

INFECTION PREVENTION & CONTROL

WHO WE
ARE.....



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OBJECTIVES

Participants will be able to:

- Describe the purpose of an effective IPCP
- Discuss measures to prevent disease transmission
- Describe the role of surveillance
- Discuss the impact of COVID-19 on nursing homes
- Identify steps to strengthen the facility IPC program

F880

§483.80 Infection Control

- “The facility must establish and maintain an infection prevention and control program designed to provide a safe, sanitary and comfortable environment and to help prevent the development and transmission of communicable diseases and infections.”

THE INFECTION PREVENTION & CONTROL PROGRAM

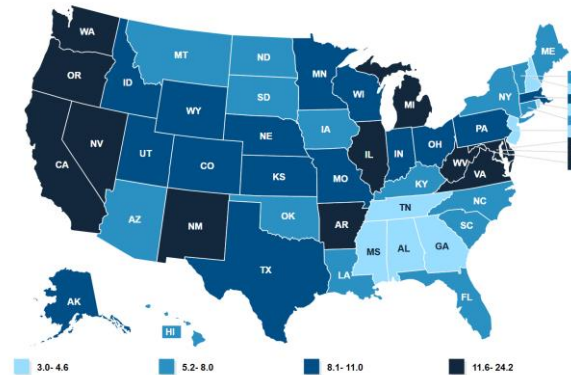
Purpose:

- Decrease the risk of infection to residents and personnel
 - Monitor for occurrence of infection and implement appropriate control measures
 - Identify and correct problems
 - Limit unprotected exposure
 - Minimize the risk.
 - Maintain compliance

INFECTION CONTROL MATTERS

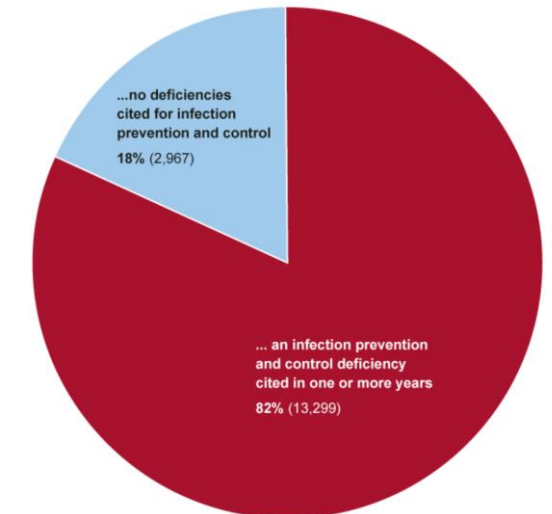
- Average number of deficiencies in US 9.5
- New Mexico 13.6
- US GAO Report – May 2020
 - Data between 2013-2017
 - 82% NF had IC deficiencies pre COVID
- CMS Press Release Aug 14, 2020
 - > \$15 million in CMP to NF during pandemic
 - Non-compliance with IC and reporting failures
 - <https://www.cms.gov/newsroom/press-releases/trump-administration-has-issued-more-15-million-fines-nursing-homes-during-covid-19-pandemic>

Average Number of Deficiencies by State 2019



<https://www.kff.org/other/state-indicator/avg-of-nursing-facility-deficiencies>

Nursing homes with...



<https://www.gao.gov/products/GAO-20-576R>



ELEMENTS OF THE ICPC

INFECTION PREVENTION CONTROL PROGRAM INCLUDES...

