The Importance of Multi-disciplinary Collaboration to Prevent and Manage Urinary Tract Infections



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Swati Gaur, MD, MBA, CMD, AGSF Medical Director of the Year 2022

ASSOCIATE CHIEF MEDICAL OFFICER, RAINMAKERS SOLUTIONS MEDICAL DIRECTOR, ALLIANT HEALTH SOLUTIONS SENIOR MEDICAL DIRECTOR, POST-ACUTE CARE, NORTHEAST GEORGIA MEDICAL CENTER

- Past chair of an Infection Advisory Committee during the COVID-19 pandemic
- Created and issued guidance to a COVID-19 task force
- National and international speaker on infection prevention and control issues in nursing homes
- Board certified in internal medicine, geriatrics, and hospice and
- palliative medicine
- Masters in business administration from Georgia Institute of Technology



Erica Umeakunne, MSN, MPH, APRN, CIC

INFECTION PREVENTION SPECIALIST

Erica is an adult gerontology nurse practitioner and infection preventionist with experience in primary care, critical care, health care administration and public health.

She was previously the interim hospital epidemiology director for a large Atlanta health care system and a nurse consultant in the Centers for Disease Control and Prevention's (CDC) Division of Healthcare Quality Promotion. At the CDC, she served as an infection prevention and control (IPC) subject matter expert for domestic and international IPC initiatives and emergency responses, including Ebola outbreaks and, most recently, the COVID-19 pandemic.

Erica enjoys reading, traveling, family time and outdoor activities.

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Objectives

- Highlight the importance of multi-disciplinary collaboration between the infection preventionist (IP) and the medical director.
- Discuss the medical director's role in UTI quality improvement initiatives.
- Review protocols and procedures medical directors and IPs can implement to prevent and manage UTIs.
- Share resources to support nursing facility infection prevention and control programs.



IPC Program: Collaborative Roles of IP & MD



- Promote a culture of safety and impact the health of patients, workers, staff and community members
- Conduct surveillance using standardized methodologies for case identification, data collection, and reporting
- Prepare reports and presentations for committees
- Investigate outbreaks and implement IPC interventions
- Plan and conduct education programs
- Develop and review policies and procedures and monitor their use to support optimal staff compliance
- Ensure compliance with regulatory standards



- Promote a culture of safety and impact the health of patients, workers, staff and community members
- Resident and clinical staff training and education
- Incorporating IPC into clinical routines
- Develop policies and protocols to support daily decision making
- Support IPC priorities, data collection, reporting
- Review HAI reports and trends
- Align IPC and antimicrobial stewardship with clinical practices
- Expert clinical and infectious disease consultation



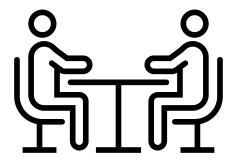
UTI Quality Improvement: Multi-Disciplinary Collaboration With Clinical Leadership

A strong Medical Director is essential to successful infection prevention and antimicrobial stewardship:

- Improves access to and relationships with doctors, nurse practitioners, and physician assistants to ensure appropriate antibiotic use, especially for UTIs
- Helps empower prescribers and team
- Facilitates ongoing communication
- Progresses your UTI-related quality initiatives

Tips for engaging medical directors and clinicians:

- Review case studies and perform GAP and root cause analyses on UTIs
- Make room for the MD and other clinicians at committee meetings
 - They offer invaluable perspectives
 - Clinician input critical for successful IPC interventions
 - "We need your help with..."





Case Study



Case Study

Mrs. A is an 80-year-old frail woman with dementia, adult failure to thrive, uncontrolled type II diabetes, nephropathy, and hypertension. She is a long-term care resident.

Over the last 3 days, the nurse reports resident is constantly pushing the call light for assistance to the bathroom, which is new compliant for Mrs. A. On further questioning, she does not report burning and discomfort when urinating. Vitals are WNL. No suprapubic pain or CVA tenderness noted.

What would you do?

