	0.07
75+ years	14	16,189,759	0.09

**Table 30. PSI #27 – Perioperative Hemorrhage or Hematoma Rate**

INDICATOR	NUMERATOR	DENOMINATOR	OBSERVED RATE PER 100,000 (=OBSERVED RATEx100,000)
Overall	61,560	201,198,953	30.6
Females	29,852	103,365,115	28.88
Males	31,708	97,833,838	32.41
18 to 39 years	6,729	76,709,777	8.77
40 to 64 years	25,649	88,042,826	29.13
65 to 74 years	14,465	20,256,458	71.41
75+ years	14,717	16,189,892	90.9