

Keep Calm and Prevent CAUTI and CLABSI

Welcome!

- All lines are muted, so please ask your questions in Chat
- For technical issues, chat to the 'Technical Support' panelist
- Please actively participate in polling questions that pop up on the lower right-hand side of your screen

We will get started shortly!

Collaborating to Support Your Quality Improvement Efforts















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- Healthcentric Advisors Qlarant
- Kentucky Hospital Association
- Q3 Health Innovation Partners
- Superior Health Quality Alliance































Agenda

- Welcome and introductions
- CAUTI data analysis trends
- Performance improvement tools
- Northeast Alabama Regional Medical Center (NEARMC)
- Q&A
- Resources
- Adjourn



Karen Holtz, MT (ASCP), MS, CPHQ Alliant Health Solutions











Featured Speaker



Debra Holmes, RN, BSN, CCDS Director, Case Mgmt/Quality/Social Services/CDI Northeast Alabama Regional Medical Center/RMC Stringfellow

Debra received her nursing degree from Gadsden State Community College and a bachelor's degree in nursing from Jacksonville State University. She has over 20 years of experience in quality and performance improvement. Prior to becoming a nurse, Debra worked as a pharmacy technician and veterinary assistant.











Learning Objectives

- Understand how changing the hospital-acquired infections (HAI) review process resulted in better patient outcomes
- Gain insight into how the Root Cause Analysis (RCA) process is used to identify missed opportunities to prevent CAUTI and CLABSI
- Learn how the team "shops at The Gaps" to implement best practice interventions

Healthcare-Associated Infections (HAI)





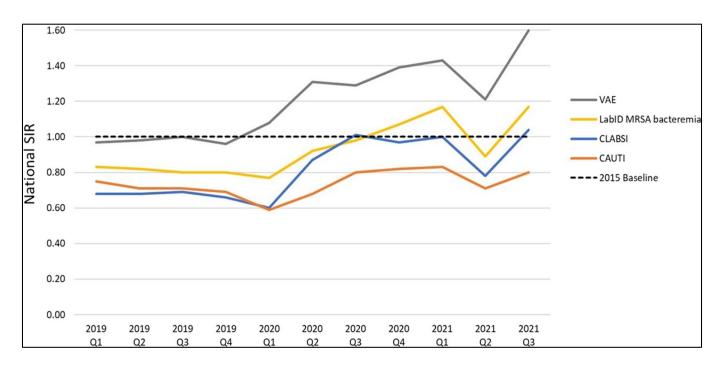








Quarterly National SIRs



Quarterly national SIRs for select HAI types, 2019-Q1 through 2021-Q3. The HAIs shown on this graph have been most affected by the COVID-19 pandemic, as demonstrated by CDC data.

Source: CDC



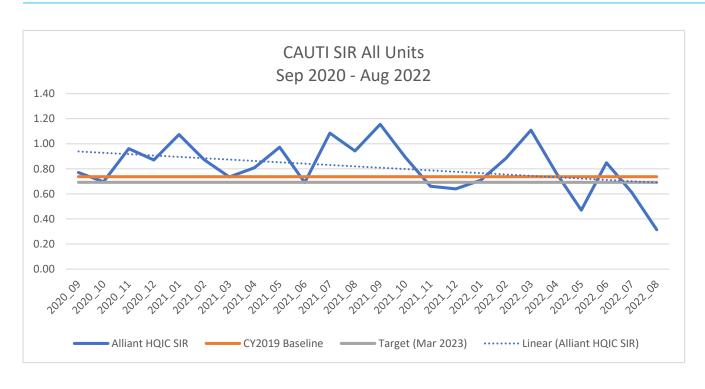








Alliant HQIC: CAUTI SIR All Units



- Overall downward trend
- Met target goal of 6% reduction from CY2019 baseline



Data Source: NHSN (all payers)

Baseline: CY2019

Target Goal (Mar 2023): Decrease of 6% from CY2019 baseline

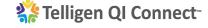
HQIC Average: all enrolled HQIC hospitals reporting; N = 123/150 (82%)





