Imperial County
Antimicrobial Resistance Prevention Collaborative
May 22, 2019

Erin Epson, Tracy Lanier, Teresa Nelson, Erin Garcia
Healthcare-Associated Infections Program
Center for Health Care Quality
California Department of Public Health
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-8:40AM</td>
<td>Welcome and Introductions</td>
</tr>
<tr>
<td>8:40-10:10AM</td>
<td>Standard and Transmission-Based Precautions Across the Continuum of Care</td>
</tr>
<tr>
<td>10:10-10:30AM</td>
<td>Activity: <em>Case Scenarios</em></td>
</tr>
<tr>
<td>10:30-10:45AM</td>
<td>Next Steps</td>
</tr>
<tr>
<td>10:45-11AM</td>
<td>Break</td>
</tr>
<tr>
<td>11-12:30PM</td>
<td>Train the Trainer Program: Injection Safety for Medical Assistants</td>
</tr>
</tbody>
</table>
WELCOME AND INTRODUCTIONS
STANDARD AND TRANSMISSION-BASED PRECAUTIONS ACROSS THE CONTINUUM OF CARE
Objectives

• Describe all 6 elements of Standard precautions
• Describe Transmission-based (isolation) precautions
• Review adherence monitoring results and tools for select Standard and Transmission-based precautions care practices
HAI Prevention – What Works?

• Recommendations are evidence-based
• Require careful evaluation of available studies, including risks and benefits
• Where scientifically valid studies are lacking, consensus expert opinion may also be considered
Care Practices Should Prevent Infection

• Avoid introducing pathogens into sterile body sites, such as during placement of a medical device or during surgery
  • Avoid introducing patient’s own flora into a sterile site
  • Avoid introducing any pathogens acquired in the hospital
Care Practices Should **Prevent Infection** - Discussion

Think about your health care clinic:

• What are some procedures you do in the clinic that can introduce the clients' own flora into a sterile body site?

• What steps can you take before a procedure to prevent an infection?

Examples:

• Needles can introduce the clients own flora into the skin

• Cleaning the skin with an alcohol wipe can reduce flora and prevent infection
Care Practices Should Prevent Transmission

• Avoid the transfer of pathogens from person-to-person
  • Avoid Health Care Personnel (HCP)-to-patient transmission, such as via contaminated hands of HCP
  • Avoid patient-to-HCP transmission of infectious diseases, such as by using appropriate isolation precautions
Why Should We Use Standard and Transmission Prevention Practices?

- Basic practices that apply to all patient care, regardless of a patient’s suspected or confirmed infectious state
- Apply to all settings where care is delivered
- Protect patients and HCP
- Prevent HCP and the environment from transmitting infections to other patients

(https://www.cdc.gov/hicpac/pdf/core-practices.pdf)
What are the Elements of Standard Precautions?

Practices to use all the time, in all settings:
1. Hand hygiene
2. Environmental cleaning and disinfection
3. Injection safety and medication safety
4. Risk assessment and use of appropriate personal protective equipment (PPE) based on activities being performed
   • PPE include gloves, gowns, and face masks
5. Minimizing potential exposures
   • Example: Using respiratory hygiene and cough etiquette
6. Reprocessing of reusable medical equipment between each patient and when soiled
Standard Precautions Element 1: Hand Hygiene

• Hands of HCP are the most common mode of transmission of pathogens

Many HAI are preventable with hand hygiene!
Hand Hygiene Efforts

- Hand hygiene has been known to prevent spread of infection for 150 years
- CDC, the World Health Organization, and many other authorities have promulgated hand hygiene guidelines
- Healthcare facilities have hand hygiene policies and procedures
- Lots of studies, intervention trials, observation and measurement

Still, hand hygiene adherence in healthcare is inconsistent. There are many opportunities for improvement.
Hand Hygiene Terminology

- **Hand hygiene**: Performing handwashing, antiseptic handwash, alcohol-based hand rub, or surgical hand hygiene/antisepsis
- **Handwashing**: Washing hands with plain soap and water
- **Antiseptic handwash**: Washing hands with water and soap or other detergents containing an antiseptic agent
- **Alcohol-based hand rub**: Rubbing hands with an alcohol-containing preparation
- **Surgical hand hygiene / antisepsis**: Extending the period of hand hygiene with antiseptic agent

