

# **Patient Safety Indicator 17 (PSI 17) Birth Trauma Rate – Injury to Neonate August 2025 Hospital-Level Indicator Type of Score: Rate**

## **Prepared by:**

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## **DESCRIPTION**

Hospital discharges with birth trauma injuries per 1,000 newborns. Excludes discharges of preterm infants with a birth weight less than 2,000 grams and discharges with osteogenesis imperfecta.

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

## **NUMERATOR**

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

## **DENOMINATOR**

Discharges for all newborns (*Appendix M: NEWBORN*).

[Appendix M - Definitions of Neonate, Newborn, Normal Newborn, and Outborn](#)

## DENOMINATOR EXCLUSIONS

Exclude discharges:

- with any listed ICD-10-CM diagnosis code for preterm infant with a birth weight less than 2,000 grams (***PRETEID\****)
- with a ICD-10-CM diagnosis code for osteogenesis imperfecta (***OSTEOID\****)
- with a principal ICD-10-CM diagnosis code assigned to MDC 14 Pregnancy, Childbirth & the Puerperium (***Appendix O: MDC14PRINDX***)
- with an ungroupable DRG (DRG=999)
- with missing sex (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)
- with missing MDC (MDC=missing) when the user indicates that MDC is provided

### [Appendix O - MDC 14 and MDC 15 Principal Diagnosis Codes](#)

\* 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