

2016 American Nurses
Association Annual Conference

Connecting **Quality, Safety**
and **Staffing** to Improve Outcomes



Changing the Culture

Catheter-associated Urinary Tract Infection Prevention in the Progressive Care Unit

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Culture

“Culture is the atmosphere created by shared beliefs, practices, attitudes, etc., which shape our behavior. In a strong safety culture, everyone feels responsible for safety and pursues it on a daily basis.”

- Drivers for culture change:
 - Front line “buy-in”
 - A system of accountability
 - Ongoing measurement and feedback
 - Communicate results and celebrate successes
 - An interdisciplinary steering committee
 - On-going support



Objectives

- To support culture change through interdisciplinary collaborative practice while improving quality and safety for patients
- To adopt and implement a standardized approach in order to reduce process variability and improve team member accountability



CAUTI Facts

- Catheter-associated urinary tract infections (CAUTI) remain the most common nosocomial infection (Tambyah & Oon, 2012).
- CAUTIs lead to increased hospital costs, length of stay, morbidity, and mortality
 - More than 500,000 CAUTIs occur yearly in the US
 - Single largest source of bacteremia in hospitalized patients
 - Average cost per CAUTI varies from \$980 to \$2900
 - Annual cost is over \$424 million
- With appropriate infection prevention measures
 - 20% to 70% of CAUTIs may be preventable
 - nearly 9,000 deaths could be prevented annually

(Tambyah & Oon, 2012; Halm & O'Connor, 2014)



Guidelines & Recommendations

CDC Guidelines (2009)

- Proper insertion technique including aseptic technique
- Proper securement
- Minimize catheter use and duration in all patients
- Daily review of continued need
- Quality improvement programs should entail:
 - monitoring adherence to criteria for appropriate utilization
 - periodic in-service training and CAUTI education
 - provision of performance feedback
 - standardized format of documentation in EMR

