

vSNF Workgroup | Workshop #5

Creating a Risk Assessment and Infection Control Plan

June 15, 2022

Healthcare-Associated Infections Program
Center for Health Care Quality
California Department of Public Health



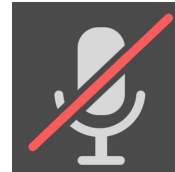
Housekeeping Reminders



This session is
being recorded



If your name does
not show up,
please “right click”
to rename



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speaking



To comment, type
in the Chat or
unmute

Agenda

12-12:05PM	Welcome
12:05-12:20PM	Participant Introductions
12:20-1:25PM	Creating a Risk Assessment or Infection Control Plan
1:25-1:30PM	Next Steps
1:30-2PM	Breakout Session (Optional): One-on-one IP support

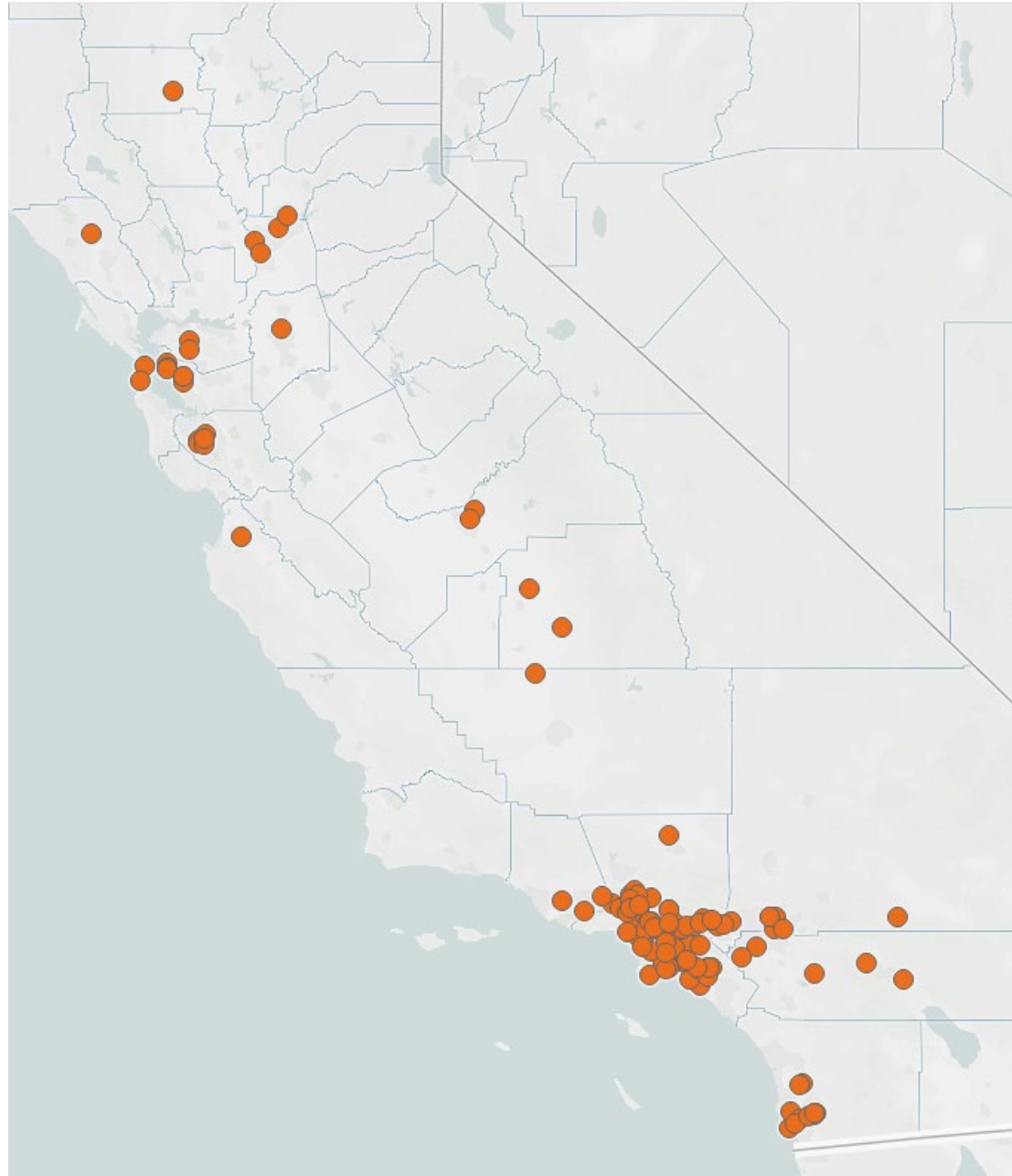
Implicit Bias

- Describes how our unconscious attitudes or judgements can influence our thoughts, decisions, or actions
- Includes involuntary, unintentional perceptions made without awareness
- Occurs as our brains sort information and perceive data to understand our world
- Affects our decisions, contributing to societal disparities
 - Self awareness about implicit bias can promote healthcare diversity and equality
- Learn more about your own implicit bias at [Project Implicit](https://implicit.harvard.edu/implicit/) (implicit.harvard.edu/implicit/)



Participants and Support

- 15 vSNF
- 9 local health departments (Contra Costa, Kern, Long Beach, Orange, Pasadena, Sacramento, San Bernardino, San Diego, San Joaquin)
- Healthcare-Associated Infections (HAI) Program Staff



Introductions – Let's Meet Each Other!

- Rename your Zoom name with Name and Facility/LHD
- Introductions
 - Name
 - Facility
 - Role
 - What is your broad QI project topic (HH, EVS, both, other)
 - What do you hope to learn or gain from participating in the vSNF Workgroup?



CREATING A RISK ASSESSMENT OR INFECTION CONTROL PLAN



Performing a Facility Risk Assessment and Writing an Infection Prevention & Control Plan

vSNF Cohort 2 Workshop #5

Healthcare-Associated Infections Program
Center for Health Care Quality
California Department of Public Health



Objectives

- Describe the purpose of an infection prevention and control (IPC) plan
- Discuss the importance of incorporating the results of an infection control risk assessment into your IPC Plan
