Neonatal Blood Stream Infection Rate

Neonatal Quality Indicators #3 Technical Specifications

Provider-Level Indicator AHRQ Quality Indicators, Version 4.3, August 2011 (Revised September 1, 2011)

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:

secondary dragnosis ICD-9-Civi code for.					
03810	STAPHYLCOCC SEPTICEM NOS	03843	PSEUDOMONAS SEPTICEMIA		
03811	METH SUSC STAPH AUR SEPT	03844	SERRATIA SEPTICEMIA		
03819	STAPHYLCOCC SEPTICEM NEC	03849	GRAM-NEG SEPTICEMIA NEC		
03840	GRAM-NEG SEPTICEMIA NOS	1125	DISSEMINATED CANDIDIASIS		
03842	E COLI SEPTICEMIA				
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 among cases meeting the inclusion and exclusion rules for the denominator:

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, 3, 4 and 5) **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 6, 7, 8, or 9), if the infant experienced death (DISP=20), major surgery, mechanical ventilation, or transfer to an acute care facility (DISP=2), except exclusions (see below).

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 between 24 and 30 weeks diagnosis codes:

76522 24 COMPLETED WEEKS OF GESTATION

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76523 76524	25-26 COMPLETED WEEKS OF GESTATION 27-28 COMPLETED WEEKS OF GESTATION	76525	29-30 COMPLETED WEEKS OF GESTATION
ICD-9-0 9670 9671	CM Mechanical ventilation procedure codes: CONTINUOUS MECHANICAL VENTILATION OF UNSPEC DURATION CONTINUOUS MECHANICAL VENTILATION FOR LESS THAN 96	9672	CONSECUTIVE HRS CONTINUOUS MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE

Exclude cases:

- with principal diagnosis of sepsis or infection (Appendix H) 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
- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

See Pediatric Quality Indicators Appendices:

• Appendix L – Low Birth Weight Categories

ICD-9-CM Sepsis diagnosis codes:

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

^{*}Not valid for discharges effective October 1, 2004

See Pediatric Quality Indicators Appendices:

• Appendix H – Infection Diagnosis Codes