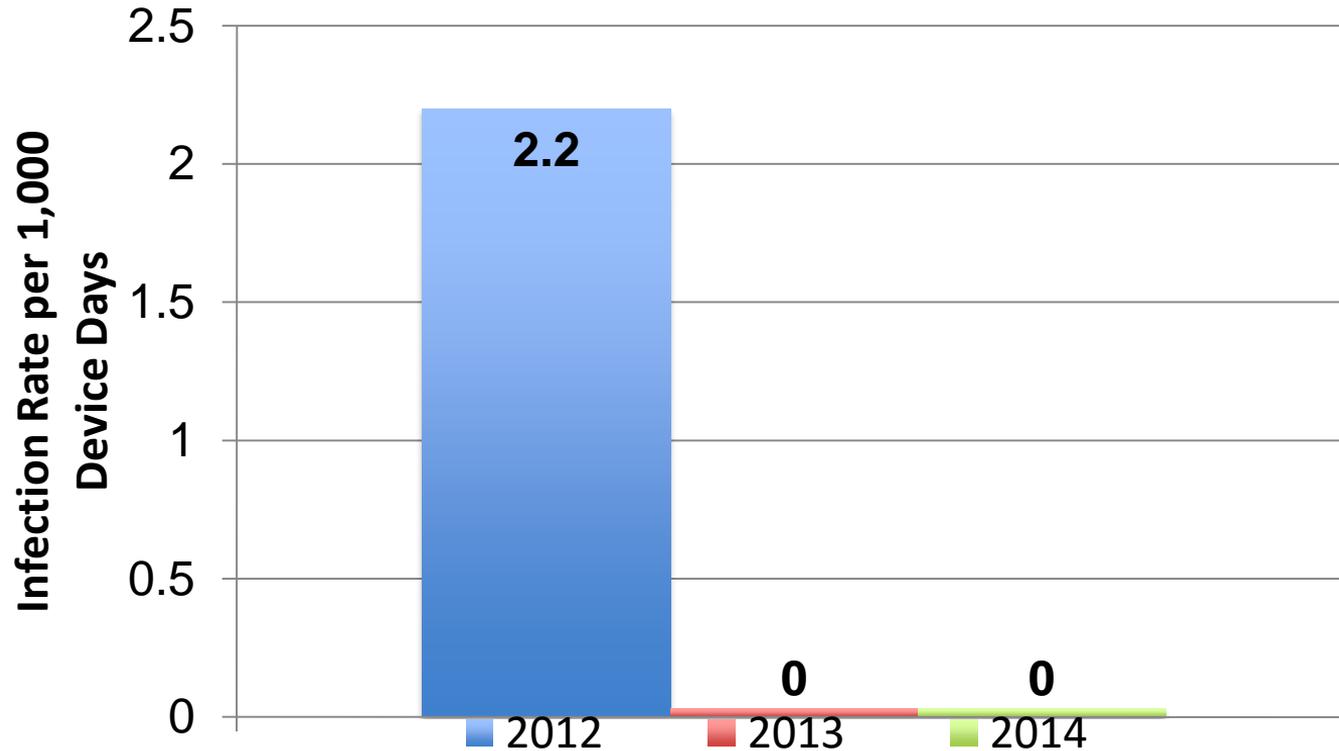


Project Triggers

- There were four CAUTIs on the Progressive Care Unit in 2012
- The Unit Nurse Practice Council (UNPC) perceived a variability in practice
 - Missing NHSN/OH criteria on catheter insertion orders
 - Catheters inappropriately placed
 - Inconsistent catheter care and documentation
 - Daily review of necessity not consistently discussed in collaborative rounds
 - Concerns about insertion techniques and staff knowledge
 - Improper anchoring of device
- Participation in the Comprehensive Unit-based Safety Program (CUSP)



CAUTI Rates





Unit Nurse Practice Council

- Purpose: to examine and evaluate the practice of nursing on South Seminole Hospital's progressive care unit and to develop methods to improve quality of patient care and staff satisfaction (Orlando Health, n.d.).
- Meets monthly for 2 hours
- Led by a chair and co-chair
- All PCU team members are participants
 - 25 – 30 members in attendance monthly
- Shared leadership approach
 - Nurse leaders are involved



Team for Success

- **Staff engagement**
 - Unit Nurse Practice Council led initiative
 - Interdisciplinary team assembled:
 - RNs
 - Nursing assistants
 - Learning specialist
 - Clinical Nurse Specialist
 - Unit leadership
 - Nurse Manager
 - Assistant Nurse Manager
 - Executive leadership support
 - Physicians



Methodology

- **Education**

- Competency demonstration check-off required for all RNs during 2013 annual skills fair and new staff orientation
- Monthly education briefs shared with staff included:
 - Orlando Heath policy regarding indwelling catheters
 - evidence-based best practices for CAUTI prevention
- One on one education
 - Registered nurses educated to address daily necessity during collaborative rounds with physicians
 - Nursing assistants educated on catheter care and documentation
- MD Chief Quality Officer and urologist collaborated to develop educational music video titled “Get the Foley Out”



Methodology

- **Surveillance of Process Compliance**
 - Weekly auditing completed by bedside nurses
 - Works to facilitate accountability and reinforcement
 - Process metrics:
 - Insertion order meets NHSN/OH criteria
 - Daily catheter care documentation
 - Presence of catheter securement device
 - Review of necessity on the day of the audit
 - Immediate feedback provided at time of audit
 - Charge nurses address catheter necessity with primary nurse daily
 - Trends shared during staff huddles, monthly at unit practice council meetings, and via email