- A. Start empiric antibiotics immediately
- B. Request a UA and reflex culture
- C. Start resident on active monitoring (surveillance) protocol



Case

What would you do?

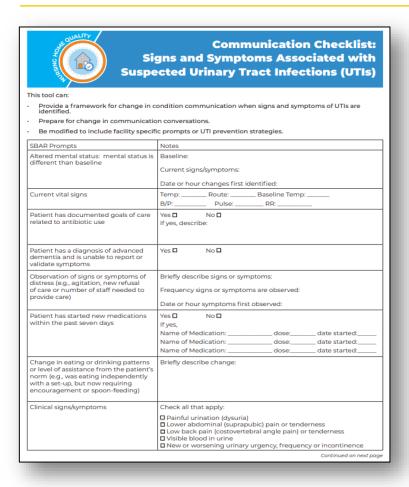
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Infection Preventionist/Medical Director Collaboration

- Training and education related to urine culture stewardship, UTI s/s, and documentation and communication of UTIs for clinical and bedside staff
- Implement tool to facilitate timely change in condition communication
- Development of an active monitoring (surveillance) protocol



SBAR Communication Checklist: Suspected UTIs



Patient has history of urinary symptoms and urinary tract infections	Ves D No D If yes, Date of most recent episode: Number of episodes in last x months: What did the prior culture grow? What did the susceptibilities show?
Patient has history of MDROs	Yes No If yes, Date of most recent treatment: Organism:
Patient is currently receiving dialysis	Yes □ No □ If yes, type: □ Hemodialysis □ Peritoneal Does the patient have any urine output? Yes □ No □
Patient has an indwelling catheter? How often changed? Diagnoses? Due for change?	Yes D No Diagnosis for indwelling catheter: Date of most recent catheter change:
Request initiation of facility hydration protocol. (e.g., encouragefluids x HRS and monitor for a change. Send a urine specimen if change in baseline temp over 2.0 degrees or change in urine)	
Request order to send urine specimen via straight catheterization or clean catch	
If antibiotic ordered, request a review of antibiotic order when microbiology specimen results are ready (e.g., three days from order date)	
Resources: AHRQ Suspected UTI SBAR Toolkit :	
https://www.ahrq.gov/nhguide/toolkits/deter interact® 4.5 Symptoms of UTI Care Path: https://pathway-interact.com/tools/	mine-whether-to-treat/toolkitl-suspected-uti-sbar.html
SBAR Tool: Guidelines + Worksheet: http://forms.ihi.org/tools/sbar-toolkit?utm_re	ferrer=http%3A%2F%2Fwww.ihi.org%2F
This material was prepared by Alliant Health Solutions, a Quality Innovation N Organization (DN – QiD) under contact with the Cantest for Medicare Solution of the Cantest for Medicare All Cantest Cantest (Cantest Cantest Cantes	L Medicaid Services (CMS), an pressed in this material do not to a specific product or entity HEALTH SOLUTIONS

- Provides a framework for change in condition communication when signs/symptoms of UTI identified
- Helps nursing home staff and prescribing clinicians communicate about suspected UTIs and facilitates appropriate antibiotic prescribing
- Agency for Healthcare Research
 Quality (AHRQ Toolkit) includes:
 - Suspected UTI SBAR form
 - A clinician letter
 - Not All "Infections" Need Antibiotics
 - Urinalysis and UTIs: Improving Care

https://quality.allianthealth.org/wp-content/uploads/2021/10/Communication-Checklist_Signs-and-Symptoms-Associated-with-Susptected-Urinary-Tract-Infections-UTIs.pdf



Active Monitoring for UTI

- May be indicated for residents who do not meet clinical criteria for UTI (and do not have warning signs) but for whom clinical concern for UTI still exist
- Also known as "watchful waiting" or "careful observation"
 - Frequent monitoring of vital signs
 - Paying attention to hydration status (e.g., Recording fluid intake, stimulating fluid intake)
 - Repeated physical assessments by nursing home staff
- Supportive care, including hydration, offered in the meantime may resolve the clinical concerns and obviate the need for antibiotics
- Physician/NP/PA should be notified if signs and symptoms worsen or do not resolve, if new signs and symptoms arise, or if fluid intake is less than a certain predefined amount

