Birth Trauma Rate – Injury to Neonate
Technical Specifications

Patient Safety Indicators #17 (PSI #17)
AHRQ Quality Indicators™, Version 4.5, May 2013
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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7670</td>
<td>CEREBRAL HEM AT BIRTH</td>
</tr>
<tr>
<td>7671</td>
<td>EPICRANIAL SUBAPO HEMORRH</td>
</tr>
<tr>
<td>7673</td>
<td>BONE INJURY NEC AT BIRTH</td>
</tr>
<tr>
<td>7674</td>
<td>SPINAL CORD INJ AT BIRTH</td>
</tr>
<tr>
<td>7675</td>
<td>FACIAL NERVE INJ-BIRTH</td>
</tr>
<tr>
<td>7677</td>
<td>NERVE INJ NEC AT BIRTH</td>
</tr>
<tr>
<td>7678</td>
<td>BIRTH TRAUMA NEC</td>
</tr>
</tbody>
</table>

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 IMMATUREITY 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  OSTEOGENESIS IMPERFECTA