Central Venous Catheter-Related Blood Stream Infection Rate

Patient Safety Indicators #7
Technical Specifications
Provider-Level Indicator
AHRQ Quality Indicators, Version 4.4, March 2012

Numerator

Discharges with selected infections defined by specific ICD-9-CM codes and secondary diagnosis field among cases meeting the inclusion and exclusion rules for the denominator. For discharges prior to October 1, 2007:

*ICD-9-CM Hospital-associated infection diagnosis codes*¹:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99662</td>
<td>REACT-OTH VASC DEV/GRAFT</td>
</tr>
<tr>
<td>9993</td>
<td>OTHER INFECTION</td>
</tr>
</tbody>
</table>

¹ Italicized codes are not active in the current fiscal year.

For discharges on or after October 1, 2007 but before October 1, 2011:

*ICD-9-CM Central venous catheter-related blood stream infection diagnosis code*:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99931</td>
<td>OTH/UNS INF-CEN VEN CATH</td>
</tr>
</tbody>
</table>

For discharges on or after October 1, 2011:

*ICD-9-CM Central venous catheter-related blood stream infection diagnosis code*¹:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99931</td>
<td>OTH/UNS INF-CEN VEN CATH</td>
</tr>
<tr>
<td>99932</td>
<td>BLOOD INF DT CEN VEN CTH</td>
</tr>
</tbody>
</table>

¹ Bolded codes are new to the current fiscal year.

Denominator

All surgical and medical discharges, 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), defined by specific DRGs or MS-DRGs.

See *Patient Safety Indicators Appendices*:

- Appendix B – Medical Discharge DRGs
- Appendix C – Medical Discharge MS-DRGs
- Appendix D – Surgical Discharge DRGs
- Appendix E – Surgical Discharge MS-DRGs
Exclude cases:
- with principal diagnosis of selected infections (as defined by the numerator) or secondary diagnosis present on admission*
- with length of stay less than 2 days
- with any diagnosis or procedure code for immunocompromised state
- with any diagnosis of cancer
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)
* Only for cases that otherwise qualify for the numerator

See *Patient Safety Indicators Appendices:*
- Appendix H – Cancer Diagnosis Codes
- Appendix I – Immunocompromised State Diagnosis and Procedure Codes