- List modifications your IPC Plan should include to accommodate risks present in your patient/resident population

IPC Program

- An IPC program, implemented within a health-care facility, is critical not only to prevent HAIs but also to prepare for and respond to communicable diseases crises.
- The World Health Organization defined a set of essential core components to help plan, organize and implement an IPC program.

[Core components of infection prevention and control programmes in health care. World Health Organization \(WHO\), 2011 \(PDF\)](http://www.who.int/csr/resources/publications/AM_CoreCom_IPC.pdf)
(www.who.int/csr/resources/publications/AM_CoreCom_IPC.pdf)

Elements of an IPC Program

An IPC program should include (but is not limited to):

- Visible, tangible leadership support for IPC
- A written annual risk assessment
- **A written IPC plan based on the annual risk assessment**
- IP policies and procedures
- Education
 - Health care provider (HCP)
 - Patient/resident, family, caregiver education
- Adherence monitoring and feedback
- Antibiotic Stewardship Program

What is an IPC Plan?

- An IPC Plan is a written, time-based strategy to operationalize how the IPC Program's goals will be met in a facility.
 - Addresses gaps and risk factors at the facility.
 - Provides goals and actionable items
- Describes how a facility will meet the IPC program objectives

IPC Plan Includes

- The role of the Infection Preventionist
- Infection prevention goals for the year
- HAI surveillance to be conducted
 - Includes the incidence of infections
 - Such as *C. difficile* infections (CDI), urinary tract infections (UTI), pneumonia, or scabies
- How infections will be recorded and reported
- Policies and procedures to prevent transmission of infection
- How and where adherence monitoring will be performed
- How feedback will be given to HCP

**A written IPC plan is based on the
annual risk assessment**

The Annual Risk Assessment

An IPC plan includes elements identified by the annual risk assessment:

- Infection events
 - Numbers of HAI in the facility over the past year
 - Community rates of infectious disease
 - Facility or local outbreaks
- IPC practice failures
 - Gaps in infection prevention care practices
- Potential risk based on resident population type

