



NQI #3 Neonatal Blood Stream Infections

Provider-Level Indicator

Numerator

Discharges with selected infections defined by specific ICD-9-CM codes in any secondary diagnosis field among cases meeting the inclusion and exclusion rules for the denominator.

Any secondary diagnosis ICD-9-CM code for

03810	STAPHYLOCOCC SEPTICEM NOS	03843	PSEUDOMONAS SEPTICEMIA
03811	METH SUSC STAPH AUR SEPT	03844	SERRATIA SEPTICEMIA
03819	STAPHYLOCOCC SEPTICEM NEC	03849	GRAM-NEG SEPTICEMIA NEC
03840	GRAM-NEG SEPTICEMIA NOS	1125	DISSEMINATED CANDIDIASIS
03842	E COLI SEPTICEMIA		

OR

Patients with one or more of the following secondary diagnosis ICD-9-CM codes:

77181	NB SEPTICEMIA [SEPSIS]	7907	BACTEREMIA
77183	BACTEREMIA OF NEWBORN		

AND one of the following secondary diagnosis ICD-9-CM codes:

04104	ENTEROCOCCUS GROUP D	0413	KLEBSIELLA INFECT N
04110	STAPHYLOCOCCUS UNSPCFIED	0414	E. COLI INFECT NOS
04111	MTH SUS STPH AUR ELS/NOS	0417	PSEUDOMONAS INFECT NOS
04119	OTHER STAPHYLOCOCCUS	04185	OTH GRAM NEGATV BACTERIA

Denominator

All newborns and outborns with a birth weight 500 to 1499 g (Birth Weight Categories 2 and 3) OR gestational age between 24 and 30 weeks, except exclusions (see below).

Include also newborns and outborns with a birth weight greater than or equal to 1500 g (Birth Weight Category 4 or 5), if the infant experienced death (DISP=20), major surgery, mechanical ventilation, or transfer to an acute care facility (DISP=2).

See *Pediatric Quality Indicators Appendices*:

- Appendix A – Operating Room Procedure Codes
- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix L – Low Birth Weight Categories

ICD-9-CM Gestation Age diagnosis codes

76522	24 COMPLETED WEEKS OF GESTATION	76525	29-30 COMPLETED WEEKS OF GESTATION
76523	25-26 COMPLETED WEEKS OF GESTATION		
76524	27-28 COMPLETED WEEKS OF GESTATION		

ICD-9-CM Mechanical Ventilation procedure codes

9670	CONTINUOUS MECHANICAL VENTILATION OF UNSPEC DURATION	9672	CONSECUTIVE HRS CONTINUOUS MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE
9671	CONTINUOUS MECHANICAL VENTILATION FOR LESS THAN 96		

Exclude cases:

- with principal diagnosis of sepsis or infection or secondary diagnosis present on admission
- with birth weight less than 500 grams (Birth Weight Category 1)
- with length of stay less than 2 days

ICD-9-CM Sepsis diagnosis codes

0380	STREPTOCOCCAL SEPTICEMIA	<hr/> <u>Septicemia due to:</u> <hr/>	
0381	STAPHYLOCOCCAL SEPTICEMIA	03840	GRAM-NEGATIVE ORGANISM, UNSPECIFIED
03810	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED	03841	HEMOPHILUS INFLUENZAE
03811	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA OCT08-	03842	ESCHERICHIA COLI
03812	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA OCT08-	03843	PSEUDOMONAS
03819	OTHER STAPHYLOCOCCAL SEPTICEMIA	03844	SERRATIA
0382	PNEUMOCOCCAL SEPTICEMIA (STREPTOCOCCUS PNEUMONIAE SEPTICEMIA)	03849	SEPTICEMIA DUE TO OTHER GRAM-NEGATIVE ORGANISMS
0383	SEPTICEMIA DUE TO ANAEROBES	0388	OTHER SPECIFIED SEPTICEMIAS
78552	SEPTIC SHOCK	0389	UNSPECIFIED SEPTICEMIA
78559*	SHOCK WITHOUT MENTION OF TRAUMA, OTHER	99591	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE TO INFECTIOUS PROCESS W/O ORGAN DYSFUNCTION
9980	POSTOPERATIVE SHOCK	99592	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE TO INFECTIOUS PROCESS W/ ORGAN DYSFUNCTION

*Not valid for discharges effective October 1, 2004

See *Pediatric Quality Indicators Appendices*:

- Appendix H – Infection Diagnosis Codes