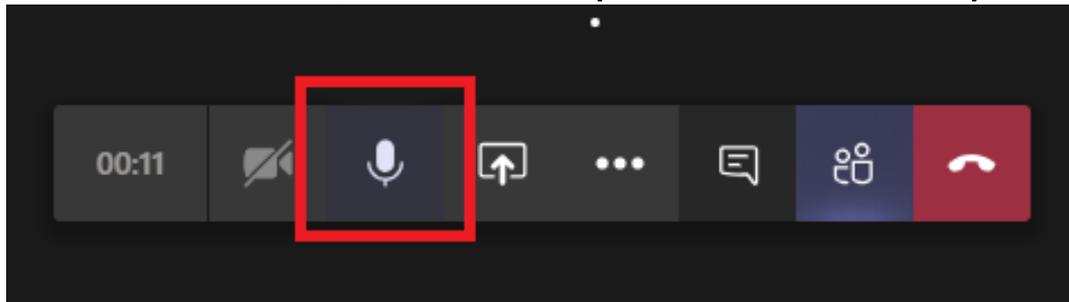# Disclosures

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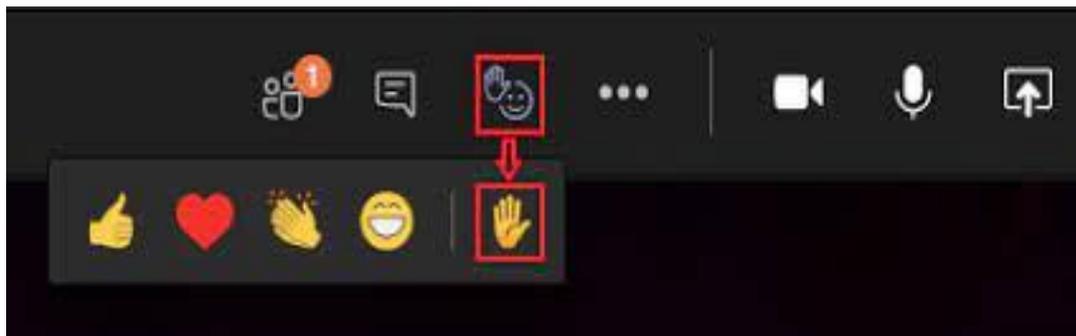
This call is meant for healthcare facilities and is off the record and reporters should log off now

Housekeeping

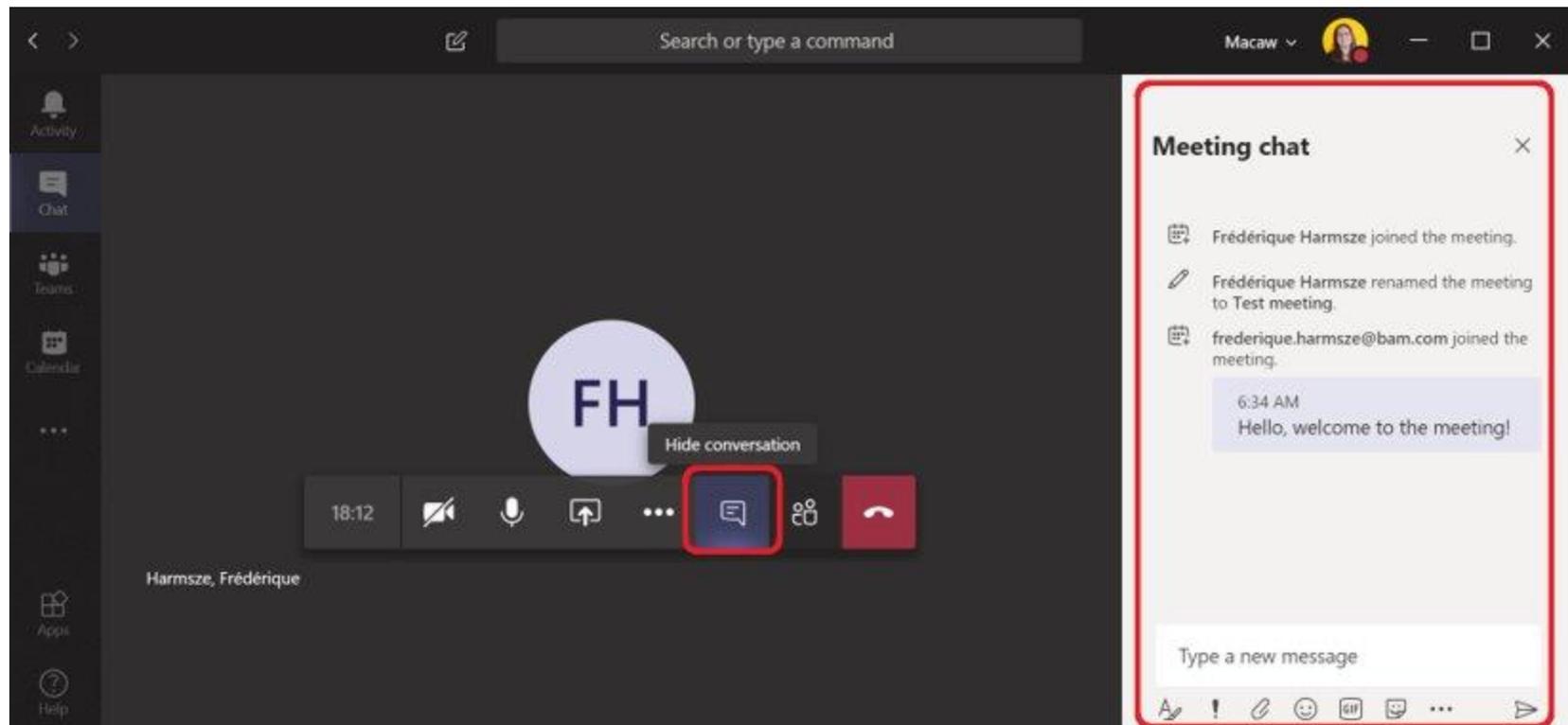- How to Mute/Unmute (Crtl+ Shift+ M):

