

AHRQ Quality Indicators™



AHRQ QI RATE COMPARISON: v4.4 vs. v4.5

Prepared for:

Agency for Healthcare Research and Quality
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The following v4.4 to 4.5 AHRQ QI Comparison Table lists output from Agency for Healthcare Research and Quality (AHRQ) Quality Indicator™ (QI) SAS Software when run on the AHRQ Healthcare Cost and Utilization Project 2010 Nationwide Inpatient Sample (AHRQ HCUP NIS). The analysis is unweighted. The same dataset was run through the v4.4 and v4.5 software and the table lists resulting values of the numerator, denominator, observed rate, expected rate, risk-adjusted rate, and smoothed rate, where appropriate, and the ratios of the v4.5 divided by v4.4 results. The purpose of the table is to give the reader a sense of how the v4.5 changes to the software and reference population might affect quantitative results.

Most of the QI were affected by one or more changes in v4.5, indicated in the column labeled 'Changes from v4.4 to v4.5'. The types of changes that affect QI results include:

- A. Specification/calculation changed such that a record run through v4.4 of the software and v4.5 may produce different results.
(Note this does not apply to typos in the technical specification or bugs in the software.)
- B. Risk adjustment updated for 2010 reference population
- C. Population file changed
- D. Updated estimated number of persons with diabetes
- E. Composite weights changed
- F. Newly stratified measure
- G. Software bug fix - SAS software was not compliant with the technical specification
- H. Software bug fix - WinQI software was not compliant with the technical specification

For additional information on how the QI are calculated and the empirical methods used in the software, consult the documentation on the AHRQ QI website: <http://www.qualityindicators.ahrq.gov/>.

