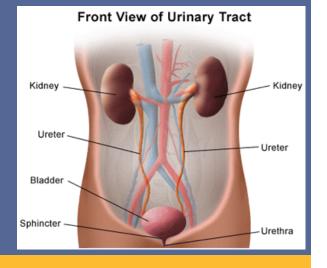
CAUTI Initiative:

Nurse Driven Protocol for Assessment and Removal of Unnecessary Urinary Catheters

Charlene Earnhardt, RN, MSN, CNS Clinical Nurses Specialist 7ICU, Cardiothoracic

Elise Martin, MD Infectious Diseases Fellow



NUR-HS 174



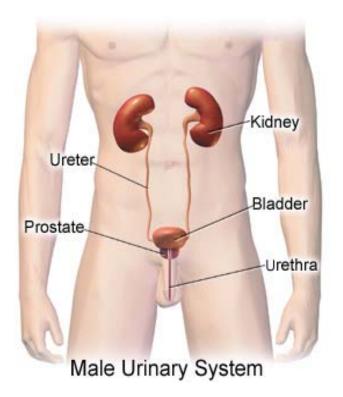
UTI : Etiology and Patient Risks

About 95% of UTIs occur when bacteria <u>ascend the</u> <u>urethra to the bladder</u>

Up to 69% of CAUTI may be PREVENTABLE

CAUTI is the leading cause of secondary hospital-acquired blood stream infections

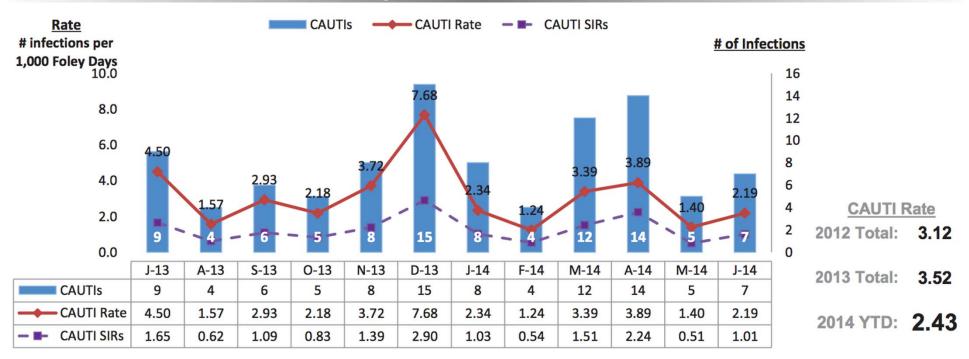
The risk of a UTI increases 5% each day the urinary catheter remains in place





CAUTI Rates at RR-UCLA

Hospital Total - All Units



Data Source: NHSN NHSN SIRS ratio: # infections / # of expected infections

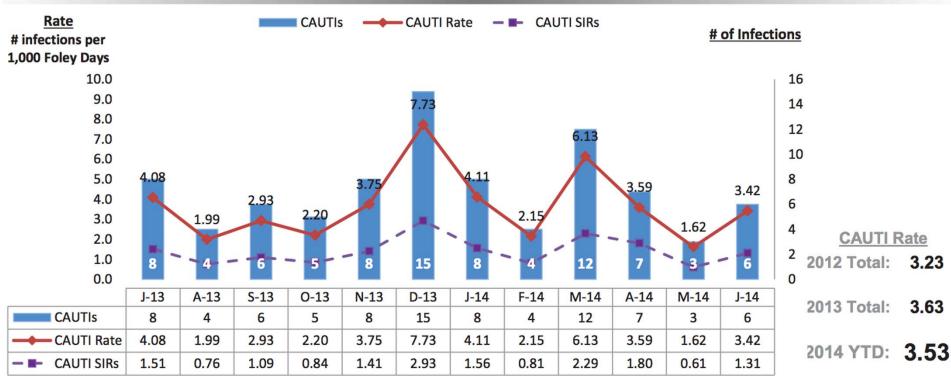
Revised by Infection Prevention: 7/18/2014





