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## CAUTI: Are We Testing Appropriately?

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# CAUTI: Are We Testing Appropriately?

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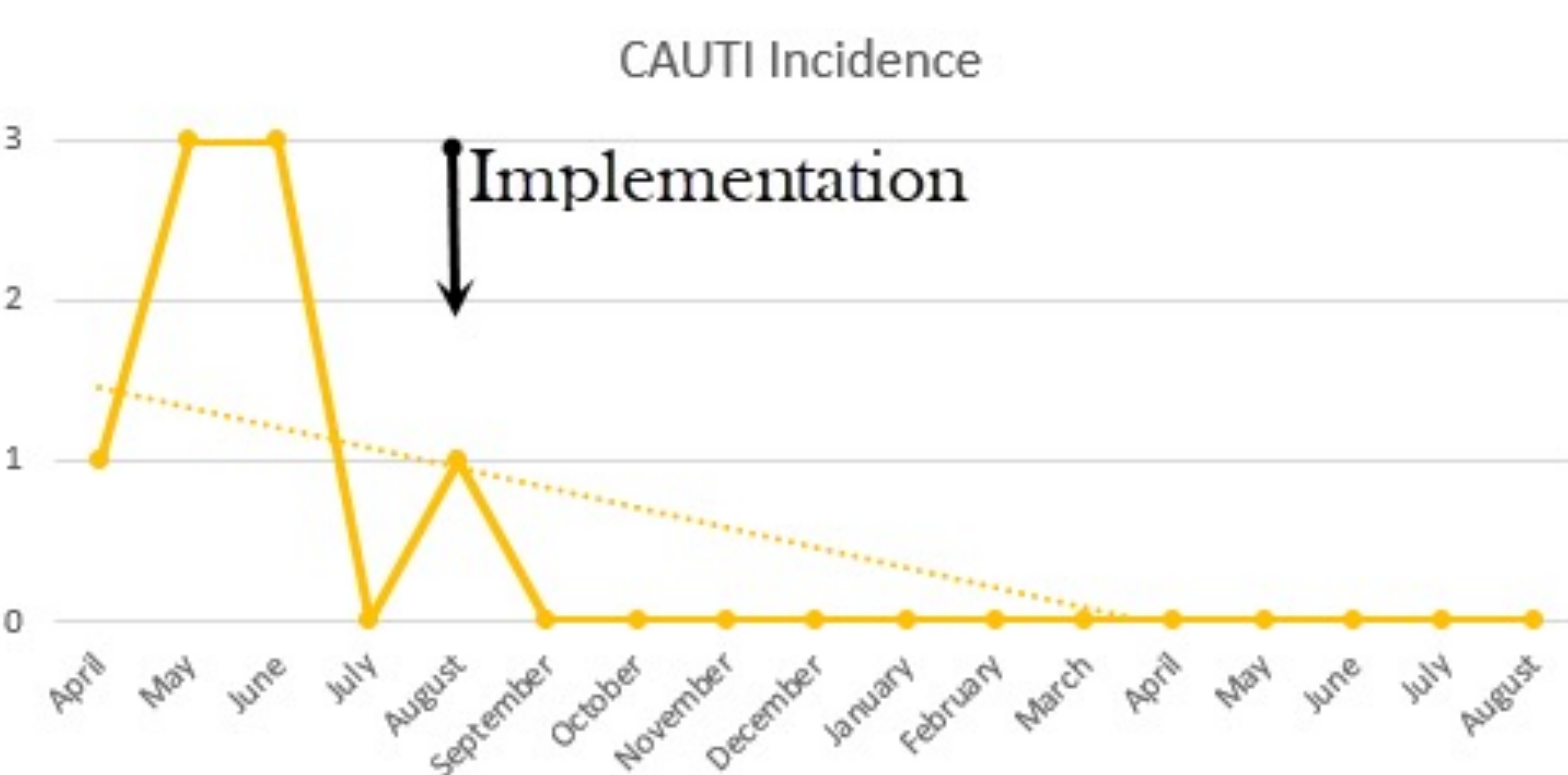


## Background:

- Catheter Associated Urinary Tract Infections (CAUTI) are deemed never events by Centers for Medicare & Medicaid Services.
- Centers for Disease Control and Prevention estimates 17-69% of CAUTIs are preventable.
- Current recommendations for CAUTI reduction include:
  - Education strategies, Chlorhexidine Gluconate bathing and catheter care, catheter avoidance, policies for insertion, and urine culture testing stewardship.
- Our unit experienced an increase in CAUTI incidence in May and June of 2020.
- Case Reviews demonstrated compliance with nursing modifiable risk factors. Opportunities for improvement in urine testing stewardship were identified

## Methods:

- Databases Searched: Pubmed, Embase, CINAHL
- Search Terms: CAUTI, Biofilm, Fever, reduction



In this evidence-based QI project:

- **Interdisciplinary Collaboration**
- **Educational intervention**
- **Multi-disciplinary accountability**
- **Implementation of a practice change obtaining urine specimen**

led to **73%** reduction in urine culture testing and **ZERO** CAUTIs for over **400** days.

## Interventions:

- Education (grand rounds presentation & PowerPoint presentation) provided to multi-disciplinary team focused on:
  - CAUTI vs Catheter Associated Asymptomatic Bacteriuria, Biofilm, Fever related to CAUTI, Incidence of symptomatic CAUTI, Urine Testing Stewardship.
- Implemented testing guidance from 2008 IDSA & ACCM guidelines for evaluation of fever.
- Implemented practice change to replace catheter when obtaining urine specimen for culture to minimize the risk of false positive due to biofilm.
- Bedside RN escalated to Nurse Clinician, who developed and followed the urine testing stewardship algorithm.

## Measurements and Results:

- Conducted daily audits to ensure adherence to practice changes and compliance with testing stewardship guidelines.
  - Provided feedback to nurses and provider leadership on audit findings.
- Developed report with IT that identified all urine testing weekly.
- 73% reduction in Urine Culture specimen collection rate. (see graph)
- Zero CAUTIs for over 400 days since implementation.

