


# Transverse: The first step in orthodontics as the last step for finishing


HANDS-ON TRAINING



Prof Kee-Joon Lee, Korea

7CE  
Credits

 **DATE:**  
16 Nov 2024, 10:00 - 18:00

 **LOCATION:**  
Dubai | UAE

 **TARGET AUDIENCE:**  
General Dentistry, Orthodontics

## Abstract

What is the first step of orthodontics? Orthodontics is about the movement of teeth, so the establishment of permanent dentition is the first step of the treatment. This requires an understanding of the biomechanics based on center-of-resistance perspectives. The miniscrew-type TADs deliver constant single force regardless of the patient's compliance. Hence the actual treatment outcomes are strictly dependent on the force system designed by the orthodontist, which is why knowing the biomechanical principles is even more important than in conventional orthodontics. Moreover, the characteristics of the biomechanics and the force systems for miniscrew anchorage compared to conventional mechanics need to be extensively explained and applied to practical clinical situations. Specified anatomical and biomechanical considerations can help the operators achieve successful treatment outcomes with minimal or no additional laboratory work.

## Learning Objectives

- Understanding of the biomechanics for best efficiency of tooth movement, via direct application of force system, eliminating most of the laboratory procedure
- Understanding the center-of-resistance perspectives for minimal orthodontics
- Understanding the importance of early & late transverse correction for finishing
- Understanding the biology and biomechanics for troubleshooting failure in transverse correction
- Hands-on practice for simple and easy installation and activation of MARPE

## Agenda

09:00 – 09:30	<b>Lecture 1</b> First step of orthodontics: Know the center of resistance and don't read the textbook <ul style="list-style-type: none"><li>• Concept of biology/anchorage</li><li>• Single tooth movement for primary care in children</li><li>• Segmental movement for aged patients</li></ul>
11:30–11:45	Coffee break
11:45–13:00	<b>Lecture 2</b> First step of orthodontics: Transverse correction <ul style="list-style-type: none"><li>• Transverse-why?</li><li>• Why relapse?</li><li>• How to diagnose</li></ul> Q & A
13:00–14:00	Lunch break
14:00–16:00	<b>Hands-On</b> <ul style="list-style-type: none"><li>• How to activate: learning from the suture biology</li><li>• Regional anatomy for proper insertion sites</li><li>• Simple &amp; quick installation of Self MARPE</li></ul>
16:00–16:15	Coffee break
16:15–17:00	<b>Lecture 3</b> Latest trends in transverse correction <ul style="list-style-type: none"><li>• How to maximize success in MARPE</li><li>• Troubleshooting for finishing (1): repeated expansion</li><li>• Troubleshooting for finishing (2): failure case-what to do</li></ul> Q & A

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