



Inpatient Quality Indicators (IQI) Risk Adjustment Coefficients for the IQI Version 4.3

Prepared for:

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Version 4.3a is a maintenance release of Version 4.3. The differences between the two versions are:

- Version 4.3a includes Version 29 of the Limited License edition of the 3M™ APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper. The grouper is only used with the Inpatient Quality Indicator (IQI) mortality measures. Version 4.3 includes Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper, which was incorrectly assigning a Risk of Mortality (ROM) subclass for cases dated on or after 10/1/10.
- Version 4.3a allows users to calculate area-level indicators for years 2010 and 2011, correcting an issue previously identified in Version 4.3.

All other aspects of the software, including measure specifications, remain the same. Thus this document (related to Version 4.3) remains unchanged.

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Executive Summary

This document provides the risk adjustment covariates and coefficients for relevant Agency for Healthcare Research and Quality (AHRQ) Quality Indicators (QI) Inpatient Quality Indicators. Descriptions of the categories are provided in the Appendix tables at the end of the document. Please note that the 3M® APR-DRG grouper list is not provided in the Appendix, as this material is copyrighted by 3M®.

Additional information on the AHRQ QI risk adjustment process can be found in the [AHRQ QI Empirical Methods Report](#).

Table 1. Risk Adjustment Coefficients for IQI #08 – Esophageal Resection Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.2080 | 0.1866 | 508.71 | 0.0000 |
| Age | 65 to 74 | 1 | 0.6112 | 0.1601 | 14.57 | 0.0001 |
| Age | 75+ | 1 | 0.8893 | 0.1810 | 24.13 | 0.0000 |
| APR-DRG | '2203' to '2204' | 1 | 2.7268 | 0.2126 | 164.47 | 0.0000 |
| MDC | 6 | 1 | 2.0377 | 0.2217 | 84.47 | 0.0000 |
| MDC | Other | 1 | 2.2034 | 0.5742 | 14.73 | 0.0001 |

c-statistic 0.778

Table 2. Risk Adjustment Coefficients for IQI #09 – Pancreatic Resection Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.1818 | 0.1854 | 508.83 | 0.0000 |
| Sex | Female | 1 | -0.2294 | 0.1246 | 3.39 | 0.0655 |
| Age | 65 to 74 | 1 | 0.6209 | 0.1739 | 12.75 | 0.0004 |
| Age | 75+ | 1 | 0.9759 | 0.1538 | 40.27 | 0.0000 |
| APR-DRG | '2603' to '2604' | 1 | 1.9911 | 0.1845 | 116.44 | 0.0000 |
| MDC | 7 | 1 | 1.7478 | 0.2534 | 47.57 | 0.0000 |
| MDC | Other | 1 | 1.1604 | 0.2215 | 27.46 | 0.0000 |

c-statistic 0.718

Table 3. Risk Adjustment Coefficients for IQI #11 – Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -6.6044 | 0.1713 | 1486.04 | 0.0000 |
| Sex | Female | 1 | 0.4539 | 0.0747 | 36.95 | 0.0000 |
| Age | 65 to 74 | 1 | 0.4879 | 0.1072 | 20.72 | 0.0000 |
| Age | 75 to 79 | 1 | 0.8737 | 0.1201 | 52.97 | 0.0000 |
| Age | 80 to 84 | 1 | 1.1092 | 0.1200 | 85.50 | 0.0000 |
| Age | 85+ | 1 | 1.4440 | 0.1359 | 112.97 | 0.0000 |
| APR-DRG | '1691' to '1692' | 1 | 1.6789 | 0.1623 | 107.05 | 0.0000 |
| APR-DRG | '1693' to '1694' | 1 | 3.9127 | 0.1523 | 659.72 | 0.0000 |
| APR-DRG | '1733' to '1734' | 1 | 3.1568 | 0.1676 | 354.55 | 0.0000 |
| MDC | 5 | 1 | 2.6400 | 0.1483 | 316.85 | 0.0000 |
| MDC | Other | 1 | 2.9536 | 0.2252 | 172.05 | 0.0000 |
| RUPTURED | AAA Repair | 1 | 2.0565 | 0.0808 | 647.42 | 0.0000 |

c-statistic 0.937

Table 4. Risk Adjustment Coefficients for IQI #12 – Coronary Artery Bypass Graft (CABG) Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.1429 | 0.0755 | 4635.99 | 0.0000 |
| Sex | Female | 1 | 0.4145 | 0.0270 | 235.06 | 0.0000 |
| Age | 40 to 49 | 1 | -0.4444 | 0.0815 | 29.77 | 0.0000 |
| Age | 50 to 54 | 1 | -0.2721 | 0.0717 | 14.40 | 0.0001 |
| Age | 55 to 59 | 1 | -0.2042 | 0.0586 | 12.13 | 0.0005 |
| Age | 65 to 84 | 1 | 0.2935 | 0.0425 | 47.70 | 0.0000 |
| Age | 85+ | 1 | 0.9268 | 0.0755 | 150.82 | 0.0000 |
| APR-DRG | '1611' to '1612' | 1 | 0.8122 | 0.2647 | 9.42 | 0.0021 |
| APR-DRG | '1613' | 1 | 2.1028 | 0.1715 | 150.40 | 0.0000 |
| APR-DRG | '1614' | 1 | 4.0926 | 0.1603 | 652.15 | 0.0000 |
| APR-DRG | '1621' to '1622' | 1 | 0.6771 | 0.0999 | 45.92 | 0.0000 |
| APR-DRG | '1623' | 1 | 2.4623 | 0.0866 | 808.19 | 0.0000 |
| APR-DRG | '1624' | 1 | 4.4892 | 0.1016 | 1952.77 | 0.0000 |
| APR-DRG | '1631' to '1632' | 1 | 0.4199 | 0.0909 | 21.36 | 0.0000 |
| APR-DRG | '1633' | 1 | 2.5647 | 0.0943 | 740.35 | 0.0000 |
| APR-DRG | '1634' | 1 | 5.0825 | 0.1284 | 1566.96 | 0.0000 |
| APR-DRG | '1652' | 1 | -0.2166 | 0.0739 | 8.58 | 0.0034 |
| APR-DRG | '1653' | 1 | 1.4526 | 0.0701 | 429.17 | 0.0000 |
| APR-DRG | '1654' | 1 | 3.9635 | 0.0816 | 2360.52 | 0.0000 |
| APR-DRG | '1661' | 1 | -0.6266 | 0.0772 | 65.81 | 0.0000 |
| APR-DRG | '1663' | 1 | 1.7449 | 0.0849 | 422.15 | 0.0000 |
| APR-DRG | '1664' | 1 | 4.2400 | 0.0980 | 1873.30 | 0.0000 |
| MDC | 5 | 1 | 2.2482 | 0.1063 | 447.50 | 0.0000 |
| MDC | Other | 1 | 2.0435 | 0.1117 | 334.41 | 0.0000 |