Active Monitoring Protocol Example

□ Obtain vital signs (BP, Pulse, Resp Rate, Temp, Pulse Ox) every hours for days.			
□ Record fluid intake each shift for days.			
□ Notify physician if fluid intake is less than cc daily.			
□ Offer resident ounces of water / juice every hours.			
□ Notify physician, NP, or PA if condition worsens, or if no improvement in hours.			
□ Obtain the following blood work			
□ Consult pharmacist to review medication regimen.			
□ Contact the physician, NP, PA with an update on the resident's condition on			

Ashraf, M. S., Gaur, S., Bushen, O. Y., Chopra, T., Chung, P., Clifford, K., ... & Medicine, L. T. C. (2020). Diagnosis, treatment, and prevention of urinary tract infections in post-acute and long-term care settings: A consensus statement from AMDA's Infection Advisory Subcommittee. *Journal of the American Medical Directors Association*, 21(1), 12-24.



Sepsis Screening & Monitoring

ACT FAST!

Early detection of SEPSIS requires fast action

If resident has suspected infection AND two or

- Temperature >100°F or <96.8°F
- Pulse >100
- . SBP <100 mmHg or >40 mmHg from baseline
- Respiratory rate >20/SpO2 <90%
- · Altered mental status

Plan for

- · Review advance directive
- · Contact the physician
- Contact the family

If transferring resident to hospital:

- Prepare transfer sheet
- Call ambulance
- · Call in report to hospital
- · Report positive sepsis screen

If resident stays in facility, consider options below that are in agreement with resident's advance

- Labs: CBC w/diff, lactate level (if able)
- UA/UC, blood cultures, as able from 2 sites, not from lines
- Establish IV access for IV 0.9% @ 30ml/kg
- Administer IV, PO or IM antibiotics
- Monitor for worsening in spite of treatment, such as:
 - Urine output <400ml in 24 hours
 - SBP <90 despite IV fluids
 - Altered mental status
- Altered mental statu
- Comfort care:
- Pain control
- Analgesic for fever
- · Reposition every 2-3 hrs
- Oral care every 2 hrs
- · Offer fluids every 2 hrs
- Keep family informed
- · Adjust care plan as needed
- Consider transferring to another level of care such as palliative care, hospice or hospital

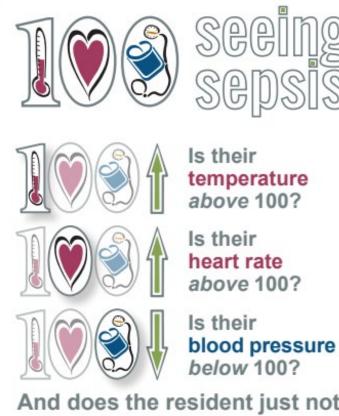
Every hour a resident in septic shock doesn't receive antibiotics, the risk of death increases 7.6%

Call the doctor!



screen for sepsis and notify

the physician immediately.



And does the resident just not look right? Tell the nurse, screen for sepsis and notify the physician immediately.



Active monitoring (surveillance) protocol was initiated, and Mrs. A subsequently developed a fever (101.5 F) and suprapubic discomfort within 24 hours. UA was positive and reflex culture was performed, which indicated pan-sensitive E. coli.

What should we do now?