Sample Annual Risk Assessment (Infection Events)

INFECTION EVENT	PROBABILITY OF OCCURRENCE (How likely is this to occur?)				LEVEL OF HARM FROM EVENT (What would be the most likely?)				IMPACT ON CARE (Will new treatment/care be needed for)				READINESS TO PREVENT (Are processes/resources in)			RISK LEVEL (Scores ≥ 8 are considered high)
	Score	High 3	Med. 2	Low 1	None 0	Serious Harm 3	Moderate Harm 2	Temp. Harm 1	None 0	High 3	Med. 2	Low 1	None 0	Poor 3	Fair 2	
Facility-onset Infections(s)																
Device- or care-																
Catheter-associated urinary tract infection (CAUTI)																
Central line-associated bloodstream infection (CLABSI)																
Tracheostomy-associated respiratory infection																
Percutaneous-gastrostomy insertion site infection																
Wound infection																
Other (specify):																
Resident-related																
Symptomatic urinary tract infection (SUTI)																
Pneumonia																
Cellulitis/soft tissue <i>Clostridioides difficile</i> infection																
Tuberculosis*																
Other (specify):																
Outbreak-related																
Influenza*																
Other viral respiratory pathogens*																
Norovirus gastroenteritis*																
Bacterial gastroenteritis (e.g., <i>Salmonella</i> , <i>Shigella</i>)																
Scabies																
Conjunctivitis																
Group A <i>Streptococcus</i> *																
MDRO																
Other (specify):																

CDPH HAI Program Webpage, [Sample Annual Risk Assessment](http://www.cdc.gov/longtermcare/excel/IPC-RiskAssessment.xlsx) (Excel)
(www.cdc.gov/longtermcare/excel/IPC-RiskAssessment.xlsx)

* Risk assessment should take into account the frequency of this disease in the community as part of determining probability of occurrence. Data from State/local health department may be informative.

Infection events

IPC practice failures



INFECTION EVENT	PROBABILITY OF OCCURRENCE (How likely is this to occur?)				LEVEL OF HARM FROM EVENT (What would be the most likely?)				IMPACT ON CARE (Will new treatment/care be needed for)				READINESS TO PREVENT (Are processes/resources in)			RISK LEVEL (Scores ≥ 8 are considered high)
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MDRO																
Other (specify):																

Evaluate the risk related to each infection event type:

- Probability of occurrence
 - How likely is the event to occur?
- Level of harm
 - How much harm would occur due to the event?
- Impact on care and prevention strategies
 - Will new treatment be needed for the resident or staff?
- Readiness to prevent
 - Are processes in place to identify or address this event?

CDPH HAI Program Webpage, [Sample Annual Risk Assessment](http://www.cdc.gov/longtermcare/excel/IPC-RiskAssessment.xlsx) (EXCEL) (www.cdc.gov/longtermcare/excel/IPC-RiskAssessment.xlsx)

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The risk score for each infection event will vary, based on your facility's characteristics

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Other (specify):																
* Risk assessment should take into account the frequency of																

- This facility utilizes many of urinary catheters
- They have very few tracheostomy patients. They stabilize, then transfer them to a sister facility
- Consider how these risks would be addressed in the facility's infection control plan

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IPC PRACTICE FAILURES	PROBABILITY OF OCCURRENCE				IMPACT ON RESIDENT/STAFF SAFETY				CAPACITY TO DETECT			READINESS TO PREVENT			RISK LEVEL
	(How likely is this to occur?)				(Will this failure directly impact safety?)				(Are processes in place to identify)			(Are policies, procedures, and res)			(Scores ≥ 8 are cons)
Score	High	Med.	Low	None	High	Med.	Low	None	Poor	Fair	Good	Poor	Fair	Good	
	3	2	1	0	3	2	1	0	3	2	1	3	2	1	
Care activity															
Lack of accessible alcohol-based hand rub															
Lack of accessible personal protective equipment (PPE)															
Inappropriate selection and use of PPE															
Inadequate staff adherence to hand hygiene															
Inadequate staff adherence to glove and gown use when resident in Contact Precautions															
Inadequate staff adherence to facemask use when resident in Droplet Precautions															
Other (specify):															
Other (specify):															
Occupational health															
Low influenza immunization rates among staff															
Lack of notification of employee illness or working sick															
Low compliance with annual tuberculosis (TB) screening among staff															
Other															