c-statistic 0.837

Table 5. Risk Adjustment Coefficients for IQI #13 – Craniotomy Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.5588 | 0.0749 | 3706.45 | 0.0000 |
| Age | 18 to 24 | 1 | -0.9974 | 0.1321 | 57.04 | 0.0000 |
| Age | 25 to 59 | 1 | -0.1171 | 0.0510 | 5.27 | 0.0217 |
| Age | 65 + | 1 | 0.1312 | 0.0521 | 6.33 | 0.0119 |
| APR-DRG | '0212' | 1 | 1.1137 | 0.0703 | 250.85 | 0.0000 |
| APR-DRG | '0213' | 1 | 3.0644 | 0.0668 | 2106.05 | 0.0000 |
| APR-DRG | '0214' | 1 | 4.7000 | 0.0768 | 3743.80 | 0.0000 |
| APR-DRG | '0221' to '0222' | 1 | -1.0338 | 0.1228 | 70.86 | 0.0000 |
| APR-DRG | '0223' | 1 | 1.9694 | 0.1944 | 102.67 | 0.0000 |
| APR-DRG | '0224' | 1 | 3.7246 | 0.1234 | 911.07 | 0.0000 |
| APR-DRG | '0231' to '0232' | 1 | -1.8108 | 0.2761 | 43.02 | 0.0000 |
| APR-DRG | '0233' to '0234' | 1 | 1.8521 | 0.2198 | 71.03 | 0.0000 |
| APR-DRG | '0241' to '0242' | 1 | 0.3066 | 0.0991 | 9.57 | 0.0020 |
| APR-DRG | '0243' | 1 | 3.2199 | 0.1455 | 490.04 | 0.0000 |
| APR-DRG | '0244' | 1 | 5.0484 | 0.1899 | 706.97 | 0.0000 |
| MDC | 1 | 1 | 1.3295 | 0.0921 | 208.53 | 0.0000 |
| TRANSFER | Transfer-in | 1 | 0.4226 | 0.0638 | 43.93 | 0.0000 |

c-statistic 0.896

Table 6. Risk Adjustment Coefficients for IQI #14 – Hip Replacement Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -7.1682 | 0.4385 | 267.19 | 0.0000 |
| Sex | Female | 1 | -0.2050 | 0.1033 | 3.94 | 0.0472 |
| Age | 18 to 59 | 1 | -0.0732 | 0.1649 | 0.20 | 0.6573 |
| Age | 65 + | 1 | 0.2810 | 0.2404 | 1.37 | 0.2425 |
| APR-DRG | '3013' to '3014' | 1 | 4.3935 | 0.2656 | 273.69 | 0.0000 |
| MDC | 8 | 1 | 1.8642 | 0.4933 | 14.28 | 0.0002 |
| MDC | Other | 1 | 2.3639 | 0.6674 | 12.54 | 0.0004 |

c-statistic 0.764

Table 7. Risk Adjustment Coefficients for IQI #15 – Acute Myocardial Infarction (AMI) Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.7535 | 0.0485 | 9591.97 | 0.0000 |
| Age | 18 to 39 | 1 | -0.6348 | 0.0657 | 93.31 | 0.0000 |
| Age | 40 to 44 | 1 | -0.6954 | 0.0591 | 138.54 | 0.0000 |
| Age | 45 to 49 | 1 | -0.4571 | 0.0398 | 131.93 | 0.0000 |
| Age | 50 to 54 | 1 | -0.3593 | 0.0342 | 110.41 | 0.0000 |
| Age | 55 to 59 | 1 | -0.2236 | 0.0316 | 50.10 | 0.0000 |
| Age | 65 to 69 | 1 | 0.1406 | 0.0247 | 32.31 | 0.0000 |
| Age | 80 to 84 | 1 | 0.1903 | 0.0299 | 40.57 | 0.0000 |
| Age | 85+ | 1 | 0.3380 | 0.0289 | 136.48 | 0.0000 |
| APR-DRG | '1611' to '1612' | 1 | -0.0552 | 0.2468 | 0.05 | 0.8232 |
| APR-DRG | '1613' to '1614' | 1 | 2.1458 | 0.0947 | 513.84 | 0.0000 |
| APR-DRG | '1621' to '1622' | 1 | 0.9282 | 0.1961 | 22.40 | 0.0000 |
| APR-DRG | '1623' | 1 | 2.7030 | 0.1355 | 397.81 | 0.0000 |
| APR-DRG | '1624' | 1 | 4.4079 | 0.1170 | 1419.15 | 0.0000 |
| APR-DRG | '1651' to '1652' | 1 | 0.0356 | 0.0719 | 0.24 | 0.6207 |
| APR-DRG | '1653' | 1 | 1.5778 | 0.0644 | 600.70 | 0.0000 |
| APR-DRG | '1654' | 1 | 3.8812 | 0.0704 | 3038.96 | 0.0000 |
| APR-DRG | '1731' to '1734' | 1 | 2.8096 | 0.0967 | 843.53 | 0.0000 |
| APR-DRG | '1742' | 1 | 0.3628 | 0.0448 | 65.61 | 0.0000 |
| APR-DRG | '1743' | 1 | 2.0598 | 0.0514 | 1605.21 | 0.0000 |
| APR-DRG | '1744' | 1 | 4.0112 | 0.0495 | 6560.05 | 0.0000 |
| APR-DRG | '1901' | 1 | 0.1650 | 0.0661 | 6.23 | 0.0125 |
| APR-DRG | '1902' | 1 | 1.2140 | 0.0480 | 638.38 | 0.0000 |
| APR-DRG | '1903' | 1 | 2.4343 | 0.0433 | 3161.12 | 0.0000 |
| APR-DRG | '1904' | 1 | 4.3754 | 0.0463 | 8921.21 | 0.0000 |
| MDC | 5 | 1 | 2.3079 | 0.0494 | 2181.68 | 0.0000 |
| TRANSFER | Transfer-in | 1 | -0.0391 | 0.0204 | 3.69 | 0.0548 |