- A. Start antibiotics according to the facility UTI treatment protocol
- B. Request another UA and reflex culture to ensure UTI diagnosis
- C. Restart resident on active monitoring (surveillance) protocol



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Suspected Urinary Tract Infection (UTI) in Long-Term Care Residents

Signs & Symptoms of a UTI

For Residents Without a Urinary Catheter

Dysuria

OR

☐ Fever (>100°F or >2°F above baseline)

AND at least one of the following symptoms that is new or worsening:

- Urgency
- Frequency
- Suprapubic pain
- Gross hematuria
- Costovertebral angle tenderness
- Urinary incontinence

For Residents With a Urinary Catheter or if Nonverbal

One or more of the following without another recognized cause:

- Fever (>100°F or a 2°F increase from baseline)
- New costovertebral angle tenderness
- Rigors
- □ New-onset delirium*
- *If adequate workup for other causes of delirium has been performed and no other cause for delirium is identified
- Send a urinalysis (UA) & urine culture (UCx)
- Increase hydration
- ☐ Start antibiotics before UA and UCx results, if resident appears ill
- If UA & UCx are positive and the resident has ongoing UTI symptoms, modify antibiotics or start antibiotics (if not receiving active antibiotics)



Loeb Minimum Criteria Checklist

Suspected Infection Syndrome	Minimum Criteria for Starting Antibio	tic Therapy		
Urinary tract infection				
without catheter	Either one of the following criteria			
	□ Acute dysuria, OR			
	□ Temp >37.9 °C (100 °F) or 1.5 °C (2.4 °F) above baseline, AND			
	≥1 of the following new or worsening symptoms			
	□ Urgency	□ Frequency		
	 Suprapubic pain 	□ Gross hematuria		
	 Urinary incontinence 	□ Costovertebral angle tenderness		
with catheter	At least one of the following criteria			
	□ Rigors	 Temp >37.9 °C (100 °F) or 1.5 °C (2.4 °F) above baseline 		
	□ New onset delirium	□ New costovertebral angle tenderness		
Note: Residents with intermittent catheteriz Urine culture should be sent prior to so Antibiotics should not be started for co	tarting antibiotics	egorized as 'without catheter'		

 $\frac{https://www.health.state.mn.us/diseases/antibioticresistance/hcp/ltcabxcard.pdf}{https://asap.nebraskamed.com/wp-content/uploads/sites/3/2017/07/Loeb-minimum-criteria-for-initiating-antibiotic-therapy-checklist.docx}$



Active monitoring (surveillance) protocol was initiated, and Mrs. A subsequently developed suprapubic discomfort within 24 hours. UA was positive and reflex culture was performed, which indicated pan-sensitive *E. coli*. Mrs. A was successfully treated with 5 days of nitrofurantoin per protocol.

After a retrospective chart review, the IP shared with the MD that the resident had 2 similar episodes of burning and discomfort in last months 8 months. One month later, Mrs. A now complains of the same symptoms of burning and discomfort. The nurse notified the medical director, and active monitoring protocol initiated. However, her symptoms did not improve. A urinalysis was ordered and is negative. **What should we do now?**

- A. Restart antibiotics
- B. Start local estrogen cream
- C. Refer to urology
- D. Obtain an abdominal X-ray



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After review of UTI surveillance data, the IP shared with the MD that the resident had 2 similar episodes of burning and discomfort in last months 8 months. One month later, Mrs. A now complains of the same symptoms of burning and discomfort. The nurse notified the medical director, and active monitoring protocol initiated. However, her symptoms did not improve. A urinalysis was ordered and is negative. What should we do now?

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Infection Preventionist Role	Medical Director Role
 Discuss HAI Surveillance Data with MD Identify trends in UTI cases or facility-wide data Ensure documentation aligns with rationale for UA order (urine culture stewardship) (i.e., dysuria vs. vaginal burning/itching) Educate staff about the relationship between atrophic vaginitis and recurrent UTI risk 	 Review HAI surveillance data with IP Review clinical documentation to ensure orders align with urine culture stewardship Treat the resident for atrophic vaginitis, which is known reduce vaginal irritation, discomfort, incontinence, and UTI risk in post-menopausal women

GU Tract

Acute Uncomplicated Cystitis in Women (with presence of symptoms)

