

INSTRUCTION FOR CONTACT HOUR

- Your display name **MUST** match your evaluation name for CEU credit. If it does not, type your name and facility in the chat.
- Enjoy the entire program.
- Complete the post-evaluation by **September 27, 2024, 5:00 PM** (available on the last slide)
- Certificate will be emailed to you by October 15, 2024

Welcome

BEFORE WE BEGIN, ANSWER IN THE CHAT:

What is your favorite fall flavor?



San Diego Skilled Nursing Facility Infection Prevention Collaborative

Grow - Collaborate - Succeed



Coordinated by the County of San Diego
Healthcare-Associated Infections (HAI) Program

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Reminders



Recording is on!



PHS.HAI.HHSA@ sdcounty.ca.gov



Keep your lines muted



Participate in the polls and chat



Use the chat box for questions



Slides will be emailed



Type into the chat your:

- Name
- Title
- Facility

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Land Acknowledgement



Public Health Services would like to begin by acknowledging the Indigenous Peoples of all the lands that we are on today. While we are meeting on a virtual platform, I would like to take a moment to acknowledge the importance of the lands, which we each call home. We respectfully acknowledge that we are on the traditional territory of the Kumeyaay. We offer our gratitude to the First Nations for their care for, and teachings about, our earth and our relations. May we honor those teachings.

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Agenda



Welcome

General Updates

Announcements

Featured Topic: "The IP's Role in Preventing Antimicrobial Resistance"

Next Collaborative

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SNF IP
Email List



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OCTOBER 13-19, 2024

INTERNATIONAL INFECTION PREVENTION WEEK

Moving the Needle on Infection Prevention



CAHAN Alerts



To: CAHAN San Diego Participants
Date: September 9, 2024
From: Public Health Services

Health Advisory: Detection of Highly Pathogenic Avian Influenza (HPAI) A(H5N1) in California dairy cattle

Key Messages

- Avian influenza A(H5N1) has been confirmed in cows at three California dairies located in the Central Valley.
- Healthcare providers should consider avian influenza A(H5N1) in persons with acute respiratory symptoms and/or conjunctivitis and recent exposure to animals suspected or confirmed to have avian influenza.
- Healthcare providers and clinical laboratories should immediately report cases of known or suspected avian influenza (H5N1) to the County Epidemiology Unit by calling 619-692-8499 (Monday-Friday 8 AM-5 PM) or 858-565-5255 (after hours and holidays).

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CAHAN Alerts

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To: CAHAN San Diego Participants

Date: September 13, 2024

From: Public Health Services

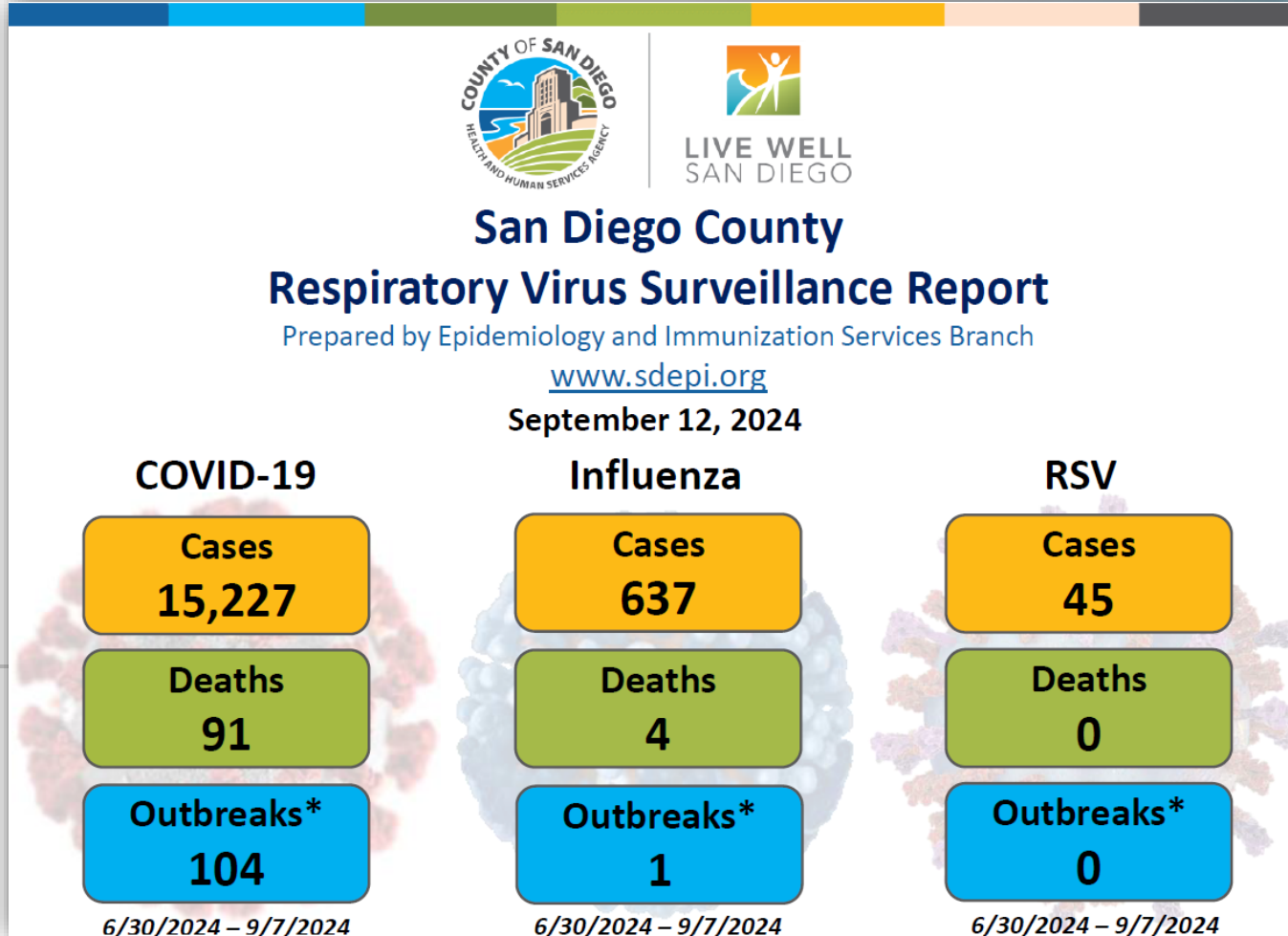
Health Advisory: Cross-border pollution in the Tijuana River Valley and potential health effects