Indications for Hand Hygiene

- **Wash hands** with soap and water:
  - When hands are contaminated
  - When hands are soiled
  - Before and after eating
  - After toileting

- **If hands are not visibly soiled**, use an **alcohol-based hand rub** for routinely decontaminating hands

- During outbreaks and if infection rates are high, consider using only handwashing with soap and water
  - *Examples*: *C. difficile* infections, Norovirus
Indications for Hand Hygiene (continued)

Before
• Patient contact
• Donning gloves
• Accessing devices
• Giving medication

After
• Contact with a patient’s skin or environment
• Contact with body fluids or excretions, non-intact skin, wound dressings
• Removing gloves
Efficacy of Hand Hygiene Products

- Plain Soap: Good
- Antimicrobial Soap: Better
- Alcohol-based handrub*: Best

*less effective in presence of organic material
Recommended Hand Hygiene Technique

Alcohol-Based

Hand Rub

• Apply to palm of one hand, rub hands together covering all surfaces until dry

• Volume based on manufacturer recommendation

Handwashing

• Wet hands with water, apply soap, rub hands together, paying close attention to between the fingers and nails, for at least 15 seconds

• Rinse and dry with disposable towel

• Use towel to turn off faucet
Nails

• Nail tips should be kept to ¼ inch in length
• Polish may be worn but must be intact (not chipped)
• Artificial nails and gel polishes should not be worn by HCP
Gloving and Hand Hygiene

• Always wear gloves when contact with blood or infectious material is possible

• Remove gloves after caring for each patient
  • Remove gloves, perform hand hygiene, and reglove when transitioning care from a soiled to a clean area

• Perform hand hygiene upon removing gloves

• Do not wash gloves

• Do not reuse gloves
How to Improve Hand Hygiene Compliance

• Make hand hygiene a facility priority
  • Involve a multidisciplinary team
  • Involve a physician champion
• Encourage patients and families to remind HCP to perform hand hygiene
• Make hand rubs easily available (example: place at entrance to patient room or at bedside)
• Monitor adherence to hand hygiene and provide feedback of gaps
  • Train secret shoppers
  • Explore electronic monitoring systems
Standard Precautions Element 2: Environmental Cleaning and Disinfection

• Require routine cleaning of environmental surfaces as indicated by level of patient contact and degree of soiling
  • Clean high touch areas more frequently
  • Promptly clean and decontaminate spills of blood and other potentially infectious materials
• Select **EPA-registered disinfectants** with activity against pathogens most likely to contaminate the patient area
  • Follow manufacturers’ instructions for proper cleaning and disinfecting products
Contaminated Environmental Surface Leading to Patient Infection

1. Surface must become contaminated by contact or droplet spread
2. Organism must survive on the surface
3. Surface must be touched by another person who picks up sufficient inoculum
4. Person must omit or poorly perform hand hygiene
5. Person must transmit the organism to another person or object in sufficient quantity to cause disease

The Inanimate Environment. , Bennett & Brachman’s Hospital Infections 6th Ed. 2014
Chou. APIC Text of Infection Control & Epidemiology. 2013
HICPAC /CDC Isolation Guidelines. 2007
Standard Precautions Element 3: Injection Safety

• Injection safety protects patients
• Injection safety protects HCP
Hepatitis B and C Outbreaks Associated with Unsafe Infection Practices

• 61 outbreaks of hepatitis B and C in non-hospital settings in the U.S. were reported to CDC in 2008-2017

• Outbreaks were associated with injection safety breaches:
  • Reuse of syringes
  • Contaminated medication vials used for more than one patient
  • Use of single-dose vials for more than one patient

CDC, 2015
Aseptic Technique for the Preparation and Administration of Injected Medications

• Perform hand hygiene

• Draw up medications in a designated clean medication area
  • Area must not be adjacent to areas where potentially contaminated items are placed
Needles and Syringes: One Time Use ONLY

- **Needles** should be used for only **one patient**
- **Syringes** should be used for only **one patient**
  - Includes:
    - Manufactured prefilled syringes
    - Cartridge devices
    - Insulin pens

