

Birth Trauma Rate – Injury to Neonate

Technical Specifications

Patient Safety Indicators 17 (PSI 17)

AHRQ Quality Indicators™, Version 4.5a, July 2014
Provider-Level Indicator
Type of Score: Rate

Description

Birth trauma injuries per 1,000 newborns. Excludes preterm infants with a birth weight less than 2,000 grams, cases with injury to brachial plexus, and cases with osteogenesis imperfecta.

[NOTE: The software provides the rate per newborn. However, common practice reports the measure as per 1,000 newborns. The user must multiply the rate obtained from the software by 1,000 to report events per 1,000 newborns.]

[NOTE: This indicator can be calculated in SAS QI Software Version 4.5 using either the PDI Module or the PSI #17 Standalone Module.]

Numerator

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any-listed ICD-9-CM diagnosis codes for birth trauma.

ICD-9-CM Birth trauma diagnosis codes:

7670	CEREBRAL HEM AT BIRTH	7675	FACIAL NERVE INJ-BIRTH
76711	EPICRANIAL SUBAPO HEMORR	7677	NERVE INJ NEC AT BIRTH
7673	BONE INJURY NEC AT BIRTH	7678	BIRTH TRAUMA NEC
7674	SPINAL CORD INJ AT BIRTH		

Denominator

All newborns.

See Patient Safety Indicators Appendices:

- Appendix M – Definitions of Neonate, Newborn, Normal Newborn, and Outborn

Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for preterm infant with a birth weight less than 2,000 grams
- with any-listed ICD-9-CM diagnosis codes for injury to brachial plexus
- with any-listed ICD-9-CM diagnosis codes for osteogenesis imperfecta
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

ICD-9-CM Preterm infant with birth weight less than 2,000 grams diagnosis codes:

76500	EXTREME IMMATURITY WTNOS	76511	PRETERM INFANT <500G
76501	EXTREME IMMATUR <500G	76512	PRETERM NEC 500-749G
76502	EXTREME IMMATU 500 – 749G	76513	PRETERM NEC 750-999G
76503	EXTREME IMMATUR 750 – 999G	76514	PRETERM NEC 1000-1249G
76504	EXTREME IMMAT 1000 – 1249G	76515	PRETERM NEC 1250-1499G
76505	EXTREME IMMAT 1250 – 1499G	76516	PRETERM NEC 1500-1749G
76506	EXTREME IMMAT 1500 – 1749G	76517	PRETERM NEC 1750-1999G
76507	EXTREME IMMAT 1750 – 1999G		

ICD-9-CM Injury to brachial plexus diagnosis code:

7676 BRACH PLEXUS INJ-BIRTH

ICD-9-CM Osteogenesis imperfecta diagnosis code:

75651 OSTEOTENESIS IMPERFECTA