

September 15, 2022

IQIC 101 Open House

Agenda:

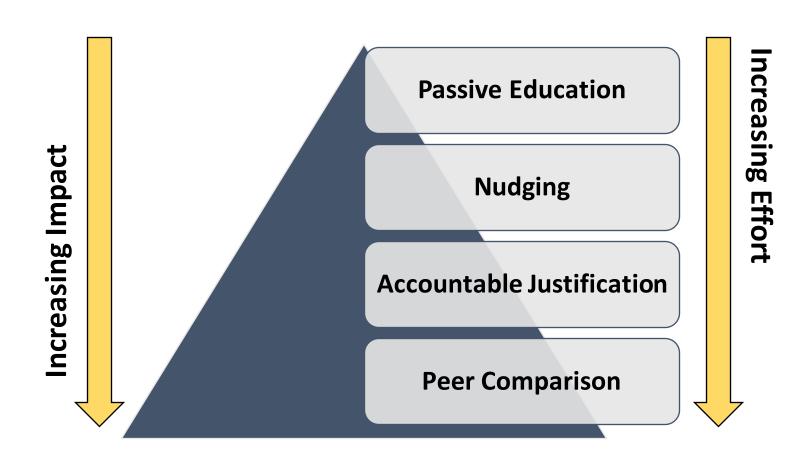
- Overview of Project and Application to Asymptomatic Bacteriuria
- Open Discussion

The Goal of this Cohort

To locally adapt antimicrobial stewardship strategies and optimize patient care

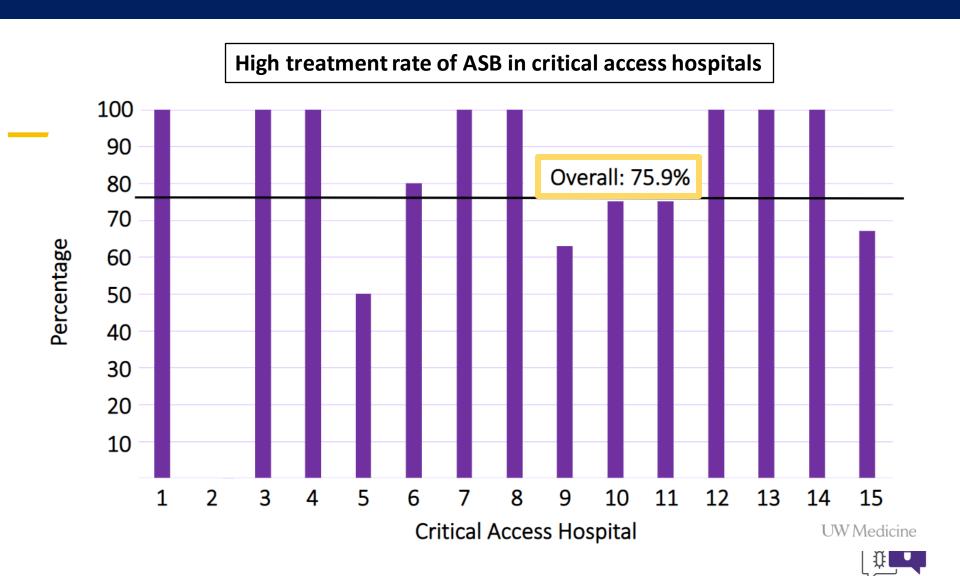


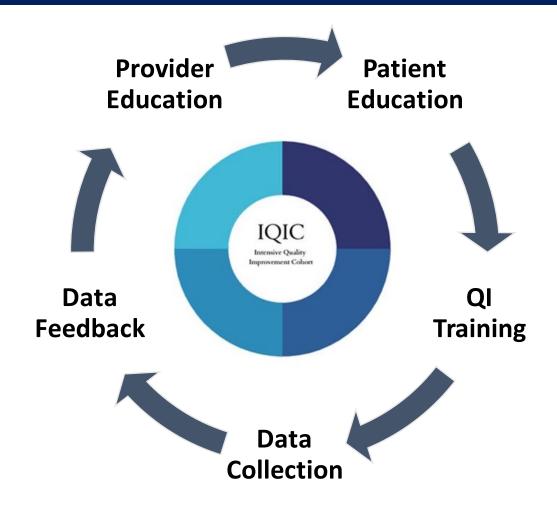
Behavorial Interventions Reduce Inappropriate Antimicrobial Prescribing





