

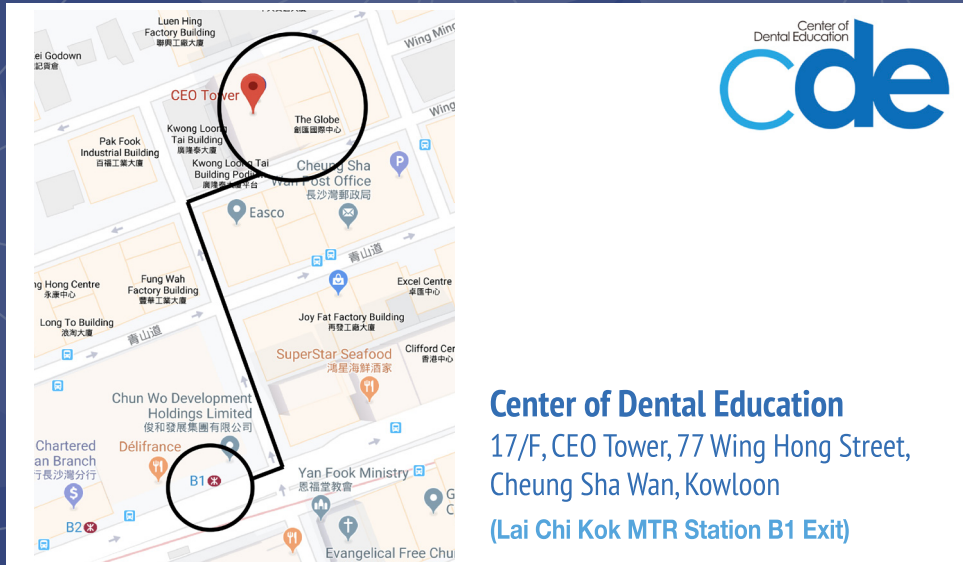
## About the Speaker



### Dr. Steve Law

The University of Hong Kong 1988  
MFGDP (RCS, England) 1996  
MFDS (RPCS, Glasgow) 2016  
MFDS (RCS, Edinburgh) 2018

Dr. Law was graduated from the Faculty of Dentistry University of Hong Kong in 1988. He obtained the Membership of the Faculty of General Dental Practitioners of the Royal College of Surgeons of England in 1996, the Membership of the Faculty of Dental Surgery of the Royal College of Physicians and Surgeons of Glasgow in 2016, the Membership of the Faculty of Dental Surgery of The Royal College of Surgeons of Edinburgh in 2018, and the fellow of the International Congress of Oral Implantologists in 2005. He is the member of International Association of Orthodontics (IAO) since 2012. He is a private dental practitioner in Hong Kong since 1988. Dr. Law became certified to use Invisalign in 2001 and he is one of the top Invisalign doctors in Hong Kong. He is one of the mentors of the Invisalign (HK) mentorship programme and the speaker of the Invisalign company. Dr. Law got the Dr. Waldemer Brehm Education Award from the International Association of Orthodontics (IAO) at 2016. Dr. Law gave lectures at Hong Kong, Macau, China, Taiwan and Phillipine in the past 15 years.



**Center of Dental Education**  
17/F, CEO Tower, 77 Wing Hong Street,  
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### I would like to enroll in the lecture :

- A) **Lecture 20 Oct 2019 (Sun) 9:00am - 6:00pm**  
 HKD 2,000 / USD 250 (on or before 13 Oct 2019)  
 HKD 3,000 / USD 375 (on or after 14 Oct 2019)

- B) **Hands on 21 Oct 2019 (Mon) 9:00am - 6:00pm**  
 HKD 4,000 / USD 500 (on or before 13 Oct 2019)  
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Course fee includes: coffee breaks, lunch and certificate