[CDC One and Only Campaign](http://www.oneandonlycampaign.org)
Injection Safety for Diabetic Patients

• Insulin pens containing more than one dose of insulin are only meant for one person

• For glucose testing, clean the glucometer after *every* use
Always Clean the Tops of Medication Vials Before Entry

- Cleanse medication vial access diaphragms using friction with 70% alcohol
- Allow the alcohol to **dry** before inserting a device into the vial
- Clean the tops of vials with alcohol even if they have lids or caps
  - Manufacturers guarantee that medications and solutions are sterile
  - They do not guarantee that the outside of the container or medication vial is sterile
Single-Dose Vials: One Patient and Only Once

• Carefully read the vial label to determine if it is single-use
• Never enter a medication vial with a used syringe or needle
• If the vial says “single-dose” and has already been accessed, throw it away

• Single use medications should not be stored for future use
• Discard according to the manufacturer’s expiration date
• When in doubt, throw it out!

CDC Injection Safety
(www.cdc.gov/injectionsafety)
Multi-Dose Vials

- Limit the use of multi-dose vials
  - When possible, dedicate them to a single patient
  - A multi-dose vial is recognized by its FDA-approved label
- Discard multi-dose vials when the beyond-use date has been reached
- Any time the sterility of the vial is in question, throw it out!

CDC Injection Safety
(www.cdc.gov/injectionsafety)
Multi-Dose Vials (continued)

- Multi-dose vials used for more than one patient must be kept in a centralized medication area
- Multi-dose vials should never enter the immediate patient treatment area (examples: patient rooms, operating rooms)
- Multi-dose vials should be dated by the HCP when first opened and discarded within 28 days (unless the manufacturer specifies a different expiration date for an opened vial other than 28 days)
Use Intravenous Solution Bags for One Patient Only

• Do not use bags of intravenous solution as a common source of supply for more than one patient

• Everything from the medication bag to the patient's IV catheter is a single interconnected unit
Wear Facemasks for Epidural Procedures

• Wear a facemask when placing a catheter or injecting material into the epidural or subdural space

Examples:
• Myelogram
• Epidural or spinal anesthesia
Sharps Safety

• Sharps injuries occur most frequently due to **inappropriate sharps disposal** by HCP:
  • Insufficient maintenance of sharps containers in every area
  • Improper design of sharps disposal container
  • Inappropriate placement of sharps disposal container
  • Overfilling sharps disposal container
Sharps Disposal Container Requirements

• Must be puncture-resistant, durable during installation and transport, and of appropriate size and shape for the task
• Must be clearly visible
• Must be easy to access by being placed in an upright position and easy to operate
• Must have ease of storage and assembly, require minimal worker training requirements, be easy to operate, and have a flexible design

Management of Needle Sticks and Other Exposures to Blood or Other Bodily Secretions

• Wash the needle stick site or cut with soap and water until clean
• Flush splashes to the nose, mouth, or skin with water
• Irrigate eyes with clean water, saline, or sterile irrigant
• Immediately report the incident to your supervisor
• Immediately seek medical evaluation per your facility's policy
Injection Safety Checklist

- Use to assess your facility’s injection safety practices
- Download and share with all staff

CDC Injection Safety Checklist
(www.cdc.gov/injectionsafety/PDF/SIPC_Checklist.pdf)
Join the CDC One & Only Campaign

• A partnership of healthcare organizations, patient advocacy organizations, industry partners, and other public health partners

• Commit to injection safety!

[links to CDC One & Only Campaign]

(CDC One & Only Campaign)
(https://www.cdc.gov/injectionsafety/1anonly.html)
Standard Precautions Element 4: Personal Protective Equipment

• HCP need immediate **access** to PPE and **training** to be able to select proper PPE based on
  • Nature of the patient interaction
  • Potential for exposure to blood, body fluids or other infectious material

• Types of PPE
  • Gloves
  • Gowns
  • Face masks and respirators
  • Goggles and face shields
PPE - Gloves

- Wear gloves when it can be reasonably anticipated that you may have hand contact with
  - Blood or other potentially infectious material
  - Mucous membranes
  - Non-intact skin
  - Potentially contaminated skin
  - Potentially contaminated equipment
PPE - Gowns