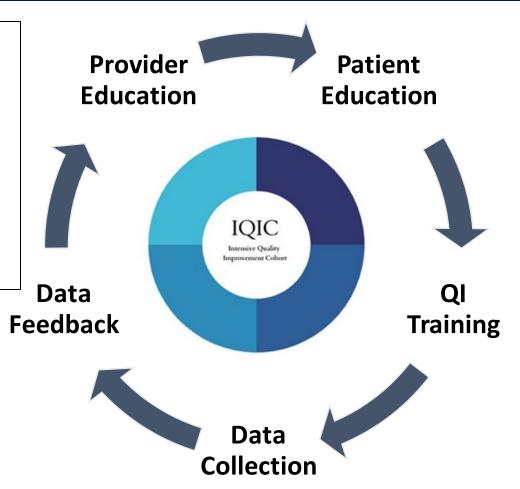
Why asymptomatic bacteriuria?







- Monthly didactics
- Distribute educational tools
 - Nursing huddles
 - Medical staff meetings
 - ED workgroup meetings
 - AMS meetings





Amazing Lineup for Monthly Didactics!

Involving both clinical and quality improvement education

Session Topic Examples

- Behavior Change and Productive Conversations
- ☐ SMART Goals
- Reflexing UAs to Urine Culture: a Pro-Con Debate
- Deeper Dive into ASB cases
- Antibiotic Harms
- Project Management Fundamentals and

Tools for Success

Various Speakers:

Chloe Bryson-Cahn, MD

Alyssa Castillo, MD

Jeannie Chan, PharmD

Whitney Hartlage, PharmD

Zahra Kassamali Escobar, PharmD

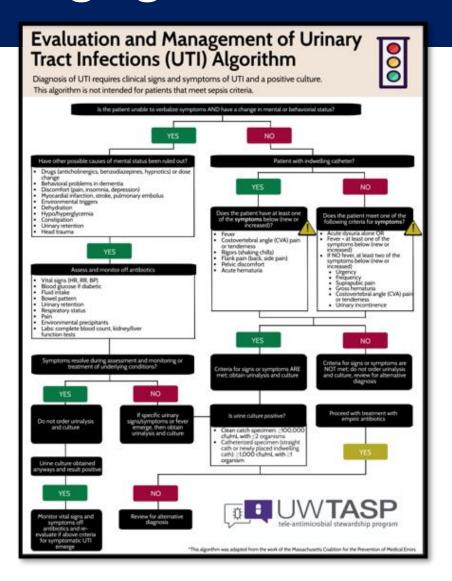
John Lynch, MD

Natalia Martinez-Paz, MA, MPA

YOU ALL!



Nudging: Provider Education



Treating Asymptomatic Bacteriuria

Frequently Asked Questions



How prevalent is asymptomatic bacteriuria?

 In seniors over 80 years, it can be seen in as many as 50% of long-term care patients and as many as 19% of those in the community



How should a positive urine test be approached when collected for no apparent reason?

- · Treatment decisions should not be made based on test results alone
- Evaluate the patient clinically and consider a period of observation for development of specific signs or symptoms of UTI prior to the initiation of antibiotics





- Positive urine culture and abnormal urinalysis in a patient without symptoms is consistent with asymptomatic bacteriuria, which would be considered colonization and not a true infection
- · Treatment with antibiotics is not indicated



Does a patient with a chronic indwelling catheter that has a positive urine culture require antibiotics?

- · A chronic indwelling catheter is commonly associated with bacteriuria
- · There is no need to treat unless the patient has specific symptoms of UTI

If an elderly patient presents with no specific symptoms except a change in mental status or delirium, should UTI treatment be initiated?



- . UTI is much less likely without specific urinary symptoms or sepsis symptoms
- Non-specific symptoms, such as a change in mental status, delirium, fatigue, or a fall may be due to a variety of non-infectious causes, including: pain, depression, constipation, dehydration, poor sleep, or medication side effects

What should be done when a patient's family wants a urine test and antibiotic treatment in the setting of asymptomatic bacteriuria?