Key Messages

- Higher than usual levels of hydrogen sulfide gas have been reported in the vicinity of Tijuana River Valley likely due to increased sewage flows in the Tijuana River and exacerbated during the recent heat wave.
- Hydrogen sulfide emits a strong, foul, “rotten egg” odor and some exposed persons may develop short-term symptoms such as headaches and irritation in the eyes, nose, throat, and lungs.
- Hydrogen cyanide gas has also been reported at very low levels and detection of hydrogen cyanide may be the result of hydrogen sulfide cross sensitivity when using certain types of sensors.
- Use of air purifiers and odor controlling filters in air conditioning/HVAC systems may provide relief and conducting outdoor activities indoors when odors are particularly bothersome.
- Healthcare providers are encouraged to share:
 - The [South Region Illness Concerns webpage](#) with the patients where information on sewage safety and dealing with odors are available.
 - The San Diego Air Pollution Control District (APCD) [complaint map](#), so sensitive patients can avoid areas with a high volume of odor complaints.



Respiratory Virus Update



*In residential congregate settings

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Respiratory Virus Update

Figure 1.1. San Diego County COVID-19 Confirmed and Probable Cases (N=15,227)

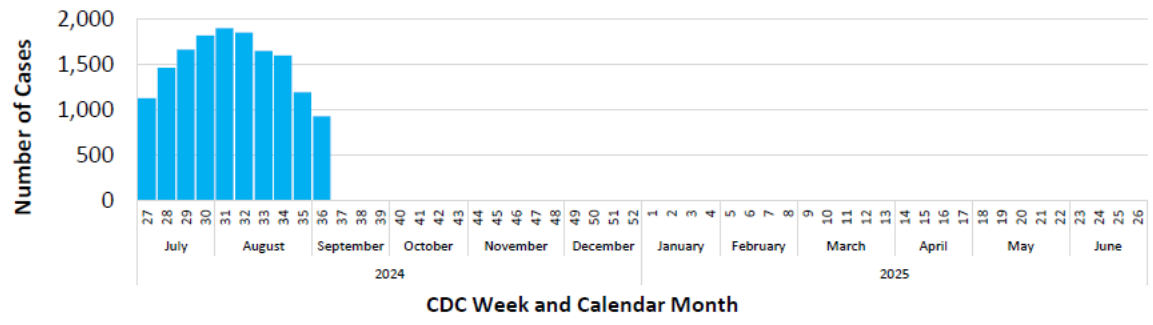


Figure 1.2. San Diego County Influenza Cases (N=637)

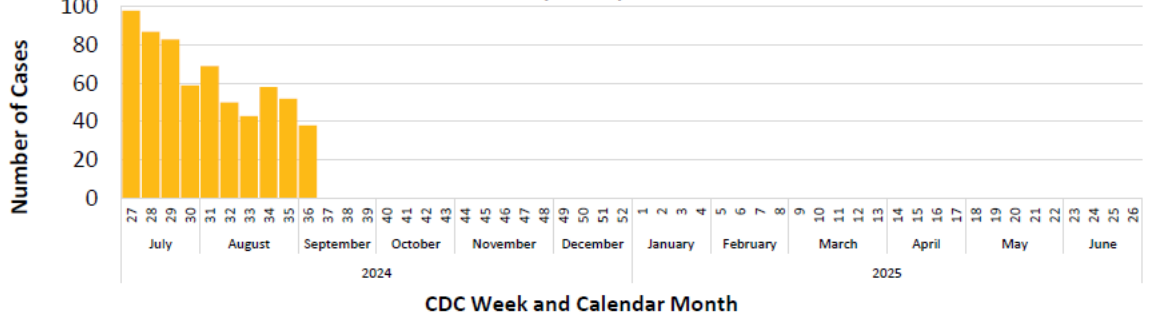
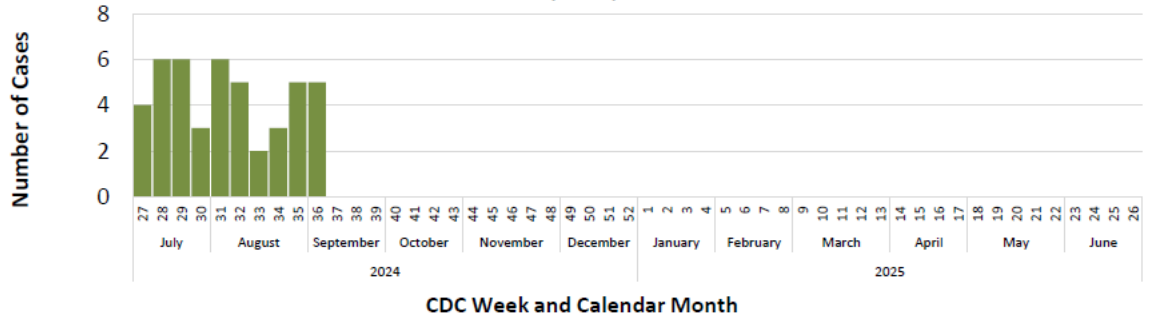


Figure 1.3. San Diego County RSV Cases (N=45)



*Episode date is the earliest available of symptom onset date, specimen collection date, date of death, date reported. Data for the most recent week may be incomplete.