• Wear a gown during procedures and activities that could cause contact with blood, body fluids, secretions, or excretions
  • To protect skin
  • To prevent soiling of clothing
  • Wear a gown according to the need anticipated by the task performed
PPE - Masks and Protective Shields

• Use protective eyewear and a mask, or a face shield
  • To protect the mucous membranes of the eyes, nose and mouth
  • During procedures and activities that could generate splashes or sprays of blood, body fluids, secretions and excretions
• Select masks, goggles, face shields, and combinations of each according to the need anticipated by the task performed
PPE Removal

• Remove and discard PPE, other than respirators, upon completing a task **before** leaving the patient’s room or care area
  • If a respirator is used, it should be removed and discarded (or reprocessed if reusable) after leaving the patient room or care area and closing the door
• Do **not** use the same gown or pair of gloves for care of more than one patient

• Remove and discard disposable gloves upon completion of a task or when soiled during the process of care
  • Do **not** wash gloves for the purpose of reuse
Standard Precautions Element 5: Minimize Potential Exposure

- Use \textit{respiratory hygiene and cough etiquette}

- Prompt patients/residents and visitors with symptoms of respiratory infection to contain their secretions and perform hand hygiene after contact with respiratory secretions
  - Provide tissues, masks, hand hygiene supplies and instructional signage or handouts at point of entry and throughout the facility

- If possible, separate patients/residents with respiratory symptoms as soon as possible
Standard Precautions Element 6: Reprocessing of Reusable Medical Devices

• Clean and reprocess (disinfect or sterilize) reusable medical equipment prior to use on another patient or resident

  Example:
  • Blood glucose meters and other point-of-care devices
  • Blood pressure cuffs
  • Oximeter probes
  • Surgical instruments
  • Endoscopes

• Maintain separation between clean and soiled equipment to prevent cross contamination
Standard Precautions Summary

- Standard precautions are basic practices that apply to all care settings and all patient care (regardless of a patient’s suspected or confirmed infectious state)

<table>
<thead>
<tr>
<th>Hand hygiene</th>
<th>Respiratory hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection safety</td>
<td>Cleaning and disinfection</td>
</tr>
<tr>
<td>Assess risk / use PPE</td>
<td>Reprocessing equipment</td>
</tr>
</tbody>
</table>
What are Transmission-Based Precautions?

- Isolation guidance based on modes of disease transmission
- Updated by CDC, 2007
  - Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings
- Describes care precautions for infected/colonized patients/residents
- CMS requires all hospitals and skilled nursing facilities to implement Transmission-based precautions if needed
  - **Hospitals** - Part 42 Subpart C - Basic Hospital Functions Section § 482.42
  - **SNF** - Part 43 Subpart B - Long Term Care Facilities Section § 483.65
Transmission-Based Precautions Training

- Hospitals and SNF expected to train staff on
  - Disease mode of transmission
  - Correct use of Transmission-based Precautions and PPE
- Train staff upon hire and at least annually
- Training should include assessment of competency
Types of Transmission-Based Precautions

1. **Contact** precautions
   - Mode of transmission: direct contact with patient or contaminated environment
   - Examples of use: *C. difficile*, scabies

2. **Droplet** precautions
   - Mode of transmission: respiratory droplets
   - Examples of use: Influenza, pertussis

3. **Airborne** precautions
   - Mode of transmission: small aerosolized particles
   - Examples of use: Tuberculosis, measles
Why are Transmission-Based Precautions Important?

Using proper Transmission-based precautions prevents the spread of infection from

• Patient/resident to HCP
• Patient/resident to HCP to patient/resident
• Patient/resident to patient/resident
Implementation of Transmission-Based Precautions

• Implement Transmission-based precautions
  • Based on the patient’s clinical presentation and **likely** infection diagnoses (examples: syndromes suggestive of transmissible infections such as diarrhea, meningitis, fever and rash, respiratory infection)
  • As soon as possible after the patient enters the healthcare facility (including reception or triage areas in emergency departments, ambulatory clinics, or physicians’ offices)
Implementation of Transmission-Based Precautions (continued)