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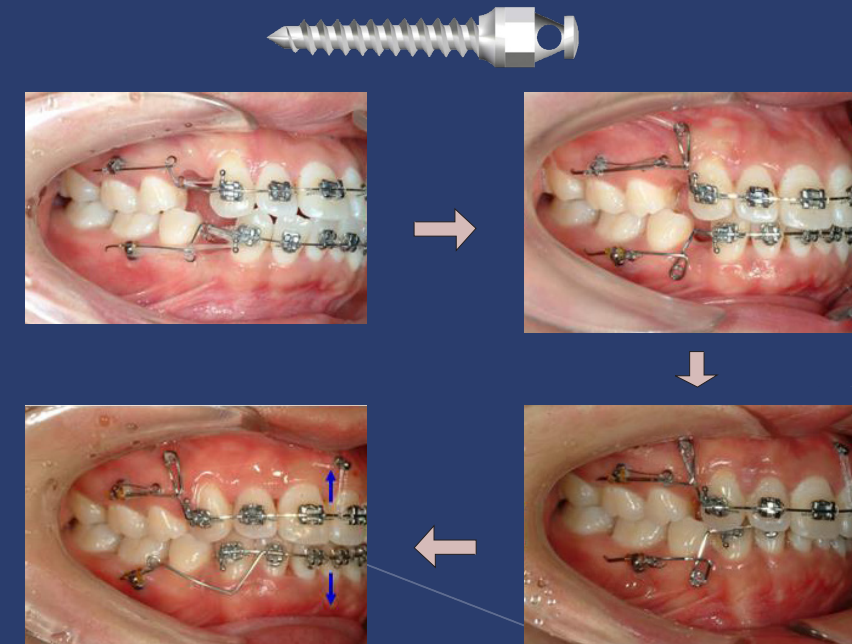
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**Disclaimer:** The organizer reserves the right to cancel, postpone or change the venue, date and time of the event due to unforeseen circumstances. In the event of cancellation, only course fees will be refunded.



## Micro - Implant Anchorage (MIA) in Orthodontic Treatment



**Date & Time:** **Lecture 20 Oct 2019 (Sun) 9:00am - 6:00pm**  
**Hands on 21 Oct 2019 (Mon) 9:00am - 6:00pm**

**Venue:** **Center of Dental Education (cde)**  
17/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon

**Language :** English

**CME Points :** NONE

## About the Speaker



### Professor Hee-Moon KYUNG

Department of Orthodontics, School of Dentistry,  
Kyungpook National University(KNU)

Dr. Hee-Moon Kyung is Professor of the Department of Orthodontics at Kyungpook National University in Daegu, Korea. Dr. Kyung is one of the most experienced clinicians in the development and utilization of microimplants in orthodontic treatment worldwide. He has given more than 300 courses throughout world about microimplant anchorage and lingual orthodontic treatment. He is a principle author of the book entitled Microimplants in Orthodontics, a volume that describes in detail the protocols used by Dr. Kyung and his colleagues. He is an active member of Angle Society. He was a president of World Society of Lingual Orthodontics & a president of Korean Association of Orthodontists.

## APPOINTMENTS

- 1974.03 - 1980.02: College of Dentistry, Kyungpook National University, Daegu, Korea
- 1980.03 - 1983.02: Orthodontic training, Infirmary Hospital of Dental College, Kyungpook Natl. University
- 1986.05 - present: Fulltime Instructor--> Prof., Dental School, Kyungpook Natl. Univ.
- 1991.04 - 1992.03: Visiting Professor, Department of Orthodontics, Faculty of Dentistry, Osaka University, Japan
- 1996.01 - 1997.12: Visiting & Clinical Associate Professor, of Orthodontics, Faculty of Dentistry, The University of British Columbia, Canada
- 2001.01 - 2003.01: Dean, College of Dentistry, Kyungpook National University
- 2003.10 - present: Founding member of World Society of Lingual Orthodontics
- 2007.11 - 2010.04: President, Korean Association of Lingual Orthodontists
- 2010.04 - present: Active member of Angle Society (East Branch)
- 2015.07 - 2017.06: President of World Society of Lingual Orthodontics
- 2016.04 - 2018-03: President of Korean Association of Orthodontists

## Synopsis

Control of anchorage is one of the most important aspects of orthodontic treatment. There are times when absolute anchorage or maximum anchorage condition is needed which have a high "resistance to displacement". However, considering Newton's Third Law that an applied force can be divided into an action component and an equal and opposite reaction component, it is almost impossible to achieve absolute anchorage condition where reaction force is producing no movement at all especially with intraoral anchorage. Thus extraoral anchorage is traditionally used to reinforce anchorage. However, the use of extraoral anchorage demand full cooperation of patient as well as 24 hours of continuous wears which cannot be done. Therefore, it is extremely difficult to do orthodontic treatment without compromising anchorage.

To obtain absolute anchorage, prosthetic implant have been used as intraoral anchorage. However, previous implant could not produce efficient orthodontic treatment with its bulky size and high cost. Thus smaller diameter microscrew is started to apply rather than bulky previous one. Originally, microscrew is used to fix mini plate into bone in surgical field. However, it is difficult to put orthodontic element onto screw head of surgical microscrew. This lead to place ligature wire on cervical portion of screw by forming connectional loop. Often there is periodontal involvement caused by location of ligature wire, which is under screw and toward gingiva. This location allowed gingival embedment of ligature wire producing steady irritation on gingiva and also caused difficulty to patient to keep good oral hygiene around screw. Also, embedment of orthodontic element in gingiva is frequently due to its location toward gingiva causing difficulty to place orthodontic elements on screw.

