Ask an IP Learning and Communication Series

Week 3-Disease Surveillance Wednesday October 6th, 2021





Acute Communicable Disease Control Program Los Angeles County Department of Public Health



Disclosures

There is no commercial support for today's call

Neither the speakers nor planners for today's call have disclosed any financial interests related to the content of the meeting

This call is meant for healthcare facilities and is off the record and reporters should log off now



DPH Infection Prevention Team

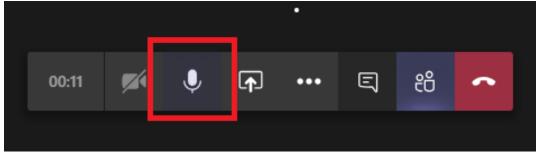
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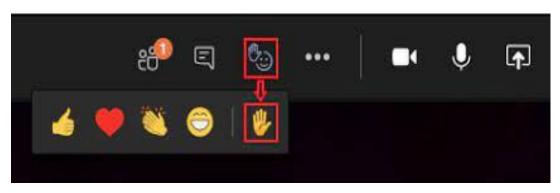


Housekeeping

• How to Mute/Unmute (Crtl+ Shift+ M):



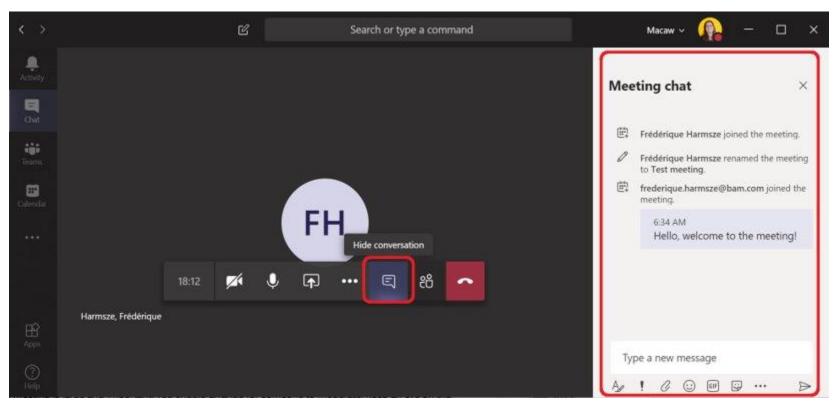
• How to Raise Hand:





Housekeeping

• How to use chat:





Objectives

- Discuss basic principles of epidemiology and how they apply to healthcare-associated infection (HAI) surveillance
- Describe surveillance outcome and process measures for infection prevention
- Foster discussion among LA County Skilled Nursing Facilities about infection control practices



What is Epidemiology?

- Study of disease in populations
 - Populations (groups) are the main focus vs. the individual (clinical focus)
- Key Components of Epidemiology:
 - Trends/Patterns
 - Determinants of health
 - Distribution (who, when, where)



Epidemiology of Infection Prevention

- Main objectives/goals:
 - What factors contribute to increased infection rates?
 - What populations are at higher risk for developing HAIs?
 - HAI prevention



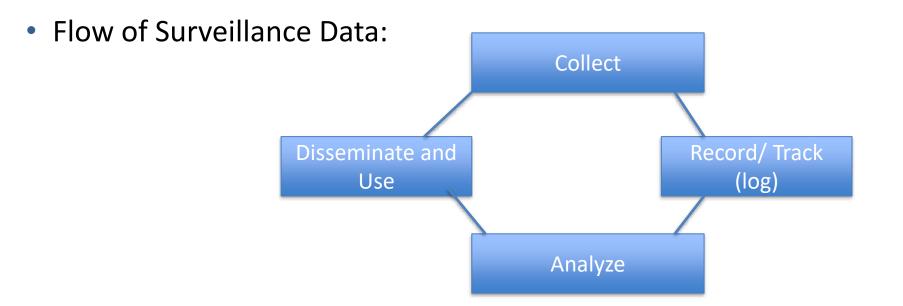
Disease Surveillance

- Surveillance: the ongoing, systematic collection, recording, analysis, interpretation, and dissemination of data
- Reflects rate of disease onset or current disease status of a community or population (i.e. SNF)
- Identify risk factors for disease
- Used to reduce and prevent illness and transmission of illness



Surveillance

• A surveillance system is an informational loop that is built upon communication and action