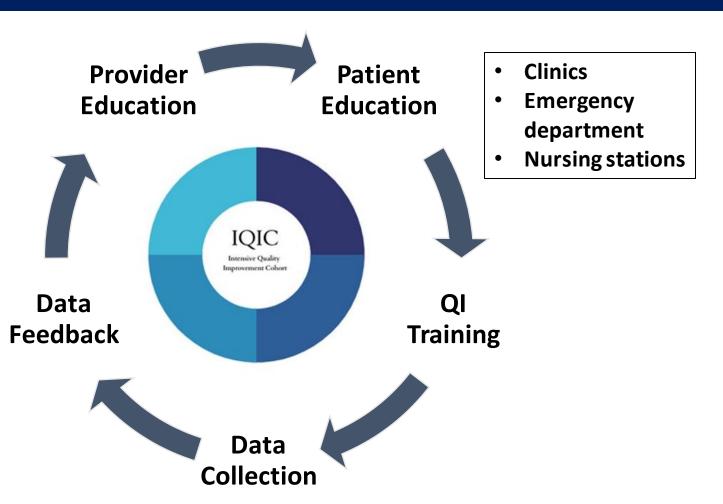


- Educate the family about the prevalence of asymptomatic bacteriuria, and tell them you do not suspect UTI on clinical grounds
- Emphasize the dangers of antibiotic overuse, such as resistance and side effects
- Antibiotics have not been shown to provide any benefit in asymptomatic bacteriuria, and thus antibiotics cause only risk with no benefit



*This handout was adapted from the work of the Massachusetts Coalition for the Prevention of Medical Errors

- Monthly didactics
- Distribute educational tools
 - Nursing huddles
 - Medical staff meetings
 - ED workgroup meetings
 - AMS meetings





Passive Education: Patient Education

Did You Know That...

Bacteria in the urine is common! As many as 15% of people aged 65-80 and 50% of people older than 80 years have bacteria in their urine, without actually have a UTI.

How is a urinary tract infection diagnosed?

Requires both findings of bacteria in a urine test and the presence of specific symptoms.







Having both is important, because bacteria can and do live naturally in the bladder without causing any pain or symptoms. This is commonly referred to as asymptomatic

If you or someone you know is concerned about a UTI, see if any specific symptoms are



A burning feeling, discomfort or pain with urination



Pain the the lower abdomen or



Increase in frequency (needing to urinate more often than usual).



Repeated strong urges to urinate



Blood in the urine

These symptoms may or may not be accompanied by fever.

What about other symptoms, such as confusion or sudden change in behavior?

UTI is less likely without the specific symptoms previously listed.

Non-specific symptoms such as confusion, a sudden change in behavior, fatigue, or a fall may be caused by other factors, including:

- Dehydration
- · Medication side effects
- Depression
- · Poorsleep
- · Inadequate nutrition · Constipation



- · Cause rashes or allergic reactions
- · Harm your kidneys or other organs

Antibiotic Resistance

- · The overuse of antibiotics has contributed to an increase in the ability of the bacteria to resist the effect of antibiotics
- · When resistance occurs, there may be fewer good antibiotic options to treat future infections

Understanding the risks of using antibiotics when not needed leads to good, safe care.

What You Can Do to Help

Whenever you are prescribed antibiotics, make sure you understand why you need them.

Here are some questions for you or your loved one to ask your doctor:

- Why do I need antibiotics?
- · What are common side effects?
- · When should I stop the medication?
- . What I do if I do not feel better in a few days?

Other Resources For You: https://www.cdc.gov/antibiotic-use/uti.html



Worried About a Urinary Tract Infection?

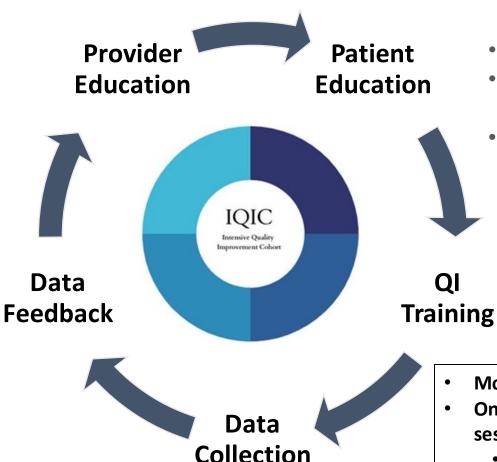


Learn about when an antibiotic is and is not needed.





- Monthly didactics
- Distribute educational tools
 - Nursing huddles
 - Medical staff meetings
 - ED workgroup meetings
 - AMS meetings



- Clinics
- Emergency department
- Nursing stations

- Monthly didactics
- One-on-one coaching sessions (30 min)
 - SMART goal creation and record progress in PDSA cycle