CAUTI Rates at RR-UCLA

Intensive Care Units



Data Source: NHSN NHSN SIRS ratio: # infections / # of expected infections

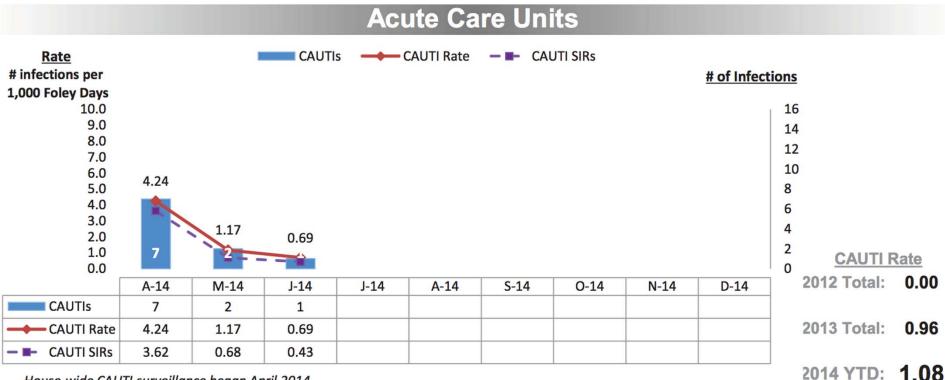
Revised by Infection Prevention: 7/18/2014

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CAUTI Rates at RR-UCLA



House-wide CAUTI surveillance began April 2014

Data Source: NHSN NHSN SIRS ratio: # infections / # of expected infections

Revised by Infection Prevention: 7/18/2014





Nurse Driven Protocol for Assessment and Removal of Unnecessary Urinary Catheters

- When physician orders a catheter in care connect → <u>default</u> will enter patient in nurse driving protocol for removal
 Physician may opt out
- Daily nursing assessment of need for urinary catheter
- Protocol allows for removal <u>without additional physician order</u> if the indications for urinary catheter are no longer present
- Protocol will assist with:
 - SCIP compliance
 - Allows for earlier removal
 - Frees up physician time
 - Decreases healthcare associated infections



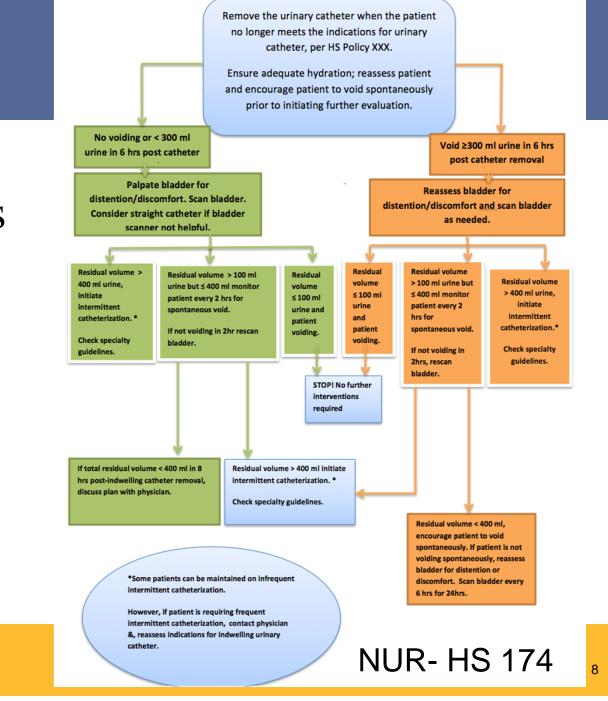
Nurse Driven Foley Catheter Removal Protocol

- <u>Indications</u> for an indwelling urinary catheter:
 - Acute urinary retention or obstruction
 - Perioperative use for selected surgical procedures
 - Accurate measurement of urinary output in unstable patients (ICU patients)
 - To assist in healing of stage 3 or 4 open sacral or perineal patients
 - Advanced terminal illness and comfort care
- If the indication is no longer present, the catheter can be removed <u>without</u> an additional order





How the Protocol Works



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<u>Step 1</u> – Remove the catheter if indications are no longer met

Remove the urinary catheter when the patient no longer meets the indications for urinary catheter, per HS Policy 174.

Ensure adequate hydration; reassess patient and encourage patient to void spontaneously prior to initiating further evaluation.

