Accidental Puncture or Laceration Rate

Patient Safety Indicators #25
Technical Specifications
Area-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

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.

Numerator

Discharges 18 years and older with ICD-9-CM code denoting technical difficulty (e.g., accidental cut, puncture, perforation, or laceration) in any diagnosis field (principal or secondary) of all medical and surgical discharges defined by specific DRGs or MS-DRGs.

ICD-9-CM Accidental puncture or laceration diagnosis codes:

Accidental cut, puncture, perforation, or hemorrhage during medical care:
E8700 SURGICAL OPERATION
E8701 INFUSION OR TRANSFUSION
E8702 KIDNEY DIALYSIS OR OTHER PERFUSION
E8703 INJECTION OR VACCINATION
E8704 ENDOSCOPIC EXAMINATION
E8705 ASPIRATION OF FLUID OR TISSUE, PUNCTURE, AND CATHETERIZATION

See Patient Safety Indicators Appendices:
- Appendix B – Medical Discharge DRGs
- Appendix C – Medical Discharge MS-DRGs
- Appendix D – Surgical Discharge DRGs
- Appendix E – Surgical Discharge MS-DRGs

Exclude cases:
- MDC 14 (pregnancy, childbirth, and puerperium).
- with ICD-9-CM code for spine surgery
• with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing), county (PSTCO=missing)

ICD-9-CM Spine surgery procedure codes:

0301 REMOVAL OF FOREIGN BODY FROM SPINAL CANAL
0302 REOPENING OF LAMINECTOMY SITE
0309 OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL
0353 REPAIR OF VERTEBRAL FRACTURE
036 LYSIS OF ADHESIONS OF SPINAL CORD AND NERVE ROOTS
8053 REPAIR OF THE ANULUS FIBROSUS WITH GRAFT OR PROSTHESIS (OCT08)
8054 OTHER AND UNSPECIFIED REPAIR OF THE ANULUS FIBROSUS (OCT08)
8100 SPINAL FUSION, NOT OTHERWISE SPECIFIED
8101 ATLAS-AXIS SPINAL FUSION
8102 OTHER CERVICAL FUSION, ANTERIOR TECHNIQUE
8103 OTHER CERVICAL FUSION, POSTERIOR TECHNIQUE
8104 DORSAL AND DORSOLUMBAR FUSION, ANTERIOR TECHNIQUE
8105 DORSAL AND DORSOLUMBAR FUSION, POSTERIOR TECHNIQUE
8106 LUMBAR AND LUMBOSACRAL FUSION, ANTERIOR TECHNIQUE
8107 LUMBAR AND LUMBOSACRAL FUSION, LATERAL TRANSVERSE PROCESS TECHNIQUE
8108 LUMBAR AND LUMBOSACRAL FUSION, POSTERIOR TECHNIQUE
8130 REFUSION OF SPINE, NOT OTHERWISE SPECIFIED
8131 REFUSION OF ATLAS-AXIS SPINE
8132 REFUSION OF OTHER CERVICAL SPINE, ANTERIOR TECHNIQUE
8133 REFUSION OF OTHER CERVICAL SPINE, POSTERIOR TECHNIQUE
8134 REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
8135 REFUSION OF DORSAL AND DORSOLUMBAR SPINE, POSTERIOR TECHNIQUE
8136 REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, ANTERIOR TECHNIQUE
8137 REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, LATERAL TRANSVERSE PROCESS TECHNIQUE
8138 REFUSION OF LUMBAR AND LUMBOSACRAL SPINE, POSTERIOR TECHNIQUE
8139 REFUSION OF SPINE, NOT ELSEWHERE CLASSIFIED

* code has code also instructions
**Denominator**

Discharges in the numerator are assigned to the denominator based on the Metro Area\(^1\) or county of the patient residence, not the Metro Area or county of the hospital where the discharge occurred.

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\(^1\) The term "metropolitan area" (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area or 3) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.