

# Patient Safety Indicator 13 (PSI 13) Postoperative Sepsis Rate

June 2017 Provider-Level Indicator Type of Score: Rate

## **Prepared by:**

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### DESCRIPTION

Postoperative sepsis cases (secondary diagnosis) per 1,000 elective surgical discharges for patients ages 18 years and older. Excludes cases with a principal diagnosis of sepsis, cases with a secondary diagnosis of sepsis present on admission, cases with a principal diagnosis of infection, cases with a secondary diagnosis of infection present on admission (only if they also have a secondary diagnosis of sepsis), obstetric discharges, and cases with missing values as listed in denominator section.

[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.]

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## NUMERATOR

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any secondary ICD-9-CM diagnosis codes for sepsis.

## Sepsis diagnosis codes for discharges in FY2007 and later: (SEPTI2D\_PSI)

0380	Streptococcal septicemia	03843	Pseudomonas
0381	Staphylococcal septicemia	03844	Serratia
03810	Staphylococcal septicemia, unspecified	03849	Septicemia due to other gram-negative organisms
03811	Meth susc staph aur sept	0388	Other specified septicemias
03812	Mrsa septicemia	0389	Unspecified septicemia
03819	Other staphylococcal septicemia	78552	Septic shock
0382	Pneumococcal septicemia (streptococcus pneumoniae septicemia)	99591	Systemic inflammatory response syndrome due to infectious;
0383	Septicemia due to anaerobes	99592	Systemic inflammatory response syndrome due to infectious;
03840	Gram-negative organism, unspecified	9980	Postoperative shock /* not valid after october 1, 2011
03841	Hemophilus influenzae	99802	Shock following trauma or surgery, septic

03842 Escherichia coli

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## DENOMINATOR

Elective surgical discharges, for patients ages 18 years and older, with any-listed ICD-9-CM procedure codes for an operating room procedure. Elective surgical discharges are defined by specific MS-DRG codes with admission type recorded as elective (ATYPE=3).

<u>Appendix A - Operating Room Procedure Codes</u> <u>Appendix E - Surgical Discharge MS-DRGs</u>

## **DENOMINATOR EXCLUSIONS**

Exclude cases:

• with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for sepsis among patients otherwise qualifying for numerator (see above)

• with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission<sup>1</sup>) for infection among patients otherwise qualifying for numerator

• MDC 14 (pregnancy, childbirth, and puerperium)

• with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year

(YEAR=missing), or principal diagnosis (DX1=missing)

<sup>1</sup>Only for cases that otherwise qualify for the numerator

**Appendix F - Infection Diagnosis Codes**