



Dental Aerosols and Exposure Mitigation in Clinical Settings

This session will include two parts. The first part of this session will share some background on dental aerosols, discuss newer methods of detecting and measuring airborne pathogens such as viral droplet nuclei, including coronaviruses, and then highlight some of the means available for inactivating airborne pathogens. The second part of this session will focus on source controls available to dental personnel, and an evaluation of the effectiveness of some source controls in mitigating exposure to aerosols in dental clinic settings.

LEARNING OBJECTIVES:

1. List types of aerosols that can be generated in a dental setting.
2. Describe newer methods of detecting and measuring airborne pathogens.
3. Identify some exposure controls that can be used to mitigate aerosol exposures in dental settings

CONTINUING EDUCATION

CE CREDITS: 1.5

EDUCATIONAL METHOD: Lecture, Recorded, Self-instructional (self-study)

LOCATION: Online

ORIGINAL RELEASE DATE: June 2022

EXPIRATION DATE: June 30, 2025

RECOGNITION STATEMENT

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SPEAKERS:

Jeff Williams, PhD, BVSc, MRCVS
CHIEF SCIENCE OFFICER
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Dr. Williams earned his Ph.D at the University of Pennsylvania, and his B.V.Sc at the University of Bristol. He is an Emeritus Professor of Microbiology and Molecular Genetics at Michigan State University. He has published 200 + peer-reviewed publications, and book chapters, and is an Elected Fellow American Association for Advancement of Science.

Disclosures: Stock Shareholder - Briotech Inc

Brie Blackley, MS, PhD
RESEARCH INDUSTRIAL HYGIENIST
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Dr. Brie Hawley Blackley is a Research Industrial Hygienist in the Respiratory Health Division of NIOSH, the National Institute for Occupational Safety and Health. She holds a doctorate (PhD) in Cell and Molecular Biology from Colorado State University, a MS in Environmental Health, with a specialization in Industrial Hygiene, from Colorado State University, and a BS in Animal Science from the University of Delaware. She actively serves as a Project Officer in the Health Hazard Evaluation program at NIOSH and draws from a background in aerosol science and toxicology. Her current research includes assessing exposures and health outcomes in healthcare workers exposed to peroxygen compounds, exposures to alpha diketones in coffee production, and aerosol exposures and exposure controls in dental settings.

Disclosures: No relevant financial relationships to disclose

Kimberly Anderson, PhD
RESEARCH INDUSTRIAL HYGIENIST
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Dr. Anderson is a research industrial hygienist at the National Institute for Occupational Safety and Health. Her research focuses on computational fluid dynamics modeling and developing and evaluating engineering controls.

Disclosures: No relevant financial relationships to disclose