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**Operational Excellence** 

10-2018

# Implementing Strategies to Reduce Central Line-Associated Blood Stream Infections on an Inpatient Pediatric Unit

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St. Pierre, Sherryann; Manchester, Nicole; Howe, Jessica; Lord, Melanie; Parker, Mark; Nayak, Suneela; Hanselman, Ruth; Tyzik, Stephen; Sparks, Amy; and Barbara Bush Children's Hospital, "Implementing Strategies to Reduce Central Line-Associated Blood Stream Infections on an Inpatient Pediatric Unit" (2018). *Operational Excellence*. 6. https://knowledgeconnection.mainehealth.org/opex/6

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# Implementing Strategies to Reduce Central Line-Associated Blood Stream Infections

Last Updated: 9/19/2018

Executive Sponsor: Mark Parker, MD Facilitator: Sherryann St. Pierre, Suneela Navak, Stephen Tyzik, Ruth Hanselman, Amy Sparks Team Members: Barbara Bush Nurses, Nicole Manchester, Melanie Lord and Jessica Howe

#### **Problem/Impact Statement:**

Every Central Line-associated Bloodstream Infections (CLABSI) lead to poor outcomes and increased mortality for thousands of patients each year. It is estimated CLABSI's cost the U.S. healthcare system billions each year. With diligent oversight and the use of current evidenced based practices, CLABSIs are preventable. The Barbara Bush Children's Hospital's (BBCH) inpatient unit at Maine Medical Center (MMC) frequently admits and cares for pediatric oncology and pulmonology cystic fibrosis patients, who all have central lines. These high risk patients often refuse infection prevention interventions and would benefit tremendously from improvement in CLABSI prevention practices. https://www.cdc.gov/hai/bsi/bsi.html

#### Scope:

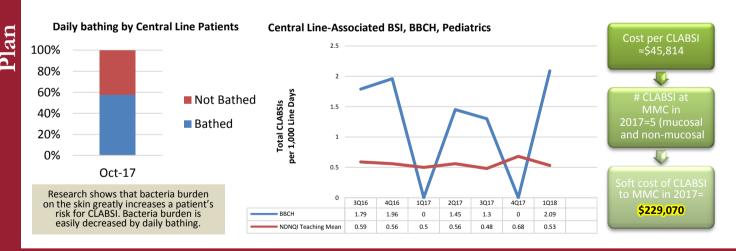
6

In Scope: MMC's Barbara Bush inpatient unit patients who have a central line Out of Scope: All other MMC patients with or without central lines

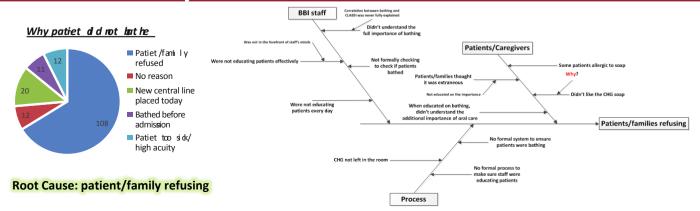
## Goals/Objectives:

- 100% of the time patients with a central line will bathe daily- either with Chlorhexidine (CHG) or soap and water
- 100% of the time, all patients with a central line will be educated about the importance of daily bathing and daily oral care to prevent infection
- Reduce the number of central line infections

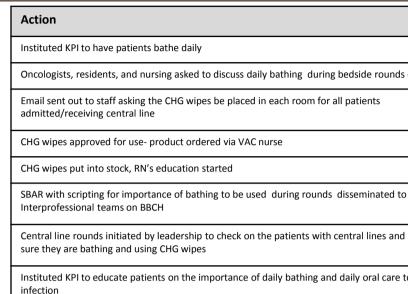
## **Baseline Metrics/Current State:**



### **Root Cause Analysis:**



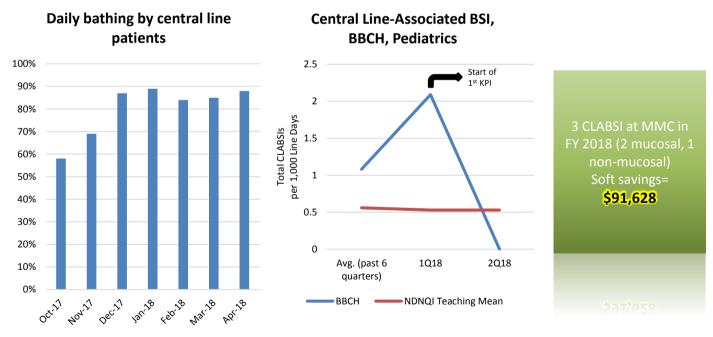
#### Countermeasures



#### Outcomes

 $D_0$ 

Study



## Next Steps

- Continue and improve upon central line leadership rounds
- Change to only using CHG wipes after a daily soap and water bath, as many kids are not using the foam soap correctly
- Model for other departments/hospitals to follow



	Owner	Due Date	Status
	Sherryann St. Pierre	10/19/17	Completed
s each day	Sherryann St. Pierre	10/20/17	Completed
	Sherryann St. Pierre	11/2/17	Completed
	Sherryann St. Pierre	11/20/17	Completed
	Sherryann St. Pierre	1/8/18	Completed
:0	Sherryann St. Pierre	1/16/18	Completed
d make	Sherryann St. Pierre		Completed
to prevent	Sherryann St. Pierre	4/13/18	Completed