Patient Safety Indicator 17 (PSI 17) Birth Trauma Rate – Injury to Neonate
March 2021
Hospital-Level Indicator
Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

Birth trauma injuries per 1,000 newborns. Excludes preterm infants with a birth weight less than 2,000 grams, 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.]

NUMERATOR

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any-listed ICD-10-CM diagnosis codes for birth trauma (***BIRTHID*** *).

DENOMINATOR

All newborns.

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

DENOMINATOR EXCLUSIONS

Exclude cases:

• with any listed ICD-10-CM diagnosis codes for preterm infant with a birth weight less than 2,000 grams (***PRETEID*** *)

• with any listed ICD-10-CM diagnosis codes for osteogenesis imperfecta (***OSTEOID*** *)

• with a Major Diagnostic Category for Pregnancy, Childbirth and Puerperium, (MDC 14)

• with an ungroupable DRG (DRG=999)

• with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

* See below for code list

Birth trauma diagnosis codes: (BIRTHID)

P100	Subdural hemorrhage due to birth injury	P131	Other birth injuries to skull
P101	Cerebral hemorrhage due to birth injury	P132	Birth injury to femur
P102	Intraventricular hemorrhage due to birth injury	P133	Birth injury to other long bones
P103	Subarachnoid hemorrhage due to birth injury	P138	Birth injuries to other parts of skeleton
P104	Tentorial tear due to birth injury	P139	Birth injury to skeleton, unspecified
P108	Other intracranial lacerations and hemorrhages due to birth injury	P142	Phrenic nerve paralysis due to birth injury
P109	Unspecified intracranial laceration and hemorrhage due to birth injury	P148	Birth injuries to other parts of peripheral nervous system
P110	Cerebral edema due to birth injury	P149	Birth injury to peripheral nervous system, unspecified
P111	Other specified brain damage due to birth injury	P150	Birth injury to liver
P112	Unspecified brain damage due to birth injury	P151	Birth injury to spleen
P113	Birth injury to facial nerve	P152	Sternomastoid injury due to birth injury
P114	Birth injury to other cranial nerves	P153	Birth injury to eye
P115	Birth injury to spine and spinal cord	P154	Birth injury to face
P119	Birth injury to central nervous system, unspecified	P155	Birth injury to external genitalia
P122	Epicranial subaponeurotic hemorrhage due to birth injury	P156	Subcutaneous fat necrosis due to birth injury
P130	Fracture of skull due to birth injury	P158	Other specified birth injuries

Preterm infant with birth weight less than 2,000 grams diagnosis codes: (PRETEID)

P0700	Extremely low birth weight newborn, unspecified weight	P0714	Other low birth weight newborn, 1000-1249 grams
P0701	Extremely low birth weight newborn, less than 500 grams	P0715	Other low birth weight newborn, 1250-1499 grams
P0702	Extremely low birth weight newborn, 500-749 grams	P0716	Other low birth weight newborn, 1500-1749 grams
P0703	Extremely low birth weight newborn, 750-999 grams	P0717	Other low birth weight newborn, 1750-1999 grams
P0710	Other low birth weight newborn, unspecified weight		

Osteogenesis imperfecta diagnosis code: (OSTEOID)

Q780	Osteogenesis imperfecta