

Patient Safety Indicator 07 (PSI 07) Central Venous Catheter-Related Bloodstream Infection Rate

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Hospital-Level Indicator

Type of Score: Rate

Prepared by:

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DESCRIPTION

Hospital discharges with central venous catheter-related bloodstream infections (secondary diagnosis) per 1,000 medical and surgical discharges among hospital discharges of patients ages 18 years and older or obstetric discharges for patients of any age. Excludes discharges with a principal diagnosis of a central venous catheter-related bloodstream infection; discharges with a secondary diagnosis of a central venous catheter-related bloodstream infection present on admission; discharges with length of stay less than two (2) days; discharges with a cancer diagnosis; or discharges with an immunocompromised state.

[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 a secondary ICD-10-CM diagnosis code for central venous catheter-related bloodstream infections (**IDTMC3D***).

DENOMINATOR

Surgical or medical discharges for patients ages 18 years and older or discharges with a principal ICD-10-CM diagnosis code assigned to MDC 14 Pregnancy, Childbirth & the Puerperium (***Appendix O: MDC14PRINDX***) for patients of any age. Surgical (***Appendix E: SURGI2R***) and medical (***Appendix C: MEDIC2R***) discharges are defined by specific MS-DRG codes.

[***Appendix C - Medical Discharge MS-DRGs***](#)

[***Appendix E - Surgical Discharge MS-DRGs***](#)

[***Appendix O - MDC 14 and MDC 15 Principal Diagnosis Codes***](#)

DENOMINATOR EXCLUSIONS

Exclude discharges:

- with a principal ICD-10-CM diagnosis code (or secondary diagnosis present on admission) for central venous catheter-related bloodstream infection (***IDTMC3D****)
- with length of stay less than two (2) days
- with any listed ICD-10-CM diagnosis code for cancer (***Appendix H: CANCEID***)
- with any listed ICD-10-CM diagnosis code for immunocompromised state (***Appendix I: IMMUNID***)
- with any listed ICD-10-PCS procedure code for immunocompromised state (***Appendix I: IMMUNIP***)
- with a principal ICD-10-CM diagnosis code assigned to MDC 15 Newborns & Other Neonates with Conditions Originating in Perinatal Period (***Appendix O: MDC15PRINDX***)
- with an ungroupable DRG (DRG=999)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)
- with missing MDC (MDC=missing) when the user indicates that MDC is provided

[***Appendix H - Cancer Diagnosis Codes***](#)

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

*See below for code list

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

T80211A Bloodstream infection due to central
 venous catheter, initial encounter