Evaluate the risk related to each IPC practice failure:

- Probability of occurrence
 - How likely is the event to occur?
- Impact on patients/residents or staff's safety
 - Will this failure directly impact safety?
- Capacity to detect
 - Are processes in place to identify this failure?
- Readiness to prevent?
 - Are policies, procedures, and resources available to address this failure?

IPC practice failures

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Other															

Adapt the spreadsheet to factor in new IPC infection events or IPC practices (such as COVID-19 pandemic or PPE shortages)

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IPC practice failures

Annual Risk Assessment (SNF Infection Events)

Numbers of HAI in a skilled nursing facility (vSNF) over the past year

- Device-related HAI events
 - Catheter-associated urinary tract infections (CAUTI)
 - Ventilator-Associated Pneumonia (VAP)
 - Central line-associated bloodstream infection (CLABSI)
 - Percutaneous-gastrostomy insertion site infections
- Wound infections
- Pneumonia
- Cellulitis/soft tissue infection

Not an all
inclusive
list!

Annual Risk Assessment (Infection Events)

Community and/or facility incidence or outbreaks

- Tuberculosis
- *Candida auris*
- Carbapenem-resistant organisms (CRO)
- Measles
- *Clostridioides difficile*
- Influenza
- COVID-19
- Scabies

Annual Risk Assessment (IPC Practice Failures)

Gaps in infection prevention care practices such as hand hygiene, Standard and Transmission-based precautions, environmental cleaning and disinfection

- Resource limitations
 - Personal protective equipment (PPE)
 - Staffing
- Adherence monitoring issues
 - Poor hand hygiene
 - Ventilator Associated Pneumonia (VAP) Prevention
 - Improper use of PPE

Annual Risk Assessment (IPC Practice Failures)

Occupational Health

- Low staff immunization rates
 - COVID-19 or influenza
- Low TB screening compliance
- Poor compliance with occupational health policy
 - Limited notification of employee illness
 - Staff working while sick

Annual Risk Assessment (IPC Practice Failures)

Patient/resident or visitor risks

- Immunization rates (low)
 - Such as Influenza, COVID-19, and pneumococcal
- TB screening rates
- Facility Policy education and compliance
 - Hand Hygiene
 - Respiratory Etiquette
 - Other
- Visitors visiting while sick

Annual Risk Assessment (IPC Practice Failures)

Environmental Factors

- Environmental Protection Agency (EPA) approved cleaning and disinfection products
- Appropriate cleaning and disinfection agent
- High touch surface cleaning
- Prevention of cross-contamination of surfaces
- Cleaning practices
 - high to low
 - clean to dirty
- Daily and terminal cleaning practices

Annual Risk Assessment (IPC Practice Failures)

Medical Equipment

- Medication and sharps safety management
- Cleaning and disinfection of devices
- Proper equipment storage and transport

Antibiotic Stewardship

- Program leadership
- Policies and procedures
- Education
 - Staff, patient/resident, family

Annual Risk Assessment (IPC Practice Failures)

Potential risk based on patient/resident population type

- Consider risks based on resident characteristics
 - Level of care required?
 - Immunocompromised?
 - Invasive device use?
 - Ventilator
 - Central line
 - Urinary catheter
 - Patient/resident resources and demographics?

Annual Risk Assessment (Gap Analysis)

Local Community

- Community rates of infectious disease such as COVID-19, MDRO's, tuberculosis, influenza, and novel pathogens
 - Review local public health reports for these data

Annual Risk Assessment (Gap Analysis)

Identify gaps in HCP Education

- Job-specific infection prevention training
- New hire and annual training
 - Hand hygiene
 - Standard and Transmission-based precautions
 - Bloodborne pathogen exposure
 - Environmental cleaning
 - Linen handling
 - Hazardous waste disposal
- Additional training when gaps in care practice adherence or increased infection rates noted

Annual Risk Assessment (Gap Analysis)

Are there gaps in patient/resident, family, caregiver education?