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BOOSTING PROTECTION IN LONG-TERM CARE THROUGH RESPIRATORY VACCINATIONS **VIRTUAL SUMMIT**



Wednesday, October 23
10:30 AM - 12:00 PM, via Zoom

**Join
Us!**

Keeping our residents safe from COVID, Flu, and RSV starts now!

Join us for a virtual webinar on the importance of vaccinations and infection prevention strategies in skilled nursing, long-term care, and congregate care facilities, as well as other programs serving older adults.

Register Here



<https://bit.ly/3TBjwo5>

Nurse CE Credit

Provider approved by
California Board of
Registered Nursing
Provider CEP17194 for
1.5 contact hours

CHES® - CECHS

CATEGORY I CONTINUING EDUCATION
CONTACT HOURS (CECH) GRANTED BY
THE INSTITUTE FOR PUBLIC HEALTH:
Multiple Event Provider approved by
the National Commission for Health
Education Credentialing, Inc. Provider
Number 101840

SPEAKERS

Dr. Pia Pannaraj, MD, MPH
University of California San Diego

Mara Rauhauser, BSN, RN, PHN
*Healthcare-Associated Infections Program,
County of San Diego HHSA*

Dr. Karl Steinberg, MD, CMD,
HMDC
*California Association of Long Term Care
Medicine*

Dr. Lilia Xu, PharmD
986 Pharmacy



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Registration is required!



Healthcare
Associated
Infections
Program

County/CDPH Briefings



- **CDPH/HSAG SNF IP Webinars:**
 - Bi-monthly 4th Wednesday @ 3PM-4PM
 - Next webinar is on **9/25/24**
- **County LTC Sector COVID Monthly Telebriefing:**
 - Bi-monthly 4th Thursday @ 2PM-3PM
 - Next briefing is on **9/26/24**
- **NHSN & HAI Nursing Home Office Hours:**
 - Monthly 3rd Tuesday @ 11:30AM-12:30PM
 - Next session is **10/15/24**
- **HSAG/CalTCM Vaccine Office Hours:**
 - 2nd and 4th Thursdays monthly at 12PM-1PM
 - Next session is **10/10/24**



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Contact Hour Instructions

Ensure

- Ensure your full name identifies you on Teams

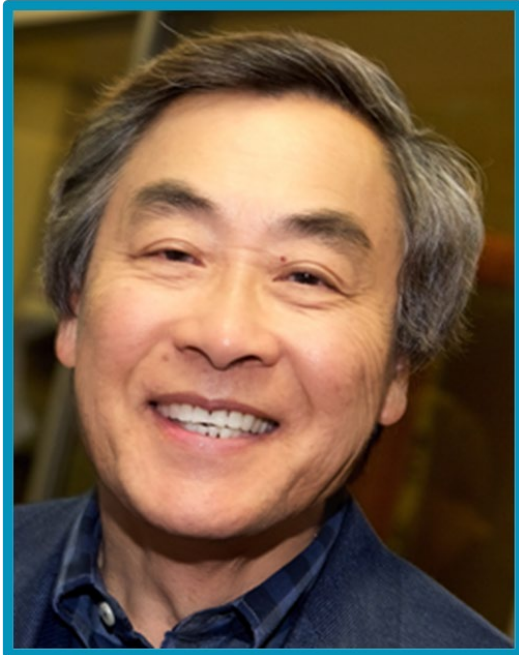
Enjoy

- Enjoy the full presentation

Complete

- Complete the post-evaluation

Presenters



Raymond Chinn, MD, FIDSA, FSHEA
Medical Consultant
County of San Diego
Healthcare-Associated Infections Program



Mara Rauhauser, BSN, RN, PHN, CIC
Senior Public Health Nurse
County of San Diego
Healthcare-Associated Infections Program

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Objectives



After attending this training, the participant will be able to:

1. Explain the difference between diagnostic and antimicrobial stewardship.
2. List 3 common myths associated with diagnosing urinary tract infections (UTI).
3. Describe the use of the Loeb criteria for initiation of antimicrobial therapy for presumptive UTI.
4. Describe the infection preventionists' role in antimicrobial stewardship.