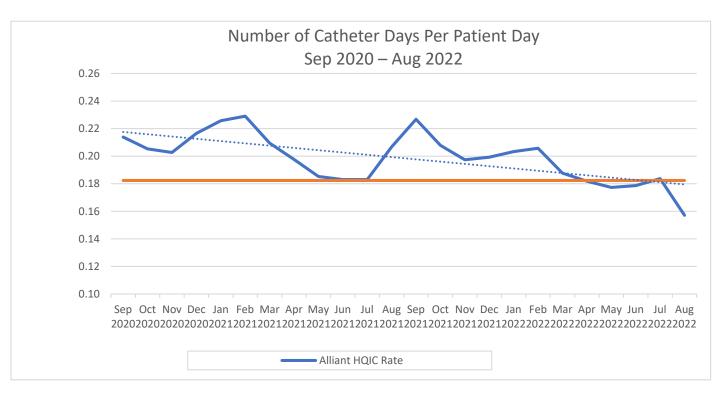








Alliant HQIC: Number of Catheter Days per Patient Day



- Overall downward trend
- Met goal of less than CY2019 baseline



Data Source: NHSN (all payers)

Baseline: CY2019

Goal: Achieve less than 2019 Baseline

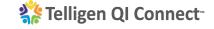
HQIC Average: all enrolled HQIC hospitals reporting; N = 126/150 (84%)













Alliant HQIC Top Five Interventions

- Nurse-driven protocol
- Alternatives to Foley
- Physician and nurse champions leading the charge
- Ongoing assessment for device necessity reviewed and documented daily
- IP rounding and conducting direct observations and providing education as needed











Top Performance Improvement Tools

- Gap analysis is a tool used to assess the difference between actual practice and expected performance
 https://quality.allianthealth.org/wp-content/uploads/2021/11/CAUTI-Gap-Assessment-Tool 2SOW-AHS-TO3-HQIC-1058-10.29.21.pdf
- Cause and effect/fishbone diagram is a tool used to identify and visually display all possible causes related to a problem and to pinpoint the root cause(s)

https://quality.allianthealth.org/wp-content/uploads/2021/07/Fishbone-Diagram-Worksheet_AHSHQIC-TO3H-21-871 11.5.21 508.pdf

- Pressure injuries example of cause and effect diagram
 <u>https://quality.allianthealth.org/wp-content/uploads/2022/04/HQIC-Fishbone-Diagram-Pressure-Injuries-v2.pdf</u>
- Audit/Observation tool
 https://www.cdc.gov/infectioncontrol/pdf/QUOTS/Urinary-Catheter-Observation-P.pdf
- CAUTI event report
 https://www.ahrq.gov/hai/cauti-tools/impl-guide/implementation-guide-appendix-o.html

Northeast Alabama Regional Medical Center (NEARMC) Anniston, AL



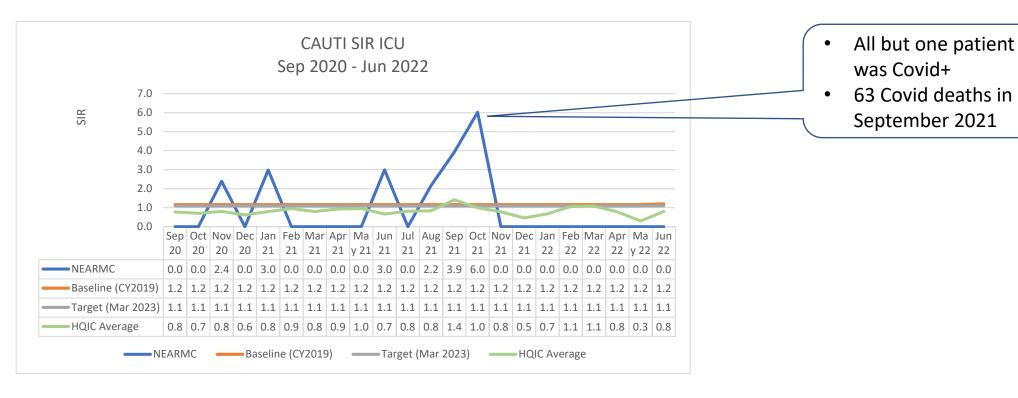
NEARMC: 338 licensed beds



Stringfellow: 125 licensed beds



CAUTI SIR ICU: Currently Maintaining Zero, Meeting Target Goal and Better than HQIC Average



Data Source: NHSN (all payers)