c-statistic 0.871

Table 8. Risk Adjustment Coefficients for IQI #16 – Congestive Heart Failure (CHF) Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.7386 | 0.0478 | 9823.62 | 0.0000 |
| Sex | Female | 1 | -0.0982 | 0.0121 | 66.03 | 0.0000 |
| Age | 18 to 49 | 1 | -0.3071 | 0.0381 | 65.08 | 0.0000 |
| Age | 50 to 54 | 1 | -0.2455 | 0.0420 | 34.13 | 0.0000 |
| Age | 55 to 59 | 1 | -0.2098 | 0.0370 | 32.20 | 0.0000 |
| Age | 65 to 84 | 1 | 0.1192 | 0.0258 | 21.36 | 0.0000 |
| Age | 85+ | 1 | 0.6621 | 0.0268 | 610.28 | 0.0000 |
| APR-DRG | '1611' | 1 | -1.3985 | 0.2073 | 45.53 | 0.0000 |
| APR-DRG | '1612' | 1 | -1.0034 | 0.1293 | 60.23 | 0.0000 |
| APR-DRG | '1613' | 1 | 0.3671 | 0.1013 | 13.14 | 0.0003 |
| APR-DRG | '1614' | 1 | 2.6775 | 0.1104 | 587.87 | 0.0000 |
| APR-DRG | '1621' to '1622' | 1 | 1.5101 | 0.2359 | 40.97 | 0.0000 |
| APR-DRG | '1623' | 1 | 2.1899 | 0.1211 | 327.07 | 0.0000 |
| APR-DRG | '1624' | 1 | 4.5088 | 0.1544 | 852.60 | 0.0000 |
| APR-DRG | '1751' to '1753' | 1 | 0.2959 | 0.0958 | 9.54 | 0.0020 |
| APR-DRG | '1754' | 1 | 3.1054 | 0.1047 | 879.08 | 0.0000 |
| APR-DRG | '1801' | 1 | 1.0751 | 0.3914 | 7.55 | 0.0060 |
| APR-DRG | '1802' | 1 | 0.9596 | 0.1761 | 29.69 | 0.0000 |
| APR-DRG | '1803' | 1 | 1.4712 | 0.1176 | 156.54 | 0.0000 |
| APR-DRG | '1804' | 1 | 3.2079 | 0.1261 | 647.63 | 0.0000 |
| APR-DRG | '1911' to '1912' | 1 | -0.8531 | 0.0888 | 92.24 | 0.0000 |
| APR-DRG | '1913' | 1 | 0.9694 | 0.0771 | 158.29 | 0.0000 |
| APR-DRG | '1914' | 1 | 3.2034 | 0.0803 | 1592.64 | 0.0000 |
| APR-DRG | '1942' | 1 | 0.3396 | 0.0346 | 96.30 | 0.0000 |
| APR-DRG | '1943' | 1 | 1.6788 | 0.0355 | 2230.86 | 0.0000 |

**Inpatient Quality Indicators (IQI)
Risk Adjustment Coefficients for the IQI, Version 4.3**

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---|----|----------|----------------|-----------------|-----------------|
| APR-DRG | '1944' | 1 | 3.4513 | 0.0396 | 7600.26 | 0.0000 |
| MDC | Other | 1 | 1.5338 | 0.0462 | 1101.84 | 0.0000 |
| TRANSFER | Transfer-in | 1 | 0.9006 | 0.0427 | 444.22 | 0.0000 |
| NOPOUB04 | UB-04 Point-of- Origin Data Not Available | 1 | 0.0300 | 0.0209 | 2.07 | 0.1498 |

c-statistic 0.784

Table 9. Risk Adjustment Coefficients for IQI #17 – Acute Stroke Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.7627 | 0.0487 | 9549.41 | 0.0000 |
| Sex | Female | 1 | 0.0918 | 0.0129 | 51.05 | 0.0000 |
| Age | 18 to 59 | 1 | -0.0947 | 0.0262 | 13.02 | 0.0003 |
| Age | 65 to 84 | 1 | 0.1341 | 0.0261 | 26.39 | 0.0000 |
| Age | 85+ | 1 | 0.6066 | 0.0277 | 478.46 | 0.0000 |
| APR-DRG | '0211' | 1 | 1.2967 | 0.0971 | 178.17 | 0.0000 |
| APR-DRG | '0212' | 1 | 2.0685 | 0.0646 | 1024.82 | 0.0000 |
| APR-DRG | '0213' | 1 | 3.5256 | 0.0483 | 5321.39 | 0.0000 |
| APR-DRG | '0214' | 1 | 5.4325 | 0.0657 | 6843.44 | 0.0000 |
| APR-DRG | '0221' | 1 | 2.3263 | 0.5307 | 19.21 | 0.0000 |
| APR-DRG | '0222' | 1 | 2.5978 | 0.6403 | 16.46 | 0.0000 |
| APR-DRG | '0223' to '0224' | 1 | 4.0354 | 0.1170 | 1189.08 | 0.0000 |
| APR-DRG | '0231' to '0232' | 1 | -0.0833 | 0.7142 | 0.01 | 0.9071 |
| APR-DRG | '0233' | 1 | 2.2575 | 0.6295 | 12.86 | 0.0003 |
| APR-DRG | '0234' | 1 | 4.5973 | 0.5751 | 63.90 | 0.0000 |
| APR-DRG | '0241' | 1 | 1.2609 | 0.1608 | 61.52 | 0.0000 |
| APR-DRG | '0242' | 1 | 0.8381 | 0.1035 | 65.54 | 0.0000 |
| APR-DRG | '0243' | 1 | 2.8074 | 0.1087 | 666.46 | 0.0000 |
| APR-DRG | '0244' | 1 | 5.3720 | 0.1600 | 1127.48 | 0.0000 |
| APR-DRG | '0261' to '0263' | 1 | 0.4089 | 0.1669 | 6.00 | 0.0143 |
| APR-DRG | '0264' | 1 | 3.2604 | 0.2721 | 143.61 | 0.0000 |
| APR-DRG | '0441' | 1 | 2.3561 | 0.0502 | 2203.15 | 0.0000 |
| APR-DRG | '0442' | 1 | 2.3939 | 0.0380 | 3970.34 | 0.0000 |
| APR-DRG | '0443' | 1 | 3.6647 | 0.0450 | 6625.20 | 0.0000 |
| APR-DRG | '0444' | 1 | 5.8159 | 0.0449 | 16785.01 | 0.0000 |
| APR-DRG | '0452' | 1 | 1.0170 | 0.0338 | 906.06 | 0.0000 |

