# Postoperative Sepsis Rate Technical Specifications

Patient Safety Indicators 13 (PSI 13) AHRQ Quality Indicators<sup>™</sup>, Version 5.0 March 2015 Provider-Level Indicator Type of Score: Rate

## 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 or pressure ulcer, 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), cases with an immunocompromised state, cases with cancer, obstetric discharges, cases with stays less than four (4) days, 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.]

### Numerator

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

#### ICD-9-CM Sepsis diagnosis codes:

- 0380 STREPTOCOCCAL SEPTICEMIA 0381 STAPHYLOCOCCAL SEPTICEMIA STAPHYLOCOCCAL SEPTICEMIA, 03810 UNSPECIFIED 03811 METH SUSC STAPH AUR SEPT 03812 MRSA SEPTICEMIA OTHER STAPHYLOCOCCAL 03819 SEPTICEMIA 0382 PNEUMOCOCCAL SEPTICEMIA (STREPTOCOCCUS PNEUMONIAE SEPTICEMIA) 0383 SEPTICEMIA DUE TO ANAEROBES 03840 GRAM-NEGATIVE ORGANISM, UNSPECIFIED
- 03844 SERRATIA SEPTICEMIA DUE TO OTHER GRAM-03849 **NEGATIVE ORGANISMS** 0388 OTHER SPECIFIED SEPTICEMIAS 0389 UNSPECIFIED SEPTICEMIA 78552 SEPTIC SHOCK 78559 SHOCK W/O TRAUMA NEC SYSTEMIC INFLAMMATORY RESPONSE 99591 SYNDROME DUE TO INFECTIOUS PROCESS WITHOUT ORGAN **DYSFUNCTION** 99592 SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE TO INFECTIOUS PROCESS WITH ORGAN DYSFUNCTION 9980 POSTOPERATIVE SHOCK

03841 HEMOPHILUS INFLUENZAE 03842 ESCHERICHIA COLI  99800 POSTOPERATIVE SHOCK, UNSPECIFIED
99802 SHOCK FOLLOWING TRAUMA OR SURGERY, SEPTIC

03843 PSEUDOMONAS

## 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 DRG or MS-DRG codes with admission type recorded as elective (SID ATYPE=3).

See Patient Safety Indicators Appendices:

- Appendix A Operating Room Procedure Codes
- Appendix D Surgical Discharge DRGs
- Appendix E Surgical Discharge MS-DRGs

Exclude cases:

- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for sepsis (see above)
- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission<sup>1</sup>) for infection or pressure ulcer.
- with any-listed ICD-9-CM diagnosis codes or any-listed ICD-9-CM procedure codes for immunocompromised state
- with any-listed ICD-9-CM diagnosis codes for cancer
- with length of stay of less than 4 days
- 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)

#### See Patient Safety Indicators Appendices:

- Appendix F Infection Diagnosis Codes
- Appendix H Cancer Diagnosis Codes
- Appendix I Immunocompromised State Diagnosis and Procedure Codes

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