Baseline: CY2019

Target Goal: 6.0% reduction from 2019 baseline by March 2023

HQIC Average: all enrolled Alliant HQIC hospitals reporting; N = 70/80 (87.5%)





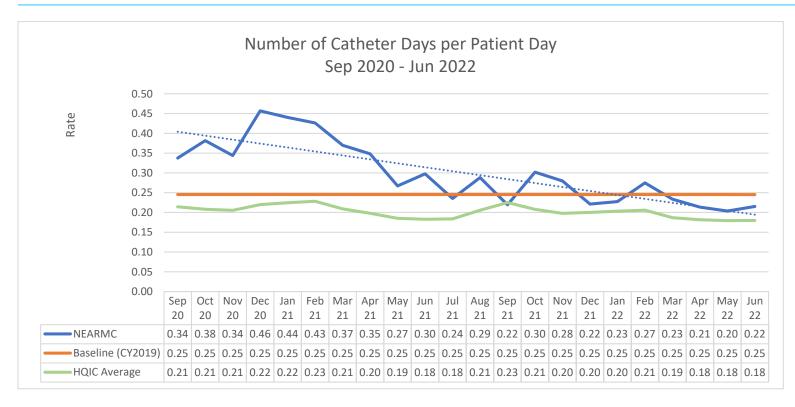








Number of Catheter Days per Patient Day: Overall Downward Trend and Currently Below 2019 Baseline





As we increased awareness and prevention total device days declined as well = **WIN WIN**

Data Source: NHSN (all payers)

Baseline: CY2019

Goal: Achieve less than 2019 Baseline

HQIC Average: all enrolled HQIC hospitals reporting; N = 126/150 (84%)





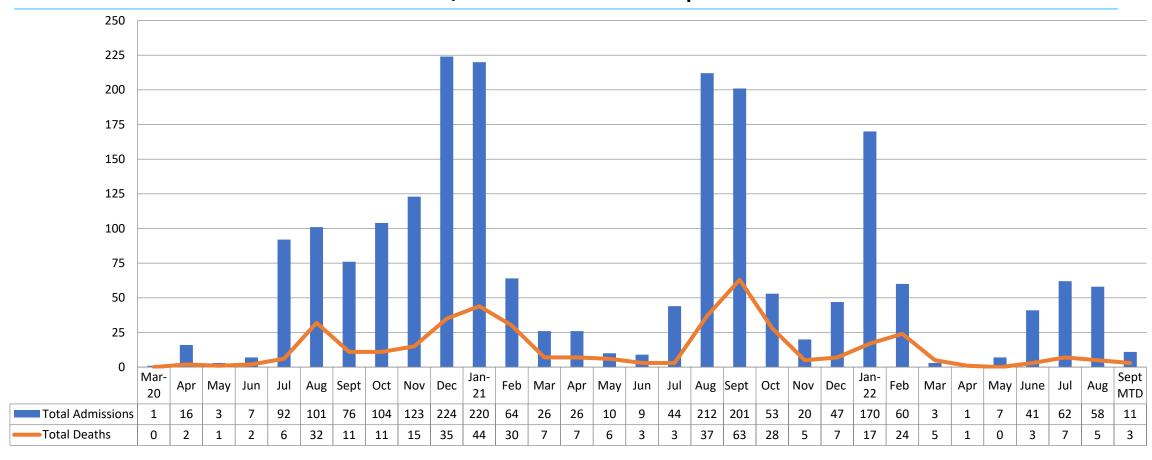








RMC Health System COVID Admissions/Deaths March 2020-September 2022 MTD













CAUTI Interventions

- Development of a CAUTI prevention team
- Policy review
- Development of an automated daily Foley report emailed to all managers (thank you, IT department!)
- Rounding and monitoring of Foley by ICPs
- Staff education and utilization of external catheters
- Implementation of Provon cleansing wipes for Foley care for ICU patients

- Updated and posted new educational posters for units for when to use Foleys vs. external catheters
- Reviewed best practice for reflex UCs off of UAs
- Re-education on bladder bundle and Foley protocol
- Periodically posting "potty posters" with reminders and education regarding foleys
- HAI team conducts root cause analysis