- How to Raise Hand:

Housekeeping

- How to use chat:

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/

DPH Infection Prevention Team

Walteena Brooks, LVN

Rachel Gibbs, RN, BSN

Marco Marquez, MPH, CIC

Harriett Pitt, MS, RN

Krystal Smith, MSc, CIC

Contact Us: LACSNF@ph.lacounty.gov

Slides: http://publichealth.lacounty.gov/acd/infectionprevention series.htm

Objectives

- Review IP **professional development pathways**, including certification and organization membership

- Learn **how to find resources** and the **variety of IP settings**

- Foster discussion among LA County Skilled Nursing Facilities about infection control practices

Professional Development

| Novice	Becoming Proficient	Proficient	Expert
• Limited knowledge • Limited skills • Limited experience • Relies on rules & concepts to guide their practice • Starting to develop their knowledge & skills in the core competencies	• Continuing to build on the core competencies • Developing into an independent practitioner • Briefly move beyond rule-based thinking • Varies based on prior training, setting, role, team size	• Demonstrates proficient knowledge of core competencies • Holds the CIC credential • Applies core competencies independently • Deepens knowledge of future-oriented domains • Uses past experiences to shape future thinking	• Consistently and reliably demonstrates professional expertise & mastery in core competencies • Shares their knowledge & skills via mentoring, research, leadership • Can analyze & guide future decisions based on experience