To compensate these drawbacks, we developed orthodontic Microimplant (Absoanchor © R), which is exclusively used for orthodontic treatment and modified its upper structure as lingual button shape. Also, by giving inclination on cervical area of button allows natural separation of elastomer from gingiva when elastomer like Ni-Ti coil spring is applied. A hole is made in upper structure for smooth application of elastomer such as elastomeric thread, or ligature wire.

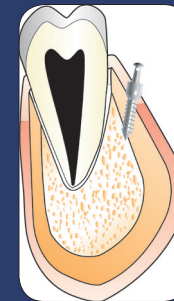
At present, the smallest 1.2-1.3 mm diameter microimplants are widely used and are possible to place in-between roots. A lot of cases have been reported about successful achievement obtaining absolute anchorage by placing this microimplant in between roots.

Here, I would like to introduce types and placement of microimplant which we had developed for orthodontic purpose and to present some interesting cases.

Lecture 20 Oct 2019 (Sun) 9:00a.m - 6:00p.m

1. Introduction
2. Review of Literatures and Developmental Background
3. Biomechanics in Micro-implant Anchorage
4. Case Presentations

- i. Bodily retraction of maxillary anterior teeth
- ii. Scissors bite correction
- iii. Retraction of whole dentition
- iv. Class II molar correction
- v. Control of Vertical relationships (Deep bite & Open bite)
- vi. Midline correction
- vii. Asymmetric extraction
- viii. Anchorage for intermaxillary elastics
- ix. Molar uprighting & root movement
- x. Molar intrusion
- xi. Correction of occlusal canting
- xii. MIA for orthognathic surgery case
- xiii. MIA in lingual orthodontic treatment



by Prof. Kyung

### 5. Clinical Considerations

- i. Surgical Procedures
- ii. How to prevent root injury?
- iii. What will happen after root injury?
- iv. Success & failure of microimplants

### 6. The Clinical Use of the SH2018-10 Micro-implant at the Infra Zygomatic Crest

#### 📺 Live Patient Demonstration

by Dr. Law

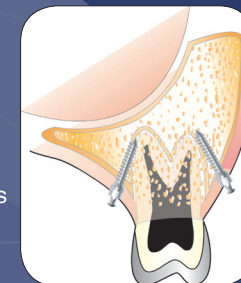
Hands on 21 Oct 2019 (Mon) 9:00a.m - 6:00p.m

### 1. Micro-Implant Anchorage( MIA)

- i. Kinds of Absoanchor orthodontic Micro-Implant(MI)
- ii. Terms used in MI surgical procedures
- iii. General rule in choosing proper size of MI according sites
- iv. General rule in choosing proper size of drill & handpiece
- v. Avoiding root damage & MI fracture
- vi. Postoperative patient management
- vii. Removal of MI

### 2. Installation Exercise

- i. Instrumentation for installation
- ii. Installation exercises on special resin model
- iii. Drill free and pre-drilling exercise on animal bones
- iv. Fracture exercise of different MIs
- v. Driving exercises using different type of MI drivers
- vi. Force application exercise to MIs



by Prof. Kyung

The following cases were treated by Prof. H.M. Kyung

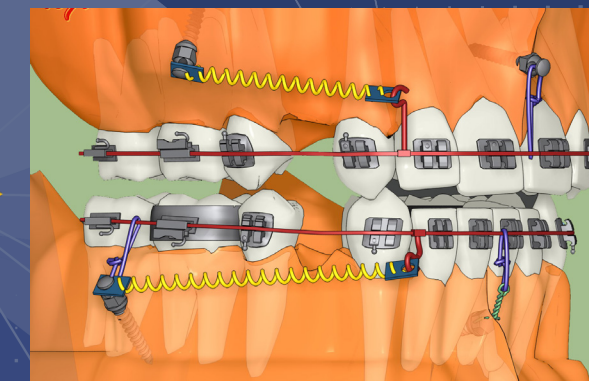
#### CASE 1



#### CASE 2



#### CASE 3



The following cases were treated by Dr. Steve Law



\* The participants can keep the typodont without braces and the micro-implants (worth HKD1,500) after the hands-on course