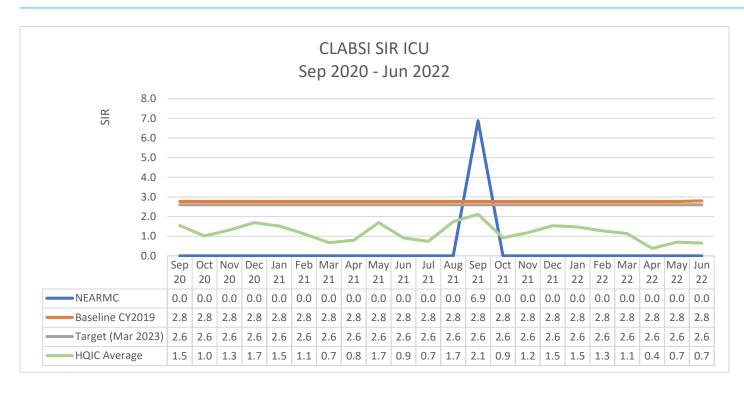








CLABSI SIR ICU: Currently Maintaining Zero, Meeting Target Goal and Better than HQIC Average



One CLABSI is in the midst of a COVID storm...

Data Source: NHSN (all payers)

Baseline: CY2019

Target Goal: 6.0% reduction from 2019 baseline by March 2023

HQIC Average: all enrolled HQIC hospitals reporting; N = 70/80 (87.5%)