- Written Plan
- Surveillance Systems
- Reporting of IC data
- Policies and Procedures
- Training and Resources



THE INFECTION PREVENTIONIST

- Advocates for Prevention
 - Hand Hygiene
 - Oversight of adherence to transmission-based precautions
 - Implementation of HAI strategies
 - Evidenced-based practice
 - Analyze, interpret and report surveillance data
 - Educator for all healthcare groups/professionals and residents
 - Prevention practices and control methods

INFECTION PREVENTIONIST SKILL SET



Surveillance Tools



Health Informatics



Communication



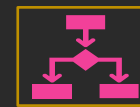
Computer Software



Integration of research
into practice



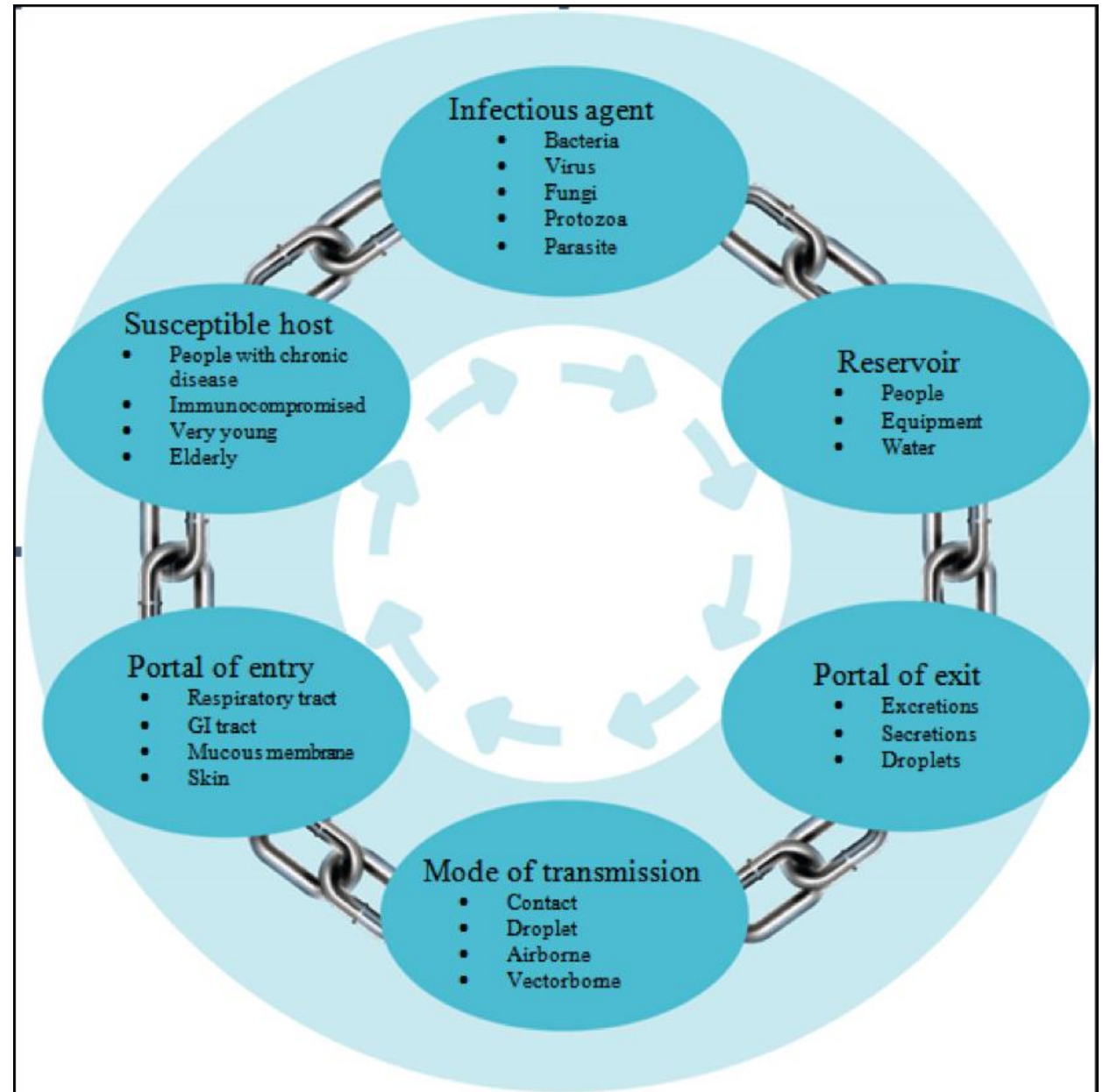
Regulations and Standards



Outcome and Process
Measures

PREVENTION MEASURES

CHAIN OF INFECTION



HAND HYGIENE

Your 5 moments for hand hygiene at the point of care*



*Adapted from the WHO Alliance for Patient Safety 2006.