- Appropriate infection prevention education for patient/residents, family members, visitors, and others included in the caregiving network
 - Include:
 - How infections are spread
 - How they can be prevented
 - What signs and symptoms should prompt evaluation
 - Instructional materials that address varied levels of education, language, comprehension, and cultural diversity

Annual Risk Assessment (Gap Analysis)

Identify gaps in your occupational health program:

- Vaccinations:
 - Influenza
 - COVID-19
 - Others (such as MMR, Varicella)
- Respirator fit testing
- TB testing
- Infectious disease exposure investigations
- Post-exposure management

Annual Risk Assessment (Gap Analysis)

Identify gaps in your occupational health program:

- Occupational health Counseling
 - Infectious disease exposure risk
 - Work restriction
 - Latex allergies
- Compliance with CA regulation
 - [Bloodborne Pathogen Standard](http://www.dir.ca.gov/title8/5193.html)
(www.dir.ca.gov/title8/5193.html)
 - [Airborne Transmissible Disease Standard \(PDF\)](http://www.cdph.ca.gov/Programs/CCDPHP/DEODC/OHB/CDPH%20Document%20Library/ATD-Guidance.pdf)
(www.cdph.ca.gov/Programs/CCDPHP/DEODC/OHB/CDPH%20Document%20Library/ATD-Guidance.pdf)

Sample Infection Control Plan

Content of an Infection Prevention and Control Plan

- I. Facility Infection Prevention Risk Assessment
 - A. Use a template
 - B. Size, type, scope of services, procedures, surveillance data, geography, community
 - C. Patient population
 - D. Personnel (IP must have education in IP)
 - E. List prioritized risks
- II. Description of Infection Prevention and Control Program
 - A. Authority
 - B. Scope (must be organization-wide)
 - C. Personnel (number, qualifications, etc.)
 - D. Resources (computers/references/educational opportunities/ Infection Preventionist's professional activities/etc.)
- III. Goals and Objectives
 - A. Describe each broad goal
 - B. List at least one specific measurable objective for each goal- who, what, when, where, how
- IV. Strategies to reduce risks for each goal
 - A. Interventions associated with:
 1. Procedures
 2. Devices
 3. Medical equipment
 - B. Policies and procedures including Employee Health

Content of an Infection Prevention and Control Plan

Content of an Infection Prevention and Control Plan (page 2 of 2)

- V. Surveillance- focus on high-volume, high risk and problem prone procedures
 - A. Risk assessment
 - B. Plan and description of monitored indicators
 1. Outcome measures- SSIs, etc.
 2. Process measures- instrument/scope processing, etc.
 3. Antibiotic resistant organisms- MRSA, VRE, ESBLs, CRE, etc.
 4. Communicable disease reporting to health dept.
 5. Outbreak investigation plan
 6. Antibigram
 7. Reports (to whom sent and how often)
- VI. TB Exposure Control Plan (can be separate policy) CDC has an evaluation tool on their website
 - A. Risk assessment
 - B. Plan to reduce risk of transmission (plan can state that patients with TB or suspected TB are not seen in the ASC and if a patient presents with signs and symptoms of TB, they are immediately referred to the appropriate community resource.)
- VII. Exposure Control Plan for Bloodborne Pathogens (can be separate policy) follow OSHA sample
 - A. Include sharps safety and injury prevention
 - B. Log of sharps injuries/bloodborne pathogens exposures
- VIII. Performance improvement
 - A. Use goals and measurable objectives to improve performance
 - B. Be sure staff is aware of what is being monitored and why those indicators were chosen
- IX. Emergency management and planning
 - A. Coordinate with community emergency management

[Sample ICP Plan](#) (PDF)

(apic.org/Resource_/TinyMceFileManager/Education/ASC_Intensive/Resources_Page/Content_of_an_Infection_Prevention_and_Control_Plan.pdf)

