

CBE ID

0478

Title

Neonatal Blood Stream Infection Rate (NQI 03)

Project

Perinatal and Women's Health

Endorsement Status

Endorsement Removed

Is Under Review

No

Previous Endorsement Cycle

Fall 2020

Removal Date

Sun, 05/09/2021 - 20:00

Initial Endorsement

Thu, 10/23/2008 - 20:00

Steward

Agency for Healthcare Research and Quality

1.0 New or Maintenance

Maintenance

1.1 Measure Structure

Single Measure

1.3 Electronic Clinical Quality Measure (eCQM)

No

1.6 Measure Description

Discharges with healthcare-associated bloodstream infection per 1,000 discharges for newborns and outborns with birth weight of 500 grams or more but less than 1,500 grams; with gestational age between 24 and 30 weeks; or with birth weight of 1,500 grams or more and death, an operating room procedure, mechanical ventilation, or transferring from another hospital within two days of birth. Excludes discharges with a length of stay less than 3 days and discharges with a principal diagnosis of sepsis, or bacteremia, or newborn bacteremia.

1.7 Measure Type

Outcome

1.8 Level of Analysis

Facility

1.9 Care Setting

Inpatient/Hospital

1.14 Numerator

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with either: • any secondary ICD-10-CM diagnosis codes for newborn sepsis (BSI5DX*), or • any secondary ICD-10-CM diagnosis codes for newborn septicemia or bacteremia codes requiring a separate organism code (BSI2DX*) and any secondary ICD-10-CM diagnosis codes for staphylococcal or Gram-negative bacterial infection (BSI3DX*)

1.15 Denominator

All newborns and outborns (Appendix I) with either: • a birth weight of 500 to 1,499 grams (Birth Weight Categories 2, 3, 4 and 5) (Appendix L) • any-listed ICD-10-CM diagnosis codes for gestational age between 24 and 30 weeks; (GESTCAT*) • a birth weight greater than or equal to 1,500 grams (Birth Weight Category 6, 7, or 8) and death (DISP=20) • a birth weight greater than or equal to 1,500 grams (Birth Weight Category 6, 7, or 8) and any-listed ICD-10-PCS procedure codes for operating room procedure (Appendix A) • a birth weight greater than or equal to 1,500 grams (Birth Weight Category 6, 7, or 8) and any-listed ICD-10-PCS procedure codes for mechanical ventilation (MECHVCD*) • a birth weight greater than or equal to 1,500 grams (Birth Weight Category 6, 7, or 8) and transferring from another health care facility within two days of birth (ATYPE = 4 and POINTOFORIGINUB04 = 6)

1.20 Types of Data Sources

Claims Data

6.1.2 Current or Planned Use(s)

Quality Improvement (Internal to the specific organization)

Exclusions

Exclude cases:

- with a principal ICD-10-CM diagnosis code (or secondary diagnosis present on admission) for sepsis or bacteremia (BSI4DX*), among patients otherwise qualifying for numerator.
- with a principal ICD-10-CM diagnosis code (or secondary diagnosis present on admission†) for staphylococcal or Gram-negative bacterial infection (BSI3DX*), among patients otherwise qualifying for numerator.
- with birth weight less than 500 grams (Birth Weight Category 1) (Appendix L)
- with length of stay less than 3 days
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

Measure Disclaimer

None

Planned Use

Quality Improvement (Internal to the specific organization)

Risk Adjustment

No risk adjustment or risk stratification

Target Population

Children

Steward Organization

Agency for Healthcare Research and Quality

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