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Antimicrobial Resistance: Pieces of the Puzzle



Infection Prevention and Control Measures

- Surveillance
- Communication
- Cleaning and disinfection
- Cohorting
- Development of decolonization strategies

Antimicrobial Stewardship

- Diagnostic stewardship
- Best practice antimicrobial use (people, animals and agricultural)
- Alternate treatment strategies

Laboratory Capacity

- Appropriate testing

[About Antimicrobial Resistance](#) | [Antimicrobial Resistance](#) | [CDC](#)

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Assumptions



- Urinary tract infections (UTI) are commonly diagnosed health care
- Most UTIs are diagnosed inappropriately in patients without signs or symptoms of infection (asymptomatic bacteriuria - ASB).
- ASB leads to inappropriate antibiotic prescribing
 - Antimicrobial resistance – a significant number originates from urinary isolates
 - Healthcare-associated infections
 - Adverse drug events

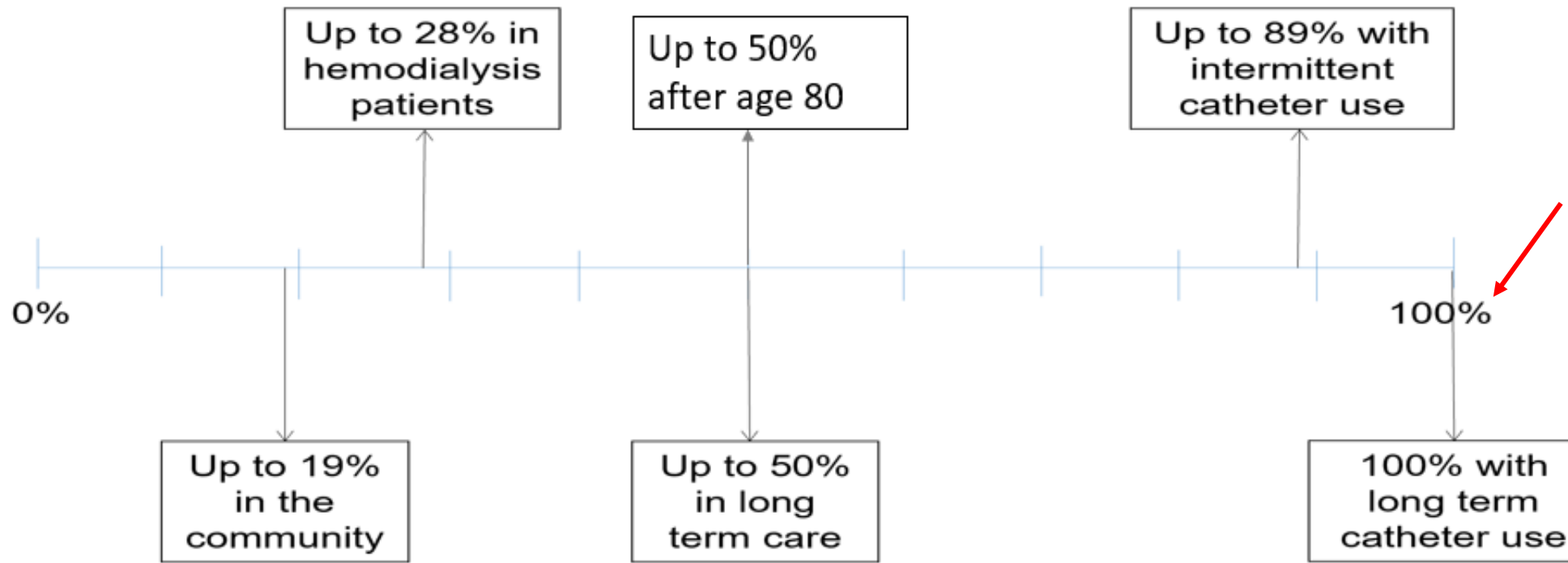


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Asymptomatic Bacteriuria



Asymptomatic bacteriuria (ASB) is the presence of bacteria in the urine, with or without pyuria (urine WBC), in the **absence** of signs or symptoms of urinary tract infection (UTI) or other systemic signs or symptoms of infection.



IDSA 2019 Clinical Practice Guideline for the Management of Asymptomatic Bacteriuria • CID 2019:68 (15 May)

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What are the Differences between Diagnostic and Antimicrobial Stewardship (ASP)?



Is one better than the other?

Diagnostic Stewardship

(“WHEN”) refers to the process of modifying ordering, performing, or reporting diagnostic test results to improve the accuracy of clinical diagnosis through decreasing inappropriate detection, treatment of asymptomatic bacteriuria, and intervention. **“The culture of NOT culturing”**

Antimicrobial (*Antibiotic*)
Stewardship

(“WHAT”) the right drug, at the right dose, for the right duration (**3Ds**) and, using the best route of administration.

Infect Dis Clin North Am. 2024 Jun;38(2):255-266. doi:
10.1016/j.idc.2024.03.004. Epub 2024 Apr 4. PMID: 38575490.

[Drugs Context](#). 2023; 12: 2022-9-5.

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1. Explain the difference between diagnostic and antimicrobial stewardship.
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UTI Diagnosis in SNF Residents: Top 5 Myths



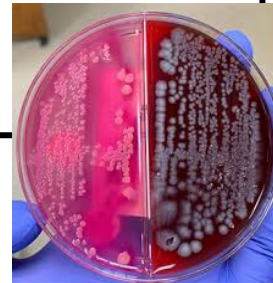
Myth 1:

Urine cloudy and smells bad

No Symptoms = **NOT** a UTI

Myth 2: Abnormal urine studies

- Bacteria or positive for nitrates (for bacteria) in urine
- WBCs or positive leukocyte esterase (for WBCs) in urine
- Positive urine culture



No Symptoms = **NOT** a UTI

Adapted from: Schulz L, Hoffman RJ, Pothof J, Fox B. Top Ten Myths Regarding the Diagnosis and Treatment of Urinary Tract Infections. *J Emerg Med.* 2016;51(1):25-30. doi:10.1016/j.jemermed.2016.02.009

