# Skeletal anchorage with palatal mini-implants

SEMINAR


## Dr Maximilian Küffer, Germany

D.D.S., Msc.


**7 CE**
Credits

**DATE:**
08 May 2026
09:00 – 18:00

**LOCATION:**
Dubai | UAE

**TARGET AUDIENCE:**
General Dentistry, Orthodontics


## Abstract

This comprehensive course provides a detailed and practice-oriented overview of skeletal anchorage in orthodontics, guiding participants from foundational concepts to advanced clinical applications. Designed for orthodontic professionals, the course focuses on the clinical use of palatal mini-implants and explores their biomechanical advantages, indications, and integration into modern treatment workflows.

The program begins with a structured introduction to TADs, covering anatomical insertion sites and insertion techniques. Emphasis is placed on both freehand and guided protocols, providing participants with the tools to select the most suitable approach for various clinical scenarios. Attendees will also gain insight into evolving clinical workflows, with a focus on the transition from analog procedures to digital planning and CAD/CAM-based appliance fabrication, which greatly enhances treatment precision and predictability.

Core lectures delve into key maxillary mechanics such as molar distalization, anterior mesialization, molar intrusion, and extrusion of impacted teeth.

The final section of the course is dedicated to interdisciplinary treatment planning. It explores the role of TADs in complex clinical contexts, such as orthodontic preparation for orthognathic surgery and pre-prosthodontic treatments. Participants will learn how skeletal anchorage facilitates controlled tooth movement, enhances stability, and supports comprehensive rehabilitative and surgical outcomes.

By the end of this course, clinicians will be equipped with the practical tools and knowledge to confidently integrate skeletal anchorage into their daily practice—optimizing outcomes and expanding treatment possibilities.


## Learning Objectives

- Understand the characteristics, indications, and biomechanical advantages of palatal mini-implants in modern orthodontics.
- Learn the characteristics of anatomical insertion sites and TAD insertion techniques.
- Incorporate skeletal anchorage into clinical workflows using analog and digital protocols, including CAD/CAM appliance design.
- Gain clinical insight into the application of TAD-supported mechanics for sagittal and vertical control, including distalization, mesialization, intrusion, and management of impacted teeth.
- Explore the interdisciplinary role of skeletal anchorage in orthodontic preparation for orthognathic surgery and pre-prosthodontic treatment.

## Agenda

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| 09:00 – 10:45 | Fundamentals & Clinical Workflows<br>• Insertion sites<br>• Analogue procedures & manufacturing<br>• Digital treatment planning & CAD/CAM |
| 10:45 – 11:15 | Coffee Break |
| 11:15 – 13:00 | Upper Jaw Mechanics<br>• Distalisation & mesialisation<br>• Molar intrusion |
| 13:00 – 14:00 | Lunch Break |
| 14:00 – 15:15 | Orthopaedic Treatments<br>• Rapid Maxillary Expansion (RME)<br>• Class III therapy |
| 15:15 – 15:45 | Coffee Break |
| 15:45 – 16:45 | Interdisciplinary Orthodontics<br>• Pre-surgical orthodontics<br>• Pre-prosthodontic therapy<br>• Temporary prosthodontics |
| 16:45 – 17:00 | Final Discussion |

Registration & Pricing

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