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Reduction of Catheter Associated Urinary Tract Infections (CAUTI) in a Critical Care Setting

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Executive Sponsor: Sheila Parker Project: Reduction of Catheter Associated Urinary Tract Infections (CAUTI) Last Updated: 7/16/19 Facilitator: Stephen Tyzik Team Members: Jonathan Archibald, Lindsey Lucas, Deborah Jackson, Shawn Taylor, Alana Trottier, Jessica Pernal, Jianna Donisvitch, Nadine Kern, Sarah Bockian, Tavla Robbins, Kristen Stogsdill, Janice Pflugradt, Justin Michaud, Dr. Dave Seder, Dr. Brian Jumper and Janet Maguire **Problem/Impact Statement:** Countermeasures Urinary Tract Infections (UTIs) are the most common type of healthcare-associated infection reported to the National Action Healthcare Safety Network (NHSN). Among UTIs acquired in the hospital, approximately 75% are associated with an 6 of the time SCU managers do daily rounds to complete review indwelling urinary catheter (IUC), which is a tube inserted into the bladder through the urethra to drain urine. Between 15-% of caregivers receive CAUTI Education on current SCU performa 25% of hospitalized patients receive IUCs during their hospital stay. At Maine Medical Center, many of the patients who Develop of KPI project documents to support change managemen transfer in to our Specialty Care Units (SCU) do so with a, IUC already inserted. This highlights the need for enhanced mbly of Interprofessional SCU Quality Team diligence in the daily review of necessity and maintenance, as a CAUTI comes with increased morbidity and mortality risk, SCU Quality team performs mock RCA increased LOS in ICU setting, increased antibiotic use and an increased cost of care to patients. SCU Quality team develops future state map for IUC indications (Retention, strict Scope: In Scope: All patients in SCU 2, 3 and 4 Out of Scope: All other patients KPI Implementation: 100% of caregivers are educated on the use of the decision Goal/Objective: To reduce the number of CAUTI's in the Specialty Care Units **Baseline Metrics/Current State:** SCU Catheter Days vs. # of CAUTI Outcomes 600 SCU Catheter Days vs. # of CAUTI 500 5 400 Δ 500 300 400 200 2 Days Study Catheter 300 100 0 0 200 18-Feb 18-Jan 18-Mar 18-Apr 18-May 18-Jun 18-Jul 18-Aug 18-Sep # of CAUTI 1 0 0 0 1 0 0 3 100 Catheter Days 503 464 477 462 495 488 475 486 444 Figure 1: Baseline 2018 data showing total number of catheter days and CAUTI by month Catheter Days 1 0 3 0 0 0 0 1 1 444 414 # of CAUTI 475 **Root Cause Analysis:** Figure 2: Graphical representation of countermeasure implementation, catheter days and CAUTI by month RCA of 2018 CAUTI in SCU 92% were initially placed outside of SCU ext Steps

- 66% of infections were associated with initial IUC placement
- Average insertion to infection was 5.5 days ٠
- 10 patients were located in SCU 3, 1 in SCU 2 and 1 in SCU 4

The next wave of improvement will focus on the development and implementation of best practice IUC maintenance



Owner	Completion Date	Status
SCU Leadership	September 2018	Completed
na Trottier and SCU Leadership	November 2018	Completed
U Leadership and Stephen Tyzik	December 2018	Completed
U Leadership and Stephen Tyzik	January 2018	Completed
Quality Team, Janet Maguire and Stephen Tyzik	January 16, 2018	Completed
Quality Team and Stephen Tyzik	February 11, 2018	Completed
Quality Team and Stephen Tyzik	May 2018	Completed
Quality Team and Stephen Tyzik	TBD	In Progress
Quality Team and Stephen Tyzik	TBD	Not Started
Quality Team and Stephen Tyzik	TBD	Not Started
Quality Team and Stephen Tyzik	TBD	Not Started