- Readily available
 - Point of use
- ABHS
- Soap and Water
- Assessment
 - Effective technique
 - Opportunities for Hand Hygiene

PERSONAL PROTECTIVE EQUIPMENT

PPE Selection and Application

Consider:

- Purpose
- Level of protection
- Staff familiarity
- Appropriate reuse
- Cleaning/disinfection
- Storage



CLEANING & DISINFECTION

- Overall cleanliness of the environment
- Resident rooms
- Common areas
- High touch areas
 - Residents and staff
- Shared areas
 - Showers
- Special Areas
 - Laundry
 - Kitchens
 - Therapy Gyms
 - Activity Rooms
 - Medication Rooms
 - Nursing Station



Early
Identification

Appropriate
response

Culture
Results

Diagnostic
tests

Acute
discharges

Antibiotic
use

MONITORING DISEASE ACTIVITY

PLANS WITHIN THE PROGRAM

- Preparedness Plans
 - Pandemic/Emergency Plan
- Exposure Plans
 - BBP Plan
 - Respiratory/ TB Plan
 - Influenza Vaccination Plan
- Surveillance Plan
 - Respiratory Illness
 - UTI

ROLE OF SURVEILLANCE

SURVEILLANCE

A process of systematically collecting, managing, analyzing, interpreting, and reporting information

Essential component of an effective IP & C program

Serves multiple purposes

- Determine rates of disease occurrence
- Detect and investigate clusters or outbreaks
- Assess effectiveness of prevention and control measures
- Monitor occurrence of adverse outcomes
- Observe practices to promote compliance
- Provide Risk assessment data

TRACKING & REPORTING

- **Surveillance**
 - Process
 - Outcomes
- **Collect and Analyze Data**
- **Practice measures and recommendations**
- **Share Information**