Summary

An IPC plan:

- Explains how a facility will meet the IPC program objectives
- Includes findings from the annual risk assessment
- Outlines the role of the IP and the surveillance to be conducted
- Describes how infections will be recorded or reported
- Outlines strategies to prevent infections
- Defines adherence monitoring practices
- Explains how feedback will be given to the HCP

Case Scenario



You are a new infection preventionist (IP) working at a skilled nursing facility with a vSNF unit. You have not created an infection prevention and control (IPC) plan for the facility, but you have a copy of the previous IP's IPC plan from last year.

What do you need to do to ensure your facility has a current IPC plan?

- a. Nothing, facilities only need to update the IPC plan every three years
- b. Use the previous IP's plan. Most of the information is still pertinent
- c. Ignore the old plan and start a new IPC plan using a IPC plan template
- d. Review the previous IPC plan and use the template to create new, comprehensive plan for the facility

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 - c. *Ignore the old plan and start a new IPC plan using a IPC plan template*
- ✓ Review the previous IPC plan and use the template to create new, comprehensive plan for the facility

You are comparing the ICP template to the previous IPC plan. It appears that the previous IP used the same template as the basis for their IPC plan.

How should you update the previous IPC plan?

- a. Include findings from a new risk assessment
- b. Outline how adherence monitoring and staff feedback will occur
- c. Update the IPC plan based on annual infection prevention goals
- d. Include policies and procedures addressing infection transmission, recording, and reporting
- e. All of the above
- f. Use the current plan; there is no need to make any changes

How should you update the previous IPC plan?

- a. Include findings from a new risk assessment
- b. Outline how adherence monitoring and staff feedback will occur
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- f. *Use the current plan; there is no need to make any changes*

What type(s) of infection prevention program(s) use an IPC Plan?

- a. Only IPC programs in acute care facilities
- b. Only IPC programs in skilled nursing facilities
- c. Only outpatient IPC programs, such as hemodialysis
- d. All IPC programs should develop an IPC plan each year

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- b. *Only IPC programs in skilled nursing facilities*
- c. *Only outpatient IPC programs, such as hemodialysis*
- ✓ All IPC programs should develop an IPC plan each year

While you are completing the facility risk assessment plan, you notice that the template lists many infection event topics that are not applicable to your facility. What should you do?

- a. Continue to complete the risk assessment plan, skipping over items that are not applicable
- b. Complete all items on the template
- c. Adapt the template to address items applicable to your facility
- d. Search for a new facility risk assessment that is more applicable to your setting

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- b. *Complete all items on the template*
- ✓ **Adapt the template to address items applicable to your facility**
- d. *Search for a new facility risk assessment that is more applicable to your setting*

While you are completing your IC Risk Assessment you note that the template does not address several of the IPC Failures you have experienced, such as COVID-19 infections or PPE shortages. What should you do?

- a. Address only the items listed on the IC Risk Assessment template
- b. Add the new issues to the IC Risk Assessment form
- c. Purchase a new IC Risk Assessment
- d. Wait until the local health department adds these issues to your IPC Plan

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- ✓ Add the new issues to the IC Risk Assessment form
- c. *Purchase a new IC Risk Assessment*
- d. *Wait until the local health department adds these issues to your IPC Plan*

While completing your gap analysis, what resources can you use to learn about infection control events that are occurring in your local community (such as outbreaks or community rates of infectious disease?) Select all that apply.

- a. CAHAN Reports
- b. Local health department (LHD) website
- c. In-person reports from your nursing staff
- d. Contact person at your local health department
- e. LHD publications
- f. Information from a community blogger

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- ✓ CAHAN Reports
- ✓ Local health department (LHD) website
 - c. *In-person reports from your nursing staff*
- ✓ Contact person at your local health department
- ✓ LHD publications
 - f. *Information from a community blogger*

WELL DONE!

Questions?