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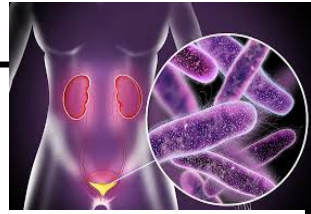


UTI Diagnosis in SNF Residents: Top 5 Myths



Myth 3:

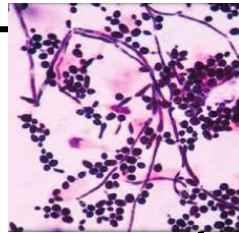
Residents with bacteria in urine should be treated to prevent a UTI



False

Myth 4

The presence of yeast or *Candida* in the urine, especially in residents with a catheter should be treated for Candida UTI



False; treatment indicated only if candiduria suggests systemic infection

Myth 5

Falls and acute altered mental status changes in residents are usually caused by UTI



False; if signs or symptoms are absent: look for other causes first

Adapted from: Schulz L, Hoffman RJ, Pothof J, Fox B. Top Ten Myths Regarding the Diagnosis and Treatment of Urinary Tract Infections. *J Emerg Med.* 2016;51(1):25-30. doi:10.1016/j.jemermed.2016.02.009

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ABCs of Delirium



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IDENTIFYING DELIRIUM ABCs OF IDENTIFICATION

Acute/subacute

- Altered mental status from baseline

Behavioral disturbance

- Restless, agitated, combative

Changes in consciousness

- Jittery, drowsy, difficult to arouse

CAUSES OF DELIRIUM

- Sleep deprivation
- Dehydration
- Medications
- Pain
- Immobility

COMMON SYMPTOMS

- Drowsiness or agitation
- Refusing therapy/meals
- Refusing medications
- Arguing with staff or family members
- Hallucinating
- Wandering off



TREATING AND PREVENTING DELIRIUM

1. MODIFY ENVIRONMENT

- Orient often—time, date, place
- Provide calendar/clock in room
- Surround with familiar faces

2. PROMOTE NORMAL SLEEP

- Reduce noise, dim lights
- Promote sleep at night and activity during day

3. CORRECT SENSORY DEFICITS

- Eyeglasses
- Hearing aids
- Pain management
- Good lighting

4. ENHANCE DAYTIME ACTIVITIES

- Cognitive stimulation—word games, crossword puzzles, current events discussion
- Encourage physical/occupational therapy
- Active while awake; only sleep at night
- MOBILIZE!

5. PREVENT DEHYDRATION

- Small sips of water throughout the day
- Encourage good nutrition—supplement if necessary with smoothies or protein drinks
- Address constipation



Take Away

- Delirium is one possible symptom of UTI, but may be due to many other causes other than infection...
- Asymptomatic bacteriuria and delirium are independently common in the elderly

<https://www.ahrq.gov/sites/default/files/wysiwyg/antibiotic-use/long-term-care/poster-4x6-delirium.pdf>



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To Enhance Diagnostic Stewardship: Using the Loeb Criteria



Minimum criteria to start antibiotics for urinary tract infections

Question:

Loeb vs McGeer Criteria: What is the difference?

Answer:

- The Loeb criteria is used to assess whether antibiotics should be started in a given **clinical** situation.
- The McGeer criteria are used to assess whether a resident has a healthcare-associated infection and is used for **surveillance** purposes

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Components of the Loeb Criteria: Indwelling Urinary Catheter vs. No Catheter



LOEB CRITERIA FOR INITIATION OF ANTIBIOTIC THERAPY FOR URINARY TRACT INFECTIONS

Indwelling Urinary Catheter (foley or suprapubic)

+ at least 1 of the following:

-  **Fever**
T > 37.8°C (100°F)
(or 1.5°C (2.4°F) increase above baseline temperature)
-  **New costovertebral angle tenderness**
-  **Rigors (shaking chills)**
-  **New onset of delirium****



**Delirium - disturbance of consciousness with reduced ability to focus, shift, or sustain attention.

Foul-smelling and/or cloudy urine is **NOT** a valid indication for initiation of antibiotics.









No Urinary Catheter* *Includes Intermittent catheterization or condom catheter

+

-  **Acute dysuria**
- OR
-  **Fever**
T > 37.8°C (100°F)
(or 1.5°C (2.4°F) increase above baseline temperature)

+ at least 1 of the following:

-  **New or worsening urgency**
-  **New or worsening frequency**
-  **New urinary incontinence**
-  **Gross hematuria**
-  **Costovertebral angle tenderness**
-  **Suprapubic pain**

Symptoms of urgency, frequency, or incontinence w/o dysuria and absents of systemic symptoms can wait for urine culture results prior to antibiotic initiation.

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New or worsening frequency



New urinary incontinence



Gross hematuria



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Suprapubic pain

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Narrowing the Focus to the Urinary Tract



The role of the Infection preventionist

Educator

- Dispel the myths associated with the diagnosis of urinary tract infection
- Promote the use of the Loeb criteria among the nursing staff. This is helpfully when contacting physicians regarding test results and preempting use of antibiotics. Loeb criteria has application in other potential infectious situations

Surveillance

- **Review the number of cases of probable UTI that are asymptomatic bacteriuria with the MDS coordinator who report data to CMS – Why this is not adequate**
- Complete infection tracker; this is started upon initiation of antibiotics and records signs/symptoms
- Obtain the number of urine cultures done over time
- Interact with the Clinical Pharmacist and/or medical director

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Reporting to the Centers for Medicare and Medicaid (CMS)