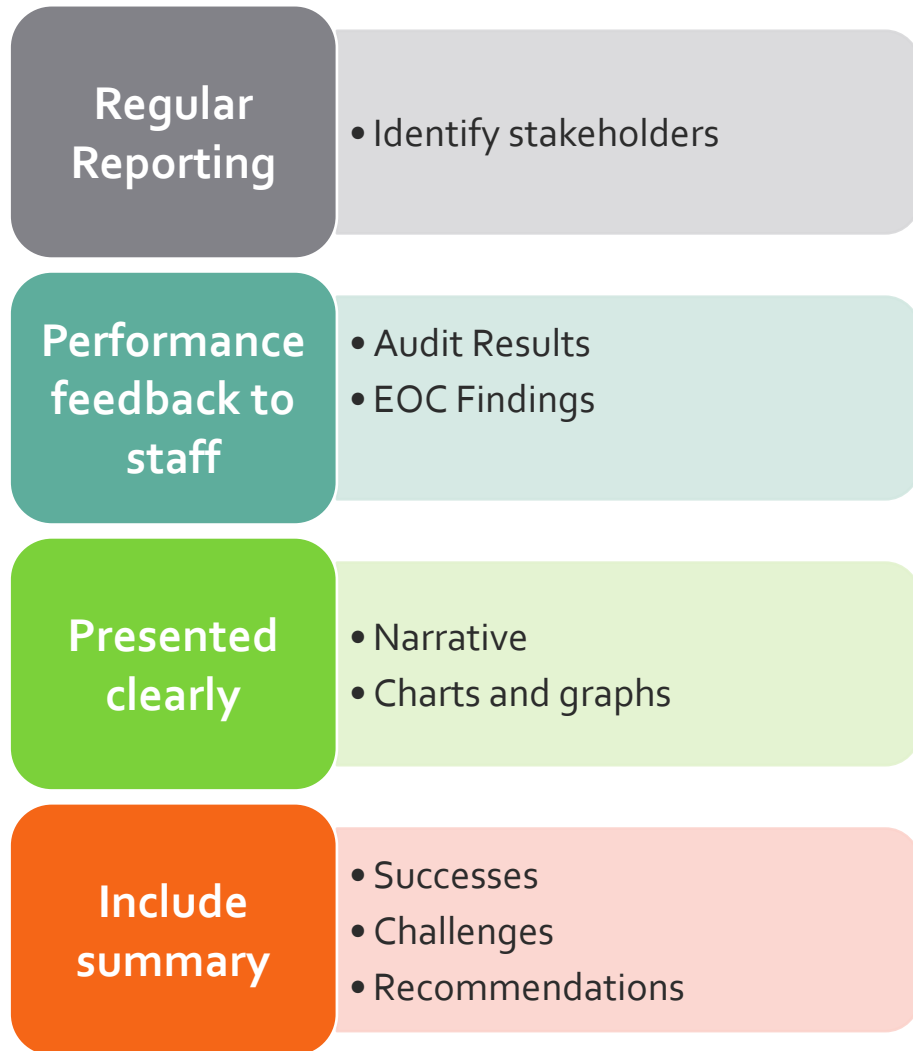


COLLECTING DATA

- Methodology dependent on
 - Chart Review
 - Observation Audits
 - Check lists
 - Line list
 - Respiratory Surveillance line list
 - <https://www.cdc.gov/longtermcare/pdfs/LTC-Resp-OutbreakResources-P.pdf>

ANALYZING DATA

- Purpose of analyzing data is to identify useful information
 - Decision making
 - Identifying issues



REPORTING THE DATA

PROGRAM GOALS

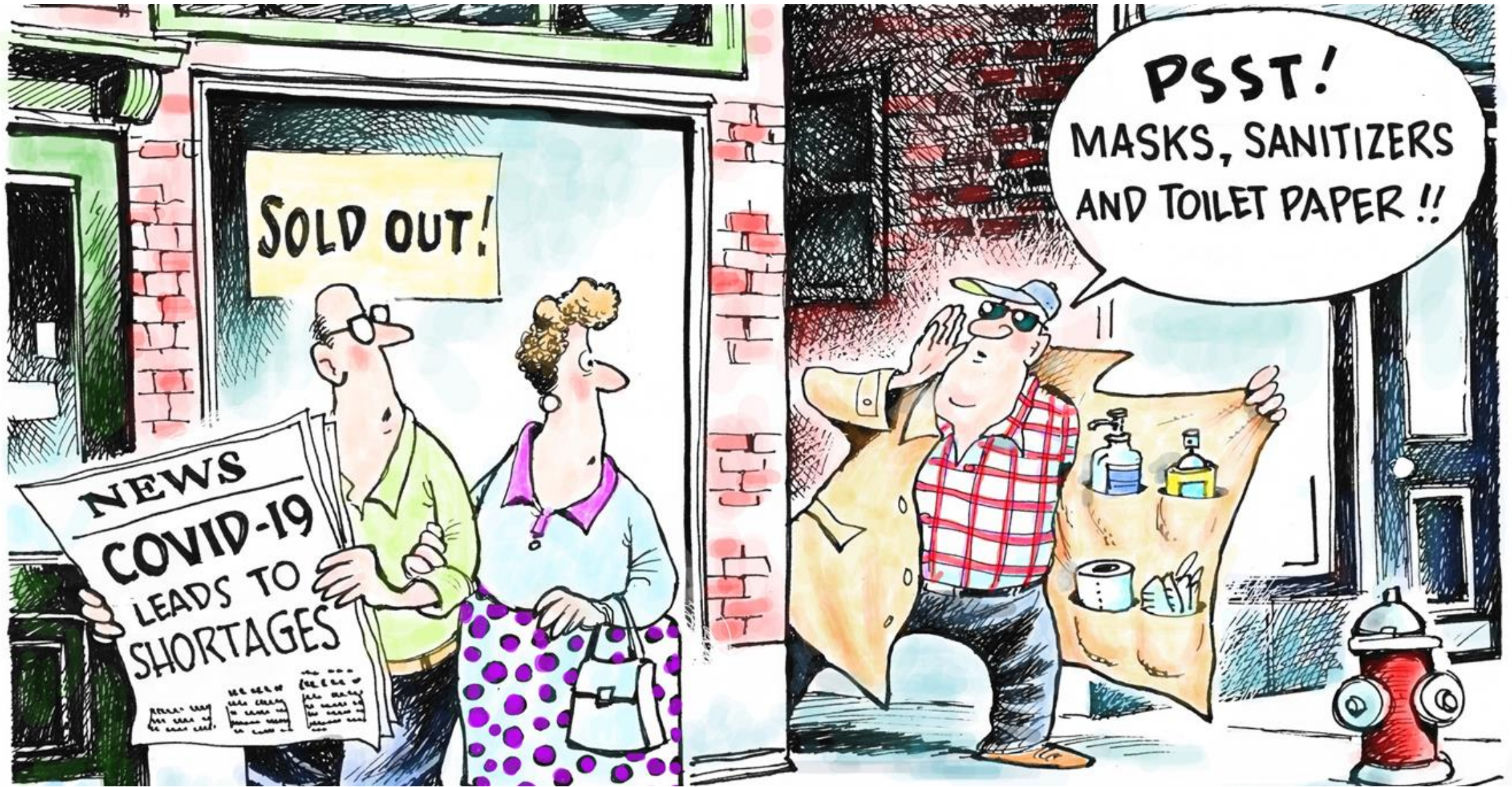
- Surveillance Plan should align with
 - Regulatory reporting requirement
 - Program goals
- Surveillance reports provide documentation of progress towards goals