| Output Data Set Type | Module | Indicator | Title | Changes from v4.4 to v4.5 | Ratio of V4.5 Statistic Over V4.4 Statistic | | | | | Version 4.5 | | | | | | Version 4.4 | | | | | | |
|----------------------|--------|-----------|---|---------------------------|---|-------------|---------------|---------------|---------------|---------------|-----------|-------------|---------------|---------------|---------------|---------------|-----------|-------------|---------------|---------------|---------------|---------------|
| | | | | | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate |
| PROVIDER | PDI | NQI01 | Neonatal Iatrogenic Pneumothorax Rate | H | XXX | 1 | XXX | XXX | XXX | XXX | XXX | 50,927 | XXX | XXX | XXX | XXX | XXX | 50,927 | XXX | XXX | XXX | XXX |
| PROVIDER | PDI | NQI02 | Neonatal Mortality Rate | B, H | 1 | 1 | 1 | 0.9313 | 0.8617 | 0.8615 | 2,156 | 782,518 | 2.76 | 2.66 | 2.22 | 2.22 | 2,156 | 782,518 | 2.76 | 2.85 | 2.58 | 2.58 |
| PROVIDER | PDI | NQI03 | Neonatal Blood Stream Infection Rate | A, B, G, H | 1.0909 | 0.8173 | 1.3348 | 1.1711 | 1.2788 | 1.2787 | 432 | 19,146 | 22.56 | 24.16 | 21.63 | 21.64 | 396 | 23,426 | 16.90 | 20.63 | 16.92 | 16.92 |
| PROVIDER | PDI | PDI01 | Accidental Puncture or Laceration Rate | B | 1.0191 | 1.0000 | 1.0191 | 0.8327 | 0.9586 | 0.9566 | 427 | 670,966 | 0.64 | 0.56 | 0.61 | 0.61 | 419 | 670,958 | 0.62 | 0.67 | 0.64 | 0.64 |
| PROVIDER | PDI | PDI02 | Pressure Ulcer Rate | B | XXX | 1.0000 | XXX | XXX | XXX | XXX | XXX | 72,137 | XXX | XXX | XXX | XXX | 11 | 72,139 | 0.15 | 1.66 | 0.16 | 0.22 |
| PROVIDER | PDI | PDI03 | Retained Surgical Item or Unretrieved Device Fragment Count | No changes | XXX | XXX | XXX | | | | XXX | XXX | XXX | | | | XXX | XXX | XXX | | | |
| PROVIDER | PDI | PDI05 | Iatrogenic Pneumothorax Rate | B | 1 | 1 | 1 | 0.8973 | 0.9549 | 0.9539 | 89 | 607,504 | 0.15 | 0.15 | 0.14 | 0.14 | 89 | 607,504 | 0.15 | 0.16 | 0.14 | 0.15 |
| PROVIDER | PDI | PDI06 | RACHS-1 Pediatric Heart Surgery Mortality Rate | B | 1 | 1 | 1 | 0.9846 | 0.9927 | 0.9920 | 155 | 4,251 | 36.46 | 36.30 | 37.88 | 37.87 | 155 | 4,251 | 36.46 | 36.87 | 38.16 | 38.18 |
| PROVIDER | PDI | PDI07 | RACHS-1 Pediatric Heart Surgery Volume | No changes | 1 | | | | | | 4,856 | | | | | | 4,856 | | | | | |
| PROVIDER | PDI | PDI08 | Perioperative Hemorrhage or Hematoma Rate | A, B, G, H | 1.9206 | 0.9658 | 1.9887 | 2.4052 | 1.8448 | 1.8617 | 121 | 26,791 | 4.52 | 4.80 | 4.35 | 4.36 | 63 | 27,740 | 2.27 | 1.99 | 2.36 | 2.34 |
| PROVIDER | PDI | PDI09 | Postoperative Respiratory Failure Rate | B, G, H | 1.0179 | 0.9995 | 1.0185 | 1.0286 | 0.9502 | 0.9503 | 227 | 21,310 | 10.65 | 10.68 | 10.15 | 10.15 | 223 | 21,321 | 10.46 | 10.38 | 10.69 | 10.69 |
| PROVIDER | PDI | PDI10 | Postoperative Sepsis Rate | B | 1.0063 | 1 | 1.0063 | 0.8619 | 1.0002 | 0.9980 | 318 | 20,415 | 15.58 | 15.99 | 15.61 | 15.61 | 316 | 20,415 | 15.48 | 18.55 | 15.60 | 15.64 |
| PROVIDER | PDI | PDI11 | Postoperative Wound Dehiscence Rate | A | 1 | 1 | 1 | 0.9859 | 2.1346 | 2.0884 | 15 | 14,398 | 1.04 | 0.66 | 1.65 | 1.53 | 15 | 14,398 | 1.04 | 0.67 | 0.77 | 0.73 |
