Two Years of Zero Harm: A Multi-Faceted Approach for Achieving Two Years Without a HENRY

Catheter-Associated Urinary Tract Infection (CAUTI)

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Abstract		Methods		Conclusion
fter experiencing five catheter-associated urinary tract fections (CAUTI) in 2019 (standardized infection ratio SIR] 0.69) and six in 2020 (SIR 0.6), a 191-bed acute are hospital was determined to find a sustainable way b reduce the number of infections. Several interventions were introduced to reduce the number of CAUTIS, consisting of education, alternative device nplementation, and electronic medical record (EMR) bols. Registered nurses (RN) and nurse assistants NA) were reeducated on the importance of aseptic rine specimen collection and indwelling urinary atheter (IUC) maintenance bundles at annual skills airs. The infection prevention (IP) and nursing team xplored alternative external male urine collection evices such as condom catheters and moisture- ricking urinary pouches. The IP team performed audits rith nursing unit leaders on IUC maintenance bundle ompliance and reported the data monthly to unit staff nd leadership. Additionally, inappropriate urine cultures are stop in the EMR to ensure urine specimens were rdered and sent only if truly indicated. After nplementation of these interventions, the hospital had ne reportable CAUTI in 2021. In 2022 and 2023, zero	 Education - Ongoing RN and NA Skills Fairs Aseptic urine specimen collection IUC maintenance bundles Collaboration with urine collection device manufacturer educators 	 Alternative Device Implementation - Summer/Fall 2022 Introduction of new condom catheter kits IP/nursing co-led trial on male external urine pouches Product manufacturer educators performed on-site triatraining 		The IP and nursing team credits the sustenance of zero CAUTI-associated harm to the culture of high reliability created by the described interventions. Team members providing direct patient care are aware of the expectations related to CAUTI prevention. The facility plans to continue preventing placement of IUCs if another viable option exists, educate team members on IUC maintenance expectations, and ensure all urine cultures ordered when the IUC has been in place for
	 Electronic Medical Record Tools - Spring 2021 Urine culture hard stop for patients with IUCs in place for >2 hospital days Infection Control Medical Director must approve urine cultures for testing if meeting this criteria but clinically indicated (ex. signs of pyelonephritis) 	 Weekly Indwelling Urinary Catheter Maintenance Audit Ongoing Round with unit leaders to assess the following: Seal between the catheter and drainage tubing prese Catheter secured to the thigh with appropriate device No dependent loop in the tubing Drainage bag below the bladder and off the floor Drainage bag filled with <1000cc of urine Data sharing with key stakeholders 	ent	
	Results		three or more days are reviewed by the Infection Control Medical Director for	
	The total number of CAUTIs and associated SIR decreased dramatically, with a 2-year (and counting) sustenance	CAUTI Count and SIR 2019-2023	- 0.8 - 0.7	appropriateness. We plan to continue these interventions, continuously assess education and supply needs, and adjust our CAUTI prevention program as necessary.

2

0

2019

Total CAUTI

References

CAUTI Guidelines. Centers for Disease Control and Prevention. November 5, 2015.

0.2

0.1

0

-SIR

2023

Disclosures

We have no financial interests or relationships to disclose.

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HEALTH

Objectives

- · Reduce the number of CAUTIs in a sustainable manner.
- Provide appropriate alternatives to indwelling urinary catheters.

bundles urine collection device cators	Product manufacturer educators performed on-site trial and training			
Record Tools - stop for patients with >2 hospital days Medical Director must ures for testing if ia but clinically is of pyelonephritis)	 Weekly Indwelling Urinary Catheter Maintenance Audits - Ongoing Round with unit leaders to assess the following: Seal between the catheter and drainage tubing present Catheter secured to the thigh with appropriate device No dependent loop in the tubing Drainage bag below the bladder and off the floor Drainage bag filled with <1000cc of urine Data sharing with key stakeholders 			
	Results			
a 2-year (and	CAUTI Count and SIR 2019-2023	0.8 0.7 0.6		
ation of IP,	4 — 3 — 0.21	0.5 0.4 2 0.3		

2020

2021

2022

CMS-Reportable CAUTI

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- hrough collabora nursing, and supply chain, new male external urine collection devices were stocked in supply rooms through all inpatient, emergency, and observation departments for easy access.