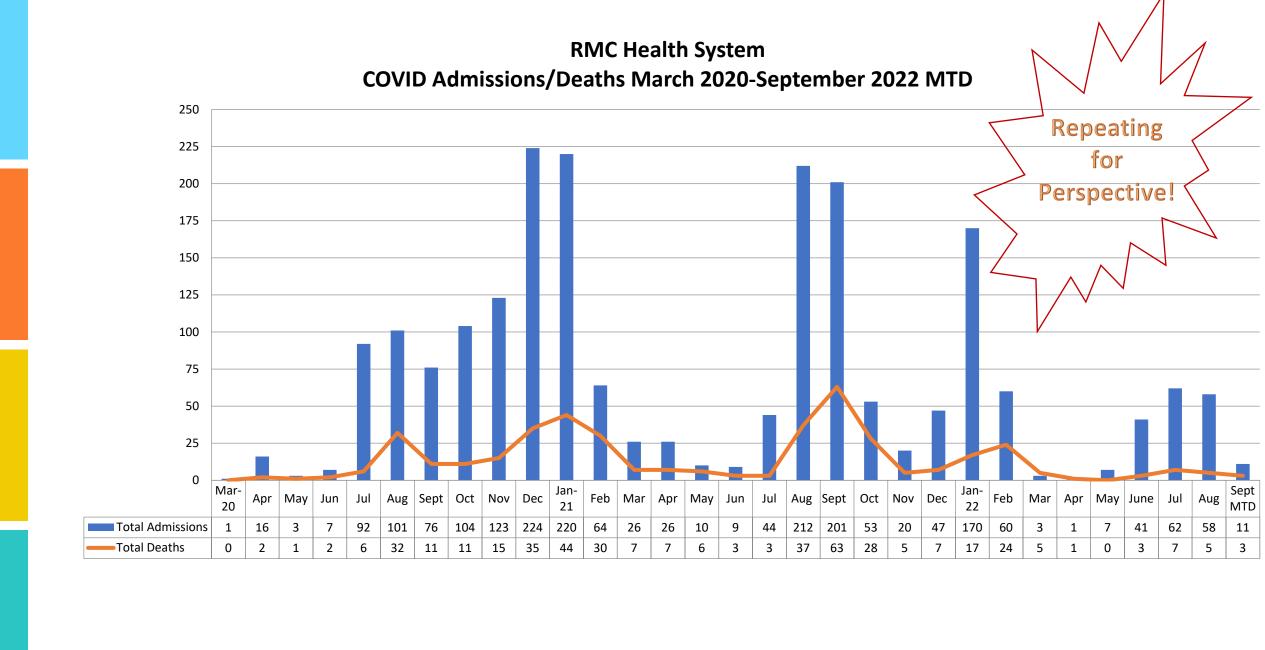




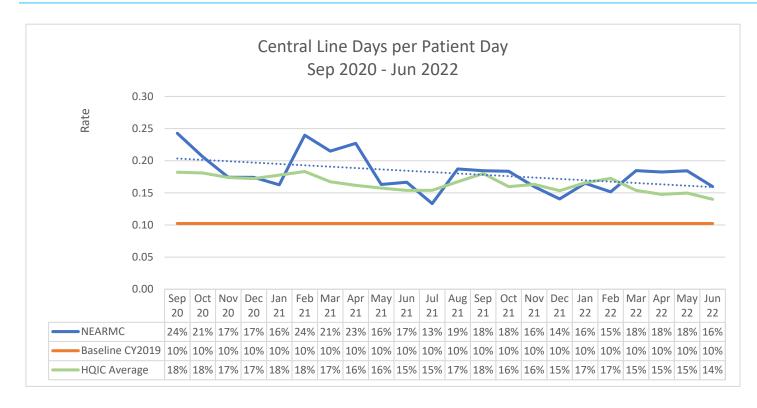








Number of Central Line Days per Patient Day: **Overall Downward Trend**





Again...awareness decreases device days

Data Source: NHSN (all payers)

Baseline: CY2019

Goal: Achieve less than 2019 Baseline

HQIC Average: all enrolled HQIC hospitals reporting; N = 126/150 (84%)













CLABSI Interventions

- PICC team is notified of CVLs and performs all scheduled dressing changes at least every seven days and PRN dressing changes when notified by staff
- Utilize an all-inclusive dressing change kit with biopatch
- As the PICC team is consulted for IV access, they will utilize midlines whenever possible in place of a PICC

- All central lines are assessed daily for continued need and obtain an order to DC as soon as appropriate
- Utilize Curos caps on IV ports
- Re-enforced to staff no blood draws from the central line
- HAI team conducts root cause analysis











Multidisciplinary Hospital Acquired Infection (HAI) Team

- ★ Nursing
- * Administration
- Quality
- Infection Prevention
- Medical Staff



- HAI team meets every two weeks or more often to conduct an RCA on each failure and apply inclusion/exclusion criteria
- HAI team decides as a group if it is a true reportable CAUTI/CLABSI











Challenges and Solutions AKA Shopping at "The Gaps"

| Challenges | Solutions |
|--|---|
| Working on prevention in the throes of COVID | IP monitoring, nurse manager ownership |
| Foleys being ordered without true necessity | Re-education regarding Foley bundle |
| No sense of urgency in discontinuing Foleys | Bundle education. Implemented process to ask for Foley removal prior to transfer from Emergency Department. |
| No good alternative for male Foleys | Trial and implementation of male external catheter (Liberty) |











How the HAI Team Works

- ICPs identify and investigate each potential CLABSI, CAUTI, C Diff, MRSA and SSI, utilizing a worksheet for each measure.
- Prior to meeting, the information goes out to team members for them to investigate (Quality, nurse managers, ED, etc.).
- Every two weeks, the team meets to discuss each case for the root cause and possible preventative measures/actions.
- Inclusion/exclusion criteria are applied as appropriate.
- A decision is made as a group if an occurrence qualifies as an HAI.











Root Cause Analysis (RCA) Form Used

| URINE NIM Work up sheet | Ortho will not count |
|--|---|
| NAME | MR# Count |
| AGE (12 YUM | |
| ADMIT 8-3 | - |
| DISCHG 8-22 deceased | |
| COLLECT 8-12- | - |
| Ordering Physician / | Reason? |
| >10'5? YES NO | e. coli ESEL. |
| FOLEY? YES NO | DATES 8-4 > d/c (God of life) |
| Meets crit for CAUTI? YES NO | (in place greater than 2 days and present day of event or day before) |
| FEBRILE? YES NO | DATE 8-12 TEMP 101.2 |
| S&S YES NO | - |
| BCs? (YES) NO | X2 negative |
| Other details or suggestions that may have prevented | NIM |
| Corid D | |
| DNR Stohus 8/3 | CAUT1 |

It Takes a Village!