| PROVIDER | PDI | PDI12 | Central Venous Catheter-Related Blood Stream Infection Rate | B | 1 | 1 | 1 | 0.6636 | 0.8735 | 0.8715 | 392 | 527,706 | 0.74 | 0.82 | 0.59 | 0.59 | 392 | 527,706 | 0.74 | 1.24 | 0.68 | 0.68 |
| PROVIDER | PDI | PDI13 | Transfusion Reaction Count | No changes | XXX | XXX | XXX | | | | XXX | XXX | XXX | | | | XXX | XXX | XXX | | | |
| AREA | PDI | PDI14 | Asthma Admission Rate | C | 1 | 1.0006 | 0.9994 | 0.9162 | 0.9958 | 0.9959 | 17,255 | 66,052,779 | 26.12 | 124.01 | 26.11 | 26.11 | 17,255 | 66,014,709 | 26.14 | 135.36 | 26.22 | 26.22 |
| AREA | PDI | PDI15 | Diabetes Short-Term Complications Admission Rate | D | 1 | 1.0008 | 0.9992 | 0.7821 | 0.9919 | 0.9929 | 2,840 | 49,933,398 | 5.69 | 26.40 | 5.69 | 5.70 | 2,840 | 49,895,579 | 5.69 | 33.76 | 5.73 | 5.74 |
| AREA | PDI | PDI16 | Gastroenteritis Admission Rate | C | 1 | 1.0005 | 0.9995 | 0.6120 | 0.9807 | 0.9809 | 10,345 | 73,089,313 | 14.15 | 65.78 | 14.14 | 14.15 | 10,345 | 73,051,126 | 14.16 | 107.47 | 14.42 | 14.42 |
| AREA | PDI | PDI17 | Perforated Appendix Admission Rate | B | 1 | 1 | 1 | 1.0090 | 1.0045 | 1.0046 | 4,736 | 15,458 | 306.38 | 307.99 | 304.61 | 304.62 | 4,736 | 15,458 | 306.38 | 305.24 | 303.24 | 303.23 |
| AREA | PDI | PDI18 | Urinary Tract Infection Admission Rate | C | 1 | 1.0005 | 0.9995 | 0.8373 | 0.9793 | 0.9800 | 6,084 | 73,089,298 | 8.32 | 37.27 | 8.32 | 8.33 | 6,084 | 73,051,121 | 8.33 | 44.51 | 8.50 | 8.50 |
| AREA | PDI | PDI90 | Pediatric Quality Overall Composite | B, C | 1 | 1.0008 | 0.9992 | 0.8413 | 1.0001 | 1.0002 | 16,860 | 49,933,423 | 33.76 | 160.84 | 33.76 | 33.76 | 16,860 | 49,895,600 | 33.79 | 191.17 | 33.75 | 33.76 |
| AREA | PDI | PDI91 | Pediatric Quality Acute Composite | B, C | 1 | 1.0008 | 0.9992 | 0.7985 | 0.9934 | 0.9941 | 5,503 | 49,933,400 | 11.02 | 51.62 | 11.02 | 11.03 | 5,503 | 49,895,584 | 11.03 | 64.64 | 11.09 | 11.09 |
| AREA | PDI | PDI92 | Pediatric Quality Chronic Composite | B, C | 1 | 1.0008 | 0.9992 | 0.8632 | 1.0037 | 1.0038 | 11,357 | 49,933,409 | 22.74 | 109.22 | 22.74 | 22.74 | 11,357 | 49,895,584 | 22.76 | 126.53 | 22.66 | 22.66 |
| AREA | PQI | PQI01 | Diabetes Short-Term Complications Admission Rate | B, D | 1 | 0.9999 | 1.0001 | 0.9475 | 1.0099 | 1.0101 | 31,842 | 234,847,374 | 13.56 | 62.06 | 13.56 | 13.56 | 31,842 | 234,878,986 | 13.56 | 65.50 | 13.43 | 13.43 |
| AREA | PQI | PQI02 | Perforated Appendix Admission Rate | B | 1 | 1 | 1 | 1.0184 | 1.0164 | 1.0165 | 13,136 | 43,271 | 303.58 | 298.29 | 303.02 | 303.01 | 13,136 | 43,271 | 303.58 | 292.91 | 298.12 | 298.09 |
| AREA | PQI | PQI03 | Diabetes Long-Term Complications Admission Rate | B, D | 1 | 0.9999 | 1.0001 | 0.8843 | 0.9786 | 0.9787 | 57,096 | 234,847,599 | 24.31 | 115.95 | 24.31 | 24.31 | 57,096 | 234,879,013 | 24.31 | 131.13 | 24.84 | 24.84 |
| AREA | PQI | PQI05 | Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate | A, B, C | 0.9990 | 1.0001 | 0.9990 | 0.8662 | 0.9740 | 0.9740 | 153,121 | 143,094,263 | 107.01 | 496.71 | 106.94 | 106.94 | 153,268 | 143,086,359 | 107.12 | 573.46 | 109.79 | 109.79 |