Process Audit Tool

Stop CAUTI PCU

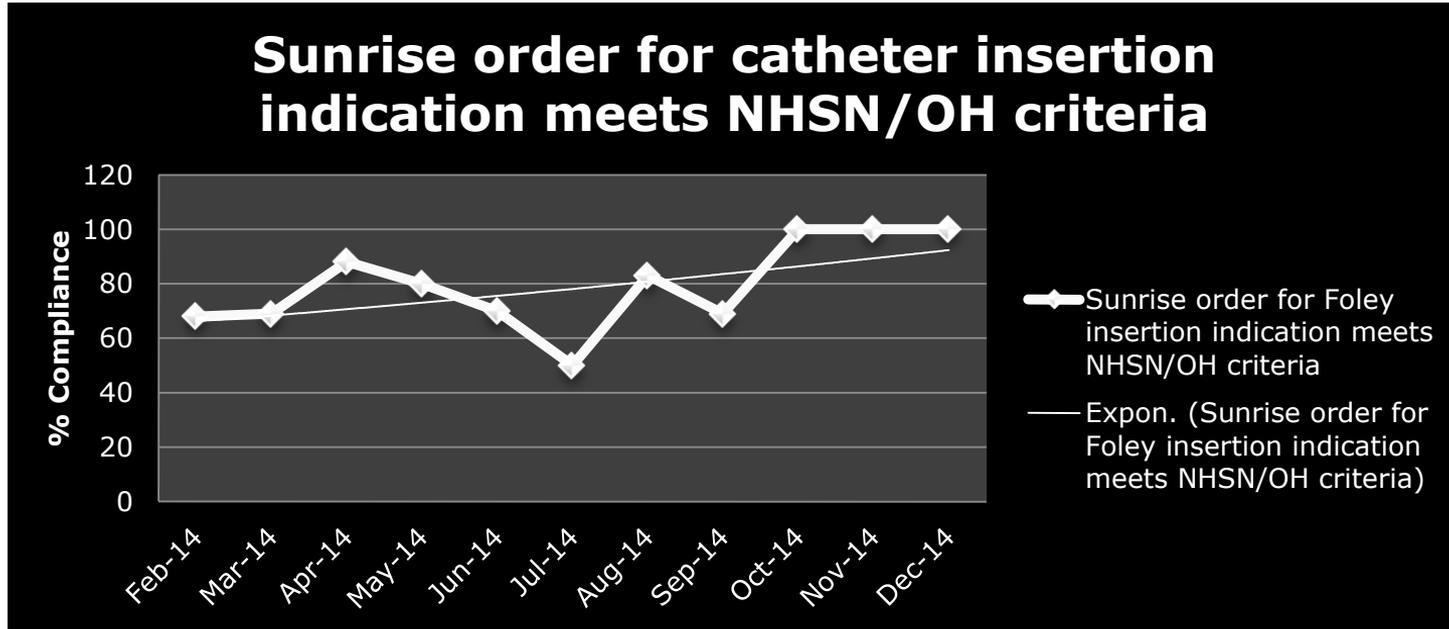
CAUTI Prevention Audit

Date: _____

Pt ID	Sunrise Order Present?	YES	NO
	Appropriate NHSN/OH criteria on order?	YES	NO
	<ul style="list-style-type: none"> If no, was nurse directed to obtain order? If no, inappropriate indication # _____ If yes, indication # _____ 	YES	NO
	Is securement device present?	YES	NO
	Has Foley care been documented appropriately in Sunrise?	YES	NO
	Has the nurse addressed daily necessity during collaborative rounds?	YES	NO
	<ul style="list-style-type: none"> If no, was the nurse directed to review necessity with the MD? 	YES	NO
Notes			