**Inpatient Quality Indicators (IQI)
Risk Adjustment Coefficients for the IQI, Version 4.3**

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---|----|----------|----------------|-----------------|-----------------|
| APR-DRG | '0453' | 1 | 2.3968 | 0.0386 | 3862.86 | 0.0000 |
| APR-DRG | '0454' | 1 | 4.5865 | 0.0415 | 12198.25 | 0.0000 |
| MDC | OTHER | 1 | 2.1975 | 0.0487 | 2038.50 | 0.0000 |
| NOPOUB04 | UB-04 Point-of-Origin Data Not Available | 1 | -0.0053 | 0.0235 | 0.05 | 0.8199 |

c-statistic 0.894

Table 10. Risk Adjustment Coefficients for IQI #18 – Gastrointestinal Hemorrhage Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.2153 | 0.0697 | 5595.93 | 0.0000 |
| Age | 18 to 59 | 1 | -0.1733 | 0.0494 | 12.31 | 0.0004 |
| Age | 65+ | 1 | 0.1454 | 0.0470 | 9.59 | 0.0020 |
| APR-DRG | '2201' | 1 | 1.4052 | 0.2493 | 31.77 | 0.0000 |
| APR-DRG | '2202' | 1 | 2.5315 | 0.1298 | 380.17 | 0.0000 |
| APR-DRG | '2203' | 1 | 3.3609 | 0.1180 | 811.71 | 0.0000 |
| APR-DRG | '2204' | 1 | 5.0554 | 0.1156 | 1911.36 | 0.0000 |
| APR-DRG | '2211' | 1 | 0.7506 | 0.2236 | 11.27 | 0.0008 |
| APR-DRG | '2212' | 1 | 2.0235 | 0.1373 | 217.22 | 0.0000 |
| APR-DRG | '2213' | 1 | 3.0474 | 0.1224 | 619.54 | 0.0000 |
| APR-DRG | '2214' | 1 | 5.1812 | 0.1305 | 1576.83 | 0.0000 |
| APR-DRG | '2411' to '2413' | 1 | 0.3547 | 0.0618 | 32.92 | 0.0000 |
| APR-DRG | '2414' | 1 | 3.7847 | 0.0734 | 2662.12 | 0.0000 |
| APR-DRG | '2421' to '2423' | 1 | 0.6748 | 0.0884 | 58.22 | 0.0000 |
| APR-DRG | '2424' | 1 | 4.2938 | 0.1081 | 1577.52 | 0.0000 |
| APR-DRG | '2441' to '2442' | 1 | -1.0253 | 0.1055 | 94.51 | 0.0000 |
| APR-DRG | '2443' | 1 | 1.2019 | 0.1083 | 123.08 | 0.0000 |
| APR-DRG | '2444' | 1 | 3.3347 | 0.1200 | 772.10 | 0.0000 |
| APR-DRG | '2532' | 1 | 0.9608 | 0.0621 | 239.43 | 0.0000 |
| APR-DRG | '2533' | 1 | 2.5538 | 0.0612 | 1742.20 | 0.0000 |
| APR-DRG | '2534' | 1 | 4.4473 | 0.0696 | 4085.73 | 0.0000 |
| APR-DRG | '2541' to '2534' | 1 | 0.8521 | 0.0764 | 124.47 | 0.0000 |
| APR-DRG | '2544' | 1 | 4.3364 | 0.1069 | 1645.74 | 0.0000 |
| MDC | Other | 1 | 1.5317 | 0.0659 | 540.39 | 0.0000 |
| TRANSFER | Transfer-in | 1 | 0.6387 | 0.0633 | 101.67 | 0.0000 |

c-statistic 0.831

Table 11. Risk Adjustment Coefficients for IQI #19 – Hip Fracture Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.2742 | 0.1157 | 2079.37 | 0.0000 |
| Sex | Female | 1 | -0.5344 | 0.0316 | 286.40 | 0.0000 |
| Age | 70 to 84 | 1 | 0.3133 | 0.0863 | 13.17 | 0.0003 |
| Age | 85+ | 1 | 0.9489 | 0.0838 | 128.27 | 0.0000 |
| APR-DRG | '3011' to '3012' | 1 | 0.3439 | 0.0685 | 25.23 | 0.0000 |
| APR-DRG | '3013' | 1 | 2.3914 | 0.0770 | 964.26 | 0.0000 |
| APR-DRG | '3014' | 1 | 4.9707 | 0.0988 | 2530.25 | 0.0000 |
| APR-DRG | '3082' | 1 | 0.4856 | 0.0709 | 46.84 | 0.0000 |
| APR-DRG | '3083' | 1 | 2.0972 | 0.0754 | 774.11 | 0.0000 |
| APR-DRG | '3084' | 1 | 4.8447 | 0.0909 | 2840.47 | 0.0000 |
| APR-DRG | '3401' | 1 | 1.3236 | 0.1222 | 117.28 | 0.0000 |
| APR-DRG | '3402' | 1 | 2.2756 | 0.0750 | 921.05 | 0.0000 |
| APR-DRG | '3403' | 1 | 3.8459 | 0.0853 | 2034.94 | 0.0000 |
| APR-DRG | '3404' | 1 | 6.0672 | 0.1359 | 1992.07 | 0.0000 |
| MDC | 8 | 1 | 1.5530 | 0.0777 | 399.55 | 0.0000 |
| MDC | 24 | 1 | 2.2594 | 0.0922 | 600.80 | 0.0000 |
| TRNSFER | Transfer-in | 1 | -0.2298 | 0.1055 | 4.75 | 0.0293 |
| NOPOUB04 | UB-04 Point-of-Origin Data Not Available | 1 | -0.0182 | 0.0436 | 0.17 | 0.6768 |

