Preventing Hospital-Acquired UTI's:

"Can we take it out now?"

"Okay, how about now?"

Factors Contributing to Development of Hospital-Acquired UTI's

- Overutilization of catheters in general
- Underutilization of silver nitrate catheters vs. regular latex catheters
- > Inadequate patient peri-care
- > Inadequate caregiver handwashing
- > Unsanitary bag-emptying technique

About UTIs

- Have become an expected outcome in catheterized patients
- Most frequent cause of sepsis
- > 2%-4% of UTIs progress to bacteremia
- Mortality of patients with bacteriuria is nearly 3x higher than for non-bacteriuric patients
- > 2%-3% of acute care admissions will be impacted by UTI

So, what's the big deal?

- > All patients get them sometime or other
- > UTI's respond to antibiotics, right?
- We—I mean, the patient needs the catheter!

The Big Deal:

- > Pyelonephritis
- > Urosepsis
- > Increased mortality
- As of mid-2008, Medicare will no longer reimburse if there is a nosocomial UTI; DRMC pays the whole bill!
- ▶ Present on Admission (POA)

Consequences of UTIs

- > Pain and discomfort
- > Acute renal failure
- > Death (<1%)
- > Prolonged hospitalization
- > Additional exposure to antibiotics
- > Additional Hospital expenditures

The Focus of our Efforts:

- > Reduce number of catheterizations
- > Reduce catheter indwelling time
- Reduce flow of pathogens from bedside bag back into bladder
- Reduce pathogens introduced by careless technique
- > Increase effective peri care
- Addition to physician rounds reports for notification of "how many days" the foley has been in





Reduce Number of Catheterizations

- > Question the need for catheter
- > Added to meditech screen
 - Necessity of foley catheter
 - How many days the foley has been in
- If catheterization is necessary, consider silver-impregnated catheter

Indications for Indwelling Catheter

- Need for hourly monitoring, especially in cardiac/CHF and renal patients, as determined by the doctor
- Patient is in immediate post-op (24-48hr) period
- > Patient requires large-dose diuretics
- Patient requires use of paralytics, IV sedation and/or analgesics

Indications for Indwelling Catheter

- Terminally ill patient requires cath as comfort care measure
- Patient requires cath to manage bladder outlet obstruction or incontinence, at patient request
- Incontinent patient with perineal/sacral skin breakdown

Folks who don't need silverimpregnated catheters:

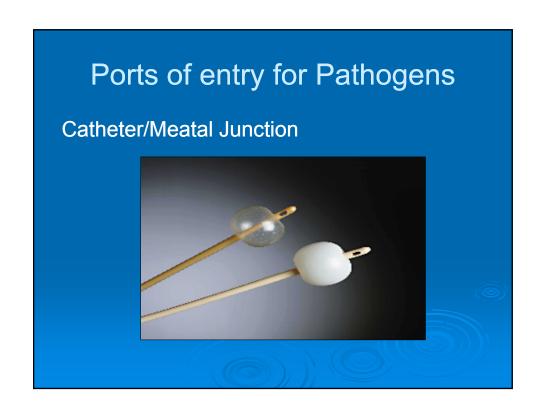
- Outpatients
- > Patients who come pre-Foley'ed
- Patients with evidence of communityacquired UTI
- Patients undergoing urological procedures/patients with 3-way Foleys
- > OB patients
- Any patient whose catheterization will be of short duration

Reduce Catheter Indwelling Time

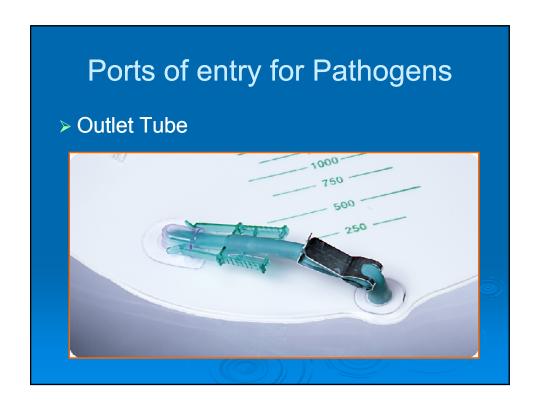
- ➤ The number one modifiable risk factor for catheter-induced UTI is length of time > 6 days source: CDC.gov
- Always be asking, "Can we take it out now?"

Reduce Pathogen Backflow

- Always keep collection bag below level of bladder
- Use catheter stabilization device to eliminate tension and "catheter migration"
- If bag must be elevated, clamp off tubing first







Improve Technique

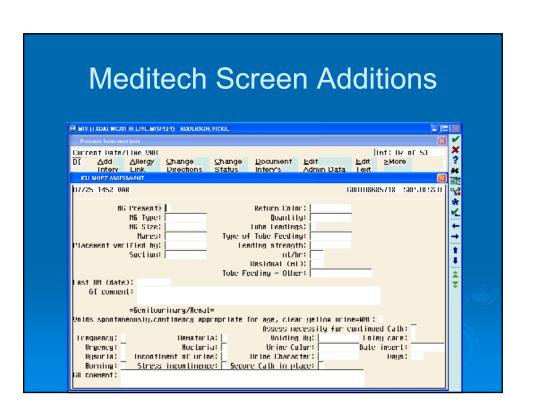
- Good handwashing/use of alcohol-based hand antiseptic and gloves
- Aseptic insertion technique—use drape and all five cotton balls!
- Minimal, if any, interruption of urine path do not separate catheter and tubing if not absolutely necessary

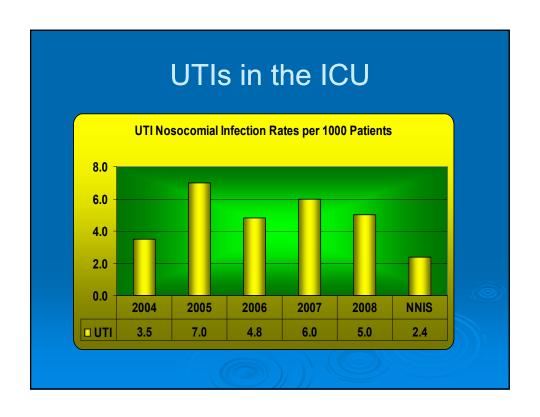
Bedside Bag Technique

- Treat drain like it's connected directly to the patient—it is
- Good handwashing, gloves, aseptic technique
- Drain bag only when necessary, and dispose of container afterward
- Do not use same measuring container for >1 patient

General Precautions

- Use catheters only when justified; not for incontinence
- > Remove the catheter as soon as possible
- Encourage fluids





Conclusions

- > Catheter related UTIs are important
- Catheter related UTIs have serious consequences
- > Actions can be taken to reduce UTIs
- > So can we take it out now?