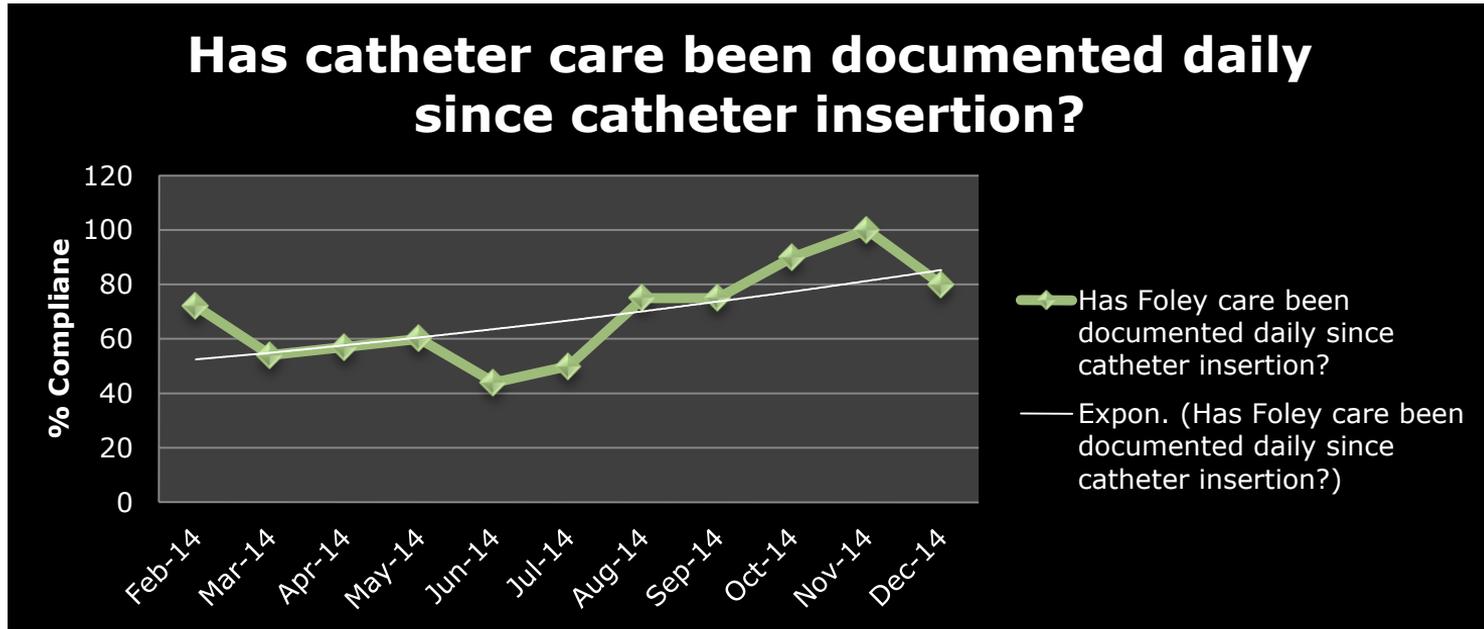


Process Audit Results



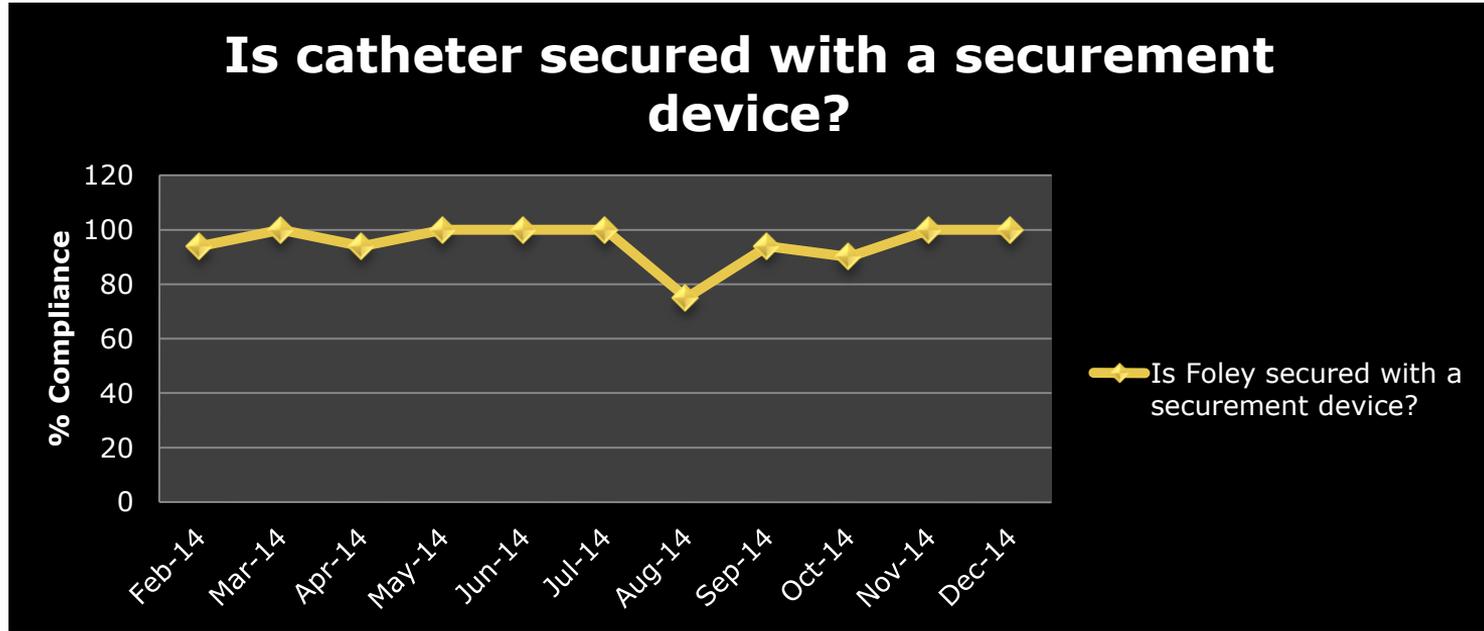


Process Audit Results



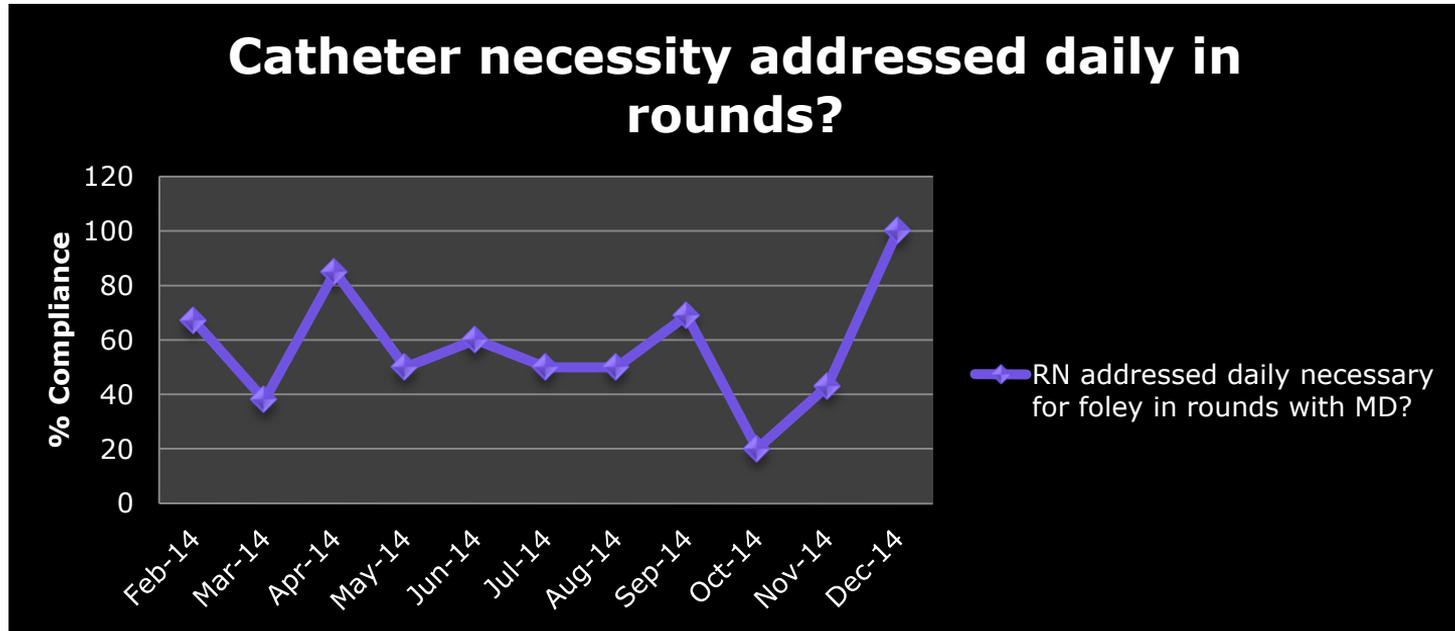


Process Audit Results



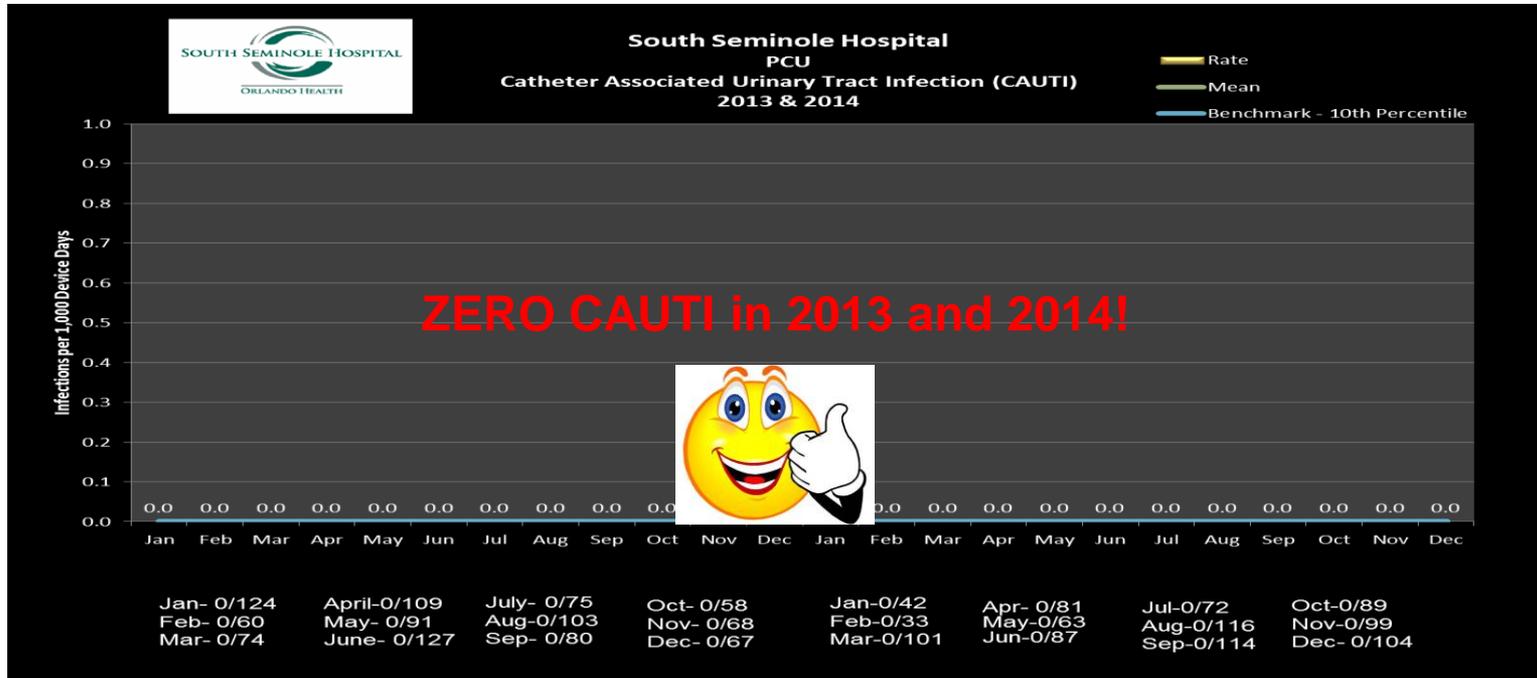


Process Audit Results





CAUTI Outcomes



Continued success: there were no CAUTIs in 2015



Outcomes

- **Maintained Zero CAUTIs since 2013!!**
- Process variability reduced
 - Improvements seen in presence of catheter orders and care documentation
 - Opportunities still exist in addressing catheters daily in collaborative rounds
- Improved accountability with staff led auditing involving real time feedback
- Positive support and collaboration with the CUSP initiative



Sustaining the Culture Change

- Our multifaceted approach proved effective in establishing a positive change in the PCU safety culture which has been sustained for over two years.
 - Process audits continue today led by front-line staff
 - Process audits have spread to all inpatient units
 - An awareness of CAUTI prevention maintained despite 57% staff turnover
 - PCU CAUTI prevention team collaborating with corporate team to standardize infection prevention efforts
 - Growing partnership with physicians
- Unit AHRQ Safety Survey & NDNQI Survey 2015 Results
 - Results of leader support of safety, learning and continuous improvement, teamwork and overall perception of safety significantly above benchmark



“A culture is a living thing, powered by and kept up to date by the people who are encouraged to be, in a meaningful way, part of it.” - Micah Solomon

(Solomon, 2014)



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Thank you!
Questions?

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