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Reducing Dialysis Tunneled Catheter Blood Stream Infections
Sharon Hoffman BSN RN CNN
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**Purpose Statement**
To reduce blood stream infections related to tunneled dialysis catheters through implementation of aseptic sterile dressing changes completed by RN's.

**Synthesis of Evidence**
- Search Terms: Tunneled dialysis central line catheters, blood stream infections, antisepsis, catheter related infections/preventions and control, antisepsis/methods.
- Strength of evidence for 3 research studies and 5 supporting documents was evaluated.
- Level of evidence was C using Iowa Model for Evidence review supporting the use of sterile technique when performing dressing changes on central venous catheters.

**Team Members**
Karen Chalich BSN RN CNN
Patricia Dumonceaux – MSN RN PHN CIC
Angela Jordahl BSN RN CNN
Angie Stulc CCHT

**Pre-Measures/Test of Change**
**Goal:** Access-related BSI's will be reduced by 50% compared to FY16 results.

**Pre-Measure Data**
FY16 (December 2015 – June 2016)
- 6 BSI's/283 catheter months = 2.12% or 1 BSI every 47.1 catheter months.
- Clean Technique for Drsg Changes = 100%
- Drsg Changes Performed CCHT/LPN = 90% RN = 10%

**Test of Change – Pilot**
Test Site: CentraCare Kidney Program St. Cloud
- 24 chair facility/110 patient population
- Test period December 2016 – June 2017
- Kick-Off held on 10/25/16 with KDU RN staff and project team.
- RN staff were educated on sterile dressing change technique & completed a demonstration/competency.

**Post Measures**
**Post Measure Data**
FY17 (December 2016– June 2017)
- 3 BSI's/240 catheter months = 1.25% or 1 BSI every 80 catheter months.
- Sterile Technique for Drsg Changes = 100%
- Drsg Changes Performed RN = 100%

**Goal of reducing BSI's by 50% was met!**

**Practice Change**
Based on the outcome success, the practice of sterile technique used for dialysis catheter dressing changes performed by RN staff was implemented program wide on January 15, 2018. RN staff was educated on sterile dressing change technique by viewing a computer based training module demonstrating the correct technique. Each RN staff member then performed a demonstration of sterile dressing change technique to show competency.

**References**

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