# Leveraging the EHR to Decrease UCx

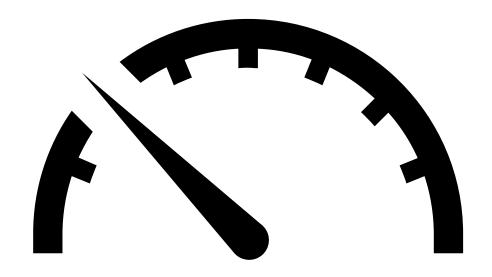
Acknowledgements:

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**UW Medicine AMS Team** 

But first, a quick story to remind us how important this is



# Overtreatment of Asymptomatic Bacteriuria

Overwhelmed by all that we needed to do – education, diagnostic stewardship, antibiotic decision-making, case-review, feedback

#### The problem is upstream!

Developed standard recommendations for when to do urine culture & built an order-panel to help with very basic clinical decision support

#### Urine Culture Panel

#### **SELECT ONE** of the following indications:

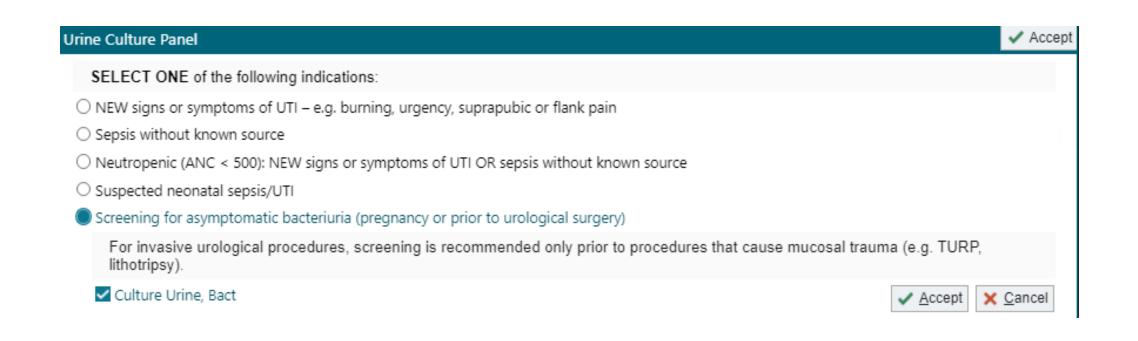
NEW signs or symptoms of UTI – e.g. burning, urgency, suprapubic or flank pain

#### General Guidelines:

- 1. NOT a symptom of UTI: cloudy, high sediment, or malodorous urine
- NOT a symptom of UTI: altered mental status alone without urinary symptoms or sepsis
- 3. UTI symptoms in patients with neurologic or spinal cord injury may be atypical
- 4. CAUTION in catheterized patients: urinary symptoms may be due to catheter and colonization is common

#### ✓ Urinalysis with Reflex Culture

Once, today at 1018, For 1 occurrence Release Result to Patient: Immediate



# SELECT ONE of the following indications: ○ NEW signs or symptoms of UTI – e.g. burning, urgency, suprapubic or flank pain ○ Sepsis without known source ○ Neutropenic (ANC < 500): NEW signs or symptoms of UTI OR sepsis without known source ○ Suspected neonatal sepsis/UTI ○ Screening for asymptomatic bacteriuria (pregnancy or prior to urological surgery) ● Unexplained persistent fever or leukocytosis CAUTION in catheterized patients: colonization is common