Cephalexin 500 mg PO BID x 7 days

OR

Nitrofurantoin ER (Macrobid) 100 mg PO BID x 5 days

Sulfamethoxazole/Trimethoprim DS (800/160 mg) 1 tab PO BID x 7 days

Acute Complicated UTI/Pyelonephritis/Catheter-associated UTI/Prostatitis

(Prostatitis-Consider longer duration of therapy)

Ceftriaxone 1 gm IV every 24 hours x 10 days

OR

IF life-threatening penicillin allergy Ciprofloxacin 500 mg PO q 12h x 10 days

OR

IF life-threatening penicillin allergy
Sulfamethoxazole/Trimethoprim DS (800/160 mg) 1 tab PO BID x 10 days

IF history of resistant organisms in past 6 months Ertapenem 1 gm IM every 24 hours x 10 days

Drug expertise: Pharmacist Collaboration

Infection Preventionist Role

- Ensure access to antibiogram
- Urine culture stewardship
- Antimicrobial stewardship: Inquire about antibiotic use, duration, and indication if not appropriately documented; share related HAI surveillance data
- HAI Surveillance data: UTI rates, C. diff infections, Multidrug-resistant organism (MDRO) infections, etc.
- Educate nursing staff to ensure antibiotic use documented appropriately (dose, duration, and indication)

Medical Director Role

- Review facility antibiogram
- Consult with pharmacist to develop facilityspecific UTI treatment recommendations
- Require documentation of dose, duration, and indication for all antibiotic prescriptions
- Routinely review antibiotic therapies for appropriateness of administration and/or indication
- Urine culture stewardship

Collaborative Action: Make a Toolbox





of Antibiotics in Long-Term Care Residents

Suspected Urinary Tract Infection

NO indwelling catheter:

- Acute dysuria
- Fever (>37.9°C [100°F] or a 1.5°C [2.4°F] increase above baseline temperature) and at least one of the following:

New or worsening:

- Urgency
- Frequency
- Suprapubic pain
- Gross hematuria
- Costovertebral angle tenderness
- Urinary incontinence

WITH indwelling catheter (Foley or suprapubic):

- · At least one of the following:
- Fever (>37.9°C [100°F] or a 1.5°C [2.4°F] increase above baseline temperature)
- New costovertebral tenderness
- Rigors
- New onset of delirium

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Empiric ABX guidance & Documentation

Active monitoring protocol and sepsis screen

, Pulse, Resp Rate, Temp, Pulse Ox) every _____ h
each shift for _____ days.

fluid intake is less than _____ cc daily.

___ ounces of water / juice every _____ hours.

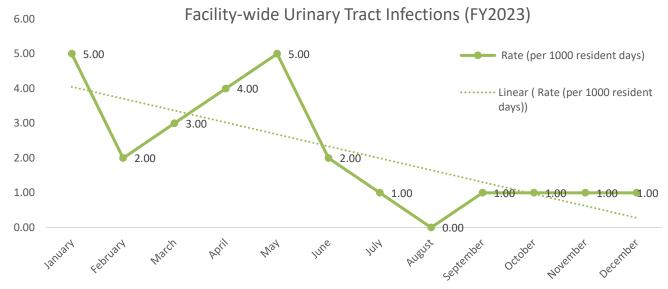
NP, or PA if condition worsens, or if no improvemen
ing blood work ____
st to review medication regimen.

cian, NP, PA with an update on the resident's condit



Track and Report

- Infection Prevention and Control Committee meeting
 - HAI surveillance Data
 - UTI rates
 - Indwelling urinary catheter utilization rates
 - MDROs rates
 - C. diff rates
- Antimicrobial stewardship meeting
 - Clinical pharmacist
 - Number of ABX starts
 - Number started inhouse
 - Average days of ABX
 - Number that met criteria
- Quality Assurance Performance Improvement (QAPI) meeting



