Academy of Prosthodontics 2025 Annual Scientific Session
The Westin Kierland Resort and Spa, Scottsdale, AZ | May 28-31, 2025

Program Speaker – Ahmet Orgev, DDS, MSc, MSD, FACP

Title

Artificial Intelligence to Enhance Implant Dentistry: Current Trends

Abstract

Patients seek to restore or improve their appearance, speech, and chewing ability due to missing or deteriorating teeth. The introduction of recent technology, such as artificial intelligence, into digital dentistry, has opened new ways to assess our patients more efficiently and predictably. Digital technology facilitates the restorative aspect and aids in implant placement in a time-efficient, accurate, and minimally invasive manner, reducing the risk of complications or compromised aesthetic results. This presentation will focus on using artificial intelligence to diagnose problems, beginning with the restorative aspect, which aids in surgical decision-making as part of treatment sequencing and communication. The presentation will cover innovative digital techniques for understanding the patient's restorative needs, transferring the restorative plan to surgical planning, and predictably executing the surgical plan. With digital dentistry rapidly advancing, we will explore how artificial intelligence can support digital implant planning and how interdisciplinary collaboration can optimize the outcome of virtual dental implant treatment planning.

Learning Objectives

- Describe how artificial intelligence (AI) can assist in restorative planning in implant dentistry.
- Describe benefits of AI in surgical planning.
- Describe how AI bridges the gap between restorative and surgical plans and interdisciplinary communication.
- Anayze whether AI is a reliable solution for restorative/surgical aspects of implant dentistry.

Biography

Dr. Ahmet Orgev obtained his specialty certificate in prosthodontics and MSD degree from Indiana University School of Dentistry. He is a Clinical Associate Professor, Department of Restorative Dentistry, State University of New York at Buffalo, and Director of UB Implant Center. He is a Diplomate of the American Board of Prosthodontics, Fellow of the American College of Prosthodontists, and an ITI Fellow. He instructs advanced education programs in Prosthodontics, Periodontics, Oral Surgery, and Implant Fellowship. Dr. Orgev earned his dental degree and Master of Science in Oral Surgery from Yeditepe University, School of Dentistry, Istanbul, Turkey. He received the ITI Scholarship and Straumann Digital Implant Fellowship at the University of Florida, where he spent two years (2017-2019). Dr. Orgev's has presented at national and international conferences and authored several articles in peer-reviewed journals. He is a member of the Academy of Osseointegration Young Clinicians Committee and e-Poster Committee. His research focuses on enhancing complex implant surgeries and restorative rehabilitations using digital technologies such as artificial intelligence and virtual reality, guided implant surgery, bone regeneration techniques, and restorative materials in implant dentistry.

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