| AREA | PQI | PQI07 | Hypertension Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.9444 | 0.9714 | 0.9715 | 29,961 | 234,847,499 | 12.76 | 59.12 | 12.76 | 12.76 | 29,961 | 234,879,039 | 12.76 | 62.60 | 13.14 | 13.14 |
| AREA | PQI | PQI08 | Heart Failure Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.8883 | 0.9316 | 0.9317 | 169,129 | 234,853,973 | 72.01 | 342.67 | 72.03 | 72.03 | 169,129 | 234,880,832 | 72.01 | 385.76 | 77.31 | 77.31 |
| AREA | PQI | PQI09 | Low Birth Weight Rate | B, C | 1 | 1 | 1 | 1.0240 | 1.0000 | 1.0000 | 50,519 | 781,563 | 64.64 | 62.40 | 64.64 | 64.64 | 50,519 | 781,563 | 64.64 | 60.93 | 64.64 | 64.64 |
| AREA | PQI | PQI10 | Dehydration Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.7231 | 0.9488 | 0.9489 | 61,559 | 234,848,336 | 26.21 | 121.09 | 26.22 | 26.22 | 61,559 | 234,879,182 | 26.21 | 167.46 | 27.63 | 27.63 |
| AREA | PQI | PQI11 | Bacterial Pneumonia Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.8518 | 0.9433 | 0.9434 | 149,260 | 234,853,625 | 63.55 | 296.78 | 63.56 | 63.56 | 149,260 | 234,881,001 | 63.55 | 348.41 | 67.38 | 67.38 |
| AREA | PQI | PQI12 | Urinary Tract Infection Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.9755 | 0.9352 | 0.9354 | 95,374 | 234,850,011 | 40.61 | 189.05 | 40.62 | 40.63 | 95,374 | 234,879,580 | 40.61 | 193.79 | 43.43 | 43.43 |
| AREA | PQI | PQI13 | Angina Without Procedure Admission Rate | B, C | 1 | 0.9999 | 1.0001 | 0.7030 | 0.9797 | 0.9799 | 9,435 | 234,847,399 | 4.02 | 18.88 | 4.02 | 4.02 | 9,435 | 234,878,977 | 4.02 | 26.86 | 4.10 | 4.10 |
| AREA | PQI | PQI14 | Uncontrolled Diabetes Admission Rate | B, D | 1 | 0.9999 | 1.0001 | 0.8453 | 0.9875 | 0.9877 | 9,202 | 234,847,341 | 3.92 | 18.76 | 3.92 | 3.92 | 9,202 | 234,878,966 | 3.92 | 22.19 | 3.97 | 3.97 |
| AREA | PQI | PQI15 | Asthma in Younger Adults Admission Rate | B, C | 1 | 0.9996 | 1.0004 | 0.8143 | 0.9955 | 0.9957 | 10,236 | 91,757,950 | 11.16 | 52.64 | 11.16 | 11.16 | 10,236 | 91,793,915 | 11.15 | 64.64 | 11.21 | 11.21 |
| AREA | PQI | PQI16 | Lower-Extremity Amputation Among Patients With Diabetes Rate | D | 1 | 0.9999 | 1.0001 | 0.8907 | 0.9760 | 0.9769 | 7,599 | 234,847,363 | 3.24 | 15.71 | 3.24 | 3.24 | 7,599 | 234,878,969 | 3.24 | 17.63 | 3.31 | 3.32 |
| AREA | PQI | PQI90 | Prevention Quality Overall Composite | B, C | 0.9998 | 1.0000 | 0.9999 | 0.8706 | 0.9521 | 0.9521 | 780,299 | 234,891,419 | 332.20 | 1556.83 | 332.03 | 332.04 | 780,446 | 234,902,002 | 332.24 | 1788.19 | 348.73 | 348.73 |
| AREA | PQI | PQI91 | Prevention Quality Acute Composite | B, C | 1 | 0.9999 | 1.0001 | 0.8554 | 0.9422 | 0.9423 | 306,193 | 234,861,946 | 130.37 | 607.09 | 130.36 | 130.36 | 306,193 | 234,884,912 | 130.36 | 709.74 | 138.35 | 138.35 |
| AREA | PQI | PQI92 | Prevention Quality Chronic Composite | B, C | 0.9997 | 0.9999 | 0.9998 | 0.8805 | 0.9590 | 0.9590 | 474,118 | 234,866,970 | 201.87 | 949.27 | 201.83 | 201.83 | 474,265 | 234,886,423 | 201.91 | 1078.13 | 210.45 | 210.45 |