Example of Individualized Feedback

<u>Metric</u>	<u>Facility</u>	Dr. A
Antibiotic prescription with dose, duration & indication	27 of 42 (64%)	8 of 8 (100%)
Urine culture ordered for residents indication of UTI	16 of 20 (80%)	2 of 4 (50%)
Bootson day ditassa d	Length of	Therapy
 Reviewed and discussed: Antibiotic Use Protocols Antibiotic Stewardship Policy Antibiotic Use 		
Dr. A, Sign and Date:	Facility	Dr. A
Medical Director, Sign and Date:	■1 to 7 days	■ 15 - 28 days
	□8 - 14 days	■>28 days



Education

Clinicians

- UTI signs/symptoms
- Sepsis signs/symptoms
- SBAR communication
- Antibiotic prescribing/stewardship best practices
- Clinical interventions to prevent UTIs
- IPC strategies to prevent UTIs (e.g., hand hygiene, pericare, cath management, cleaning and disinfection, etc.)

Nursing Staff

- UTI signs/symptoms
- Sepsis signs/symptoms
- •SBAR communication
- Antibiotic documentation
- IPC strategies to prevent UTIs (e.g., hand hygiene, pericare, cath management, cleaning and disinfection, etc.)

Resident & Families

- UTI signs/symptoms
- Appropriateness of antibiotics
- Sepsis signs/symptoms
- IPC practices (e.g., hand hygiene)



Mrs. A is an 80-year-old frail woman with dementia, adult failure to thrive, uncontrolled type II diabetes, nephropathy, hypertension. She is a long-term care resident.

Over the last 3 days, the nurse reports resident is constantly pushing the call light for assistance to the bathroom, which is new compliant for Mrs. A. On further questioning, she does not report burning and discomfort when urinating. Vitals are WNL. No suprapubic pain or CVA tenderness noted.

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Case Study Review



SBAR communication



- Active monitoring protocol
- Appropriate urine culture stewardship (testing when UTI s/s present)
- Antibiotic initiated per protocol and facility antibiogram
- UTI and antibiotic documentation appropriate



- P HAI surveillance review and attribution (using Revised McGeer Criteria)
- Clinical treatment initiated based on reported data and assessment
- Opportunity to improve assessment and documentation to support urine cx stewardship



Revised McGeer Criteria (Stone)

Used For Surveillance

(A) Clinical		
(Must satisfy one of the following scenarios)		
Either of the following:		
□ Acute dysuria or		
☐ Acute pain, swelling or tenderness of testes,		
epididymis or prostate		
2. If either FEVER or LEUKOCYTOSIS present need to		
include		
ONE or more of the following:		
☐ Acute costovertebral angle pain or tenderness		
□ Suprapubic pain		
□ Gross hematuria		
☐ New or marked increase in incontinence		
☐ New or marked increase in urgency		
□ New or marked increase frequency		
3. If neither FEVER or LEUKOCYTOSIS present INCLUDE		
TWO or more of the ABOVE (Box #2).		

(B) lab (at least one of the following must be met)

- 1. Voided specimen: positive urine culture (> 10⁵ cfu/ml) no more than 2 organisms
- 2. Straight catheter specimen: positive urine culture (> 10² cfu/ml) any number of organisms

Loeb Minimum Criteria

Used For Clinical Decision

(A) Clinical (Must satisfy one of the following scenarios)		
1. Acute dysuria		
2. FEVER (Temp >37.9 °C (100 °F) or 1.5 °C (2.4 °F) above		
baseline) plus ONE or more of the following:		
☐ New or worsening urgency		
☐ New or worsening frequency		
□ Suprapubic pain		
☐ Gross hematuria		
☐ Costovertebral angle tenderness		
☐ Urinary incontinence		

Stone N. Infect Control Hosp Epidemiol. 2012;33(10):965-77 Loeb M. Infect Control Hosp Epidemiol. 2001;22(2):120-4.

<u>Approaches to Prevent & Manage UTIS in Nursing</u>
<u>Facilities: Antimicrobial Stewardship Webinar</u>



Thank You for Your Time!

Contact the AHS Patient Safety Team

patientsafety@allianthealth.org

https://quality.allianthealth.org/topic/infection-control/



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Alliant Health Solutions



AlliantQIO

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