

Advancing Infection Control Capacity & Education (ACE): COACHING TO CERTIFICATION

Session 8: Environment of Care – Part 2

Presented on February 21, 2023, by: Meghan Millet, BSN, RN

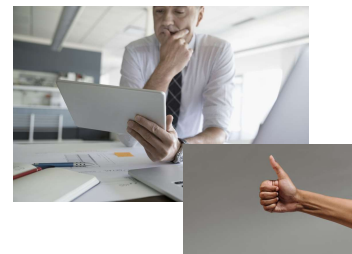


1



Q1: Healthcare workers in your facility have requested that environmental services purchase a hydrogen peroxide vapor unit to decontaminate patient care rooms. The administrators would like you to work with the director of environmental services to determine the pros and cons of this technology. Which of the following is an accurate argument in favor of using the technology?

- a. It is effective at disinfecting all the surfaces and supplies in the room
- b. It cuts down on room turnaround time because personnel don't need to clean the room before disinfection
- c. The room can be occupied during the process, so it is useful for daily cleaning
- d. The heating, ventilation, and air conditioning (HVAC) system does not need to be turned off while the unit is being used



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Study Guide Chapter 9 Practice
Questions, question 19



2

2



Q2: An infection preventionist should be involved in which of the following phases of construction and renovation?

- 1) The design phase
- 2) The construction phase
- 3) The clean-up phase
- 4) The return to use phase

- a. 1
- b. 1, 2
- c. 1, 2, 3
- d. 1, 2, 3, 4



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 14

Oregon
Health
Authority

3

3



Q3: In a cost saving effort, staff has requested that they be allowed to “top off” cleaning products from a larger bottle. Your response is:

- a. This is a really good idea and offer to take the idea to the infection control committee for approval
- b. The “topping off” of nearly empty containers of cleaning products is prohibited
- c. “Topping off” is acceptable for cleaning products only
- d. There is no evidence that this practice will result in harm



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 15

Oregon
Health
Authority

4

4



Q4: You are experiencing an outbreak of *Clostridium difficile* infection (CDI) in your facility. Which of the following practices related to environmental cleaning should you recommend that the environmental services director evaluate first to determine the cause of the outbreak?

- Whether quaternary ammonium compounds are being mixed properly before being used to clean patient rooms
- Whether EVS personnel are changing gloves in between cleaning patient care rooms
- Whether rooms where a patient had CDI infection or known colonization are being terminally cleaned with bleach
- Whether high touch surfaces in a room where a patient has CDI infection or known colonization are being cleaned at least once daily with detergent



<https://www.cdc.gov/cdiff/index.html>

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 16

Oregon
Health
Authority

5

5



Q5: Construction and renovation policies should include which elements:

- Phasing and commissioning of projects
- List of construction companies allowed to work in the facility
- Authority for determining unit closure issues
- Start and stop dates of projects

- 1, 2
- 2, 3
- 3, 4
- 1, 3



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 17

Oregon
Health
Authority

6

6



Q6: Environmental Services is interested in using the most environmentally friendly product for cleaning a patient care room whenever possible. Which of the following are your recommendations to help accommodate this request?

- a. All room surfaces should be cleaned with a disinfectant only
- b. All room surfaces should be cleaned with a detergent only
- c. Horizontal and high touch surfaces may be cleaned with a detergent provided that the contact time is at least 10 minutes
- d. Floors may be cleaned with a detergent if the room was not last being used as an isolation room



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 18

Oregon
Health
Authority

7

7



Q7: Which of the following is most critical in selecting a cleaning agent for use on patient care equipment?

- a. The product should be one that is already in use in the facility
- b. The product should be selected based on the manufacturer's guidelines for cleaning the environment
- c. The product should be the best disinfectant available regardless of other factors
- d. The product should be environmentally friendly



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 20

Oregon
Health
Authority

8

8



Q8: The director of environmental services (EVS) has asked for your assistance in collecting data related to process measures involving cleaning of high touch surfaces in patient care rooms. Which of the following monitoring methods would be most accurate for collecting this data?

