

# AHRQ Quality Indicators<sup>™</sup> (AHRQ QI<sup>™</sup>) ICD-9-CM and ICD-10-CM/PCS Specification Enhanced Version 5.0

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

## October 2015 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 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.]

	NUME	RATOR					
Discharges	, among cases meeting the inclusion and exclusion rules	for the denominator, with any secondary ICD-9-CM or ICD-10					
iagnosis c	odes for sepsis.						
Sepsis diagnosis codes: (SEPTID and SEPTI2D)							
For discharges prior to FY2012: (SEPTID)							
CD-9-CM	Description	ICD-10-CM Description					
380	STREPTOCOCCAL SEPTICEMIA	Not applicable; no equivalent ICD-10 code					
381	STAPHYLOCOCCAL SEPTICEMIA						
3810	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED						
3811	METH SUSC STAPH AUR SEPT						
3812	MRSA SEPTICEMIA						
3819	OTHER STAPHYLOCOCCAL SEPTICEMIA						
382	PNEUMOCOCCAL SEPTICEMIA (STREPTOCOCCUS						
383	SEPTICEMIA DUE TO ANAEROBES						
3840	GRAM-NEGATIVE ORGANISM, UNSPECIFIED						
3841	HEMOPHILUS INFLUENZAE						
3842	ESCHERICHIA COLI						
3843	PSEUDOMONAS						
3844	SERRATIA						
3849	SEPTICEMIA DUE TO OTHER GRAM-NEGATIVE ORGANISMS	5					
388	OTHER SPECIFIED SEPTICEMIAS						
389	UNSPECIFIED SEPTICEMIA						
8552	SEPTIC SHOCK						
8559	SHOCK W/O TRAUMA NEC						
9591	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE						
9592	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE						
980	POSTOPERATIVE SHOCK						
9800	POSTOPERATIVE SHOCK, UNSPECIFIED						

#### 99802 SHOCK FOLLOWING TRAUMA OR SURGERY, SEPTIC

	rges in FY2012 and later: (SEPTI2D)		1
ICD-9-CM	Description	ICD-10-CM	Description
0380	STREPTOCOCCAL SEPTICEMIA	A021	Salmonella sepsis
0381	STAPHYLOCOCCAL SEPTICEMIA	A227	Anthrax sepsis
03810	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED	A267	Erysipelothrix sepsis
03811	METH SUSC STAPH AUR SEPT	A327	Listerial sepsis
03812	MRSA SEPTICEMIA	A400	Sepsis due to streptococcus, group A
03819	OTHER STAPHYLOCOCCAL SEPTICEMIA	A401	Sepsis due to streptococcus, group B
0382	PNEUMOCOCCAL SEPTICEMIA (STREPTOCOCCUS	A403	Sepsis due to Streptococcus pneumoniae
0383	SEPTICEMIA DUE TO ANAEROBES	A408	Other streptococcal sepsis
03840	GRAM-NEGATIVE ORGANISM, UNSPECIFIED	A409	Streptococcal sepsis, unspecified
03841	HEMOPHILUS INFLUENZAE	A4101	Sepsis due to Methicillin susceptible Staphylococcus
			aureus
03842	ESCHERICHIA COLI	A4102	Sepsis due to Methicillin resistant Staphylococcus aureus
03843	PSEUDOMONAS	A411	Sepsis due to other specified staphylococcus
03844	SERRATIA	A412	Sepsis due to unspecified staphylococcus
03849	SEPTICEMIA DUE TO OTHER GRAM-NEGATIVE ORGANISMS	A413	Sepsis due to Hemophilus influenzae
0388	OTHER SPECIFIED SEPTICEMIAS	A414	Sepsis due to anaerobes
0389	UNSPECIFIED SEPTICEMIA	A4150	Gram-negative sepsis, unspecified
78552	SEPTIC SHOCK	A4151	Sepsis due to Escherichia coli [E. coli]
99591	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE	A4152	Sepsis due to Pseudomonas
	TO INFECTIOUS PROCESS WITHOUT ORGAN DYSFUNCTION		
99592	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME DUE TO INFECTIOUS PROCESS WITH ORGAN DYSFUNCTION	A4153	Sepsis due to Serratia
9980	POSTOPERATIVE SHOCK	A4159	Other Gram-negative sepsis
99802	SHOCK FOLLOWING TRAUMA OR SURGERY, SEPTIC	A4181	Sepsis due to Enterococcus

A4189	Other specified sepsis
A419	Sepsis, unspecified organism
A427	Actinomycotic sepsis
A5486	Gonococcal sepsis
В377	Candidal sepsis
R6520	Severe sepsis without septic shock
R6521	Severe sepsis with septic shock
T8110XA	Postprocedural shock unspecified, initial encounter
m0110373	
T8112XA	Postprocedural septic shock, initial encounter

NUMERATOR EXCLUSIONS	
Not Applicable	

### DENOMINATOR

Elective surgical discharges, for patients ages 18 years and older, with any-listed ICD-9-CM or ICD-10-PCS 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).

Appendix A - Operating Room Procedure Codes

Appendix D - Surgical Discharge DRGs

Appendix E - Surgical Discharge MS-DRGs

### **DENOMINATOR EXCLUSIONS**

Exclude cases:

• with a principal ICD-9-CM or ICD-10-CM diagnosis code (or secondary diagnosis present on admission) for sepsis (see above)

with a principal ICD-9-CM or ICD-10-CM diagnosis code (or secondary diagnosis present on admission<sup>1</sup>) for infection or pressure ulcer.
with any-listed ICD-9-CM or ICD-10-CM diagnosis codes or any-listed ICD-9-CM or ICD-10-PCS procedure codes for

immunocompromised state

• with any-listed ICD-9-CM or ICD-10-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)

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

**Appendix F - Infection Diagnosis Codes** 

Appendix H - Cancer Diagnosis Codes

Appendix I - Immunocompromised State Diagnosis and Procedure Codes