1. https://apic.org/professional-practice/roadmap/
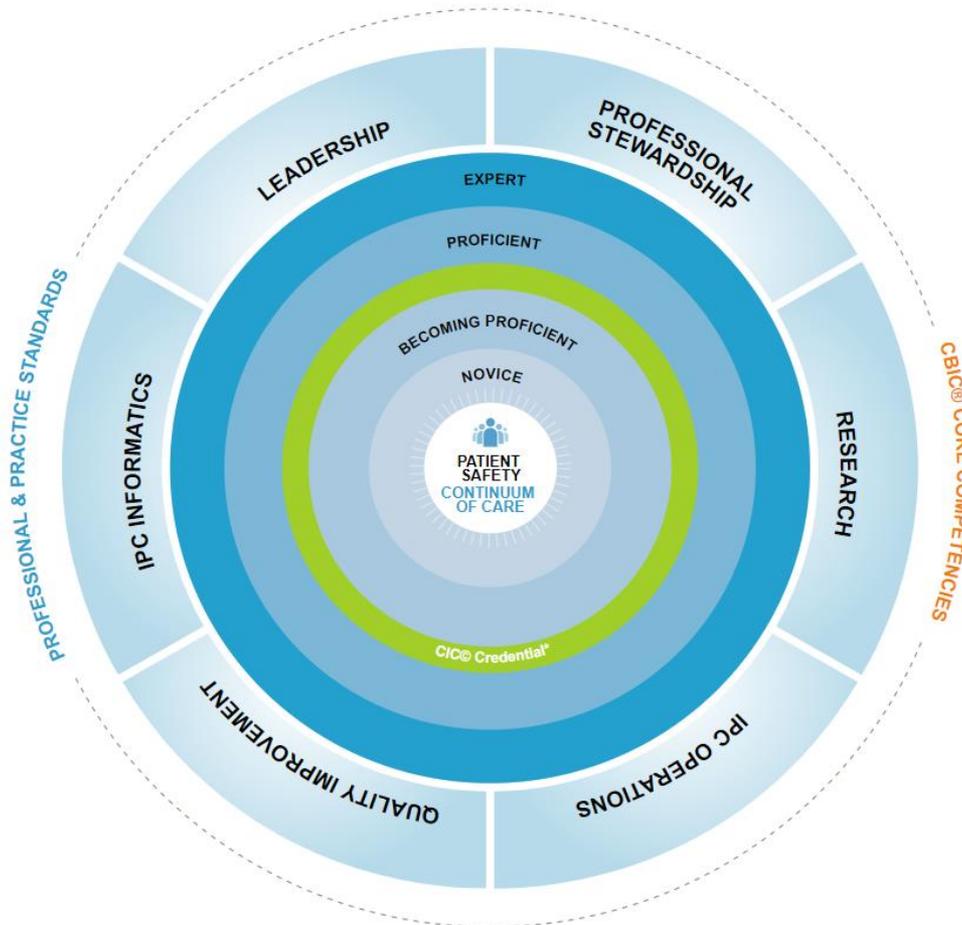
Professional Development

Experience

Time

Role

Membership

Continuing Education
- Certification
- Degree programs
- Webinars
- Conferences

Networking & Mentorship

1. https://apic.org/professional-practice/infection-preventionist-ip-competency-model/

Infection Prevention Certification

CIC — Certification in Infection Prevention & Control

- Standardized examination measure of basic knowledge, skills and abilities expected of professionals working in the field of IPC
- Multiple choice & exam content
- Application process & eligibility requirements
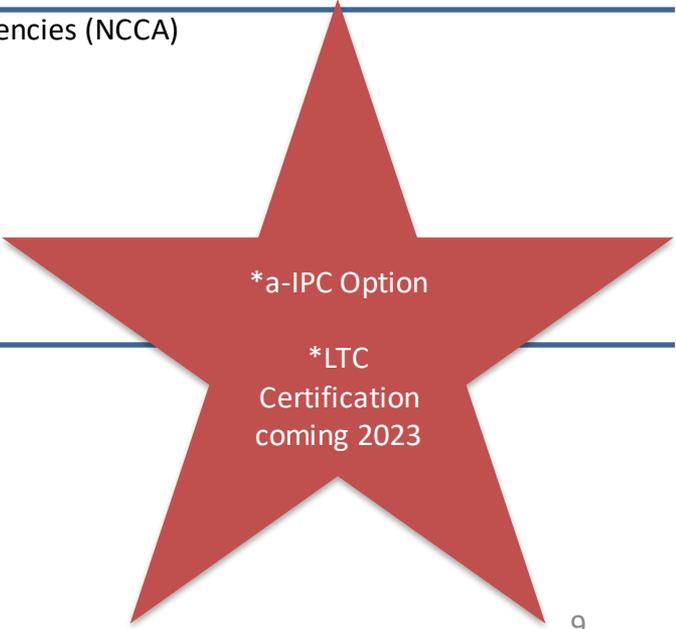- Recertification via exam or continuing education

CBIC — Certification Board of Infection Control & Epidemiology

- Established by APIC in 1981 & Accredited by the National Commission for Certifying Agencies (NCCA)
- Maintain & improve the accredited certification program
- Increase the # of certified IPs
- Establish & maintain partnerships with organizations

Why Certify?