Once, today at 2251, For 1 occurrence Release Result to Patient: Immediate

### The intervention



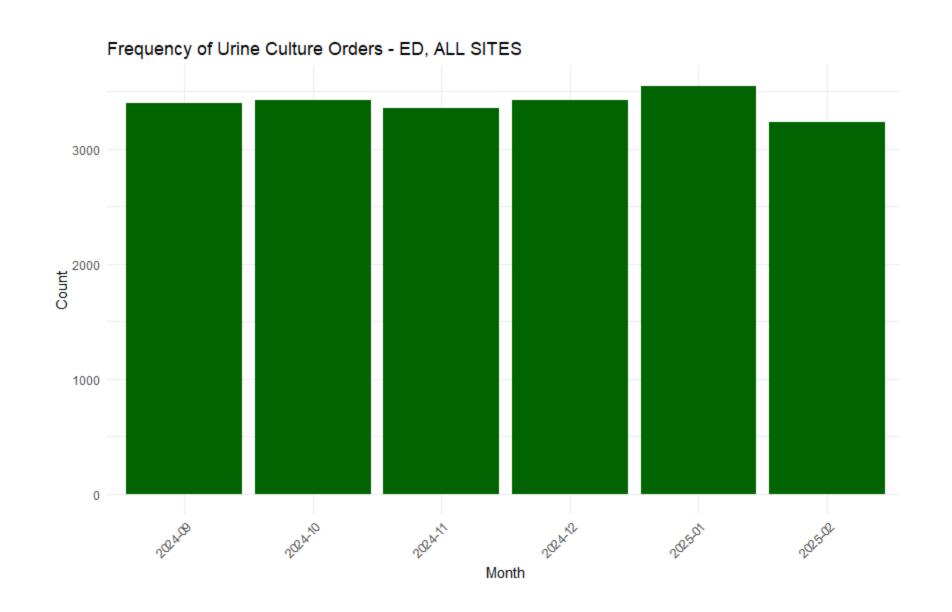


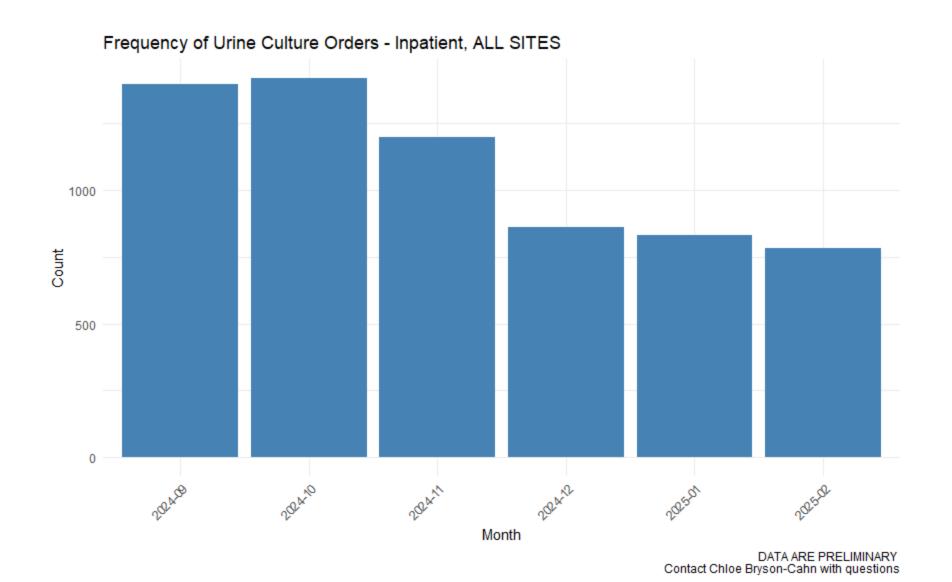
ON NOV 19, 2024 – ALL AD HOC INPATIENT URINE CULTURE ORDERS COULD ONLY BE PLACED THROUGH THIS PANEL

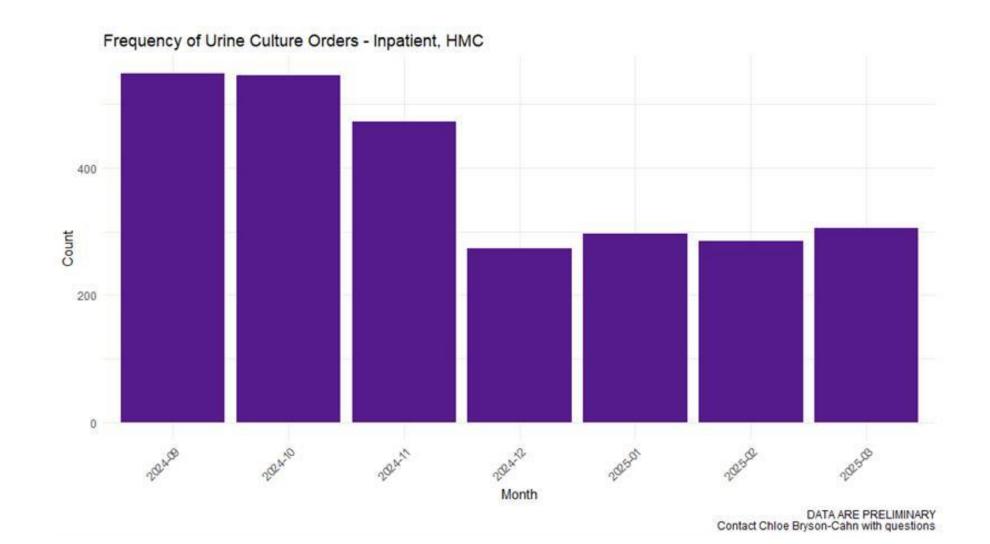
DID NOT IMPACT ORDER-SETS, ED, OUTPATIENT

## Now, for the data

- This is total counts of culture orders, not cultures actually done.
   Includes Urine culture & UA with reflex
- Includes cancelled orders, duplicates
- Absolute counts (no denominators)







# Other Outputs

- CAUTIs at HMC are down
  - As are the number of cases our IP reviews each month
- Antibiotic use for UTI this one is tough, we are working on it!
- One complaint about our order-panel (needed to add a synonym for ua reflex!)

• Did our lab notice a decrease in urine test volume? Nope! Inpatient is a small fraction of our total urine testing.

# Takeaways

- Standardize it
- Embed it
- Make it easy (and if possible, impossible to circumvent)
- Measure it