- To the extent possible, place patients who may need Transmission-based precautions into a single-patient room while awaiting clinical assessment
- Notify accepting facilities and the transporting agency about suspected infections and the need for Transmission-based precautions when patients are transferred
- Adjust or discontinue precautions when more clinical information becomes available (example: laboratory results)
Contact Precautions

• Intended to prevent transmission of infectious agents (examples: *C. difficile*, MDRO colonized wound, scabies) via contact with a patient or contaminated environment

  • Used for epidemiologically important microorganisms
  
  • Places a barrier between the HCP and infectious agent
  
  • Used in addition to Standard precautions
Contact Precautions (continued)

Includes:

• Gown and gloves donned prior to entry into room and discarded prior to exit
  • Hand hygiene prior to donning gloves and after removing gloves
• Placing patients in single rooms (preferred)
  • Alternatives include spatial separation or cohorting
Droplet Precautions

• Intended to prevent transmission of pathogens (examples: Influenza, pertussis, mumps, Meningococcal disease) via respiratory or mucous membrane contact with respiratory secretions
  • No special air handling or ventilation required
  • Used in addition to Standard precautions
Droplet Precautions (continued)

Includes:

• Surgical or procedure mask donned prior to entry into room and discarded prior to exit

• Placing patients in single rooms (preferred)

• Transporting patient in a surgical mask
Airborne Precautions

• Intended to prevent transmission by inhalation of infectious agents (examples: Herpes zoster, varicella zoster, tuberculosis) that can remain suspended in the air

• Requirements include:
  • Increased ventilation rate
  • Air exhausted directly to the outside or through HEPA filtration
  • Facility respiratory protection program (examples: education, fit-testing)

• Use in addition to Standard precautions
Airborne Precautions (continued)

Includes:

• Respirator (N-95 or PAPR) donned prior to entry into room and removed after exit
• Placing patients in single rooms
• Transporting patient in a surgical mask
Airborne Precautions in Outpatient Clinics

Most outpatient clinics CANNOT perform Airborne precautions because they do not have monitored negative pressure rooms.

For patients requiring Airborne isolation (examples: those with tuberculosis or measles):

• **Triage before entry to the clinic**, if possible
• **If in clinic**, place in a private room with a surgical mask on
  • Close the room door and open the window (if possible)
  • Staff must wear N-95 respirators/PAPRs during care
• **Contact local health department**
• **Discharge from clinic as soon as possible**
Enhanced Standard Precautions for California Skilled Nursing Facilities

- Developed by CDPH and the California Association of Health Facilities (CAHF), 2010
- Created to simplify precautions for preventing transmission in SNF
  - Use in addition to Standard precautions when Standard precautions may be insufficient to prevent transmission
  - Incorporates aspects of contact, droplet, and airborne precautions
- Intended to facilitate communication for patients on contact precautions transferring between hospitals and SNF

Revision Coming in 2019!
INTERFACILITY TRANSFER COMMUNICATION
Why is Interfacility Communication Important?

• Provides information to receiving facility so proper room placement and Transmission-based precautions can be implemented or continued

• Provides important information about a patient/resident’s current clinical status

• Gives both the transferring and receiving facility a way to share the patient/resident’s history of infection and vaccination

• Relays information about devices such as urinary catheters and central lines
# Interfacility Communication Transfer Tool

**HEALTHCARE FACILITY TRANSFER FORM**

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

<table>
<thead>
<tr>
<th>Patient Name (Last, First):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth:</td>
</tr>
<tr>
<td>MRN:</td>
</tr>
<tr>
<td>Transfer Date:</td>
</tr>
<tr>
<td>Receiving Facility Name:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sending Facility Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Name:</td>
</tr>
<tr>
<td>Contact Phone:</td>
</tr>
</tbody>
</table>

**Patient currently on isolation precautions?**

- [ ] Yes
- [ ] No

If yes, check all that apply:

- [ ] Contact precautions
- [ ] Droplet precautions
- [ ] Airborne precautions

**Personal protective equipment (PPE) to consider at receiving facility:**

- [ ] Gloves
- [ ] Gowns
- [ ] Masks
Interfacility Communication Transfer Tool (continued)

