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Reducing Catheter Associated Urinary Tract Infections (CAUTI) by Decreasing Use of Indwelling Catheters

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Catheter Associated Urinary Tract Infections (CAUTI) are considered a preventable hospital-acquired infection [2]. Centers for Medicaid and Medicare no longer reimburse hospitals for preventable CAUTIs [2]. A concerted effort to decrease our indwelling urinary catheter (IUC) rate has led to a decrease in the number of infections related to these catheters at Maine Medical Center (MMC) in Portland, Maine. Starting in 2012 as a result of The Joint Commission National Patient Safety Goal, the inter-professional CAUTI committee focus has been on decreasing utilization of IUC[1]. After an initial large decrease in utilization, the rates have flattened. The effort over the past year has been focused on breaking this plateau and lowering IUC use. As a result, MMC has decreased its CAUTI rate below the national benchmark.

Several POSA cycles have been implemented to focus on removal of unnecessary IUCs. The cycles include a daily tracking of all inpatients with an IUC by the CAUTI prevention Nurse (RN). She in turn follows up with the nursing leadership and providers regarding those catheters deemed unnecessary. Follow up on the unit level is required by nursing management or appropriate providers regarding those catheters deemed unnecessary based on evidence-based national indications [2]. In addition, weekly rounds occur on an inpatient medical surgical unit with 40 inpatients that historically had the highest MMC CAUTI rate outside of the intensive care units. These rounds include nursing management or appropriate providers regarding those catheters deemed unnecessary. Follow up on the unit level is required by nursing leadership and providers, infection control nurses, and staff that care for patients at the bedside. Action plans are developed to remove catheters as soon as they are no longer indicated. These collaborative inter-professional rounds have now expanded to the intensive care units.

Background

**Interventions and Alternatives**

Monthly meetings of the Interprofessional CAUTI Prevention Committee are held to share information, evidence-based practice, lessons from previous infections, and address concerns. Bedside IUC audits are done twice monthly on inpatient units to ensure proper care and maintenance.

**Best Practice**

Implemented a trained observer must be present in non-emergent situations to ensure IUC insertion with sterile technique

**Alternative Solutions**

All inpatient units have 1-2 bladder scanners to measure bladder volumes and scales to weigh undergarments/pads

Evidence based Pediatric and Adult Urinary Retention Protocols implemented [1]

**Trials**

A female external catheter (PureWick®) was trialed and implemented

A trial (February-May 2018) for increasing bladder volumes from 500mls to 700mls in perioperative joint replacement patients was completed and brought into practice

**Protocols**

The Early Recovery After Surgery (ERAS) Protocol for surgical patients to discontinue the IUC on post-op day one was implemented with surgeon buy-in

Refining our perioperative IUC Protocol has lead to improved guidelines for catheter insertion and removal [3]

**Hospital CAUTI Action Plan**

**Action Plan Goals:**

- Standardized Communication at the Unit Level
- Current CAUTI rate
- Alternatives to catheter use
- Protocol of catheter care
- Posted on unit level monthly for staff
- Identifies unit CAUTI champion if staff have questions/concerns

**Example of Protocol for IUC placement in Perioperative Period**

**Catheter Protocol: Periop Urinary Care**

**Pre-Op**

ASK THE PATIENT TO URINATE! Must be done pre-op

Are you able to void? No Yes

Did the patient void within 2 hrs? No Yes

**OR**

**Post-Op**

Does the patient have a Foley catheter? No Yes

If yes, why is it necessary? Discharged on IUC

No catheter

UBO

Continue care as per protocol

**Conclusion**

Daily management with nursing and provider leadership has led to looking at alternatives to IUCs. Without a catheter, a CAUTI cannot occur. The systematic approach to daily review and unit leadership follow-up has led to a change in culture and earlier catheter removal.

**References**


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