



Reducing Dialysis Tunneled Catheter Blood Stream Infections

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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%

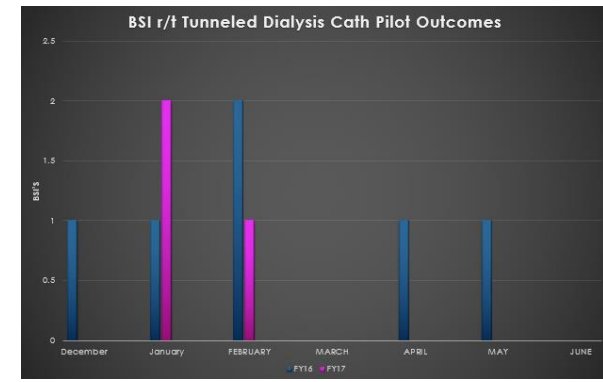
- Test of Change – Pilot**
Test Site: CentraCare Kidney Program St. Cloud
- 24 chair facility/110 patient population
 - Test period December 2016 – June 2017
 - Kick-Off held on 10/25/16 with KDU RN staff and project team.
 - RN staff were educated on sterile dressing change technique & completed a demonstration/competency.



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

References

- Aziz, A. (2009). Variations in aseptic technique and implications for infection control. *British Journal Of Nursing*, 18(1), 26-31 6p.
- Chermey, Kisteen, & Nal, Rachel. 2005. Aseptic Technique. *Healthline Networks, Inc.*
- National Guideline Clearinghouse (NGC). Guideline summary: [Standardizing central venous catheter care: hospital to home]. In: National Guideline Clearinghouse (NGC). Rockville (MD): Agency for Healthcare Research and Quality (AHRQ); [2012]. <http://www.guideline.gov>.
- The Joint Commission. Preventing Central Line-Associated Bloodstream Infections: Useful Tools. An International Perspective. Nov 20, 2013. Accessed March 2016. <http://www.jointcommission.org/CLABSItoolkit>
- National Guideline Clearinghouse (NGC). Guideline summary: [Guideline for the prevention of intravascular catheter-related infections]. In: National Guideline Clearinghouse (NGC). Rockville (MD): Agency for Healthcare Research and Quality (AHRQ); [2011]. <http://www.guideline.gov>.



EBP Project Poster Title

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Purpose Statement

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Synthesis of Evidence

Include bullet points of your literature findings, include the grading as appropriate

- Bullet

Team Members

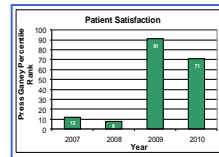
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Pre/Post Measures

Use this template if you want to emphasize measurements/outcomes

Include charts, graphs, policies, orders, Epic screen shots – what ever you can do to show your results

Your pre and post data should be here



EBP Practice Change

References

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Forsyth, D. N., Wright, T., Scherb, C., & Gaspar, P. (2010). Disseminating evidence-based practice projects: Poster design and evaluation. *Clinical Scholars Review*, 3(1), 14-21.



Research Study Poster Title

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Introduction

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Research Problem/ Question

Methodology

Include bullet points of your literature findings, include the grading as appropriate

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Your email here

Analysis/Results

Include charts, graphs, policies, orders, Epic screen shots – what ever you can do to show your results
Your pre and post data should be here



Conclusions/Implications

Acknowledgements/Funding

(if appropriate)

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Performance Improvement Poster Title

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Plan

Identify and analyze the problem

Do

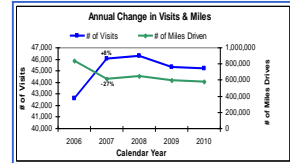
Identify the solution
• Bullet

Team Members

Your email here

Study

Gather data and evaluate
Include charts, graphs, policies, orders, Epic screen shots – what ever you can do to show your results
Your pre and post data should be here



Act

Standardize the solution – systematic changes and training needs for full implementation

References

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