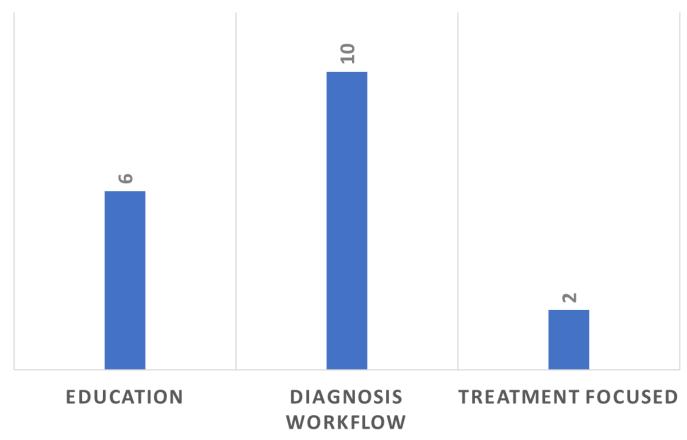
One-on-One Meeting Topics

Data collection Hospital SMART goals demographics abilities Tracking Barriers Hospital needs progress in PDSA cycle Next steps in Other project



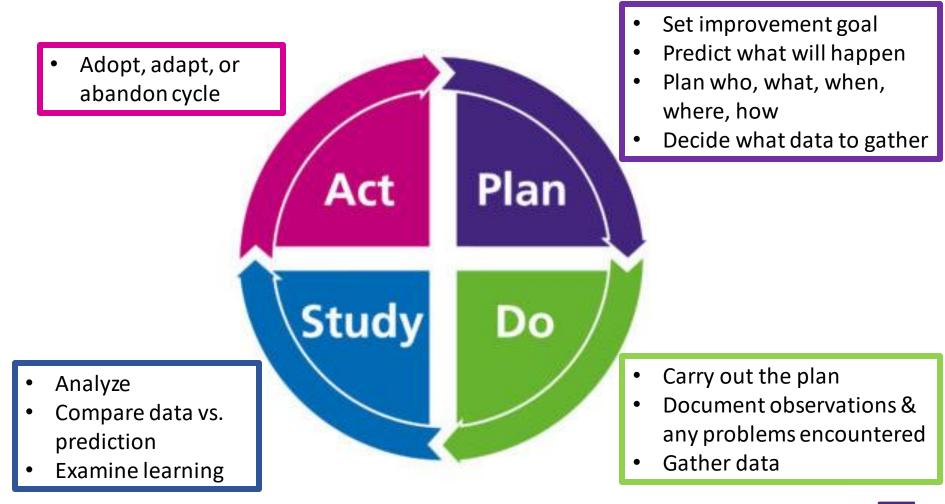
SMART Goals Vary & Are Institution Specific

SMART goal examples from 2021-2022 IQIC group



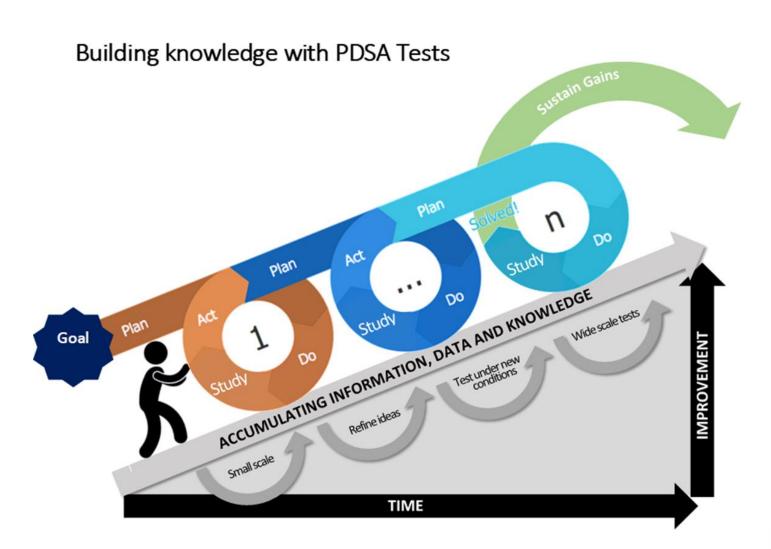


Tracking Impact on Website: PDSA



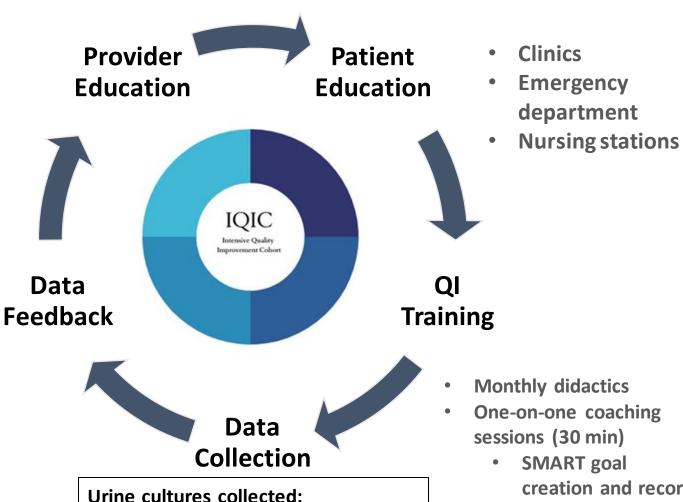


PDSAs are a Process





- Monthly didactics
- Distribute educational tools
 - **Nursing** huddles
 - Medical staff meetings
 - **ED** workgroup meetings
 - **AMS** meetings



