5 Infection Control: Principles and Practices

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POINT TO PONDER:
“Every worthwhile accomplishment has a price tag attached to it. The question is always whether you are willing to pay the price to attain it—in hard work, sacrifice, patience, faith, and endurance.” —John C. Maxwell

WHY STUDY INFECTION CONTROL: PRINCIPLES AND PRACTICES?

1. List the three main reasons why it is important for cosmetologists to study and thoroughly understand infection control principles and practices.
   a) 
   b) 
   c) 

REGULATION

2. State agencies set guidelines for the manufacturing, sale, and use of equipment and chemical ingredients.
   ______ True
   ______ False

3. OSHA is part of the U.S. Department of ______.
4. The ____________________________ created the Hazard Communication Standard (HCS), which requires that chemical manufacturers and importers assess the potential hazards associated with their products.

5. The standards set by OSHA address which of the following issues?
   ______ a) Handling and mixing of products
   ______ b) General workplace safety
   ______ c) Potentially hazardous product ingredients
   ______ d) All of these answers are correct.

6. ____________ laws require that manufacturers supply a Material Safety Data Sheet (MSDS) for all products sold.
   ______ a) Federal
   ______ b) State
   ______ c) Both a and b are correct.
   ______ d) Neither a nor b is correct.

7. Where should you look to locate the names of hazardous ingredients used in a chemical salon product?
   ______ a) The manufacturer’s invoice
   ______ b) The product’s MSDS
   ______ c) The salon’s employee handbook
   ______ d) The EPA’s website

8. How does an employee verify that he or she has read an MSDS?

9. Disinfectants are used to destroy all BUT which of the following?
   ______ a) Bacteria
   ______ b) Fungi
   ______ c) Viruses
   ______ d) Spores
10. Is it safe to use a hospital disinfectant on stainless steel salon tools, and why or why not?


11. An item that is made of a material with no pores or openings and that cannot absorb liquids is considered ____________________________.

12. When disinfecting your equipment, you should always choose a tuberculocidal disinfectant.

   _____ True
   _____ False

13. Before a manufacturer can sell a product for disinfecting tools, implements, or equipment, it must obtain a(n) ______________ number that certifies that the disinfectant may be used in the manner prescribed by the manufacturer’s label.

14. The EPA does not grade disinfectants.

   _____ True
   _____ False

15. A disinfectant approved for use on a countertop can also be assumed to be safe for use in a pedicure tub.

   _____ True
   _____ False

16. A state agency can issue penalties against both a salon owner and the cosmetologist’s license.

   _____ True
   _____ False

17. What level of legislature writes laws to determine the scope of practice?

   _____ a) Federal
   _____ b) State
   _____ c) Both a and b are correct.
   _____ d) Neither a nor b is correct.
18. Laws are more specific than rules and regulations.
   ______ True
   ______ False

19. It is the responsibility of the cosmetologist to be aware of any changes or
   updates to the rules and regulations that apply to their work in the salon, and to
   comply with them.
   ______ True
   ______ False

**PRINCIPLES OF INFECTION**

20. If your actions result in an injury or infection, you could lose your license.
   ______ True
   ______ False

21. A ____________ organism is one that is harmful to the human body.

22. An infectious disease may or may not be spread from one person to another
   person.
   ______ True
   ______ False

23. When you scrub something with soap and water or detergent and water to
    remove all visible dirt, debris, and many disease-causing germs, it is called:
    ______ a) Cleaning
    ______ b) Disinfecting
    ______ c) Sterilizing
    ______ d) Sanitizing

24. Disinfection destroys all organisms on environmental surfaces.
   ______ True
   ______ False

25. Disinfectants used in salons must be all BUT which of the following?
    ______ a) Fungicidal
    ______ b) Sporicidal
    ______ c) Virucidal
    ______ d) Bactericidal
26. When mixing and using a disinfectant, you must always follow the instructions on the label to ensure that it is used safely and effectively.

_____ True
_____ False

27. Contaminated salon tools and equipment can spread infections from client to client if the proper ________________ steps are not taken after every service.

28. Where can bacteria exist?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

29. A surface is considered free of bacteria as long as it looks clean to the naked eye.

_____ True
_____ False

30. Differentiate between the two primary types of bacteria. ______________________

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

31. Which type of bacteria causes pneumonia?

_____ a) Bacilli
_____ b) Staphylococci
_____ c) Diplococci
_____ d) Streptococci

32. Staphylococci:

_____ a) Are not pus-forming
_____ b) Grow in clusters like bunches of grapes
_____ c) Cause strep throat and blood poisoning
_____ d) Cause tetanus and typhoid fever
33. Bacteria and viruses produce toxins.
   _____ True
   _____ False

34. Which type of bacteria causes Lyme disease?
   _____ a) Bacilli
   _____ b) Staphylococci
   _____ c) Spirilla
   _____ d) Diplococci

