**2020 COLLECTION TYPE:**
MEDICARE PART B CLAIMS

**MEASURE TYPE:**
Process – High Priority

**DESCRIPTION:**
Percentage of patients, regardless of age, who undergo central venous catheter (CVC) insertion for whom CVC was inserted with all elements of maximal sterile barrier technique, hand hygiene, skin preparation and, if ultrasound is used, sterile ultrasound techniques followed

**INSTRUCTIONS:**
This measure is to be submitted each time a CVC insertion is performed during the performance period. There is no diagnosis associated with this measure. It is anticipated that Merit-based Incentive Payment System (MIPS) eligible clinicians who perform CVC insertion will submit this measure.

**Measure Submission Type:**
Measure data may be submitted by individual MIPS eligible clinicians using Medicare Part B claims. The listed denominator criteria are used to identify the intended patient population. The numerator quality-data codes included in this specification are used to submit the quality actions allowed by the measure on the claim form(s). All measure-specific coding should be submitted on the claim(s) representing the denominator eligible encounter and selected numerator option.

**DENOMINATOR:**
All patients, regardless of age, who undergo CVC insertion

**Definitions:**
- **Maximal Sterile Barrier Technique** – includes all of the following elements: Cap AND mask AND sterile gown AND sterile gloves AND sterile full body drape.
- **Sterile Ultrasound Techniques** – require sterile gel and sterile probe covers.
- **Hand Hygiene**—Washing hands with conventional soap and water or with alcohol-based hand rubs (ABHR)

**NUMERATOR:**
Patients for whom central venous catheter (CVC) was inserted with all elements of maximal sterile barrier technique, hand hygiene, skin preparation and, if ultrasound is used, sterile ultrasound techniques followed

**Quality ID #76 (NQF 2726): Prevention of Central Venous Catheter (CVC) - Related Bloodstream Infections**
- National Quality Strategy Domain: Patient Safety
- Meaningful Measure Area: Healthcare Associated Infections
**OR**

All Elements of Maximal Sterile Barrier Technique Not Followed for Medical Reasons

Append a modifier (1P) to CPT Category II code 6030F to report documented circumstances that appropriately exclude patients from the denominator.

*Denominator Exception: 6030F with 1P:* Documentation of medical reason(s) for not following all elements of maximal sterile barrier technique, hand hygiene, skin preparation and, if ultrasound is used, sterile ultrasound techniques during CVC insertion (including increased risk of harm to patient if adherence to aseptic technique would cause delay in CVC insertion)

**OR**

All Elements of Maximal Sterile Barrier Technique Not Followed, Reason not Otherwise Specified

Append a reporting modifier (8P) to CPT Category II code 6030F to report circumstances when the action described in the numerator is not performed and the reason is not otherwise specified.

*Performance Not Met: 6030F with 8P:* All elements of maximal sterile barrier technique, hand hygiene, skin preparation and, if ultrasound is used, sterile ultrasound techniques not followed, reason not otherwise specified

**RATIONALE:**

Catheter-related bloodstream infection is a costly complication of central venous catheter insertion, but may be avoided with routine use of aseptic technique during catheter insertion. This measure is constructed to require that all of the listed elements of aseptic technique are followed and documented. Hospital-acquired bloodstream infections are a common complication that leads to increased costs and mortality. It is estimated that approximately 51% of hospital-acquired bloodstream infections occur in an intensive care unit (ICU), with the presence of a central venous catheter being the largest risk factor for the development of a bloodstream infection in the hospital. Catheter-related bloodstream infections (CRBSIs) commonly occur when the catheter becomes contaminated by microbes on the skin during insertion. The use of maximal sterile barriers, including sterile gloves, long-sleeved sterile gown, mask, cap, and full-sized sterile drape, during insertion of the catheter has been shown to cost effectively reduce CRBSI rates compared to the use of less stringent precautions.

**CLINICAL RECOMMENDATION STATEMENTS:**


Maximal sterile barrier precautions: Use maximal sterile barrier precautions, including the use of a cap, mask, sterile gown, sterile gloves, and a sterile full body drape, for the insertion of CVCs, PICCCs, or guidewire exchange (CDC) (Category IB)

Hand hygiene: Perform hand hygiene procedures, either by washing hands with conventional soap and water or with alcohol-based hand rubs (ABHR) (Category IB)

Skin Preparation: Prepare clean skin with a >0.5% chlorhexidine preparation with alcohol before central venous catheter and peripheral arterial catheter insertion and during dressing changes. If there is a contraindication to chlorhexidine, tincture of iodine, an iodophor, or 70% alcohol can be used as alternatives (Category IB)

Sterile Ultrasound: The Food and Drug Administration recommends that policies and clinical practice standards be reviewed to ensure the use of sterile ultrasound gel. Once a container of sterile or non-sterile ultrasound gel is opened, it is no longer sterile and contamination during ongoing use is possible.
2012 American Society of Anesthesiologists Practice Guidelines for Central Venous Access

In preparation for the placement of central venous catheters, use aseptic techniques (e.g., hand washing) and maximal barrier precautions (e.g., sterile gowns, sterile gloves, caps, masks covering both mouth and nose, and full-body drapes).