Emergency department***

Inpatient

- One-on-one coaching sessions (30 min)
 - **SMART** goal creation and record progress in PDSA cycle

Data Collection Results Will Help Identify Opportunities for Future Stewardship Interventions

Data Phase	Case Goal	Progress Goal	Start Date	Last Submission Date
Baseline	≥15 cases	1-2 cases/week <u>or</u> 5 cases/month	10/1/2022	12/31/2022
Intervention	>25 cases	1-2 cases/week <u>or</u> 5 cases/month	1/1/2023	5/31/2023
Post- intervention	*This data phase is <u>optional</u>		10/1/2023	



- Monthly didactics
- Distribute educational tools
 - Nursing huddles
 - Medical staff meetings
 - ED workgroup meetings
 - AMS meetings



- Clinics
- Emergency department
- Nursing stations



Analyze data → provide results and feedback to hospital staff

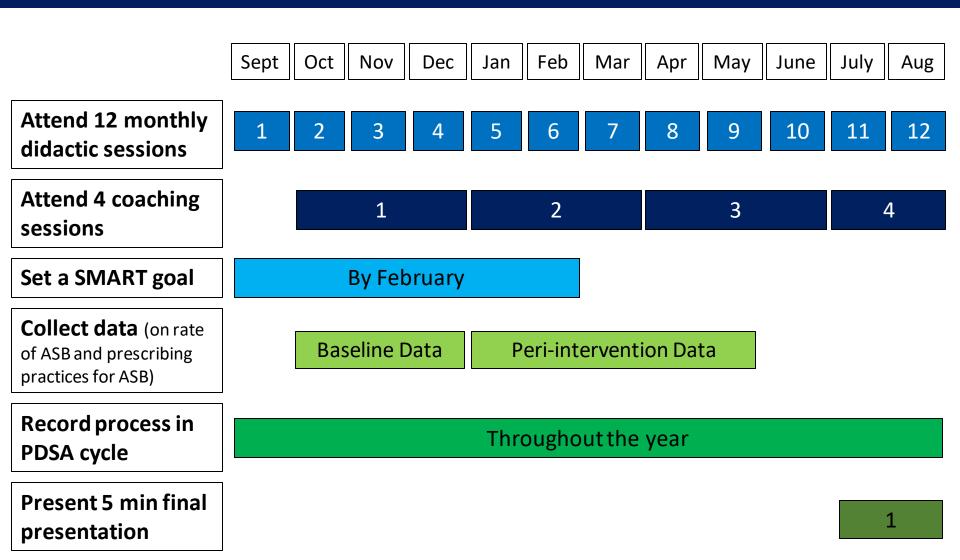


Urine cultures collected:

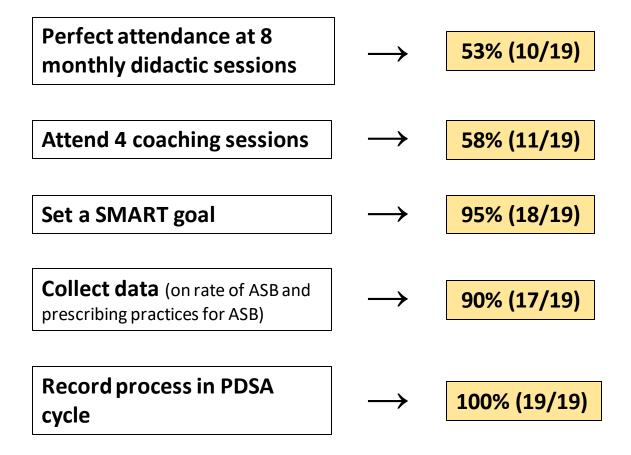
- Inpatient
- Emergency department***

- Monthly didactics
- One-on-one coaching sessions (30 min)
 - SMART goal creation and record progress in PDSA cycle

Summarized Expectations & Deliverables



Feasibility based on 2021-2022 cohort



Thank you!

First session: Thursday, September 29 at 12:00 pm PST

Questions?

whithart@uw.edu