- Administer a survey to EVS personnel to ask about consistency of cleaning high touch surfaces
- Survey patients to determine how clean the high touch surfaces were in their rooms
- Ask EVS personnel to observe and report on each other's practices related to cleaning high touch surfaces.
- Use a secret shopper to observe cleaning practices related to high touch surfaces



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 21

Oregon
Health
Authority

9

9



Q9: Which of the following recommendations should be made to reduce the risk of infection from sinks in patient care areas?

- Sink basins should be deep enough to prevent splashing of water onto nearby patient care items
- Sink faucets should be located such that the flow of water hits the drain directly
- Sinks should be placed within two feet of the point of care to encourage frequent hand hygiene
- Aerators should be installed on faucets to minimize the amount of splash in the sink



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9
Practice Questions, question 22

Oregon
Health
Authority

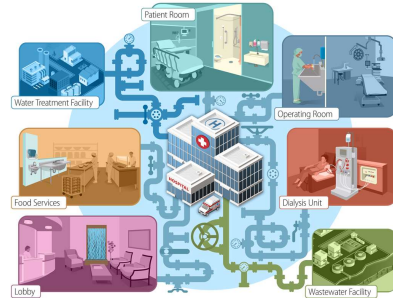
10

10



Q10: The planning committee for your new healthcare facility would like to include a water feature just inside the entrance of the new building. Which of the following recommendations should you make to ensure that this does not put patients, staff and visitors at risk for infection:

- 1) The water feature must include underwater lighting to allow the personnel to visualize whether it is being properly maintained.
 - 2) The water feature should be designed so that water does not remain stagnant in any part of the feature, and should include built-in methods of filtering or disinfecting the water
 - 3) The water feature should be designed to prevent aerosolizing of water
 - 4) The water feature must have routine maintenance
- a. 2
 - b. 2, 4
 - c. 2, 3, 4
 - d. 1, 2, 3, 4



https://www.cdc.gov/hai/images/water-healthcare-lq.png?_t=190077noicon

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9 Practice Questions, question 23

Oregon
Health
Authority

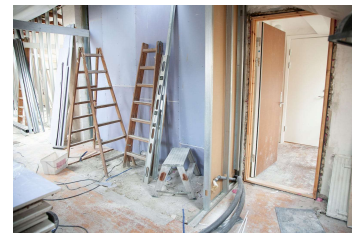
11

11



Q11: In a construction zone in a healthcare facility that is occupied, airflow should be:

- a. Negative in the construction zone
- b. Positive in the construction zone
- c. Neutral in the construction zone
- d. Negative outside the construction zone



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9 Practice Questions, question 24

Oregon
Health
Authority

12

12



Q12: Which of the following is an Infection Control Risk Assessment (ICRA) element related to building design features?

- a. An assessment of the specific construction hazards and the determination of protection levels for those hazards
- b. The impact of a water outage during construction activity
- c. The number of airborne infectious isolation (AII) rooms and where they will be located in the facility
- d. A plan on where to relocate patients during construction



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Chapter 9 Practice Questions, question 25

Oregon
Health
Authority

13

13



Q13: The Director of the Operating Room (OR) requests that the OR surfaces be routinely environmentally cultured. The IP's best response should be:

- a. A schedule for routine culturing of the OR should be arranged so that each room is cultured at a set interval
- b. Routine culturing of the OR should be done in the absence of any epidemiologic investigations in that area
- c. Routine culturing should not be done because it is too expensive
- d. Routine environmental culturing should not be considered unless an epidemiological investigation is being conducted



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1, question 7

Oregon
Health
Authority

14

14



Q14: All of the following may be indications of a heating, ventilation, and air conditioning (HVAC) malfunction except:

- a. An increase in the postoperative surgical site infections (SSI) rates
- b. A single case of aspergillosis in a severely immunosuppressed patient
- c. Healthcare-associated varicella infections
- d. An outbreak of ventilator-associated *Acinetobacter* infections in the Intensive Care Unit (ICU)



HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1,
question 7 Reference: Study Guide Practice
Exam 1, question 8

Oregon
Health
Authority

15

15



Q15: What is the acceptable upper limit for relative humidity in a facility to prevent fungal growth?

