



Academy of Prosthodontics 2024 Annual Scientific Session Four Seasons Hotel, Denver, Colorado May 29 – June 1, 2024

Program Speaker – Peter C. Fritz

Title

Artificial Intelligence in Dentistry: Unintended Outcomes and Regulatory Ramifications

Abstract

Join us for a captivating lecture delving into the groundbreaking fusion of Artificial Intelligence (AI) and dentistry, exploring its revolutionary impact and the intricate web of unintended consequences it weaves. Discover how AI-driven technologies are reshaping diagnostics, treatment planning, and patient care in dentistry, promising unparalleled precision and efficiency. However, delve deeper, and we uncover the nuanced challenges and ethical dilemmas accompanying this technological evolution. From concerns about data privacy to the potential displacement of traditional dental practices, this lecture navigates the complex terrain where innovation meets responsibility. Embark on a journey to understand the transformative power of AI in dentistry, with all its promising and terrifying implications.

Learning Objectives

1. Understand the transformative potential of AI in dentistry, exploring its role in diagnosis, treatment planning, and patient care, while delving into the ethical considerations and potential pitfalls that arise from its implementation.
2. Explore practical applications of AI technologies in dentistry, from improving diagnostic accuracy to streamlining administrative tasks, and discuss strategies for integrating these innovations into clinical practice to enhance patient outcomes and practice efficiency.
3. Examine the unintended consequences of AI adoption in dentistry, including issues related to privacy, data security, and patient-doctor relationships, and gain insights into mitigating risks and maximizing the benefits of these revolutionary technologies within dental healthcare settings.

Biography

PETER C. FRITZ, B.SC, DDS, FRCD(C), PHD (PERIO, MBA, LLM

Peter is an intrepid lifelong, global learner. He is a certified specialist in periodontics and is in full-time private practice in Fonthill, Ontario where he leads an extraordinary team of clinicians, scientists, explorers, and artists who are all working together to innovate the collaborative dental specialty of periodontics to redefine the patient experience using their heads, heart and hands. Peter lives by his academic mission: "Never stop learning because the world around you never stops teaching."

Peter is also an Adjunct Assistant Clinical Professor, Division of Otolaryngology-Head & Neck Surgery, Department of Surgery, Michael DeGroote School of Medicine, McMaster University and Adjunct Professor Department of Kinesiology, Faculty of Applied Health Sciences, Centre for Bone and Muscle

Research, Brock University where he is engaged in many ongoing research projects as well as graduate student mentorship both in the lab and the clinic.

He completed an MBA and then recently a law degree focusing on blockchain, cybersecurity and artificial intelligence. Peter is presently pursuing a second law degree at the University of Toronto.

As a futurist and advocate of perpetual change, Peter sets a clear and ambitious path to success based on scientific rigour, inspiring others, and clinical excellence. He strives for improvement, guided by his lifelong goal in all elements of his life, "Give me success or its eternal pursuit, and I'll take the pursuit."