CAUTI: Are We Testing Appropriately?

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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.

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.