Accidental Puncture or Laceration Rate

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

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 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
### 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.