CONSIDERATIONS FOR THE SURVEILLANCE PLAN

- **Time Period of Observation**
 - Month, Quarter, Year
 - Frequency of event
- **Surveillance Criteria**
 - Case definitions
 - Use generally accepted criteria
 - NHSN, McGreer
 - Definitions need to be applied consistently and precisely
 - Can differ from clinical definitions



IMPACT OF COVID ON LTC



STAFFING

Impact On Facility Staffing

- Furlough time impacts staffing
- Family members need care
- Refusal to work
- Fear
- Financial
- Staff working with no/mild symptoms
- Managing testing/results

VISITATION

Restrictions to Visitation

- Impacts health and well being of residents
 - Mental – isolation anxiety
 - Physical – failure to thrive
- Responding to inquiries from family members may be time consuming
 - Frustrations
- Alternative Communication Tools
 - Video calls
 - Window visits

PERSONAL PROTECTIVE EQUIPMENT

- Challenges around sourcing
- Disruptions to supply chain
- Manufacturing
- Acute care facilities prioritized
- Variation in PPE supplies
- Education on safe PPE use
 - Donning and Doffing
- Extended use practices
 - PPE

THE ENVIRONMENT

- Restricted movement about facility
- Plastic barriers
- Creation of alternate spaces
- Relocation of residents
- Designated work areas



LTC TRANSMISSION RISK FACTORS

- Findings from Outbreak in King County, Washington State
 - Staff who worked in more than one facility
 - Poor adherence to standard and transmission-based precautions
 - Challenges to implementing proper infection control practices
 - Delay in recognition of cases
 - Limited availability of testing
 - Difficulty identifying persons with COVID-19 on the basis of signs and symptoms alone

STRATEGIES TO STRENGTHEN THE IPCC

UNDERSTANDING THE RISK

- **Risk Assessment**
 - Underpins the Infection Prevention and Control Program
 - Risk Measured
 - Probability of event occurring
 - Impact of severity of event occurring
 - Current level of preparedness/prevention