Type Questions in Chat



- 1. Share checklists for root cause analysis
 - Gap analysis is a tool used to assess the difference between actual practice and expected performance

https://quality.allianthealth.org/wp-content/uploads/2021/11/CAUTI-Gap-Assessment-Tool 2SOW-AHS-TO3-HQIC-1058-10.29.21.pdf

 Cause and effect/fishbone diagram is a tool used to identify and visually display all possible causes related to a problem and to pinpoint the root cause(s)

https://quality.allianthealth.org/wp-content/uploads/2021/07/Fishbone-Diagram-Worksheet AHSHQIC-TO3H-21-871 11.5.21 508.pdf

2. How to do surveillance when not reporting to NHSN for a very small hospital? IP rounding and conducting direct observations and providing education as needed











Key Takeaways

- Understand how changing the HAI review process resulted in better patient outcomes
- Gain insight into how the RCA process is used to identify missed opportunities to prevent CAUTI and CLABSI
- Learn how the team "shops at The Gaps" to implement best practice interventions



How will this change what you do? Please tell us in the poll...











Resources

- CAUTI Coaching Package
 - https://quality.allianthealth.org/wp-content/uploads/2022/05/AHS-HQIC-Coaching-Package-CAUTI_FINAL_508.pdf
- Alliant Quality HQIC CAUTI Gap Assessment Tool
 https://quality.allianthealth.org/wp-content/uploads/2021/11/CAUTI-Gap-Assessment-Tool 2SOW-AHS-TO3-HQIC-1058-10.29.21.pdf
- Toolkit for Reducing Catheter-Associated Urinary Tract Infections in Hospital Units: Implementation Guide (AHRQ)

https://www.ahrq.gov/hai/cauti-tools/guides/implguide-pt3.html#approp











NEARMC Bladder Bundle

BLADDER BUNDLE

| Policy Applies | То: | Organization, Administrative |
|------------------|---------|--|
| Review History: | | |
| Revised History: | 11/2011 | 3/2013; 2/2016 (formerly Foley Cath); 4/2016, 8/2019, 5/2021 |

PURPOSE

To prevent and reduce the risk of catheter-associated urinary tract infection

POLICY

To limit the use of urinary catheters to carefully selected patients, thereby reducing the size of the population at risk.

PROCEDURE:

- 1. Appropriate indications for Indwelling Urethral Catheter use
 - a. Acute anatomic or functional urinary retention or bladder outlet obstruction
 - b. Need for accurate measurements of urinary output in critically ill patients
 - c. Perioperative use for selected surgical procedures
 - d. To assist in healing of open sacral or perineal wounds in incontinent patients
 - Patient requires prolonged immobilization (e.g., potentially unstable thoracic or lumbar spine; multiple traumatic injuries, such as pelvic fracture; immediate post op or post procedures requiring bedrest for less than 24 hours; PE or DVT requiring strict bedrest)
 - f. To improve comfort for end of life care if needed
 - g. Chronic indwelling catheter present on admission

Examples of inappropriate use: a substitute for nursing care of the patient with incontinence, prolonged postoperative duration without appropriate indications, and as a means of obtaining urine for culture or other diagnostics when the patient can voluntarily void

- 2. Proper technique for Urinary Catheter Insertion
 - Perform hand hygiene immediately before and after insertion or any manipulation of the catheter device or site.
 - Insert using aseptic technique
 - Secure line with stat lock device