<table>
<thead>
<tr>
<th>Organism</th>
<th>Source</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ORGANISMS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. difficile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbapenem-resistant <em>Enterobacteriaceae</em> (CRE) (e.g., Klebsiella, Enterobacter or E. coli)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extended-spectrum beta lactam-resistant (ESBL) (e.g., E. coli, Klebsiella)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDR gram negatives (e.g., Acinetobacter, Pseudomonas)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methicillin-resistant <em>Staphylococcus aureus</em> (MRSA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vancomycin-resistant <em>Enterococcus</em> (VRE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other, specify: e.g., lice, scabies, disseminated shingles (<em>Herpes zoster</em>), norovirus, influenza, tuberculosis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Include copy of lab results with antimicrobial susceptibilities.
HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM

ADHERENCE MONITORING TOOLS
## Monitoring Hand Hygiene

<table>
<thead>
<tr>
<th>Discipline</th>
<th>What type of HH opportunity was observed? (select/ 1 per line)</th>
<th>✔ Successful</th>
<th>☐ Missed</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>☐ entering room* ☐ before task ☐ after body fluids ☐ after care* ✔ leaving room</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>✔ entering room* ☐ before task ☐ after body fluids ☐ after care* ☐ leaving room</td>
<td>☐</td>
<td>✔️</td>
</tr>
<tr>
<td>CNA</td>
<td>☐ entering room* ☐ before task ☐ after body fluids ☐ after care* ✔ leaving room</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>CNA</td>
<td>✔ entering room* ☐ before task ☐ after body fluids ☐ after care* ☐ leaving room</td>
<td>☐</td>
<td>✔️</td>
</tr>
<tr>
<td>CNA</td>
<td>✔ entering room* ☐ before task ☐ after body fluids ☐ after care* ☐ leaving room</td>
<td>☐</td>
<td>✔️</td>
</tr>
<tr>
<td>MD</td>
<td>✔ entering room* ☐ before task ☐ after body fluids ☐ after care* ☐ leaving room</td>
<td>☐</td>
<td>✔️</td>
</tr>
<tr>
<td>MD</td>
<td>✔ entering room* ☐ before task ☐ after body fluids ☐ after care* ☐ leaving room</td>
<td>☐</td>
<td>✔️</td>
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<tr>
<td>N</td>
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<td>☐</td>
<td>✔️</td>
</tr>
</tbody>
</table>

**Total # HH Successful ("# ✔"): 4**

**Total # HH Opportunities Observed: 10**

**Adherence: 40%**

(Total # HH Successful ÷ Total # HH Opportunities Observed x 100)
## Monitoring Environmental Cleaning

<table>
<thead>
<tr>
<th>Environmental Cleaning Practices</th>
<th>EVS Staff 1</th>
<th>EVS Staff 2</th>
<th>Adherence by Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detergent/disinfectant solution is mixed according to manufacturer’s instructions.</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Solution remains in wet contact with surfaces according to manufacturer’s instructions.</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>A new clean, saturated cloth is used in each room. The cloth is also changed when visibly soiled and after cleaning the bathroom.</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Environmental Services staff use appropriate personal protective equipment (<em>e.g. Gowns and gloves are used for patients/residents on contact precautions upon entry to the contact precautions room.</em>)</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Objects and environmental surfaces in patient care areas that are touched frequently* are cleaned and then disinfected when visibly contaminated or at least daily with an EPA-registered disinfectant.</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

# Yes  # Observed  # Yes/#Observed = % Adherence  %
# Healthcare-Associated Infections Program

## Monitoring Contact Precautions

<table>
<thead>
<tr>
<th>Contact Precautions Practices</th>
<th>Pt/Res 1</th>
<th>Pt/Res 2</th>
<th>Adherence by Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloves and gowns are available near point of use.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 2 2</td>
</tr>
<tr>
<td>Signs indicating the patient/resident is on contact precautions are clear and visible.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 2 2</td>
</tr>
<tr>
<td>The patient/resident housed in single-room or cohorted based on a clinical risk assessment.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 2 2</td>
</tr>
<tr>
<td>Hand hygiene is performed before entering the patient/resident care environment.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 1 2</td>
</tr>
<tr>
<td>Gloves and gowns are donned before entering the patient/resident care environment.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 2 2</td>
</tr>
<tr>
<td>Gloves and gowns are removed and discarded, and hand hygiene is performed before leaving the patient/resident care environment.</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 0 2</td>
</tr>
<tr>
<td>Dedicated or disposable noncritical patient-care equipment (e.g. blood pressure cuffs) is used</td>
<td>Yes</td>
<td>No</td>
<td>Yes/No 2 2</td>
</tr>
</tbody>
</table>