- Earn internationally recognized level of competency in IPC
- Professional credibility & prestige
- Personal satisfaction

*a-IPC Option

*LTC Certification coming 2023

1. https://www.cbic.org/

Where to Find Resources

Regulatory Bodies	Guidance Organizations	Other IPs
• CDPH • LAC DPH • CMS • OSHA • EPA • FDA	• CDC • CDPH • LAC DPH • APIC • SHEA • QIO/HSAG • ACIP	• Mentors • SNF IP Community • CA APIC • GLA APIC • LAC DPH

Programming

Session	Date (2021)	Covered Topics
Week 1	Wednesday, Sept 22nd	Antimicrobial Stewardship
Week 2	Wednesday, Sept 29th	Office Hours
Week 3	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	Water Management Programs, Legionella
Week 12	Wednesday, Dec 8th	Professional Development, Resources and Other IP Settings
Week 13 (Today!)	Wednesday, Dec 15th	Office Hours

Feedback Survey

Feedback: Ask An IP Leaning and Communication Series (Program 2)

Thank you for participating in "Ask An IP" for Skilled Nursing Facilities with the Los Angeles County Department of Public Health, Acute Communicable Disease Control. Please fill out the four questions below, and we will use your feedback to develop future sessions for this program.

https://forms.office.com/g/aBACVmmCJm

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/

Program 2 Trivia and Knowledge Check

- Questions from each topic
- Provide your answer in the chat or verbally
- Keep track of the amount you answer correctly
- **(consider using this form of education with your staff)**

# of Questions	Topic
3	Antimicrobial Stewardship
3	Disease Surveillance
3	Outbreak Investigation
3	Regulatory Bodies
3	Communication, Education and Advocacy
3	Water Management Programs, Legionella
3	Professional Development, Resources and Other IP Settings

Antimicrobial Stewardship – Question 1

What is the difference between antibiotic and antimicrobial?

Antimicrobial Stewardship - Answer

Antibiotic vs Antimicrobial

What is an **antibiotic**? ★

- A drug that kills or stops the growth of bacteria.
- Antibiotics are a type of antimicrobial.
- Penicillin and ciprofloxacin are examples of antibiotics.

(https://www.cdc.gov/narms/resources/glossary.html)

What is an **antimicrobial**? ★

- A substance, such as an antibiotic, that kills or stops the growth of microbes, including bacteria, fungi, or viruses.
- Antimicrobials are grouped according to the microbes they act against (antibiotics, antifungals, and antivirals).
- Also referred to as drugs.

Antimicrobial Stewardship – Question 2

What are the 8 elements of an antimicrobial stewardship program?

Antimicrobial Stewardship - Answer

What goes into an Antibiotic Stewardship Program?

8 Elements of ASP
★ Leadership commitment
★ Accountability
★ Drug Expertise
★ Action
★ Diagnosis
★ Tracking
★ Reporting
★ Education

- https://www.cdc.gov/longtermcare/pdfs/core-elements-antibiotic-stewardship-checklist.pdf

Antimicrobial Stewardship – Question 3

What tasks fall under the **tracking** and **reporting** elements within antimicrobial stewardship programs?

Antimicrobial Stewardship - Answer

Tracking & Reporting: An IP and ASP Collab

★ Monitor antibiotic prescribing and resistance patterns

★ Regularly report information on antibiotic use and resistance to doctors, nurses, and relevant staff

★ Conduct HAI surveillance

- Use surveillance data to prioritize ASP interventions
- Consult regarding use of NHSN
- NHSN Antimicrobial Use and Resistance (AUR) module tracks and analyzes antimicrobial use and resistance trends

★ Provide feedback of HAI data

- Clinicians, patient safety and medical executive committees, board of directors, and other stakeholders
- Provide feedback that is timely, frequent, individualized, non-punitive, and customized

Disease Surveillance – Question 1

What are the **3 main goals** of infection prevention epidemiology?

Disease Surveillance - Answer

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 – Question 2

What is an example of an **outcome** measure?

Disease Surveillance - Answer

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 ★

Disease Surveillance – Question 3

What is an example of an **process** measure?

