



FACTORS AFFECTING THE ACCURACY OF GUIDED IMPLANT SURGERY

DR. ARNDT GUENTSCH

Malpositioned implants are hard to restore, may compromise the esthetical outcome and are a main factor for soft tissue dehiscencies around implants. Guided implant surgery improves the accuracy of implant placement for both experienced provider and beginners. Static computer-assisted implant surgery is the first-line option in guided implant surgery due to the available data and reduced cost of the equipment. However, the accuracy of guided surgery can be impacted by patient factors, the data acquisition and processing, the guide design and production, the sleeve type and height, the used guided surgery system, the surgical approach, and the support of the guide to name just a few. The presentation will give an introduction into guided implant surgery and will review the latest research to allow provider to understand, to plan, and execute guided surgery in a way that highest accuracy can be achieved.

EDUCATIONAL OBJECTIVES

- Define the benefits of guided implant surgery
- Distinguish between static computer-assisted implant surgery (sCAIS), dynamic navigation, and robot-assisted implant surgery (RAIS)
- Know the basic digital workflow for computer assisted implant surgery
- Understand the impact of design principles of surgical guides on the accuracy of implant placement

CLINICIAN



ARNDT GUENTSCH, DMD, PHD, MHBA, MS graduated from dental school in Germany in 2000 and received training in Periodontics at the University Hospital Jena, Germany, and Marquette University School of Dentistry, Milwaukee, WI, USA. Dr. Guentsch is the Chair of the Department of Surgical Sciences at Marquette and teaches in predoctoral and graduate Periodontics. His passion is to combine clinic and research. Dr. Guentsch authored over 100 publications, 64 of them were published in peer-reviewed journals. His clinical practice and research focuses on guided implant surgery. Dr. Guentsch has received research support from Straumann and Versah and is a speaker for the Osseodensification Academy.

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WEDNESDAY
APRIL 10, 2024

5:00 PM - 6:30 PM (PACIFIC)
(1.5 Hours of Instruction)

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