Total #Yes 11  Total #Observed 14  Total #Yes/Total #Observed = % Adherence 79 %
2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings

Jane D. Siegel, MD; Emily Rhinehart, RN MPH CIC; Marguerite Jackson, PhD; Linda Chiarello, RN MS; the Healthcare Infection Control Practices Advisory Committee

Acknowledgement: The authors and HICPAC gratefully acknowledge Dr. Larry Strausbaugh for his many contributions and valued guidance in the preparation of this guideline.


https://www.cdc.gov/infectioncontrol/guidelines/isolation
Summary

• Correct use of Standard and Transmission-based precautions prevents disease transmission

• Perform adherence monitoring to Transmission-based precautions and give feedback to staff to prevent the spread of infection
ACTIVITY: CASE SCENARIOS
Scenario 1

Mrs. Sheila Hernandez is a diabetic patient who visits your clinic. She cut her left foot three weeks ago, and it has not been healing well. After her last visit, the wound culture indicated she had a methicillin-resistant *Staphylococcus aureus* (MRSA) infection in her wound. The nurse practitioner changed Mrs. Hernandez’s antibiotics to cover MRSA.
Scenario 1 – Exercise 1

Today, Mrs. Hernandez is at the clinic for a wound assessment and dressing change.

• What type of precautions would you use to assess and change the dressing for Mrs. Hernandez’s foot wound?

• Do you need to use any personal protective equipment (PPE)? If so, what type of PPE should you use?
Scenario 1 – Exercise 2

Mrs. Hernandez’s foot infection is worse; she needs to be transferred to the local hospital.

- Fill in an Infection Control Transfer Form to inform the ambulance & hospital staff about her condition.
HEALTHCARE FACILITY TRANSFER FORM

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

<table>
<thead>
<tr>
<th>Patient Name (Last, First):</th>
<th>Hernandez, Sheila</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth:</td>
<td>May 16, 1961</td>
</tr>
<tr>
<td>MRN:</td>
<td></td>
</tr>
<tr>
<td>Transfer Date:</td>
<td>May 22, 2019</td>
</tr>
<tr>
<td>Receiving Facility Name:</td>
<td>Local Hospital</td>
</tr>
<tr>
<td>Sending Facility Name:</td>
<td>Imperial County Outpatient Clinic</td>
</tr>
<tr>
<td>Contact Name:</td>
<td>Hans R. Washed, RN</td>
</tr>
<tr>
<td>Contact Phone:</td>
<td>555-555-5555</td>
</tr>
</tbody>
</table>

Patient currently on isolation precautions?
- [ ] Yes
- [ ] No

If yes, check all that apply:
- Contact precautions
- Personal protective equipment (PPE) to consider at receiving facility:
- Gloves
- Gowns
- [ ] Masks
Patient has multidrug-resistant organism (MDRO) or other lab results for which the patient should be in isolation?

☑ Yes  ☐ No

If yes, specify organism(s) and include specimen source and collection date.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Source</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ C. difficile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Carbapenem-resistant <em>Enterobacteriaceae</em> (CRE) (e.g., Klebsiella, Enterobacter or <em>E.coli</em>)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Extended-spectrum beta lactam-resistant (ESBL) (e.g., <em>E.coli</em>, Klebsiella)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ MDR gram negatives (e.g., <em>Acinetobacter</em>, <em>Pseudomonas</em>)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☑ Methicillin-resistant <em>Staphylococcus aureus</em> (MRSA)</td>
<td>Left foot wound</td>
<td>05/02/19</td>
</tr>
<tr>
<td>☐ Vancomycin-resistant <em>Enterococcus</em> (VRE)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other, specify:
e.g., lice, scabies, disseminated shingles (*Herpes zoster*), norovirus, influenza, tuberculosis

Include copy of **lab results** with antimicrobial susceptibilities.
Scenario 2

Jonathan is a 5-year-old boy who fell off his bicycle and landed on a sharp rock. The clinic’s doctor is going to clean the boy’s wound and place four stitches in his leg. The doctor will be using a new multidose vial of anesthetic to numb the skin.
Scenario 2 – Discussion

What steps can the doctor take to prevent an infection?