For more information, please contact any
HAI Liaison IP Team member

Or email

HAIProgram@cdph.ca.gov

Timeline

- **July 13:** MDRO Case Studies
- **August 10:** Pneumonia Prevention
- **September 14:** Infection Surveillance
- **October 12:** Quality Improvement Project – Part 1
- **November 9:** Interfacility Transfer Communication (Joint meeting with LTACH partners)
- **Through October 2023:** Continued monthly workshops and QI project implementation

Next Steps

- Fill out the **course evaluation** (Required for CEU)
 - Schedule your **onsite baseline assessment** (Goal: complete by June 30, 2022)
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 - Join us for our **next workshop on Wednesday, July 13, 2022, 12-1:30PM: MDRO Case Studies**
 - Access resources** on our [vSNF webpage](http://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/vSNF.aspx)
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QI Project Workbook

- Instructions and materials to plan and implement a QI project within your facility
- Guidance on how to measure outcomes

Ventilator-Equipped
Skilled Nursing Facility (vSNF)
Workgroup to Prevent Multidrug
Resistant Organisms (MDRO)

Workbook

The vSNF Workgroup to Prevent MDRO (vSNF Workgroup) aims to support and equip California vSNF with tools to address the challenges associated with MDRO infections and safely care for their residents, and to ensure that core infection prevention practices are in place to prevent MDRO emergence and transmission in vSNF. This workbook contains information, instructions, and materials to plan and implement a quality improvement (QI) project within the vSNF setting, and guidance on how to measure outcomes.



**Training
and
Education:
Staff
Training
Slides /
Flipchart**

HAND HYGIENE



Environmental Cleaning and Disinfection



Reminders in the Workplace: Hand Hygiene Posters

How to Handwash?

WASH HANDS WHEN VISIBLY SOILED! OTHERWISE, USE HANDRUB

Duration of the entire procedure: 40-60 seconds



0 Wet hands with water;



1 Apply enough soap to cover all hand surfaces;



2 Rub hands palm to palm;



3 Right palm over left dorsum with interlaced fingers and vice versa;



4 Palm to palm with fingers interlaced;



5 Backs of fingers to opposing palms with fingers interlocked;



6 Rotational rubbing of left thumb clasped in right palm and vice versa;



7 Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa;



8 Rinse hands with water;



9 Dry hands thoroughly with a single use towel;



10 Use towel to turn off faucet;



11 Your hands are now safe.



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SAVE LIVES
Clean Your Hands

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How to Handrub?

RUB HANDS FOR HAND HYGIENE! WASH HANDS WHEN VISIBLY SOILED

Duration of the entire procedure: 20-30 seconds



1a Apply a palmful of the product in a cupped hand, covering all surfaces;



2 Rub hands palm to palm;



3 Right palm over left dorsum with interlaced fingers and vice versa;



4 Palm to palm with fingers interlaced;



5 Backs of fingers to opposing palms with fingers interlocked;



6 Rotational rubbing of left thumb clasped in right palm and vice versa;



7 Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa;



8 Once dry, your hands are safe.



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Reminders in the Workplace: *Who Cleans What?* List



Healthcare-Associated Infections Program Environmental Cleaning and Disinfection – Who Cleans What?

Everyone is responsible for cleaning and disinfection of the healthcare environment. Keep an updated list of *who cleans what* in your policy. Customize the below template to correspond to your facility policy (e.g., add/delete roles in the top row, add/delete items in the left column). Mark the appropriate columns below with an “X” to designate responsibility, and denote frequency of cleaning (e.g., daily) or when to clean (e.g., before use). Revisit the list on a regular basis to ensure accuracy. Keep this list on cleaning carts, etc., for quick reference.

Date Last Verified:

Who is responsible for cleaning/disinfection of:	Housekeeping	CNA	LVN	RN	RT	PT/OT	Other
ABHR dispenser							
Bathroom							
Bedrail							
Blood pressure machine							
Call button							
Charting area							
Feeding pump							
Floor							
Floor, with large spill							
Glucometer							
In-room computer/keyboard							
IV pole							
IV pump							

Next Steps

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Questions?

Contact Erin Garcia at Erin.Garcia@cdph.ca.gov