CONDUCTING A RISK ASSESSMENT

- Conducted Annually & When Significant changes occur
- Responsibility of the IP
- Interdisciplinary Approach
 - Representation from all departments
- Draw on facility data
 - Services provided
 - Special populations
 - Surveillance data
- Community/County data
 - Environmental risks
 - Natural/man-made hazards
 - Disease rates

TEAM ROUNDS



Environment of Care Rounds

- Identify issues early
- Schedule monthly
- Look at all areas of facility and grounds
- Team members
 - Facilities
 - IP
 - Administrator
 - Department managers
- More eyes looking for issues

EDUCATION

- Identify the Purpose
 - Annual competencies
 - New information or updates
 - New equipment or product
 - Response to requests
 - Regulatory information
 - Outbreak related
- Identify the Outcomes
 - New Skill
 - Recognition
 - Improvement
- Identify the Audience
 - Clinical staff
 - Ancillary/support staff
 - Residents
 - Family/visitors
- Evaluation
 - Return demonstration
 - Quiz
 - Pre and post
 - Monitoring
 - Observation/audits

HAND HYGIENE

- Purpose:
 - Outbreak Related
- Outcome
 - Recognition of when to perform
 - Increased activity
 - Compliance
- Audience
 - Facility wide
 - Residents
 - Visitors
- Evaluation
 - Return demonstration
 - Daily audits
- Methods
 - Demonstration
 - Hand outs
 - Posters
 - Videos
 - Visual aids
- Include:
 - When to perform hand hygiene
 - How to use the products
 - Routes of transmission
 - Consequences

ENVIRONMENTAL CLEANING

- Select appropriate disinfectant
- Follow directions on the disinfectant label
- Have effective cleaning procedures
- Single use vs. shared equipment
- Keep linens clean
- Provide education and training to all staff
- Monitor cleaning processes

CDC Environmental Checklist for Monitoring Terminal Cleaning¹

Date:			
Unit:			
Room Number:			
Initials of ES staff (optional): ²			

Evaluate the following priority sites for each patient room:

High-touch Room Surfaces ³	Cleaned	Not Cleaned	Not Present in Room
Bed rails / controls			
Tray table			
IV pole (grab area)			
Call box / button			
Telephone			
Bedside table handle			
Chair			
Room sink			
Room light switch			
Room inner door knob			
Bathroom inner door knob / plate			
Bathroom light switch			
Bathroom handrails by toilet			
Bathroom sink			
Toilet seat			
Toilet flush handle			
Toilet bedpan cleaner			

Evaluate the following additional sites if these equipment are present in the room:


High-touch Room Surfaces ³	Cleaned	Not Cleaned	Not Present in Room
IV pump control			
Multi-module monitor controls			
Multi-module monitor touch screen			
Multi-module monitor cables			
Ventilator control panel			

Mark the monitoring method used:

Direct observation Fluorescent gel
 Swab cultures ATP system Agar slide cultures

¹Selection of detergents and disinfectants should be according to institutional policies and procedures
²Hospitals may choose to include identifiers of individual environmental services staff for feedback purposes.
³Sites most frequently contaminated and touched by patients and/or healthcare workers

National Center for Emerging and Zoonotic Infectious Diseases
Division of Healthcare Quality Promotion



SHARED RESIDENT EQUIPMENT

- Cleaning and Disinfection
 - Appropriate product for equipment item
 - Manufactures recommendations
 - Contact time of disinfection product
- Identifying Clean vs. In use
 - Process
 - Monitor
 - Storage
- High Risk Areas/Equipment
 - Showers
 - Therapy gyms
 - Scales
 - Lifts

SUMMARY

- IPCP is a high focus area
- An effective IPCP is needed to respond to emerging infections
- Impact of COVID-19 has highlighted deficiencies in IPC programs
- Surveillance data collection, analysis and reporting is essential to identify both opportunities for improvement and successful interventions
- Infection Prevention and Control is a program not a person



THANK YOU