**Hint** Consider what you have learned about infection prevention relating to:

- Hand hygiene
- Standard & Transmission-based precautions
- Environment (cleaning and disinfection)
- Injection safety
Scenario 2 – Solutions (1)

Measures the doctor can take to prevent further infection:

• **Hand hygiene**
  
  o Perform hand hygiene before suturing
  
  o Use gloves on clean hands
  
  o Use sterile gloves for suturing
  
  o Perform hand hygiene after suturing
  
  o Wash hands after removing gloves
  
  o Once gloves are soiled, remove them and perform hand hygiene
Scenario 2 – Solutions (2)

Measures the doctor can take to prevent further infection:

- **Standard & Transmission-based precautions**
  - Use appropriate PPE if the wound is draining
  - Clean the skin around the wound before suturing
  - Remove debris and rinse out the wound before suturing
  - If child has a contagious illness, place in Transmission-based precautions
  - Bandage the wound after the procedure
  - Teach the child not to touch the wound
  - Teach the child and family about hand hygiene to prevent wound infection
Scenario 2 – Solutions (3)

Measures the doctor can take to prevent further infection:

• Environment (cleaning and disinfection)
  - Place in a clean, disinfected room
  - Promptly clean and decontaminate areas with blood or body fluids
  - Clean and disinfect room after care
Scenario 2 – Solutions (4)

Measures the doctor can take to prevent further infection:

• **Injection safety**
  - Draw up anesthesia in a designated, clean medication area
  - Clean vial top with alcohol after removing dust cover
  - Allow vial top to dry before withdrawing anesthesia
  - Discard anesthesia if it is expired
  - Use sterile needles and syringes
  - Use a new suture needle for suturing
  - Discard used needles in the sharps container
  - Discard full sharps container
COLLABORATIVE
NEXT STEPS
Next Steps

• Join our email distribution list to receive updates!

• Tell us about your experience with tool implementation at your facility - *What is working? What do you need help with? What needs to be done for progress to be made?*

• Visit our collaborative webpage for AR education materials, collaborative information, and announcements - [https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/ImperialCountyAR_Collaborative.aspx](https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/ImperialCountyAR_Collaborative.aspx)
IMPERIAL COUNTY ANTIMICROBIAL RESISTANCE (AR) PREVENTION COLLABORATIVE WEBPAGE
Visit our collaborative webpage!
How do I access the webpage?

- [https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/ImperialCountyAR_Collaborative.aspx](https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/ImperialCountyAR_Collaborative.aspx)

  OR

- Enter “Imperial AR Collaborative CDPH” in browser, and choose Imperial County AR Collaborative Webpage
Imperial County AR Prevention Collaborative Webpage

- Antibiotic Use Information
  - Handouts
  - Flyers
  - Videos
  - Coloring pages (in production)
Imperial County AR Prevention Collaborative Webpage

Resources for Healthcare Providers

- Antibiotic Stewardship Commitment Posters
- Checklist for Antibiotic Stewardship
- Communications Training
- Educational Resources and Articles
- Prescription Pads for Symptom Relief
- Adherence Monitoring Tools
Imperial County AR Prevention Collaborative Webpage

Collaborative Resources

- Project Plan & Timeline
- Meeting Agenda and materials
  - Meeting Agendas
  - Slide Presentations
  - Recorded Webinars
- Assessment Tools (coming soon!)
ACTIVITY:
EXPERT OPINIONS NEEDED!
What Would Make the Webpage More Useful?

Activity

• Name two items you find useful on the webpage?
• What would make the webpage more useful to you?
• What items are we missing from the webpage?
Next In-Person Meeting

SAVE THE DATE
Invite your colleagues!

Thursday, August 22, 2019
8:30AM-12:30PM

Imperial County Public Health Department
935 Broadway, El Centro, CA 92243
Agenda to follow.
Questions?

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