35. All cocci use slender, hairlike extensions called flagella for locomotion.
   _____ True
   _____ False

36. Identify the three ways in which cocci are transmitted.
   a) ____________________________________________
   b) ____________________________________________
   c) ____________________________________________

37. Bacteria multiply best in cool, bright, dry places.
   _____ True
   _____ False

38. During the ________ or __________ stage, certain bacteria coat themselves with wax-like outer shells.

39. What are the five signs of inflammation?
   a) ____________________________________________
   b) ____________________________________________
   c) ____________________________________________
   d) ____________________________________________
   e) ____________________________________________

40. An abscess is an example of a ________________________________.

41. Staphylococci are a relatively rare form of bacteria that can affect humans.
   _____ True
   _____ False
42. Staph bacteria can be picked up on doorknobs, countertops, and other surfaces.
   _____ True
   _____ False

43. How does MRSA commonly manifest and evolve (if left untreated)?

44. A(n) _____ is a reaction due to extreme sensitivity to certain foods, chemicals, or other normally harmless substances.

45. Contact with nonintact (broken) skin, blood, body fluid, or other potentially infectious materials as a result of the performance of employee duties is known as:
   _____ a) Infectious disease
   _____ b) Decontamination
   _____ c) Exposure incident
   _____ d) Inflammation

46. Lice and mites cause what type of disease?
   _____ a) Pathogenic
   _____ b) Parasitic
   _____ c) Systemic
   _____ d) Viral

47. A virus can replicate only by taking over the host cell's reproductive function.
   _____ True
   _____ False

48. Viral infections can be treated with antibiotics.
   _____ True
   _____ False

49. Which of the following is a sign of HPV infection?
   _____ a) Small black dots on the bottom of the foot
   _____ b) Redness and swelling around a healing wound
   _____ c) Yellowing of the eyes
   _____ d) Yellowing of the toenails
50. It is strongly recommended that cosmetologists be vaccinated for which strain of hepatitis?
   _____ a) Hepatitis A
   _____ b) Hepatitis B
   _____ c) Hepatitis C
   _____ d) Hepatitis D

51. Cosmetologists cannot cut live skin, but they are authorized to remove calluses.
   _____ True
   _____ False

52. In general, it is easy to contract hepatitis.
   _____ True
   _____ False

53. Explain how HIV spreads. _______________________________________________________
    ________________________________
    ________________________________

54. If you accidentally cut a client who is HIV-positive, the tool must be discarded
    and never used again.
   _____ True
   _____ False

55. Mildew is a common cause of human infections in the salon.
   _____ True
   _____ False

56. The most frequently encountered fungal infection resulting from hair services is
    tinea barbae, commonly known as ________________.

57. It is recommended that you use ________________ to quickly remove visible
    hair and debris from clippers.

58. Discuss how nail infections are spread. __________________________________________
    ________________________________
    ________________________________

59. Tinea pedis is a ___________ fungus of the foot.
60. Head lice are a type of parasite responsible for contagious diseases and conditions.

____ True
____ False

61. Contagious diseases and conditions caused by parasites should only be treated by a doctor.

____ True
____ False

62. ________ immunity is partly inherited and partly developed through healthy living, while _________ immunity is immunity that the body develops after overcoming a disease, through inoculation, or through exposure to natural allergens.

**PRINCIPLES OF PREVENTION**

63. Describe the two methods of decontamination.

________________________________________

________________________________________

64. List three ways to clean tools or implements in Decontamination Method 1.

a)

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----------------------------------------

b)

c)

----------------------------------------

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65. All tools and implements can be sterilized.

____ True
____ False

66. Using disinfectants as hand cleaners can cause skin irritation and ______, a reaction due to extreme sensitivity to certain foods, chemicals, or other normally harmless substances.

67. When mixing a disinfectant concentrate and water, you:

____ a) Pour the water and disinfectant concentrate into a third container simultaneously

____ b) Always add the water to the disinfectant concentrate
c) Always add the disinfectant concentrate to the water
d) Can combine the two substances in any order you choose

68. Identify and describe the accepted method for testing an autoclave.

69. Salons should keep an autoclave logbook for the state board to inspect. What three types of information about the autoclave should this logbook contain?
   a)
   b)
   c)

70. All disinfectants have the same concentration.
   True
   False

71. ____________, when applied to disinfectant claims, means the effectiveness with which a disinfecting solution kills organisms when used according to the label instructions.

72. List the characteristics of the ideal disinfectant.
   a)
   b)
   c)
   d)
   e)
   f)
   g)
   h)
   i)
   j)
73. If bleach is used to disinfect surfaces or equipment, it is critical to use soap or a detergent first to thoroughly clean the surface or equipment and remove all debris.