2014 American Institute for Ultrasound in Medicine Practice Parameter for the Performance of Selected Ultrasound-Guided Procedures

The use of sterile drapes, sterile probe covers, and sterile ultrasound gel may provide the best method to reduce the risk of contamination and infection.

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The AMA’s and AMA-PCPI’s significant past efforts and contributions to the development and updating of the measure is acknowledged. ASA is solely responsible for the review and enhancement (“Maintenance”) of the measure as of May 15, 2014.

ASA encourages use of the measure by other health care professionals, where appropriate.

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Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.

SAMPLE CALCULATIONS:

Data Completeness:
Performance Met (a=30 procedures) + Denominator Exception (b=20 procedures) + Performance Not Met (c=20 procedures)

Eligible Population / Denominator (d=80 procedures) = 70 procedures = 87.50%
80 procedures

Performance Rate:
Performance Met (a=30 procedures)
Data Completeness Numerator (70 procedures) – Denominator Exception (b=20 procedures) = 30 procedures = 60.00%
50 procedures

* See the posted measure specification for specific coding and instructions to submit this measure.
NOTE: Submission Frequency: Procedure
2020 Medicare Part B Claims Flow Narrative for Quality ID #76, NQF #2726:
Prevention of Central Venous Catheter (CVC) – Related Bloodstream Infections

Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.

1. Start with Denominator
2. Check Procedure Performed:
   a. If Procedure as Listed in the Denominator equals No, do not include in Eligible Population. Stop Processing.
   b. If Procedure as Listed in the Denominator equals Yes, include in the Eligible Population.
3. Denominator Population:
   a. Denominator Population is all Eligible Procedures in the Denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 80 procedures in the Sample Calculation.
4. Start Numerator
5. Check All Elements of Maximal Sterile Barrier Technique Followed:
   a. If All Elements of Maximal Sterile Barrier Technique Followed equals Yes, include in Data Completeness Met and Performance Met.
   b. Data Completeness Met and Performance Met letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 30 procedures in the Sample Calculation.
   c. If All Elements of Maximal Sterile Barrier Technique Followed equals No, proceed to check Documentation of Medical Reasons for All Elements of Maximal Sterile Barrier Technique Not Followed.
6. Check Documentation of Medical Reasons for All Elements of Maximal Sterile Barrier Technique Not Followed:
   a. If Documentation of Medical Reasons for All Elements of Maximal Sterile Barrier Technique Not Followed equals Yes, include in Data Completeness Met and Denominator Exception.
   b. Data Completeness Met and Denominator Exception is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b equals 20 procedures in the Sample Calculation.
   c. If Documentation of Medical Reasons for All Elements of Maximal Sterile Barrier Technique Not Followed equals No, proceed to check All Elements of Maximal Sterile Barrier Technique Not Followed, Reason Not Otherwise Specified.
7. Check All Elements of Maximal Sterile Barrier Technique Not Followed, Reason Not Otherwise Specified:
   a. If All Elements of Maximal Sterile Barrier Technique Not Followed, Reason Not Otherwise Specified equals Yes, include in the Data Completeness Met and Performance Not Met.
   b. Data Completeness Met and Performance Not Met letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 20 procedures in the Sample Calculation.
c. If All Elements of Maximal Sterile Barrier Technique Not Followed, Reason Not Otherwise Specified equals No, proceed to check Data Completeness Not Met.

8. Check Data Completeness Not Met:

a. If Data Completeness Not Met, the Quality Data Code was not submitted. 10 procedures have been subtracted from the Data Completeness Numerator in the Sample Calculation.

### SAMPLE CALCULATIONS:

<table>
<thead>
<tr>
<th>Performance Met (a=30 procedures)</th>
<th>Denominator Exception (b=20 procedures)</th>
<th>Performance Not Met (c=20 procedures)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligible Population / Denominator (d=80 procedures)</td>
<td></td>
<td></td>
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</tbody>
</table>

- \[\frac{30}{80} = 0.375\]  
- \[\frac{70}{80} = 0.875\]  
- \[\frac{50}{80} = 0.625\]

**Data Completeness =**

- Performance Met (a=30 procedures) + Denominator Exception (b=20 procedures) + Performance Not Met (c=20 procedures) = 70 procedures = 87.50%
- Eligible Population / Denominator (d=80 procedures) = 80 procedures

**Performance Rate =**

- \[\frac{30}{80} = 0.375\]  
- \[\frac{30}{50} = 0.600\]