Disease Surveillance - Answer

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 ★
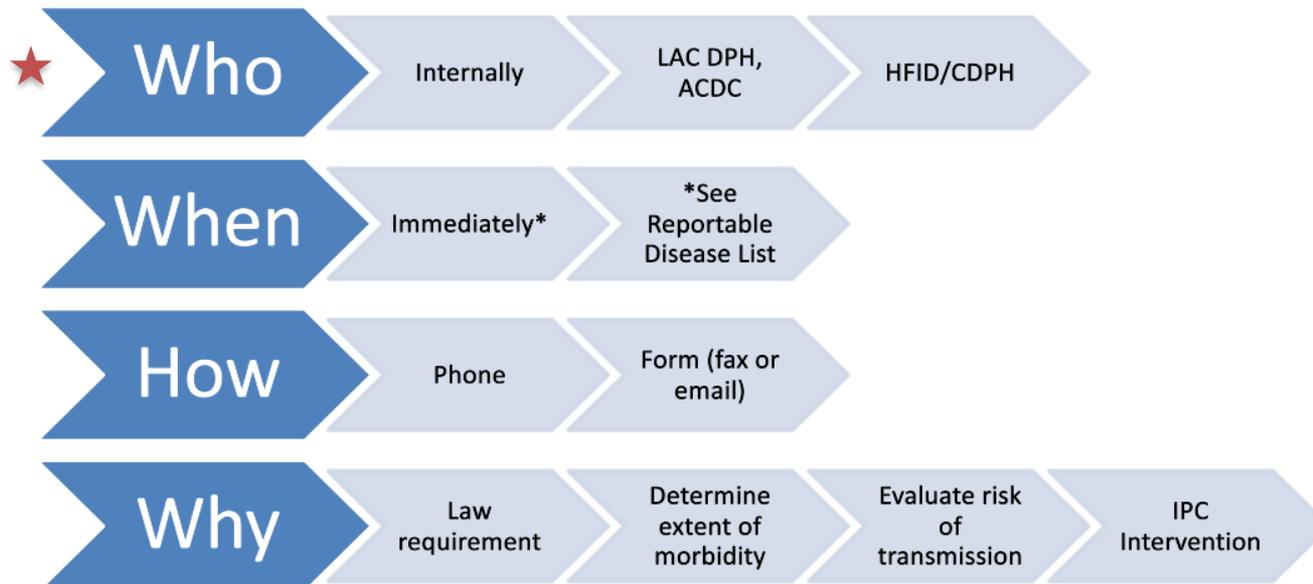 - HAI prevention: % adherence to hand hygiene ★

Outbreak Investigation – Question 1

Who do you report infectious disease outbreaks to?

Outbreak Investigation – Answer

Reporting Outbreaks

⭐ **Who**	Internally	LAC DPH, ACDC	HFID/CDPH
When	Immediately*	*See Reportable Disease List	
How	Phone	Form (fax or email)	
Why	Law requirement	Determine extent of morbidity	Evaluate risk of transmission → IPC Intervention

1. http://publichealth.lacounty.gov/acd/docs/DayTwo/OutbreakMan.pdf
2. https://www.cdc.gov/eis/field-epi-manual/chapters/Healthcare-Settings.html#fig18-1
3. https://www.cdph.ca.gov/Programs/CHCQ/LCP/CDPH%20Document%20Library/AFL-19-18.pdf

Outbreak Investigation – Question 2

Name one of the 10 outbreak investigation steps.

Outbreak Investigation – Answer

Outbreak Investigation Steps

★ 1. **Verify** the diagnosis

★ 2. **Confirm** the presence of an HAI outbreak

★ 3. **Alert** key partners

★ 4. Case **definition**

★ 5. **Identify** cases

★ 6. Organize data- **person, place, time**

★ 7. Targeted **observations**

★ 8. Formulate & test **hypotheses**

★ 9. IPC **assessment and intervention**

★ 10. Follow up, **communicate** findings

Why do we <u>verify the diagnosis</u> and <u>confirm the presence of an HAI outbreak</u> **before** alerting key partners?

Outbreak Investigation – Answer

Outbreak Investigation Steps

1. Verify the diagnosis

- Correct diagnosis?
- Lab error?
- Changes in surveillance or case definition?

