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Infection Prevention and Control & Environment of Care Overlap

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Learning Objectives

- ▶ Identify the risks and the correlation between the Environment of Care (EC) and Infection Prevention and Control (IC)
- ▶ Integrate the EC and IC performance monitoring into your organization's practices



IC.01.03.01

Identifies Risk

- 
- ▶ EP1
 - Location, community, population served
 - ▶ EP2
 - Care, treatment, services provided
 - ▶ EP3
 - Analysis of activities (data)
 - ▶ EP5
 - Prioritized identified risks

Risk Assessment

IC.01.03.01



Risk Event	Probability of Occurrence	Likelihood of Infectious Transmission to Others	Severity of Infectious Outcome	Risk Level
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Examples of IC/EC Risk Area Topics

- ▶ HAIs
 - SSIs
- ▶ Devices
 - HLD
 - Sterilization
- ▶ Dialysis
- ▶ New Program
- ▶ New Procedure
- ▶ Employee Health
- ▶ Construction/Renovation
- ▶ Emerging/Re-Emerging Infectious Disease

Infection Prevention and Control Plan

- ▶ Risk Assessment
- ▶ Risk Event
- ▶ IC Program Goals
- ▶ Strategies for Success
- ▶ End of Year Evaluation
- ▶ Status (Met or Not Met)

Evaluating IC Plans

- ▶ IC.03.01.01 evaluates annually *and whenever risks significantly change*
- ▶ Includes review of the following:
 - Prioritized risks
 - Goals
 - Implemented plan activities
 - Communicated *at least annually (ie. Patient Safety Committee)*

Risk Assessments

- 
- ▶ Represent the entire organization including off-site clinics:
 - High-level disinfection and/or sterilization
 - Prioritized risks are documented
 - ▶ Include input from multidisciplines as part of the Risk Assessment
 - ▶ A continuous process for planning and maintaining infection prevention and control programs

Risk Assessment Resources

- ▶ APIC (2014). Text of Infection Control and Epidemiology, 4th edition.
- ▶ Joint Commission Leading Practice Library
- ▶ JCR
 - [Using the Risk Assessment to Set Goals and Develop the Infection Prevention and Control Plan](#)

FDA

- ▶ FDA clears a duodenoscope model with design modifications intended to reduce infection risk
 - A voluntary recall of an original duodenoscope model used in health care facilities in order to make needed repair

EC.02.01.01

Manage safety and security risks

- EP 11 Responds to product notices and recalls

EC.02.04.01

Manages Medical Equipment Risks

- ▶ EP 2 inventory
- ▶ EP4 maintain, inspect, test medical equipment on inventory
- ▶ EP8 monitor and report all incidents suspected or attributable to death, serious injury, or serious illness as required by Safe Medical Devices Act of 1990



The New York Times

4 Dead After Being Infected by a Device in Surgery at a Pennsylvania Hospital

Nontuberculous Mycobacterium Infections Associated with Heater-Cooler Devices: FDA Safety Communication

EC.02.04.03

Inspect, test, maintain medical equipment

- ▶ EP4 performance testing and maintenance of all sterilizers (documented)
- ▶ EP5 perform equipment maintenance, and chemical and biological testing of water used in hemodialysis (documented)



Legionnaires Disease

© CBS Pittsburgh

Pittsburgh VA Legionnaire's Outbreak

EC.02.05.01

Manage risk associated with utility systems

- ▶ EP14 minimize pathogenic agents in cooling towers, domestic hot and cold water systems, and other aerosolizing water systems
- ▶ EP15 areas designed to control airborne contamination, ventilation systems provides appropriate pressure relationships, air-exchange rates and filtration efficiencies

EC.02.05.05

Inspect, test, and maintain utility systems

- ▶ EP4 Infection Control utility system components (documented)
 - EC.02.05.01 EP2 (deemed) written inventory of selected operating components of utility systems based on infection risks
 - EC.02.05.01 EP4 activities and frequencies of inspecting, testing, maintaining equipment based on IFUs or AEM program



Pittsburgh hospital suspends organ transplants after mold infections, deaths

UPMC mold infections stemmed from improper use of negative-pressure rooms, CDC says (Beckers Hospital Review)

EC.02.06.01

Maintain a safe functional environment

- ▶ Interior spaces meet the needs of the patient population and are safe and suitable to the care, treatment and services provided
 - Unsafe patient care areas
 - Stained ceiling tiles
 - Mold-like substance on walls
- ▶ EP13 maintain ventilation, temperature, and humidity levels suitable for the care treatment, and services provided
- ▶ EP26 keep furnishings and equipment safe and in good repair

Healio > Nosocomial Infections > News >

IN THE JOURNALS

Hospital linens tied to mucormycosis outbreak at pediatric hospital

Duffy J. *Pediatr Infect Dis J.* 2014; doi:10.1097/INF.0000000000000261.

April 9, 2014

READ/SUBMIT COMMENTS EMAIL PRINT SAVE f t in g+

Hospital linens were identified as the agent of transmission during an outbreak of mucormycosis that resulted in five deaths at a pediatric hospital in Louisiana, according to recent findings published in *The Pediatric Infectious Disease Journal*.

See Also

CDC researchers assisted hospital staff in their investigation of the 2008-2009 mucormycosis outbreak. They sought to identify possible modes of

Recommended for You

Twenty-five percent of HCWs consider it ethical to refuse care to Ebola patients

Phylogenetic tracking benefits *C. difficile* surveillance in hospitals

Surface contamination likely source of infection during South Korean MERS outbreak



Are antivirals an effective treatment for influenza

EC.02.06.05

Manages Environment during Demolition,
Renovation, or Construction to reduce Risk

- EP2 Preconstruction risk assessment

EC.04.01.01

Collects information to monitor conditions in the environment

- ▶ EP1 established process for continually monitoring, internally reporting, and investigating
 - Occupational illnesses and injuries
 - Medical equipment problems, failures, use errors
 - Utility system problems, failures, use errors

EC.04.01.01

Collects information to monitor conditions in the environment

- ▶ Based on its process(es), the hospital reports and investigates the following:
 - Injuries to patients
 - Occupational illnesses
 - Medical/laboratory equipment management problems, failures, and use errors
 - Utility systems management problems, failures, or use errors

EC.04.01.01

Collects information to monitor conditions in the environment

- EP12 The hospital conducts environmental tours every six months in patient care areas to evaluate the effectiveness of previously implemented activities intended to minimize or eliminate environment of care risks

Post-test Question #1

- 
- ▶ An Infection Preventionist should be involved in what phase(s) of construction and renovation?
 - a. The construction phase
 - b. The design phase
 - c. The clean up and return to use phases
 - d. All of the above



Question #1

Answer “D”

Post-test Question #2

- 
- ▶ What are some of the risk areas that IC and EC can address together to prevent healthcare-associated infections (HAIs)?
 - a. Sterilization process (ie. sterilizers)
 - b. Dialysis (water testing)
 - c. Reporting to NHSN
 - d. Both A and B



Question #2

Answer “D”

Questions

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