• <u>Indications</u>:

- Acute urinary **retention or obstruction**
- Perioperative use
- Hourly I/O for **unstable patients**
- Stage 3 or 4 open sacral or perineal patients
- Comfort care



Depends on patients ability to void within 6 hours

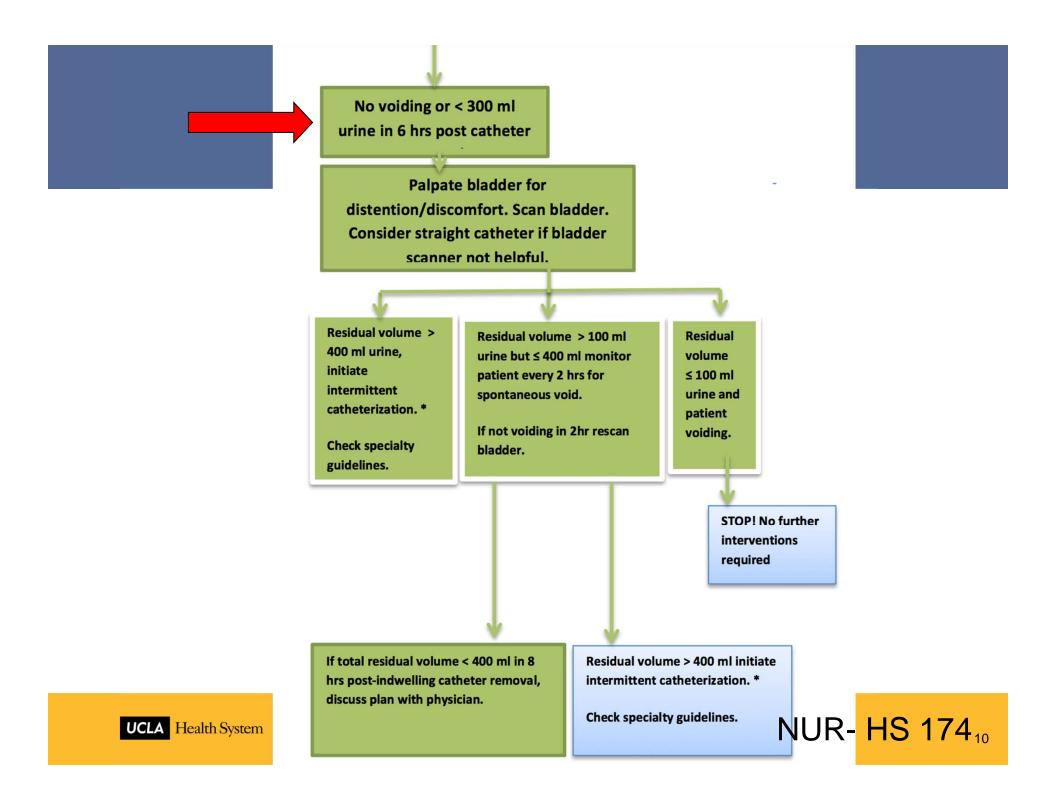
NUR- HS 174

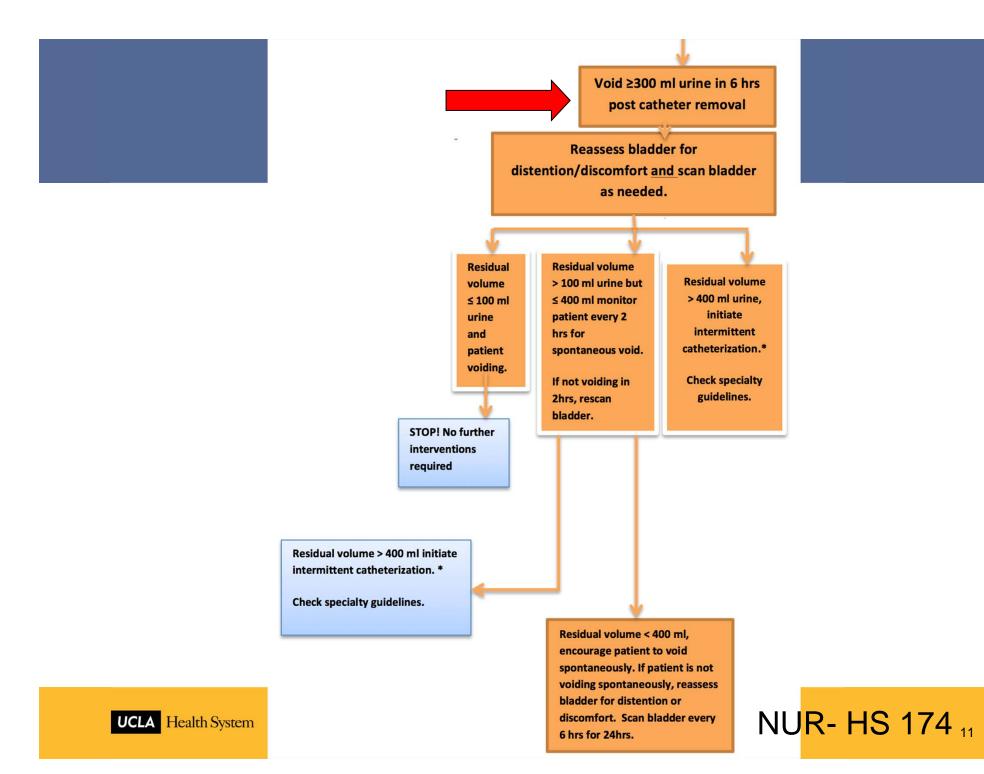
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<u>Step 2</u>_

