



**AHRQ Quality Indicators™ (AHRQ QI™)
ICD-9-CM and ICD-10-CM/PCS
Specification Enhanced Version 5.0**

**Patient Safety Indicators #07 (PSI #07) Central
Venous Catheter-Related Blood Stream
Infection Rate**

**October 2015
Provider-Level Indicator
Type of Score: Rate**

Prepared by:

Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
540 Gaither Road
Rockville, MD 20850
www.qualityindicators.ahrq.gov

PSI #07 Central Venous Catheter-Related Blood Stream Infection Rate

DESCRIPTION

Central venous catheter-related bloodstream infections (secondary diagnosis) per 1,000 medical and surgical discharges for patients ages 18 years and older or obstetric cases. Excludes cases with a principal diagnosis of a central venous catheter-related bloodstream infection, cases with a secondary diagnosis of a central venous catheter-related bloodstream infection present on admission, cases with stays less than 2 days, cases with an immunocompromised state, and cases with cancer.

[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.]

PSI #07 Central Venous Catheter-Related Blood Stream Infection Rate

NUMERATOR

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any secondary ICD-9-CM or ICD-10-CM diagnosis codes for selected infections.

For discharges prior to October 1 2007, the selected infections are:

Hospital-associated infection diagnosis codes: (IDTMCID)

ICD-9-CM	Description	ICD-10-CM	Description
99662	DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT	<i>Not applicable; no equivalent ICD-10 code</i>	
9993	OTHER INFECTION		

For discharges on or after October 1, 2007 but before October 1, 2011, the selected infection is:

Central venous catheter-related blood stream infection diagnosis codes: (IDTMC2D)

ICD-9-CM	Description	ICD-10-CM	Description
99931	INFECTION DUE TO CENTRAL VENOUS CATHETER	<i>Not applicable; no equivalent ICD-10 code</i>	

For discharges on or after October 1, 2011, the selected infection is:

Central venous catheter-related blood stream infection diagnosis codes: (IDTMC3D)

ICD-9-CM	Description	ICD-10-CM	Description
99932	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER	T80211A	Bloodstream infection due to central venous catheter, initial encounter

PSI #07 Central Venous Catheter-Related Blood Stream Infection Rate

NUMERATOR EXCLUSIONS
<i>Not Applicable</i>

PSI #07 Central Venous Catheter-Related Blood Stream Infection Rate

DENOMINATOR

Surgical and medical discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium). Surgical and medical discharges are defined by specific DRG or MS-DRG codes.

[*Appendix B - Medical Discharge DRGs \(for discharges prior to October 1, 2007\)*](#)

[*Appendix C - Medical Discharge MS-DRGs \(for discharges on or after October 1, 2007\)*](#)

[*Appendix D - Surgical Discharge DRGs \(for discharges prior to October 1, 2007\)*](#)

[*Appendix E - Surgical Discharge MS-DRGs \(for discharges on or after October 1, 2007\)*](#)

PSI #07 Central Venous Catheter-Related Blood Stream Infection Rate

DENOMINATOR EXCLUSIONS

Exclude cases:

- with a principal ICD-9-CM or ICD-10-CM diagnosis code (or secondary diagnosis present on admission) for selected infections (as defined by the numerator, see above)
- with length of stay less than 2 days
- with any-listed ICD-9-CM or ICD-10-CM diagnosis codes for cancer
- 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 missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis

[Appendix H - Cancer Diagnosis Codes](#)

[Appendix I - Immunocompromised State Diagnosis and Procedure Codes](#)