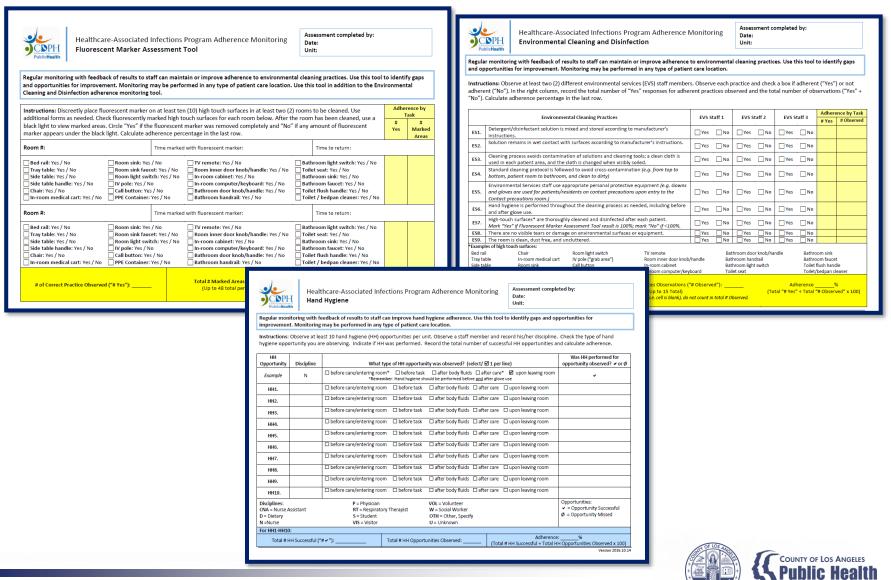




Process Measures

- Evidence-based best practices that represent a health system's efforts to track improvement efforts and prevent infection
- Examples of Process Measures:
 - CAUTI prevention: tracking % of urinary catheters with appropriate indication
 - CLABSI prevention: % adherence to central line maintenance practices
 - HAI prevention: % adherence to hand hygiene

Adherence Monitoring Tools used for Process Measures





Resources (Process Measures)

- CDPH Webpage for adherence monitoring tools:
 - <u>https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/Moni</u> toringAdherenceToHCPracticesThatPreventInfection.aspx



Outcome Measures

- Reflect the impact of the health care service or intervention on the health status of patients
- Examples of Outcome Measures:
 - CLABSI rate
 - CAUTI rate
 - C. Diff infection rate



Incidence vs. Prevalence

- Incidence: number of person in a population who develop a disease or condition within a specified period of time
 - Measures number of NEW infections
- Prevalence: proportion of persons in a population who have a disease or condition at a given point in time
 - Measures number TOTAL infections that are PRESENT, at a given point in time



Example of Incidence Calculation (Outcome Measures)

- 5 scabies infections in January
- 180 total residents

<u>5 scabies infections</u> x 100 = 2.7 NEW infections per 180 residents 100 residents within timeframe



Example of Prevalence Calculation (Outcome Measure)

- 2 patients colonized with MRSA
- 10 Patients admitted within timeframe

<u>2 patients colonized with MRSA</u>

=0.2 = 20%

• 10 patients admitted within timeframe



Resources (Outcome Measures)

- CDPH Link to In-Depth Slides that review how to calculate infection rates and what the criteria is for measuring data that you should be monitoring
 - <u>https://www.cdph.ca.gov/Programs/CHCQ/HAI/CDPH%20D</u>
 <u>ocument%20Library/2019_15s_SNF%20InfectionSurveillanc</u>
 <u>e_Approved02.22.19.pdf</u>



Surveillance Practices to Prevent HAIs

- Assess the population
- Select outcome of process for surveillance (must comply with State and Federal requirements
- Use surveillance definitions
- Collect surveillance data
- Calculate and analyze infection rates
- Apply risk stratification methods
- Report and use surveillance information
- Written plan to serve as foundation of program



Reminder

We want to thank you all for your wonderful questions these last few weeks, during our Ask the IP Sessions. The focus of these sessions is core infection prevention practices (beyond COVID-19) that must be used in all care settings and to foster discussion among LA County Skilled Nursing Facilities about infection control practices.

We would like to remind everyone that the LACDPH COVID-19 Guidance has been updated as of 10-01-2021, please take time to review the updates and the current guidance from the County. We will not be reviewing guidelines during these sessions.

Link to Guidelines: http://publichealth.lacounty.gov/acd/ncorona2019/healthfacilities/snf/prevention/



Programming

Session	Date (2021)	Covered Topics
Week 1	Wednesday, Sept 22nd	Antimicrobial Stewardship
Week 2	Wednesday, Sept 29th	Office Hours
Week 3 (Today!)	Wednesday, Oct 6th	Disease Surveillance
Week 4	Wednesday, Oct 13th	Office Hours
Week 5	Wednesday, Oct 20th	Outbreak Investigation
Week 6	Wednesday, Oct 27th	Office Hours
Week 7	Wednesday, Nov 3rd	Regulatory Bodies
Week 8	Wednesday, Nov 10th	Office Hours
Week 9	Wednesday, Nov 17th	Communication, Education and Advocacy
Week 10	Wednesday, Nov 24th	Week of Thanksgiving (off)
Week 11	Wednesday, Dec 1st	Office Hours
Week 12	Wednesday, Dec 8th	Professional Development, Resources and Other IP Settings
Week 13	Wednesday, Dec 15th	Office Hours



COUNTY OF LOS ANGELES Public Health

Questions