HBsAg **anti-HBc** **anti-HBs**	negative negative negative	Susceptible
HBsAg **anti-HBc** **anti-HBs**	negative positive positive	Immune due to natural infection
HBsAg **anti-HBc** **anti-HBs**	negative negative positive	Immune due to hepatitis B vaccination
HBsAg **anti-HBc** **IgM anti-HBc** **anti-HBs**	positive positive positive negative	Acutely infected
HBsAg **anti-HBc** **IgM anti-HBc** **anti-HBs**	positive positive negative negative	Chronically infected
HBsAg **anti-HBc** **anti-HBs**	negative positive negative	Interpretation unclear; four possibilities: 1. Resolved infection (most common) 2. False-positive anti-HBc, thus susceptible 3. "Low level" chronic infection 4. Resolving acute infection

2. Confirm the presence of an HAI outbreak

- Related vs. Unrelated cause?
- Community associated/acquired?
- Pseudo-outbreak? ★

1. http://publichealth.lacounty.gov/acd/docs/DayTwo/OutbreakMan.pdf
2. https://www.cdc.gov/eis/field-epi-manual/chapters/Healthcare-Settings.html#fig18-1
3. https://www.cdph.ca.gov/Programs/CHCQ/LCP/CDPH%20Document%20Library/AFL-19-18.pdf
4. https://www.cdc.gov/hepatitis/hbv/pdfs/serologicchartv8.pdf

Regulatory Bodies- Question 1

What is CAL-OSHA?

Regulatory Bodies – Answer

- Protection of the worker (guidance to keep workers healthy and safe in the state of California)
- Department of Industrial Relations
  - Division of Occupational Safety and Health ★
- Develops regulations for workplace safety and health
  - Bloodborne Pathogen Standard
  - Aerosol-Transmissible Diseases Standard
  - Respiratory Protection Standard
- Regulations must be <u>as stringent (or more)</u> than federal regulations

Regulatory Bodies- Question 2

Is the CDC a **regulatory** body?

Regulatory Bodies – Answer

Federal	State	Local

• **Centers for Medicare and Medicaid Services (CMS)**
 	
• **Occupational Health and Safety Administration (OSHA)**
	• **California Department of Public Health**
	  • Licensing & Certification
	  • Reportable Diseases and Conditions
	  • Medical Waste
	
	• **Cal-OSHA**
		• **Los Angeles County Department of Public Health**
		  • Environmental Health
		  • Communicable Disease reporting

⭐ Answer: No

Does CMS **require** Skilled Nursing Facilities to have an Infection Preventionist?

Regulatory Bodies – Answer

Infection Control 483.80 Requirements: ★

- Designated Infection Prevention and Control Officer (IPCO) with specialized training
- Infection Prevention and Control Plan (IPCP)

Phase 1	Phase 2	Phase 3
Effective November 28, 2016	Effective November 2017	Effective November 2019
• Isolation should be least restrictive for the resident • Flu vaccination offered each year 10/1–3/31 • Annual review of policies	• Implement antibiotic stewardship	• Identify designated infection prevention lead • Designated infection prevention lead must participate on Quality Assurance Committee

Source: Centers for Medicare & Medicaid Services.
https://www.gpo.gov/fdsys/pkg/FR-2016-10-04/pdf/2016-23503.pdf

6

HSAG HEALTH SERVICES ADVISORY GROUP

What is ONE way you can be an **advocate** for Infection Prevention?

Communication, Education, and Advocacy – Answer

- ★ • Knowledgeable
- ★ • Open to Change
- ★ • Vigilant
- ★ • Vocal
- ★ • Be a Team player

Reminder: It is not just the IP's responsibility to advocate for IP!

Name **at least one** type of effective communication

Communication, Education, and Advocacy – Answer

Diagram of hexagons centered on **Effective Communication** surrounded by: Written Communication, Verbal Communication, Nonverbal Communication, Presentation Skills, Active Listening, Feedback

Which of the following teaching methods, has a **less than 20%** retention rate among adult learners?