Minimum Data Set (MDS) Coding Requirements

To code a urinary tract infection (UTI) on an MDS 3.0, the following criteria must be met:

- A physician-documented UTI diagnosis within the last 30 days
- Evidence-based criteria for a UTI, such as McGeer, NHSN, or Loeb
- Significant laboratory findings
- Current medication or treatment for a UTI within the last 30 days

Surveillance limited by:

- Only reported for long-term residents (> 100 days)
- Ability to choose dates for surveillance

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Infection Tracker



A means to track the number of urinary tract infections and cases of asymptomatic bacteriuria over time

Antimicrobial Stewardship Program --Antibiotic Tracking Sheet																														
Patient	MRN	Room	Age	Prescribing MD/NP	Symptoms exhibited	Temp x2 1 hr apart	vital signs (HR,RR, bp, O2)	WBC	UA WBC	Hx resistant orgs (MRSA, ESBL, CRE, MDRO)	Antibiotic ordered	Antibiotic dose	Prior facility start date	Days of therapy	Indication or site of inf	Urinary Catheter ?	Probiotic ordered?	Interventions	Changes to therapy	Initials	Day 3 (48-72hr) follow-up date	Patient status	Site(s) cultured	UA wbc if applicable	Organism (s) cultured	Culture review / Sensitivity	Interventions	New orders	Initials	
Joe, Jane	323223	202	75	Den	dysuria, frequency, AMS, diaphoretic	100.6 101.0	HR 126, RR 20 bp 143/83, O2 96	14.1	>100	MRSA + ESBL	Rocephin	2g iv q24h	n/a	7 days	UTI	suprapubic	no	Add probiotic	probiotic added	cc RN	12/10/2020	Fever resolved, vss	Blood Urine	>100,000	negative P. mirabilis	S ceftz, S cefu	De-escalation to po abx	Changed to po Cefin 500mg bid x 5d (7d total abx)	dh RPh	

Pointclickcare (PCC) EMR with Infection Tracker

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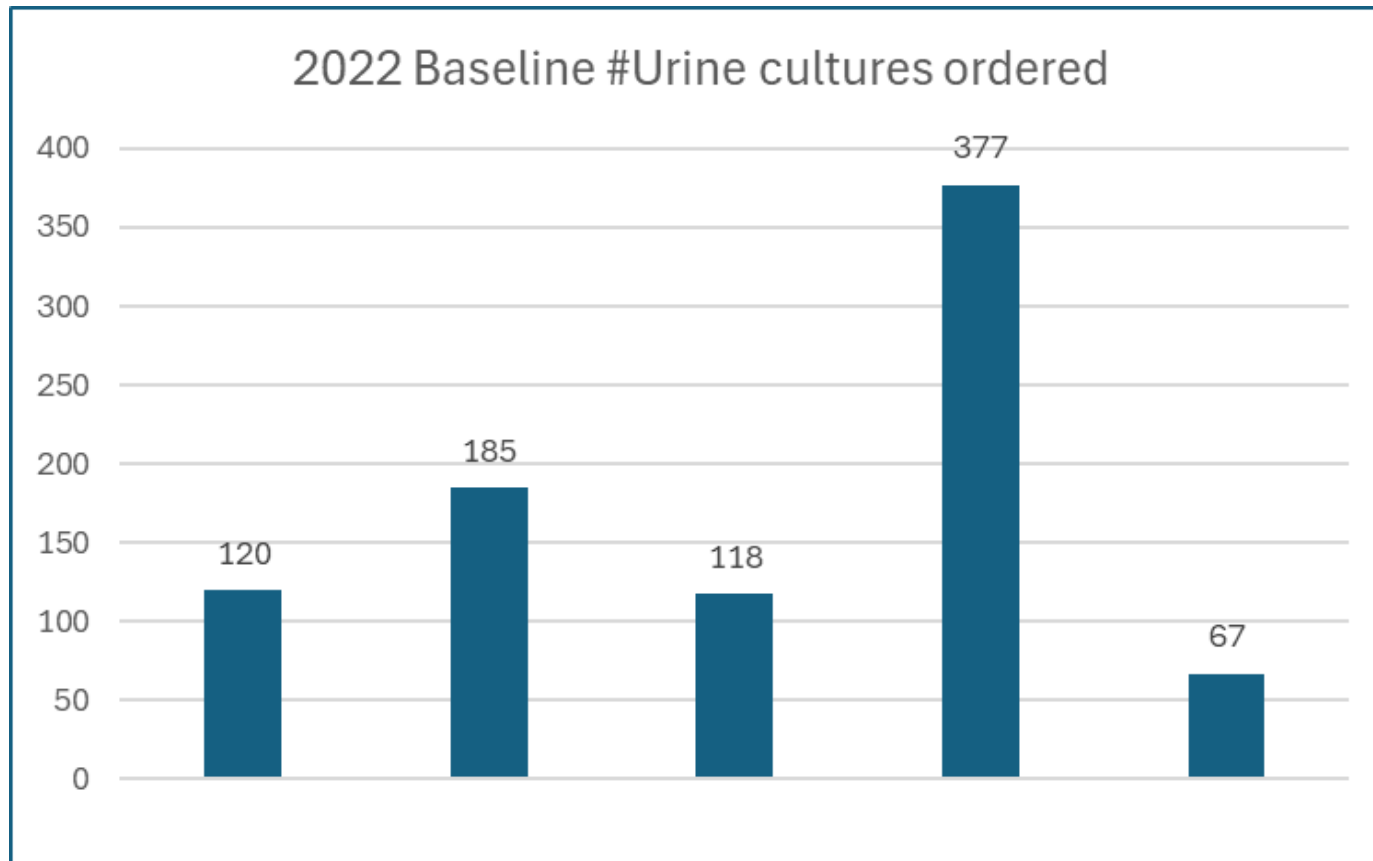
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Urine Culture Surveillance as a Measure of Diagnostic Stewardship