c-statistic 0.800

Table 12. Risk Adjustment Coefficients for IQI #20 – Pneumonia Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.1471 | 0.0418 | 15145.55 | 0.0000 |
| Sex | Female | 1 | -0.1205 | 0.0119 | 101.74 | 0.0000 |
| Age | 18 to 24 | 1 | -1.0815 | 0.0913 | 140.41 | 0.0000 |
| Age | 25 to 29 | 1 | -0.8321 | 0.0926 | 80.79 | 0.0000 |
| Age | 30 to 34 | 1 | -0.9834 | 0.0875 | 126.32 | 0.0000 |
| Age | 35 to 39 | 1 | -0.7791 | 0.0726 | 115.19 | 0.0000 |
| Age | 40 to 44 | 1 | -0.7292 | 0.0568 | 164.87 | 0.0000 |
| Age | 45 to 49 | 1 | -0.4345 | 0.0475 | 83.67 | 0.0000 |
| Age | 50 to 54 | 1 | -0.2703 | 0.0430 | 39.53 | 0.0000 |
| Age | 55 to 59 | 1 | -0.1285 | 0.0385 | 11.12 | 0.0009 |
| Age | 80 to 84 | 1 | 0.1960 | 0.0270 | 52.59 | 0.0000 |
| Age | 85+ | 1 | 0.7555 | 0.0298 | 644.38 | 0.0000 |
| APR-DRG | '1211' | 1 | 1.2454 | 0.2133 | 34.10 | 0.0000 |
| APR-DRG | '1212' | 1 | 2.1202 | 0.2075 | 104.37 | 0.0000 |
| APR-DRG | '1213' | 1 | 3.4063 | 0.1268 | 721.48 | 0.0000 |
| APR-DRG | '1214' | 1 | 5.8256 | 0.2054 | 804.35 | 0.0000 |
| APR-DRG | '1301' | 1 | 3.3127 | 0.1144 | 838.93 | 0.0000 |
| APR-DRG | '1302' | 1 | 3.8681 | 0.0605 | 4083.03 | 0.0000 |
| APR-DRG | '1303' to '1304' | 1 | 4.8811 | 0.0494 | 9767.43 | 0.0000 |
| APR-DRG | '1371' | 1 | -0.0784 | 0.1387 | 0.32 | 0.5717 |
| APR-DRG | '1372' | 1 | 1.2626 | 0.0473 | 712.86 | 0.0000 |
| APR-DRG | '1373' | 1 | 2.5489 | 0.0412 | 3833.23 | 0.0000 |
| APR-DRG | '1374' | 1 | 3.9893 | 0.0508 | 6170.21 | 0.0000 |
| APR-DRG | '1392' | 1 | 1.0461 | 0.0314 | 1111.07 | 0.0000 |
| APR-DRG | '1393' | 1 | 2.5516 | 0.0324 | 6188.34 | 0.0000 |
| APR-DRG | '1394' | 1 | 4.3524 | 0.0392 | 12335.05 | 0.0000 |
| MDC | 4 | 1 | 2.0988 | 0.0442 | 2250.63 | 0.0000 |
| MDC | 25 | 1 | 1.7282 | 0.0952 | 329.45 | 0.0000 |
| TRANSFER | Transfer-in | 1 | 0.6992 | 0.0388 | 323.96 | 0.0000 |

c-statistic 0.849

Table 13. Risk Adjustment Coefficients for IQI #30 – Percutaneous Transluminal Coronary Angioplasty (PTCA) Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|--|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -7.2926 | 0.0857 | 7233.68 | 0.0000 |
| Sex | Female | 1 | 0.1467 | 0.0249 | 34.66 | 0.0000 |
| Age | 40 to 59 | 1 | -0.3361 | 0.0444 | 57.22 | 0.0000 |
| Age | 65 to 74 | 1 | 0.0914 | 0.0438 | 4.35 | 0.0371 |
| Age | 75 to 79 | 1 | 0.3097 | 0.0473 | 42.95 | 0.0000 |
| Age | 80 to 84 | 1 | 0.5863 | 0.0483 | 147.41 | 0.0000 |
| Age | 85+ | 1 | 0.9693 | 0.0536 | 326.61 | 0.0000 |
| APR-DRG | '1653' to '1654' | 1 | 4.9493 | 0.0936 | 2798.12 | 0.0000 |
| APR-DRG | '1741' | 1 | 0.8002 | 0.0868 | 84.97 | 0.0000 |
| APR-DRG | '1742' | 1 | 2.3827 | 0.0732 | 1058.82 | 0.0000 |
| APR-DRG | '1743' | 1 | 4.1900 | 0.0724 | 3347.25 | 0.0000 |
| APR-DRG | '1744' | 1 | 6.2470 | 0.0733 | 7268.94 | 0.0000 |
| APR-DRG | '1752' | 1 | 0.4628 | 0.0832 | 30.94 | 0.0000 |
| APR-DRG | '1753' | 1 | 2.5835 | 0.0906 | 812.91 | 0.0000 |
| APR-DRG | '1754' | 1 | 5.6365 | 0.0833 | 4578.43 | 0.0000 |
| MDC | 4 | 1 | 4.4364 | 0.0932 | 2268.08 | 0.0000 |
| MDC | 5 | 1 | 3.0131 | 0.0847 | 1265.33 | 0.0000 |
| MDC | 8 | 1 | 4.2351 | 0.1252 | 1145.12 | 0.0000 |
| MDC | 18 | 1 | 5.0924 | 0.1220 | 1741.27 | 0.0000 |
| MDC | Other | 1 | 4.1433 | 0.0853 | 2361.21 | 0.0000 |
| TRANSFER | Transfer-in | 1 | 0.0895 | 0.0402 | 4.96 | 0.0259 |
| NOPOUB04 | UB-04 Point-of-Origin Data Not Available | 1 | 0.0628 | 0.0392 | 2.56 | 0.1096 |