| Policy Applies To: Organization, Administrative |
|---|
|---|

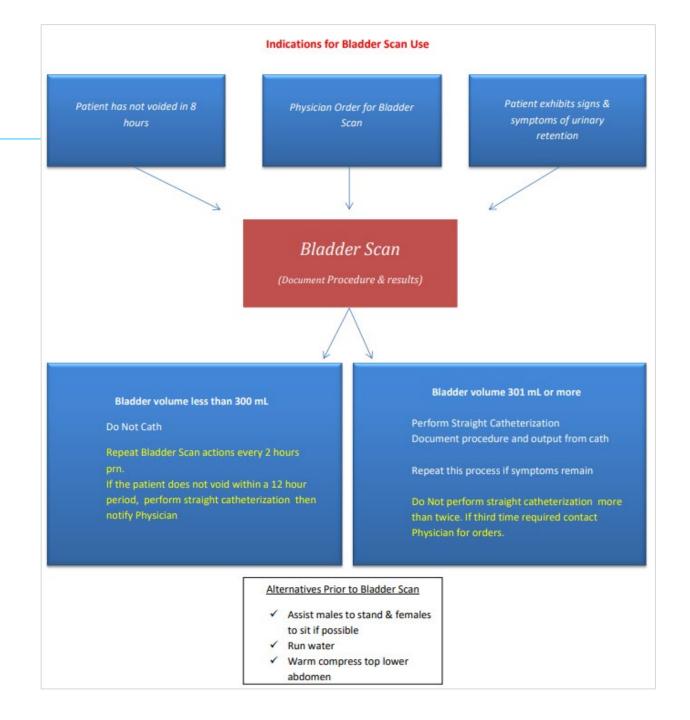
- 3. Proper techniques for urinary catheter maintenance
 - a. Maintain a closed drainage system
 - Maintain unobstructed urine flow
 - Keep the tubing free from kinking
 - ii. Keep the collection bag below the level of the bladder at all times
 - iii. Empty the collection bag regularly
 - Indwelling urinary catheters inserted in emergency situations must be discontinued or changed within 24 hours
 - d. Obtain urine specimens aseptically
 - A urinalysis and urine culture is collected on admission for patients admitted from nursing homes, assisted living facilities, long term care facilities or other hospitals.
 - Patients admitted with an indwelling urinary catheter in place will have it changed out to the silver indwelling catheter system. A urinalysis and urine culture will be collected after the catheter in changed out.
- Assessment of urinary catheter
 - a. Nursing will assess the patient daily for the need to have an indwelling urinary catheter
 - The nurse will discontinue the indwelling urinary catheter if it does not meet criteria, unless ordered by the physician
 - c. Remove indwelling urinary catheters within 24-48 hours after surgery unless ordered by physician
 - The ICU nurse will discontinue the indwelling urinary catheter upon transfer of the patient to a medical floor unless reordered by the physician
- 5. Alternatives to indwelling urinary catheter
 - a. Bladder Scan (see Bladder Scan flowchart)
 - Intermittent catheterization
 - c. External catheters
 - d. Bedside commodes
 - e. Prompted toileting

Attachment A: Indications for Bladder Scan Use (Attachment-BLADDER BUNDLE)

Attachment B: Indwelling Urinary Catheter Removal Protocol (Attachment-BLADDER BUNDLE)

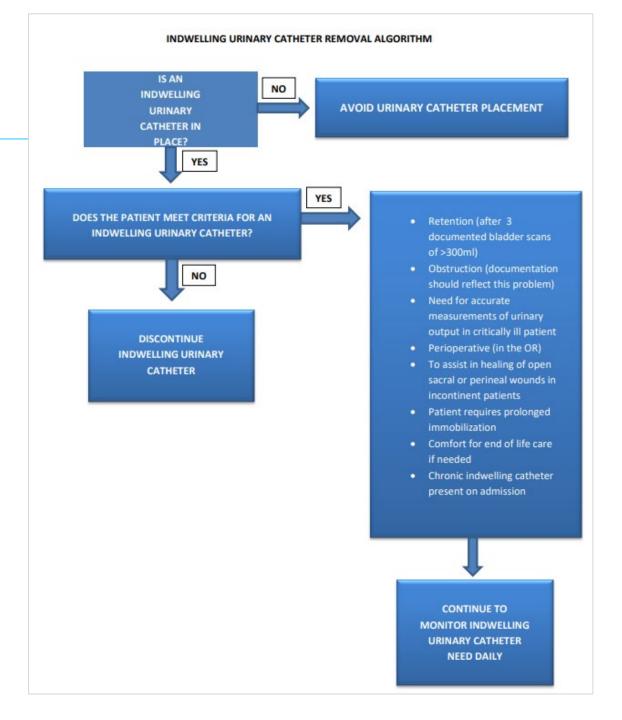
NEARMC Indications for Bladder Scan Use

Attachment A



NEARMC Indwelling Urinary Catheter Removal Algorithm

Attachment B



Upcoming Events



Thursday, Oct. 27, 2022

1-1:30 pm ET/12-12:30 pm CT/11-11:30 am MT/10-11am PT

CAUTI Prevention in Action: Strategies from the Field (physician champion and staff education)

Registration link below

https://telligen.zoom.us/meeting/register/tZYkcuChrT4uHNG FJWJt2CX8FZHRTWxIbcpS









Contact Us











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