Using Resident Days as Denominator



#total beds/#vent beds	
	92/36
	256/34
	115/30
	129/36
	122/32

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Narrowing the Focus to the Urinary Tract



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Resources, albeit Limited



The Clinical Pharmacist, Medical Director, Quality Council

- The Clinical Pharmacist (CP) is at the SNF, generally a day/month for matters related to medications.
- Medical Director is the conduit to other attending MDs should issues with antibiotics arise
- Quality Council is a great venue to report surveillance data
 - Number of UTIs vs. ASB over time
 - MD outliers
 - Antibiotic use as related to antimicrobial resistance reported by clinical pharmacist

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Summary: The Algorithm



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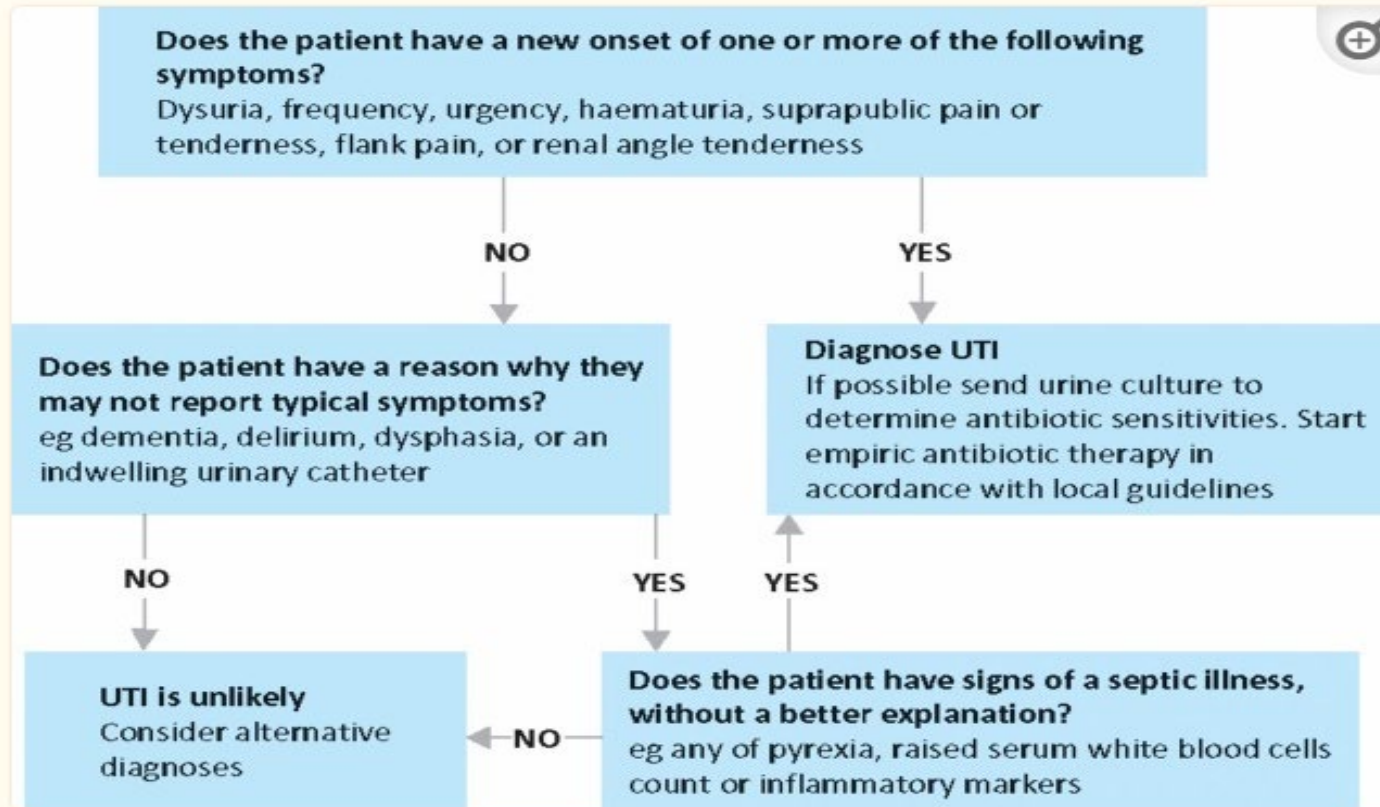


Fig 2.

A suggested approach to the evaluation of an unwell older adult for suspected urinary tract infection (UTI).
Reproduced with permission from Radcliffe Publishing.¹⁴

Slide courtesy of Palomar Health ASP



Strategies for Effective **Internal** Communication

- Consistent and accurate signage
- Education for staff, vendors, and visitors
- Collaboration of all leadership
- Ask staff for feedback to improve the system
- Regularly conducted adherence monitoring



[Interfacility Communication](#)

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Strategies for Effective **Interfacility** Communication

- Establish relationships with frequent receiving/discharging facilities
- Revise transfer process to improve effective communication
 - Use the CDPH interfacility transfer form
 - For admissions, request MDRO history and isolation status prior to transfer
 - When a miscommunication happens, review the situation and discuss with leadership to continually improve the system
- Create a partnership between the admission team and the Infection Preventionist
 - Provide education on relevant organisms and types of precautions needed



[Interfacility Communication](#)

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CDPH Interfacility Transfer form



The HAI Program strongly recommends communicating the information included in the Interfacility Transfer form **by phone, in advance of transfer**, for patients with the following high-priority multidrug-resistant organisms (MDRO):

- [Candida auris](#)
- [Carbapenemase-producing carbapenem-resistant Acinetobacter baumannii, Enterobacterales, and Pseudomonas aeruginosa \(CP-CRE\)](#)
- Pan-resistant MDRO (specifically, MDRO that are resistant to all antimicrobial drugs tested)

HEALTHCARE FACILITY TRANSFER FORM

Use this form for all transfers to an admitting healthcare facility.