Ensure the patient can void after removal of the catheter

UCLA Health System





*Some patients can be maintained on infrequent intermittent catheterization.

However, if patient is requiring frequent intermittent catheterization, contact physician &, reassess indications for indwelling urinary catheter.





Nursing's Role: CAUTI

Consider alternatives to indwelling urethral catheters, such as:

- Intermittent catheterization
 - Spinal cord injury
 - Bladder emptying dysfunction
- Condom Catheter for male patients
- Female Urinals
- Use portable ultrasound **bladder scanners** to detect residual urine amounts

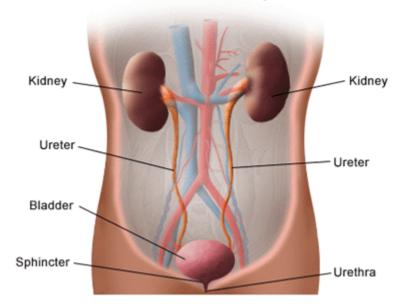




Nursing's Role: CAUTI (cont.)

Proper Insertion

- Hand hygiene before and after contact with catheter or site
- Use **aseptic insertion technique** with appropriate hand hygiene and gloves
- Allow **only trained** healthcare providers to insert catheter
- Use **smallest bore possible** to achieve drainage
- Properly secure catheters after insertion to prevent movement and urethral traction, do not attach to movable parts of the bed



Front View of Urinary Tract





Nursing's Role: CAUTI (cont.)

Proper Maintenance

- Use standard precautions and hand hygiene when handling catheter or drainage system.
 - Meatal care with soap and water every shift and PRN
 - Start from meatal area outward towards catheter
 - Perineal care after each bowel movement
- Maintain unobstructed urinary flow
 - Check for kinks and dependent loops in catheter tubing
 - Maintain drainage bag below level of bladder at all times
- Maintain a sterile closed drainage system
- **Do not change** indwelling catheters or urinary drainage bags at arbitrary fixed intervals, change based on clinical indicators: infection, obstruction or compromise of closed system

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Nursing's Role: CAUTI (cont.)

Proper Maintenance and Removal

- Use indwelling catheters only when medically necessary
- Document indication for urinary catheter on each day of use
- Reassess the need for continue use of an indwelling catheter ever shift, and if the patient does not meet criterial to maintain the urinary catheter, remove catheter promptly according to the Nurse-Driven Protocol for Assessment and Removal of Unnecessary Urethral Urinary Catheters (see protocol - ASSESSMENT AND REMOVAL OF UNNECESSARY URINARY CATHETERS NUR- HS 174)







BLADDER BUNDLE

- A- Aseptic insertion and proper maintenance is paramount.
- B- Bladder ultrasound may avoid indwelling catheterization.
- C- Condom or intermittent catheterization in appropriate patients.
- D- Do not use the indwelling catheter unless you must!
- E- Early removal of the catheter using reminders or stop orders appears warranted

For further information please see:

• The <u>Society of Urological Nurses and Associates (SUNA)</u> clinical practice guideline, "Care of the Patient with an Indwelling Catheter".

NUR-HS174

Association for Professionals in Infection Control and Epidemiology



How Can You Help?

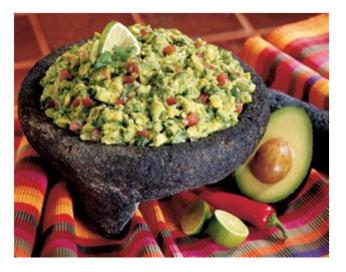
- <u>Raise awareness in your unit</u>
- Post information about the policy in the bathrooms and on your huddle board
- Share the information over an email to your unit
- Announce the new protocol on a day that you are working to everyone in the huddle (both 7am and 7pm if possible)
- Communicate with your CNS if you find opportunities for ongoing improvement



What's next...



Take out the foley and pass the guacamole!!!



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