_____ True
_____ False

74. List the eight recommended tips for using disinfectants.

a) ____________________________________________

b) ____________________________________________

c) ____________________________________________

d) ____________________________________________

e) ____________________________________________

f) ____________________________________________

g) ____________________________________________

h) ____________________________________________

75. What are quats?

____________________________________________

76. Quat solutions usually disinfect surfaces and implements in?

_____ a) 5 minutes

_____ b) 10 minutes

_____ c) 15 minutes

_____ d) 20 minutes
77. Phenolic disinfectants:
   _____ a) Are completely safe for the environment
   _____ b) Are not tuberculocidal
   _____ c) Have a very low pH
   _____ d) Are a form of formaldehyde

78. Fumigants are a type of disinfectant commonly used in salons today.
   _____ True
   _____ False

79. What are the two main advantages of the disinfectant accelerated hydrogen peroxide (AHP)?
   a) ______________________________________
   b) ______________________________________

80. The technical term for household bleach is ____________________________.

81. Explain how to mix a bleach solution.
   ______________________________________
   ______________________________________
   ______________________________________
   ______________________________________
   ______________________________________

82. Explain why formalin tablets are no longer used in the salon.
   ______________________________________
   ______________________________________
   ______________________________________
   ______________________________________
   ______________________________________

83. What are the nine things you should always do when using disinfectants?
   a) ______________________________________
   b) ______________________________________
   c) ______________________________________
d) 

e) 

f) 

g) 

h) 

i) 

**84.** What are the two things you should never do when using disinfectants?
   a) 
   b) 

**85.** Multi use items must have hard, nonporous surfaces.
   - True
   - False

**86.** Single-use items cannot be properly cleaned so that all visible residue is removed.
   - True
   - False

**87.** What are three examples of multi use tools?

   

   

   

**88.** Define the term *porous.*

   

   

**89.** Some porous items can be safely cleaned, disinfected, and used again.
   - True
   - False

**90.** If you are not sure if an item can be safely cleaned, disinfected, and used again, what should you do?
91. List seven examples of single-use items.
   a) 
   b) 
   c) 
   d) 
   e) 
   f) 
   g) 

92. Electric sterilizers and bead sterilizers can be used to effectively disinfect and sterilize implements.
   _____ True
   _____ False

**UNIVERSAL PRECAUTIONS**

93. The term __________________ refers to guidelines published by OSHA that require employers and employees to assume that all human blood and body fluids are infectious for bloodborne pathogens.

94. Define the term asymptomatic. __________________________

95. What are the three main precautions that protect salon employees in situations in which they could be exposed to bloodborne pathogens?
   a) 
   b) 
   c) 

96. If a client suffers a cut or an abrasion that bleeds during a service, what should the salon professional do?
   a) 
   b) 
   c) 

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*Chapter 5 Infection Control: Principles and Practices*
PROFESSIONAL SALON IMAGE

97. List the 22 recommended guidelines for keeping a salon looking its best.

a)  

b)  

c)  

d)  

e)  

f)  

g)  

h)  

i)  

j)  


h) 

i) 

j) 

k) 

l) 

m) 

n) 

o) 

p) 

q) 

r) 

s) 

t) 

u) 

v) 

98. The cosmetologist is professionally and legally responsible for following state and federal laws and rules.

______ True

______ False

**DISINFECTION PROCEDURES**

99. State regulations require that all tools and equipment be ________ and ________ before and after every service.

100. List the seven steps involved in disinfecting nonelectrical tools and equipment.

a) 

b) 

_____________________________
101. To prevent capes used for cutting, shampooing, and chemical services from touching a client's skin, use ________________.

102. Explain how to clean and disinfect electrical equipment. ________________

103. Outline the procedure to follow after each client has used a whirlpool foot spa or air-jet basin.
   a) ________________
   b) ________________
   c) ________________
   d) ________________
   e) ________________
104. At the end of every day, what should the cosmetologist do to disinfect units with footplates, impellers, impeller assemblies, and propellers?

a) 

b) 

c) 

d) 

105. List the steps to take at the end of every day to disinfect nonwhirlpool foot basins or tubs.

a) 

b) 

c) 

d) 

106. Discuss the action and use of chelating soaps. 

107. Additives, powders, and tablets can eliminate the need to clean and disinfect. 

_____ True 

_____ False
108. If you cannot disinfect an item, you should _________ the item.

109. _______________________ is one of the most important actions you can take to prevent germs from spreading from one person to another.

110. Medical studies suggest that antimicrobial and antibacterial soaps are no more effective than regular soaps and detergents.

    _____ True
    _____ False

111. What is the procedure for proper hand washing?

   a) ______________________________
      ______________________________
      ______________________________
      ______________________________
      ______________________________

   b) ______________________________
      ______________________________
      ______________________________
      ______________________________
      ______________________________
      ______________________________

   c) ______________________________
      ______________________________
      ______________________________
      ______________________________
      ______________________________

   d) ______________________________

112. _________ are agents formulated for use on skin.