The Challenges of Waterborne Infections: A Microbiology Perspective

Infections caused by waterborne microorganisms are among the most harmful to global health. These include diseases caused by a variety of bacteria, protozoa, viruses, and other parasites. They are able to proliferate in a many natural water sources, as well as man-made systems designed to provide potable water for public and health care use. An initial overview of the principles and epidemiology associated with waterborne infections will be followed by discussion of representative, clinically important pathogens and the challenges they present to healthcare settings and the general population. With specific regard to dentistry, comprehensiveness in infection prevention recommendations now address the potential for colonization and contamination of dental treatment water. Emphasis here will focus on current waterborne microbial challenges, including Pseudomonas, Legionella pneumophila, and nontuberculous Mycobacteria (NTM) species.

Vaccine Recommendations: Science, Success & Myths

This seminar will consider vaccination as an effective public health intervention approach for prevention of both the general population and health care professionals. Emphasis will focus on the most recent updated information pertaining to vaccines used in the prevention of adult infectious disease, especially those with increased occupational health care risks. Discussion concerning recent public health vaccine recommendations, such as those targeting shingles and human papilloma virus (HPV) will also be included. The rationale and classification of available vaccines and emerging technologies will be discussed in order to provide participants appropriate scientific and clinical evidence, which can be useful when considering the necessity for their own protection, as well as protection of the general public and individuals diagnosed with immune compromising conditions and diseases. In addition, important information will be presented concerning certain public misconceptions against vaccines which threaten their documented global success against many preventable infectious diseases.

I. Let’s Talk About Infection Control

A. Current guidelines, recommendations overview & exposure control plan for dental practice - CDC, ADA, OSHA
B. Current Statistics - Hepatitis C
C. Aseptic Techniques - hand hygiene
D. Post-Exposure Management Protocols

II. The Challenges of Waterborne Infections

A. Waterborne diseases overview
   1. Global impact
   2. Infectious agents
B. Outbreaks and characteristics
C. Waterborne infections in health care
   1. Medical outbreaks and sources of cross-infection
   2. Representative pathogens
D. Implications for dental water sources

III. Vaccine Recommendations

A. Public health impact
   1. Vaccine principles and types
   2. CDC recommendations
B. Discussion of representative vaccines
   1. HBV, influenza
   2. Zoster, HPV
C. Public Health Knowledge
   1. Herd immunity
   2. Mandated requirements
D. Science vs. vaccine myths

LEARNING OBJECTIVES

At the completion of this course the participants should be able to:

• To use the most current infection control recommendations for dentistry as reinforcement for clinicians of an effective, practical infection control program.
• Understand the routine application of various infection control practices and protocols based on accumulated scientific- and clinical-based evidence and regulatory requirements.
• Comprehend the variety of acceptable product choices for accomplishing an infection control goals in a dental facility.
• Comprehend the historical and current challenges waterborne infections present to the population and healthcare facilities.
• Understand the unique colonization and pathogenic properties of microorganisms that promote cross-contamination and infection in susceptible hosts.
• Describe infectious disease characteristics and outbreaks of specific waterborne pathogens that challenge our health care infection control procedures.
• Discuss available approaches to control microbial colonization of waterlines in dental and medical settings.
• Comprehend the overall impact vaccinations have had in protecting the population against many infectious diseases.
• Discuss the latest CDC vaccine recommendations for health care professionals.
• Understand the rationale for other representative vaccination recommendations, including human papilloma virus infections.
• Discuss the dangers of public misconceptions against vaccines.

"HEALTH, SAFETY, PROTECTION & INFECTION CONTROL IN THE DENTAL PRACTICE"

Let’s Talk About Infection Control

This seminar will discuss the current infection control regulations and recommendations for dentistry. The most current CDC Guidelines for Infection Control in Dentistry, along with updated data regarding health care risks, and preventive measures, will serve as frameworks for this presentation. Evidence-based information also will be discussed to address current issues where perceptions and misuse of infection control procedures and products are in conflict with scientific and clinical knowledge. A major goal of this presentation is to help dental professionals increase their understanding of the "why" as well as the "what" of infection control practices.

Confirmed & Hotel Directions will be mailed
10 business days prior to the seminar.
Please carefully complete the registration form to avoid delay.

REGISTRATION FORM

Cost: $285 for Dentists / $185 for RDHs and Aux. / U.S. Funds
$145 for Staff attending w/ Dr. (details in yellow inset on reverse side)
Late Fee: Add $10/registrant if after Friday, June 14, 2019.
Please enter your name as it appears with the State Board of Dental Examiners for your CE credit.

Confirment will be mailed to the address below: Home or Office of
Home or Office Mailing Address
City / State / Zip

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