

Can't Attribute UTI To Insertion: Utilizing Data to Prevent CAUTI



IMPLICATIONS FOR

PRACTICE

Through multi-disciplinary

engagement & review of

The high risk populations

IUC, not insertion

rates reduced 46%

related to maintenance of

With the implementation of

a NDP & a trial of a novel

peri-care product, CAUTI

Colloidal silver wipes are

now available for CAUTI

identified

epidemiologic data, high risk

populations for CAUTI were

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PURPOSE

 To utilize data to identify populations at risk & develop focused initiatives to further decrease catheter associated urinary tract infections (CAUTI)

BACKGROUND

- Per the CDC, urinary tract infections (UTI) are the 4th most common type of healthcare-associated infection and virtually all are caused by instrumentation of the urinary tract
- On average, 12-16% of all adult inpatients will have an indwelling urinary catheter (IUC)
- Each day the IUC is in place the patient has 3-7% increased risk of acquiring a **CAUTI**
- Estimated cost of CAUTI ~ \$11,000 per case
- Aside from medical complications such as cystitis, pyelonephritis, & bacteremia, CAUTI may cause patients discomfort, extend hospitalizations, & increased costs and mortality

INITIATIVES

Multidisciplinary Engagement

A multidisciplinary steering committee created to address rising CAUTI rates including:

- Nursing Leadership and Staff Nurses from ICU, Med-Surg, ED, OR
- Providers
- Infection Prevention Specialists
- Informatics

Identify High Risk Populations

Intensive case review of CAUTI identified these factors:

- Prolonged catheterization 96% occurred 3 days after placement
- 82% Fecal incontinence
- 78% Enteric pathogens
- Patient risk factors: female gender, obesity, immobility, multiple organ failure
- Primary Services: Cardiology, Cardiothoracic Surgery, Abdominal Surgery, Medicine

Implement Nurse Driven Protocol (NDP)

maintain, & remove urethral catheters based on specific criteria.

Indications for IUC:

- Intensive monitoring (q1-2 hrs)
- End of Life request
- Profound prolonged immobility (unstable spine)
- wound breakdown
- Urinary outlet obstruction
- Urological surgery
- · Bladder dysfunction

NDP empowers nurses to insert, Trial Novel Peri-Care Product & EMR Enhancements

> A trial of colloidal silver wipes (bactericidal & bacteriostatic) in all 4 intensive care units & 2 step down units.

Colloidal silver wipes (Theraworx®) utilized with peri-• Urinary incontinence & perineum care twice a day, & as needed after incontinence.

> EMR documentation of peri-care revised to improve workflow & to facilitate data capture of CAUTI prevention bundle elements.

prevention hospital-wide **FUTURE WORK**

Further implications for study include:

- The development of an automated report based on nursing documentation that identifies patients at high risk for CAUTI in real-time
- Identifying potential barriers to NDP adherence & develop strategies to enhance use
- Consider alternate uses of colloidal silver wipes alternative for CLABSI, total body decolonization

ACKNOWLEGEMENTS

UWMC CAUTI Steering Committee & Staff

EVALUATION/OUTCOMES

- Urinary catheter device utilization decreased since NDP implemented
- CAUTI rate per 1.000 catheter days decreased
- 46% reduction in CAUTI events during trial