c-statistic 0.935

Table 14. Risk Adjustment Coefficients for IQI #31 – Carotid Endarterectomy Mortality Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -7.6866 | 0.2575 | 890.75 | 0.0000 |
| Age | 18 to 59 | 1 | -0.1385 | 0.2225 | 0.39 | 0.5335 |
| Age | 65+ | 1 | 0.3525 | 0.1794 | 3.86 | 0.0494 |
| APR-DRG | '0242' to '0244' | 1 | 2.5707 | 0.2054 | 156.68 | 0.0000 |
| MDC | 1 | 1 | 2.2348 | 0.2459 | 82.59 | 0.0000 |
| MDC | 5 | 1 | 4.1208 | 0.2094 | 387.34 | 0.0000 |
| MDC | Other | 1 | 3.8342 | 0.2674 | 205.63 | 0.0000 |

c-statistic 0.789

Table 15. Risk Adjustment Coefficients for IQI #32 – Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|------------------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.7136 | 0.0472 | 9960.70 | 0.0000 |
| Age | 18 to 39 | 1 | -0.6637 | 0.0737 | 80.99 | 0.0000 |
| Age | 40 to 44 | 1 | -0.7856 | 0.0628 | 156.48 | 0.0000 |
| Age | 45 to 49 | 1 | -0.4764 | 0.0447 | 113.35 | 0.0000 |
| Age | 50 to 54 | 1 | -0.3640 | 0.0396 | 84.61 | 0.0000 |
| Age | 55 to 59 | 1 | -0.2395 | 0.0371 | 41.66 | 0.0000 |
| Age | 65 to 84 | 1 | 0.1292 | 0.0276 | 21.82 | 0.0000 |
| Age | 85+ | 1 | 0.2972 | 0.0312 | 90.87 | 0.0000 |
| APR-DRG | '1611' to '1614' | 1 | 1.4544 | 0.1015 | 205.19 | 0.0000 |
| APR-DRG | '1621' to '1622' | 1 | 1.0240 | 0.2074 | 24.38 | 0.0000 |
| APR-DRG | '1623' | 1 | 2.7545 | 0.1543 | 318.51 | 0.0000 |
| APR-DRG | '1624' | 1 | 4.3798 | 0.1314 | 1110.34 | 0.0000 |
| APR-DRG | '1651' to '1652' | 1 | -0.0475 | 0.0801 | 0.35 | 0.5537 |
| APR-DRG | '1653' | 1 | 1.5013 | 0.0671 | 500.87 | 0.0000 |
| APR-DRG | '1654' | 1 | 3.8380 | 0.0765 | 2519.60 | 0.0000 |
| APR-DRG | '1731' to '1734' | 1 | 2.7570 | 0.1106 | 621.74 | 0.0000 |
| APR-DRG | '1742' | 1 | 0.3342 | 0.0469 | 50.74 | 0.0000 |
| APR-DRG | '1743' | 1 | 2.0583 | 0.0523 | 1551.41 | 0.0000 |
| APR-DRG | '1744' | 1 | 3.9692 | 0.0466 | 7259.03 | 0.0000 |
| APR-DRG | '1901' | 1 | 0.1864 | 0.0719 | 6.72 | 0.0095 |
| APR-DRG | '1902' | 1 | 1.1952 | 0.0429 | 777.31 | 0.0000 |
| APR-DRG | '1903' | 1 | 2.4304 | 0.0421 | 3326.74 | 0.0000 |
| APR-DRG | '1904' | 1 | 4.3265 | 0.0446 | 9417.53 | 0.0000 |
| MDC | 5 | 1 | 2.2998 | 0.0528 | 1896.09 | 0.0000 |

c-statistic 0.864

Table 16. Risk Adjustment Coefficients for IQI #26 – Coronary Artery Bypass Graft (CABG) Admission Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.13510 | 0.00599 | 735574.74 | <.0001 |
| SEX | Female | 1 | -1.10380 | 0.01140 | 9325.41 | <.0001 |
| AGE5 | Males | | | | | |
| AGE6 | Males | | | | | |
| AGE7 | Males | | | | | |
| AGE8 | Males | | | | | |
| AGE9 | Males | 1 | -2.77690 | 0.01860 | 22203.99 | <.0001 |
| AGE10 | Males | 1 | -1.90130 | 0.01260 | 22618.56 | <.0001 |
| AGE11 | Males | 1 | -1.26180 | 0.01020 | 15161.52 | <.0001 |
| AGE12 | Males | 1 | -0.72080 | 0.00905 | 6341.19 | <.0001 |
| AGE13 | Males | 1 | -0.33460 | 0.00859 | 1517.55 | <.0001 |
| AGE14 | Males | | | | | |
| AGE15 | Males | 1 | 0.13500 | 0.00879 | 235.98 | <.0001 |
| AGE16 | Males | 1 | 0.18300 | 0.00924 | 392.67 | <.0001 |
| AGE17 | Males | 1 | -0.06060 | 0.01100 | 30.26 | <.0001 |
| AGE18 | Males | 1 | -1.08300 | 0.01790 | 3671.35 | <.0001 |
| AGE5 | Females | | | | | |
| AGE6 | Females | | | | | |
| AGE7 | Females | | | | | |
| AGE8 | Females | | | | | |
| AGE9 | Females | 1 | 0.04660 | 0.03650 | 1.63 | 0.20180 |
| AGE10 | Females | 1 | -0.08280 | 0.02550 | 10.57 | 0.00110 |
| AGE11 | Females | 1 | -0.18360 | 0.02100 | 76.11 | <.0001 |
| AGE12 | Females | 1 | -0.16770 | 0.01830 | 84.32 | <.0001 |
| AGE13 | Females | 1 | -0.10180 | 0.01690 | 36.30 | <.0001 |