SOURCE: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project. 2010 Nationwide Inpatient Sample (unweighted) and AHRQ Quality Indicator SAS and WinQI Version 4.4 and 4.5 Software.

Notes: XXX means that the contents of the cell are suppressed because they are based on 1-10 records.

All provider-level rates are expressed per 1,000 discharges.

Area-level rates with population as the denominator are expressed per 100,000 persons.

Area-level rates with conditions/admissions as the denominator (PQI 2, PQI 9, PDI 17) are expressed per 1,000.

Volumes and counts are expressed as is, with no scaling.

Key to Changes

- A Specification/calculation change such that a record run through v4.4 of the software and v4.5 may produce different results. Note this does not apply to typos in the technical specification or bugs in the software.
- B Risk adjustment updated for 2010 reference population
- C Population file changed
- D Updated estimated number of persons with diabetes
- E Composite weights changed
- F Newly stratified measure
- G Software bug fix - SAS software was not compliant with the technical specification
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| Output Data Set Type | Module | Indicator | Title | Changes from v4.4 to v4.5 | Ratio of V4.5 Statistic Over V4.4 Statistic | | | | | | Version 4.5 | | | | | | Version 4.4 | | | | | |
|----------------------|--------|-----------|---|---------------------------|---|-------------|---------------|---------------|---------------|---------------|-------------|-------------|---------------|---------------|---------------|---------------|-------------|-------------|---------------|---------------|---------------|---------------|
| | | | | | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate | Numerator | Denominator | Observed Rate | Expected Rate | Risk Adj Rate | Smoothed Rate |
| PROVIDER | PSI | PSI02 | Death Rate in Low-Mortality Diagnosis Related Groups (DRGs) | B | 1 | 1 | 1 | 0.8994 | 1.1055 | 1.1051 | 393 | 1,474,846 | 0.27 | 0.27 | 0.27 | 0.27 | 393 | 1,474,846 | 0.27 | 0.31 | 0.25 | 0.25 |
| PROVIDER | PSI | PSI03 | Pressure Ulcer Rate | B | 0.9109 | 1.0000 | 0.9109 | 0.0749 | 0.9219 | 0.9191 | 644 | 1,562,735 | 0.41 | 0.40 | 0.42 | 0.42 | 707 | 1,562,798 | 0.45 | 5.37 | 0.45 | 0.45 |
| PROVIDER | PSI | PSI04 | Death Rate among Surgical Inpatients with Serious Treatable Complications | A, B, G, H | 0.8645 | 0.9328 | 0.9267 | 0.8940 | 0.9714 | 0.9713 | 5,882 | 50,335 | 116.86 | 117.81 | 116.43 | 116.43 | 6,804 | 53,959 | 126.10 | 131.78 | 119.85 | 119.86 |
| PROVIDER | PSI | PSI04A | Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A | F | | | | | | | 639 | 8,384 | 76.22 | 78.47 | 77.23 | | | | | | | |
| PROVIDER | PSI | PSI04B | Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B | F | | | | | | | 2,751 | 26,778 | 102.73 | 102.25 | 102.98 | | | | | | | |
| PROVIDER | PSI | PSI04C | Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C | F | | | | | | | 1,976 | 8,337 | 237.02 | 234.19 | 239.26 | | | | | | | |
| PROVIDER | PSI | PSI04D | Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D | F | | | | | | | 1,883 | 5,314 | 354.35 | 362.24 | 350.08 | | | | | | | |
| PROVIDER | PSI | PSI04E | Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E | F | | | | | | | 597 | 8,622 | 69.24 | 68.13 | 68.83 | | | | | | | |
| PROVIDER | PSI | PSI05 | Retained Surgical Item or Unretrieved Device Fragment Count | No changes | 1 | | | | | | 186 | | | | | | 186 | | | | | |
| PROVIDER | PSI | PSI06 | Iatrogenic Pneumothorax Rate | B | 0.9795 | 1.0000 | 0.9795 | 0.8824 | 1.1675 | 1.1673 | 2,009 | 5,310,785 | 0.38 | 0.37 | 0.45 | 0.45 | 2,051 | 5,310,827 | 0.39 | 0.42 | 0.39 | 0.39 |
| PROVIDER | PSI | PSI07 | Central Venous Catheter-Related Blood Stream Infection Rate | B | 0.9995 | 1.0000 | 0.9995 | 0.5551 | 1.0217 | 1.0212 | 1,840 | 4,297,369 | 0.43 | 0.43 | 0.41 | 0.41 | 1,841 | 4,297,370 | 0.43 | 0.77 | 0.40 | 0.40 |