- a. 40 percent
- b. 50 percent
- c. 60 percent
- d. 70 percent



Aspergillus fumigatus
(*A. fumigatus*) is a
fungus in the
environment that is
common in air. People
can develop severe
infections by breathing
it in.

<https://www.cdc.gov/fungal/diseases/aspergillosis/antifungal-resistance.html>

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1,
question 91

Oregon
Health
Authority

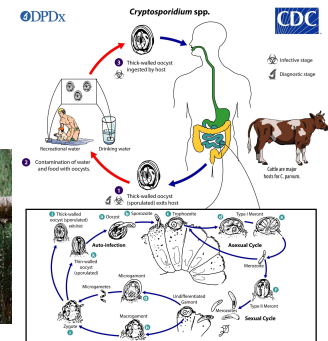
16

16



Q16: There was contamination of a healthcare facility's potable water system with sewer water and there is a high concern for the presence of *Cryptosporidium*. Which of the following should you recommend for corrective decontamination of the system?

- a. Use chlorination to disinfect the system
- b. Use high-temperature flushing to disinfect the system
- c. Use fluoridation to flush the system
- d. Use ultraviolet light to flush the system



https://www.cdc.gov/dpdx/cryptosporidiosis/mod/ules/Cryptosporidium_LifeCycle_Ig.jpg

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1,
question 105

Oregon
Health
Authority

17

17



Q17: A blood spill contaminated a pneumatic tube system and its contents. The leak was not identified for a period of time. After remediation of the contamination, the IP recommended the following to prevent a future incident:

- a. Establish a method to recognize spills and leaks
- b. Perform a hazard vulnerability analysis
- c. Contract with an outside vendor to clean and maintain system
- d. Restrict the use of pneumatic tube to nonhazardous material



Photo Credit: Swisslog Healthcare

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1,
question 114

Oregon
Health
Authority

18

18



Q19: A hospital administrator has proposed that single-use angiography catheters be reprocessed and reused to cut costs. What is the best response to this request?

- a. Single-use items are not allowed to be reprocessed
- b. A cost-benefit analysis should be done before a decision can be made
- c. Single-use items can be reprocessed in the facility as long as administration, Risk Management, Legal Counsel, Supply Chain Administrator, and Infection Control representatives say it is allowable
- d. Single-use items can be reprocessed in a third-party facility if FDA-guidelines are followed

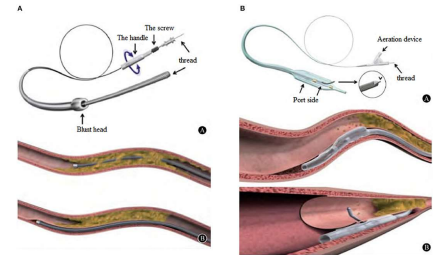


Photo Credit: [Boston Scientific Corporation in the U.S.A](#)

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 1,
question 123

Oregon
Health
Authority

19

19



Q20: Which of the following processes should be used for contaminated endotracheal blades?

- a. Cleaning followed by high-level disinfection
- b. Cleaning with chlorhexidine followed by soaking in an enzymatic solution for 20 minutes
- c. Cleaning followed by ultrasonic washer
- d. Cleaning followed by alcohol disinfection

ENDOSCOPIC SURGERY

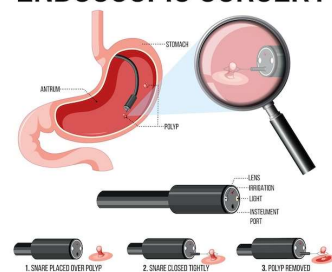


Photo Credit: [BRGFX](#)

HEALTHCARE-ASSOCIATED INFECTIONS PROGRAM
Public Health Division



Reference: Study Guide Practice Exam 2,
question 7

Oregon
Health
Authority

20

20