**Inpatient Quality Indicators (IQI)
Risk Adjustment Coefficients for the IQI, Version 4.3**

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| AGE14 | Females | | | | | |
| AGE15 | Females | 1 | 0.09940 | 0.01630 | 37.25 | <.0001 |
| AGE16 | Females | 1 | 0.19660 | 0.01650 | 142.13 | <.0001 |
| AGE17 | Females | 1 | 0.21030 | 0.01880 | 125.04 | <.0001 |
| AGE18 | Females | 1 | 0.00326 | 0.02900 | 0.01 | 0.91070 |

c-statistic 0.717

Table 17. Risk Adjustment Coefficients for IQI #27 – Percutaneous transluminal coronary angioplasty (PTCA) Admission Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -4.35750 | 0.00409 | 1136974.44 | <.0001 |
| SEX | Female | 1 | -0.80520 | 0.00702 | 13160.51 | <.0001 |
| AGE5 | Males | 0 | 0.00000 | . | . | . |
| AGE6 | Males | 0 | 0.00000 | . | . | . |
| AGE7 | Males | 0 | 0.00000 | . | . | . |
| AGE8 | Males | 0 | 0.00000 | . | . | . |
| AGE9 | Males | 1 | -1.92620 | 0.00883 | 47563.19 | <.0001 |
| AGE10 | Males | 1 | -1.24710 | 0.00682 | 33460.81 | <.0001 |
| AGE11 | Males | 1 | -0.79020 | 0.00606 | 17016.05 | <.0001 |
| AGE12 | Males | 1 | -0.45980 | 0.00576 | 6371.43 | <.0001 |
| AGE13 | Males | 1 | -0.22950 | 0.00571 | 1617.42 | <.0001 |
| AGE14 | Males | 0 | 0.00000 | . | . | . |
| AGE15 | Males | 1 | 0.08360 | 0.00609 | 188.62 | <.0001 |
| AGE16 | Males | 1 | 0.10900 | 0.00644 | 286.22 | <.0001 |
| AGE17 | Males | 1 | 0.01870 | 0.00732 | 6.49 | 0.01080 |
| AGE18 | Males | 1 | -0.51530 | 0.00956 | 2904.83 | <.0001 |
| AGE5 | Females | 0 | 0.00000 | . | . | . |
| AGE6 | Females | 0 | 0.00000 | . | . | . |
| AGE7 | Females | 0 | 0.00000 | . | . | . |
| AGE8 | Females | 0 | 0.00000 | . | . | . |
| AGE9 | Females | 1 | -0.30690 | 0.01720 | 318.79 | <.0001 |
| AGE10 | Females | 1 | -0.31900 | 0.01300 | 606.56 | <.0001 |
| AGE11 | Females | 1 | -0.32600 | 0.01140 | 823.91 | <.0001 |
| AGE12 | Females | 1 | -0.25200 | 0.01050 | 573.65 | <.0001 |
| AGE13 | Females | 1 | -0.11980 | 0.01010 | 140.95 | <.0001 |

**Inpatient Quality Indicators (IQI)
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| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| AGE14 | Females | 0 | 0.00000 | . | . | . |
| AGE15 | Females | 1 | 0.11180 | 0.01010 | 121.50 | <.0001 |
| AGE16 | Females | 1 | 0.22370 | 0.01040 | 466.79 | <.0001 |
| AGE17 | Females | 1 | 0.28050 | 0.01130 | 619.69 | <.0001 |
| AGE18 | Females | 1 | 0.27170 | 0.01370 | 393.63 | <.0001 |

c-statistic 0.697

Table 18. Risk Adjustment Coefficients for IQI #28 – Hysterectomy Admission Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -6.07050 | 0.00895 | 459644.54 | <.0001 |
| SEX | Female | | | | | |
| AGE5 | Females | 1 | -2.76240 | 0.02630 | 11035.18 | <.0001 |
| AGE6 | Females | 1 | -0.60580 | 0.01310 | 2137.69 | <.0001 |
| AGE7 | Females | 1 | 0.38760 | 0.01080 | 1282.44 | <.0001 |
| AGE8 | Females | 1 | 1.07450 | 0.00990 | 11790.97 | <.0001 |
| AGE9 | Females | 1 | 1.49080 | 0.00956 | 24304.74 | <.0001 |
| AGE10 | Females | 1 | 1.48960 | 0.00952 | 24460.26 | <.0001 |
| AGE11 | Females | 1 | 0.87460 | 0.01000 | 7607.23 | <.0001 |
| AGE12 | Females | 1 | 0.13910 | 0.01130 | 151.41 | <.0001 |
| AGE13 | Females | 1 | -0.03930 | 0.01210 | 10.53 | 0.00120 |
| AGE14 | Females | | | | | |
| AGE15 | Females | 1 | -0.18150 | 0.01410 | 165.55 | <.0001 |
| AGE16 | Females | 1 | -0.44380 | 0.01600 | 767.60 | <.0001 |
| AGE17 | Females | 1 | -1.02960 | 0.02140 | 2318.32 | <.0001 |
| AGE18 | Females | 1 | -2.08720 | 0.03270 | 4076.66 | <.0001 |

c-statistic 0.727

Table 19. Risk Adjustment Coefficients for IQI #29 – Laminectomy/Spinal Fusion Admission Rate

| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| Intercept | | 1 | -5.15690 | 0.00605 | 726024.23 | <.0001 |
| SEX | Female | 1 | -0.02330 | 0.00835 | 7.80 | 0.00520 |
| AGE5 | Males | 1 | -2.53110 | 0.01490 | 28897.15 | <.0001 |
| AGE6 | Males | 1 | -1.97830 | 0.01320 | 22293.67 | <.0001 |
| AGE7 | Males | 1 | -1.36930 | 0.01100 | 15637.47 | <.0001 |
| AGE8 | Males | 1 | -0.94600 | 0.00945 | 10012.98 | <.0001 |
| AGE9 | Males | 1 | -0.70580 | 0.00877 | 6474.12 | <.0001 |
| AGE10 | Males | 1 | -0.50490 | 0.00826 | 3741.14 | <.0001 |
| AGE11 | Males | 1 | -0.38980 | 0.00814 | 2291.34 | <.0001 |
| AGE12 | Males | 1 | -0.30690 | 0.00824 | 1388.63 | <.0001 |
| AGE13 | Males | 1 | -0.22230 | 0.00844 | 692.87 | <.0001 |
| AGE14 | Males | | | | | |
| AGE15 | Males | 1 | 0.04210 | 0.00911 | 21.38 | <.0001 |
| AGE16 | Males | 1 | 0.00467 | 0.00984 | 0.22 | 0.63530 |
| AGE17 | Males | 1 | -0.28790 | 0.01210 | 566.98 | <.0001 |
| AGE18 | Males | 1 | -1.03430 | 0.01770 | 3420.70 | <.0001 |
| AGE5 | Females | 1 | -0.16720 | 0.02210 | 57.03 | <.0001 |
| AGE6 | Females | 1 | -0.11840 | 0.01940 | 37.34 | <.0001 |
| AGE7 | Females | 1 | -0.10240 | 0.01580 | 41.91 | <.0001 |
| AGE8 | Females | 1 | -0.05030 | 0.01340 | 14.10 | 0.00020 |
| AGE9 | Females | 1 | 0.01360 | 0.01230 | 1.23 | 0.26650 |
| AGE10 | Females | 1 | 0.04350 | 0.01150 | 14.42 | 0.00010 |
| AGE11 | Females | 1 | -0.00108 | 0.01140 | 0.01 | 0.92390 |
| AGE12 | Females | 1 | -0.03740 | 0.01150 | 10.51 | 0.00120 |
| AGE13 | Females | 1 | -0.00828 | 0.01170 | 0.50 | 0.48020 |