- Lecture
- Reading
- Demonstration
- Practice by Doing

Communication, Education, and Advocacy – Answer

★ Lecture	**5%**
★ Reading	**10%**
Audio/Visual	**20%**
Demonstration	**30%**
Discussion Group	**50%**
Practice by doing	**75%**
Teach Others/Immediate Use	**90%**
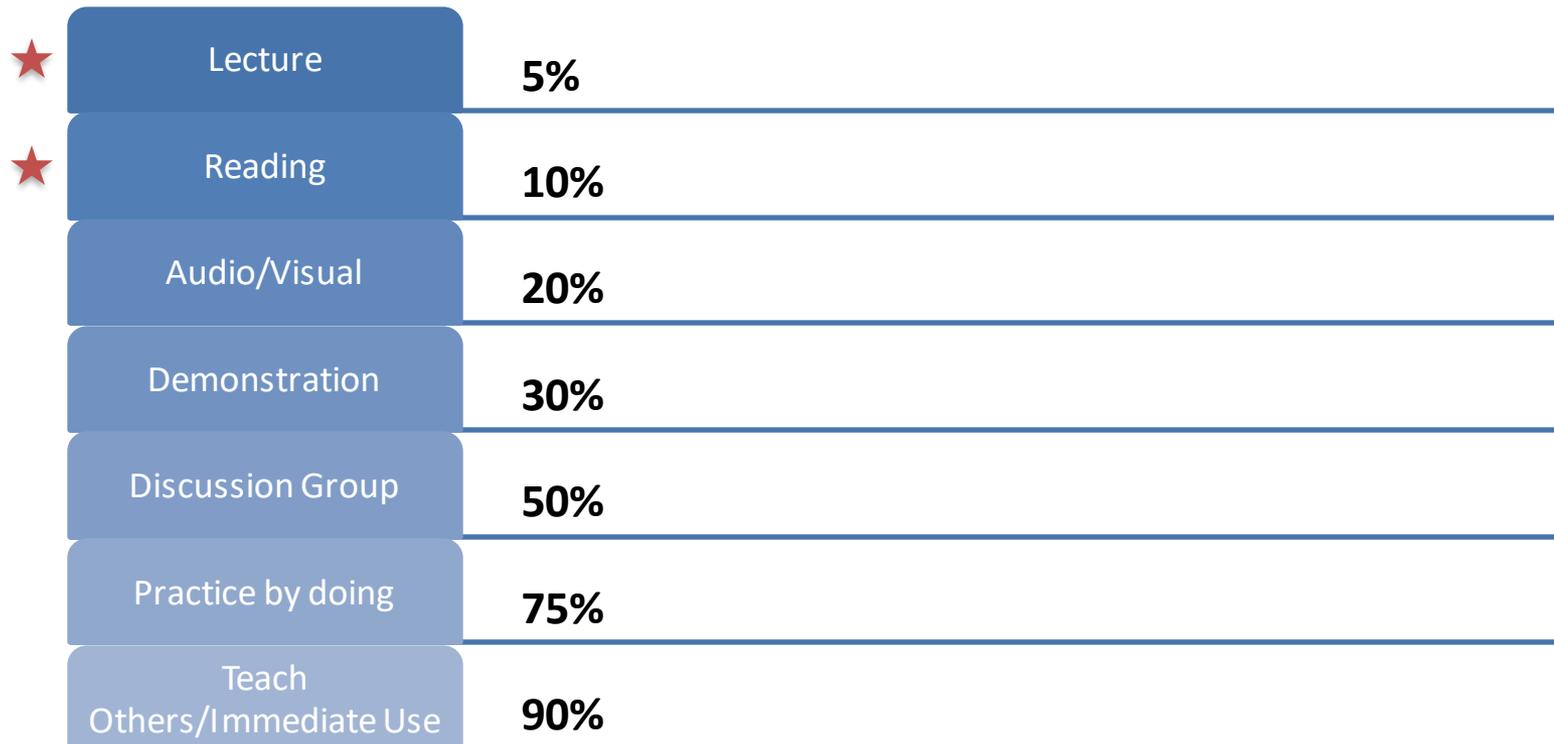
Aside from the IP, who else should be on your facility's water management program team?

Water Management Programs-Legionella – Answer

Minimum:
1. Infection Preventionist
★ 2. Facilities Engineer
★ 3. Administrator
★ 4. Director of Nursing

Ideally also include:
★ 1. Environmental Services
★ 2. Licensing & Accreditation
★ 3. Risk & Quality Management
★ 4. Infectious disease specialist
★ 5. Building owner
★ 6. Outside vendors and consultants, as needed*

How do humans get Legionellosis? How is it spread?

Water Management Programs-Legionella – Answer

- Grows to dangerous levels in large plumbing systems and heating/ventilation/air conditioning (HVAC) systems
- *Legionella* contaminates water and water vapor (steam, mist)
★ - Humans get sick by breathing aerosols or aspirating contaminated water into lungs
- Some groups of people have higher risk

What is the maximum amount of time that you have to report a legionellosis case to LAC DPH in order to avoid "failure to report in a timely fashion"?