| PROVIDER | PSI | PSI08 | Postoperative Hip Fracture Rate | A, B | 1.6154 | 1.0000 | 1.6154 | 0.9426 | 1.6616 | 1.6009 | 21 | 971,923 | 0.02 | 0.03 | 0.02 | 0.03 | 13 | 971,915 | 0.01 | 0.03 | 0.01 | 0.02 |
| PROVIDER | PSI | PSI09 | Perioperative Hemorrhage or Hematoma Rate | A, B | 2.4620 | 0.9627 | 2.5576 | 2.5223 | 2.4854 | 2.4853 | 8,888 | 1,551,658 | 5.73 | 5.77 | 5.70 | 5.70 | 3,610 | 1,611,857 | 2.24 | 2.29 | 2.29 | 2.29 |
| PROVIDER | PSI | PSI10 | Postoperative Physiologic and Metabolic Derangement Rate | B | 0.9864 | 1.0000 | 0.9864 | 0.9846 | 0.9271 | 0.9268 | 435 | 804,821 | 0.54 | 0.49 | 0.52 | 0.52 | 441 | 804,827 | 0.55 | 0.49 | 0.56 | 0.56 |
| PROVIDER | PSI | PSI11 | Postoperative Respiratory Failure Rate | B, G, H | 0.9916 | 0.9999 | 0.9917 | 0.9676 | 1.0311 | 1.0310 | 6,344 | 667,745 | 9.50 | 8.78 | 9.00 | 9.00 | 6,398 | 667,840 | 9.58 | 9.08 | 8.73 | 8.73 |
| PROVIDER | PSI | PSI12 | Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate | B | 0.9674 | 0.9998 | 0.9676 | 0.8714 | 0.9975 | 0.9975 | 7,481 | 1,608,992 | 4.65 | 4.54 | 4.47 | 4.47 | 7,733 | 1,609,244 | 4.81 | 5.22 | 4.48 | 4.48 |
| PROVIDER | PSI | PSI13 | Postoperative Sepsis Rate | B | 1.0108 | 1.0001 | 1.0107 | 1.0761 | 1.0326 | 1.0328 | 1,866 | 162,214 | 11.50 | 11.74 | 11.57 | 11.57 | 1,846 | 162,194 | 11.38 | 10.91 | 11.20 | 11.20 |
| PROVIDER | PSI | PSI14 | Postoperative Wound Dehiscence Rate | A, B | 1 | 1 | 1 | 0.8174 | 2.0844 | 2.0838 | 459 | 250,899 | 1.83 | 1.84 | 1.85 | 1.85 | 459 | 250,899 | 1.83 | 2.26 | 0.89 | 0.89 |
| PROVIDER | PSI | PSI15 | Accidental Puncture or Laceration Rate | B | 1.0004 | 1.0000 | 1.0004 | 0.9035 | 0.9585 | 0.9585 | 13,390 | 5,499,494 | 2.43 | 2.47 | 2.39 | 2.39 | 13,384 | 5,499,488 | 2.43 | 2.73 | 2.50 | 2.50 |
| PROVIDER | PSI | PSI16 | Transfusion Reaction Count | No changes | 1 | | | | | | 19 | | | | | | 19 | | | | | |
| PROVIDER | PSI | PSI17 | Birth Trauma Rate - Injury to Neonate | H | 1 | 1 | 1 | | | | 1,529 | 761,207 | 2.01 | | | | 1,529 | 761,207 | 2.01 | 2.24 | 2.01 | 2.01 |
| PROVIDER | PSI | PSI18 | Obstetric Trauma Rate - Vaginal Delivery With Instrument | H | 1 | 1 | 1 | | | | 5,387 | 38,439 | 140.14 | | | | 5,387 | 38,439 | 140.14 | 142.59 | 140.14 | 140.14 |
| PROVIDER | PSI | PSI19 | Obstetric Trauma Rate - Vaginal Delivery Without Instrument | H | 1 | 1 | 1 | | | | 10,980 | 481,999 | 22.78 | | | | 10,980 | 481,999 | 22.78 | 23.66 | 22.78 | 22.78 |
| AREA | PSI | PSI21 | Retained Surgical Item or Unretrieved Device Fragment Rate | C | 1 | 0.9999 | 1.0001 | | | | 463 | 234,847,312 | 0.20 | | | | 463 | 234,878,963 | 0.20 | | | |
| AREA | PSI | PSI22 | Iatrogenic Pneumothorax Rate | C | 1 | 0.9999 | 1.0001 | | | | 3,520 | 234,847,312 | 1.50 | | | | 3,520 | 234,878,963 | 1.50 | | | |
| AREA | PSI | PSI23 | Central Venous Catheter-Related Blood Stream Infection Rate | C | 1 | 0.9999 | 1.0001 | | | | 5,439 | 234,847,312 | 2.32 | | | | 5,439 | 234,878,963 | 2.32 | | | |
| AREA | PSI | PSI24 | Postoperative Wound Dehiscence Rate | C | 1 | 0.9999 | 1.0001 | | | | 883 | 234,847,312 | 0.38 | | | | 883 | 234,878,963 | 0.38 | | | |
| AREA | PSI | PSI25 | Accidental Puncture or Laceration Rate | C | 1 | 0.9999 | 1.0001 | | | | 17,047 | 234,847,312 | 7.26 | | | | 17,047 | 234,878,963 | 7.26 | | | |
| AREA | PSI | PSI26 | Transfusion Reaction Rate | C | 1 | 0.9999 | 1.0001 | | | | 29 | 234,847,312 | 0.01 | | | | 29 | 234,878,963 | 0.01 | | | |
| AREA | PSI | PSI27 | Perioperative Hemorrhage or Hematoma Rate | A, C | 2.7655 | 0.9999 | 2.7658 | | | | 19,314 | 234,847,312 | 8.22 | | | | 6,984 | 234,878,963 | 2.97 | | | |

SOURCE: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project. 2010 Nationwide Inpatient Sample (unweighted) and AHRQ Quality Indicator SAS and WinQI Version 4.4 and 4.5 Software.

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