**Inpatient Quality Indicators (IQI)
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| PARAMETER | LABEL | DF | ESTIMATE | STANDARD ERROR | WALD CHI-SQUARE | PR > CHI-SQUARE |
|-----------|---------|----|----------|----------------|-----------------|-----------------|
| AGE14 | Females | | | | | |
| AGE15 | Females | 1 | -0.03330 | 0.01250 | 7.06 | 0.00790 |
| AGE16 | Females | 1 | -0.11380 | 0.01350 | 71.09 | <.0001 |
| AGE17 | Females | 1 | -0.17300 | 0.01640 | 111.95 | <.0001 |
| AGE18 | Females | 1 | -0.43390 | 0.02380 | 333.31 | <.0001 |

c-statistic 0.648

Table A.1. Population Age Categories

| POPCAT | AGE RANGE |
|--------|-----------|
| 1 | low - 4 |
| 2 | 5 - 9 |
| 3 | 10 - 14 |
| 4 | 15 - 17 |
| 5 | 18 - 24 |
| 6 | 25 - 29 |
| 7 | 30 - 34 |
| 8 | 35 - 39 |
| 9 | 40 - 44 |
| 10 | 45 - 49 |
| 11 | 50 - 54 |
| 12 | 55 - 59 |
| 13 | 60 - 64 |
| 14 | 65 - 69 |
| 15 | 70 - 74 |
| 16 | 75 - 79 |
| 17 | 80 - 84 |
| 18 | 85 - high |

Table A.2. Major Diagnostic Categories (MDC)

| MDC | DESCRIPTION |
|-----|---|
| 1 | DISEASES & DISORDERS OF THE NERVOUS SYSTEM |
| 2 | DISEASES & DISORDERS OF THE EYE |
| 3 | DISEASES & DISORDERS OF THE EAR, NOSE, MOUTH & THROAT |
| 4 | DISEASES & DISORDERS OF THE RESPIRATORY SYSTEM |
| 5 | DISEASES & DISORDERS OF THE CIRCULATORY SYSTEM |
| 6 | DISEASES & DISORDERS OF THE DIGESTIVE SYSTEM |
| 7 | DISEASES & DISORDERS OF THE HEPATOBILIARY SYSTEM & PANCREAS |
| 8 | DISEASES & DISORDERS OF THE MUSCULOSKELETAL SYSTEM & CONN TISSUE |
| 9 | DISEASES & DISORDERS OF THE SKIN, SUBCUTANEOUS TISSUE & BREAST |
| 10 | ENDOCRINE, NUTRITIONAL & METABOLIC DISEASES & DISORDERS |
| 11 | DISEASES & DISORDERS OF THE KIDNEY & URINARY TRACT |
| 12 | DISEASES & DISORDERS OF THE MALE REPRODUCTIVE SYSTEM |
| 13 | DISEASES & DISORDERS OF THE FEMALE REPRODUCTIVE SYSTEM |
| 14 | PREGNANCY, CHILDBIRTH & THE PUERPERIUM |
| 15 | NEWBORNS & OTHER NEONATES WITH CONDTN ORIG IN PERINATAL PERIOD |
| 16 | DISEASES & DISORDERS OF BLOOD, BLOOD FORMING ORGANS, IMMUNOLOG DISORD |
| 17 | MYELOPROLIFERATIVE DISEASES & DISORDERS, POORLY DIFFERENTIATED NEOPLASM |
| 18 | INFECTIOUS & PARASITIC DISEASES, SYSTEMIC OR UNSPECIFIED SITES |
| 19 | MENTAL DISEASES & DISORDERS |
| 20 | ALCOHOL/DRUG USE & ALCOHOL/DRUG INDUCED ORGANIC MENTAL DISORDERS |
| 21 | INJURIES, POISONINGS & TOXIC EFFECTS OF DRUGS |
| 22 | BURNS |
| 23 | FACTORS INFLUENCING HLTH STAT & OTHR CONTACTS WITH HLTH SERVCS |
| 24 | MULTIPLE SIGNIFICANT TRAUMA |
| 25 | HUMAN IMMUNODEFICIENCY VIRUS INFECTIONS |

Table A.3. Transfer, Point of Origin, Ruptured

| CATEGORY | DESCRIPTION | DEFINITION |
|----------|--|--|
| TRNSFER | Transfer-in | If admission type (ATYPE) not equal to '4' (newborn) and - admission source (ASOURCE) equal to '2' (Another Hospital) or - point of origin (POINTOFORIGINUB04) equal to '4' (Transfer from a Hospital) |
| NOPOUB04 | UB-04 Point-of-Origin Data Not Available | If admission source (ASOURCE) is not equal to missing and point of origin (POINTOFORIGINUB04) is equal to missing |
| NOPRDAY | Procedure Days Data Not Available | If PRDAY1 and PRDAY2 and . . . PRDAYn is equal to missing, where n is the number of Procedure Codes reported the user's data. |
| RUPTURED | AAA Repair | ICD-9-CM diagnosis code 441.3 Abdominal aneurysm, ruptured |