Water Management Programs-Legionella– Answer

⭐7 calendar days or less.

When in doubt, report.

What is APIC?

What do they do and what does the acronym stand for?

Professional Development, Resources and Other IP Settings – Answer

★The Association for Professionals in Infection Control and Epidemiology (APIC).

It is the leading professional association for infection preventionists (IPs) with more than 15,000 members. Their mission is to advance the science and practice of infection prevention and control.

Following the APIC Infection Preventionist Competency Model, what is ONE example of continuing education?

Professional Development, Resources and Other IP Settings – Answer
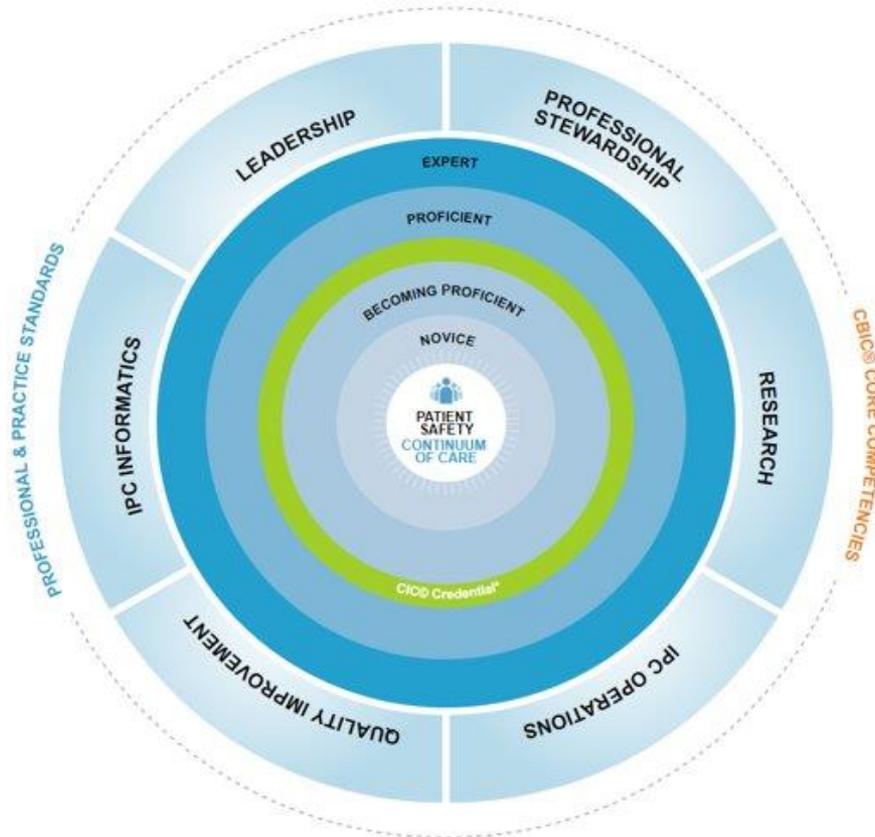
Experience

Time

Role

Membership

Continuing Education

- Certification ⭐
- Degree programs ⭐
- Webinars ⭐
- Conferences ⭐

Networking & Mentorship

Professional Development, Resources and Other IP Settings- Question 3

What is the CIC? What does the acronym stand for?

Professional Development, Resources and Other IP Settings– Answer

★ **CIC** Certification in Infection Prevention & Control

- Standardized examination measure of basic knowledge, skills and abilities expected of professionals working in the field of IPC
- Multiple choice & exam content
- Application process & eligibility requirements

- Recertification via exam or continuing education

CBIC Certification Board of Infection Control & Epidemiology

- Established by APIC in 1981 & Accredited by the National Commission for Certifying Agencies (NCCA)
- Maintain & improve the accredited certification program
- Increase the # of certified IPs
- Establish & maintain partnerships with organizations

Why Certify?

- Earn internationally recognized level of competency in IPC
- Professional credibility & prestige
- Personal satisfaction

Questions

Feedback Survey

Feedback: Ask An IP Leaning and Communication Series (Program 2)

Thank you for participating in "Ask An IP" for Skilled Nursing Facilities with the Los Angeles County Department of Public Health, Acute Communicable Disease Control. Please fill out the four questions below, and we will use your feedback to develop future sessions for this program.

https://forms.office.com/g/aBACVmmCJm