Affix patient labels here.

Patient Name (Last, First): _____

Date of Birth: _____

MRN: _____

Transfer Date: _____

Receiving Facility Name (if known): _____

Contact Name (optional): _____ Contact Phone (optional): _____

Sending Facility Name: _____

Contact Name: _____ Contact Phone: _____

PRECAUTIONS

Patient currently on precautions? If yes, check all that apply:

Yes **No**
 Airborne Contact Droplet Enhanced Standard*

*Long-term care facilities may implement [Enhanced Standard Precautions](#) (www.cdph.ca.gov/Programs/CHCO/HAI/Pages/ESP.aspx) for patients with multidrug-resistant organisms (MDROs) or risk factors for transmission, i.e., gown and glove use for high-contact care activities; such patients may be on Contact Precautions in acute care settings.

ORGANISMS (Include copy of lab results with organism ID and antimicrobial susceptibilities.)

Patient is **NOT** known to be colonized or infected with any multidrug-resistant or other organisms requiring precautions (*skip section*)

Patient has MDRO or other lab results requiring precautions (record organism(s), specimen source, collection date)

Exposed to MDRO/other (record organism(s) and last date(s) of exposure if known)

Organism	Carbapenemase (if applicable)**	Source	Date
<input type="checkbox"/> <i>Candida auris</i> (C. auris)			
<input type="checkbox"/> <i>Clostridioides difficile</i> (C. diff)			
<input type="checkbox"/> <i>Acinetobacter</i> , multidrug-resistant (e.g., CRAB**)			
<input type="checkbox"/> Carbapenem-resistant Enterobacterales (CRE**)			
<input type="checkbox"/> <i>Pseudomonas aeruginosa</i> , multidrug-resistant (e.g., CRPA**)			
<input type="checkbox"/> Extended-spectrum beta-lactamase (ESBL)-producer			
<input type="checkbox"/> Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			
<input type="checkbox"/> Vancomycin-resistant <i>Enterococcus</i> (VRE)			
<input type="checkbox"/> No organism identified (e.g., molecular screening test**)			
<input type="checkbox"/> Other, specify: (e.g., SARS-CoV-2 (COVID-19), lice, scabies, disseminated shingles (<i>Herpes zoster</i>), norovirus, influenza, tuberculosis)			

**Note specific carbapenemase(s) (e.g., NDM, KPC, OXA-23) if known

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Refining the MDRO Transfer Form



TRANSFER INFORMATION

Reason for transfer:	<input type="checkbox"/> N/A
Patient has any of the following symptoms or clinical status? <input type="checkbox"/> N/A <input type="checkbox"/> Acute diarrhea or incontinent stool <input type="checkbox"/> Incontinent of urine <input type="checkbox"/> Change in respiratory secretions <input type="checkbox"/> Vomiting <input type="checkbox"/> Change in mental status <input type="checkbox"/> Rash consistent with an infectious process (e.g. <input type="checkbox"/> Change in wound drainage (e.g. purulence) [§] vascular)	
Mental Status at transfer: <input type="checkbox"/> Alert <input type="checkbox"/> Not alert <input type="checkbox"/> Oriented <input type="checkbox"/> Disoriented	
Baseline mental status: <input type="checkbox"/> Alert <input type="checkbox"/> Not alert <input type="checkbox"/> Oriented <input type="checkbox"/> Disoriented	
Preexisting conditions: <input type="checkbox"/> Cloudy Urine <input type="checkbox"/> Respiratory Secretion Speech: <input type="checkbox"/> Verbal <input type="checkbox"/> Nonverbal	
Instructions for receiving facility:	<input type="checkbox"/> N/A
Scans or labs performed? <input type="checkbox"/> Work-Up Attached <input type="checkbox"/> Cultures Pending <input type="checkbox"/> Please contact for workup	<input type="checkbox"/> N/A
Procedures completed during stay: <input type="checkbox"/> Yes: _____ <input type="checkbox"/> No	<input type="checkbox"/> N/A

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What can the HAI Program do to help?



The HAI Team



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Contact Hour Instructions

- **Ensure your TEAMS name is your full name**
- **Complete by September 27th, 5:00 PM**
- **Expect your certificate by October 15th.**





Next Collaborative

*****November 20, 2024*****

11:00AM – 12:00PM

Microsoft TEAMS

Featured Topic:

Occupational Health

1 Contact Hour Offered

Submit questions or
feedback about today's meeting to:

PHS.HAI.HHSA@sdcounty.ca.gov

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Contact us at:

PHS.HAI.HHSA@sdcounty.ca.gov



The Public Health Services department, County of San Diego Health and Human Services Agency, has maintained national public health accreditation, since May 17, 2016, and was re-accredited by the Public Health Accreditation Board on August 21, 2023.

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