

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. Steve Law invited Prof. Hee-Moon Kyung to give us a lecture about micro-implant for orthodontic anchorage at Hong Kong in 2003, 20 years ago.

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I would like to enroll in the lecture :

A) **Workshop 19 June 2023 (Mon) - 9:00am - 6:00pm**

HKD 2,800 (on or before 5 June 2023)

HKD 3,500 (on or after 6 June 2023)

B) **Hands on Course 20 June 2023 (Tue) - 9:00am - 6:00pm**

HKD 4,000 (on or before 5 June 2023)

HKD 4,800 (on or after 6 June 2023)

Course fee includes: coffee breaks, lunch and certificate

Should you have any enquiries, please feel free to contact - Ms. Lucy Law 9012 9598

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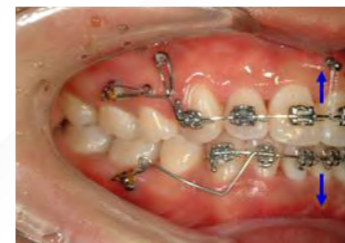
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Hong Kong Stomatological Association

Presents

Micro - Implant Anchorage (MIA) in Orthodontic Treatment



Date & Time: **Workshop - by Prof. Hee-Moon Kyung**

19 June 2023 (Mon) , 9:00am - 6:00pm

Hand on course - by Prof. Hee-Moon Kyung & Dr. Steve Law

20 June 2023 (Tue) , 9:00am - 6:00pm

Venue: **Forever Green Dental Products Limited**

Unit 1308, Wing On Kowloon Centre, 345 Nathan Road, Jordan, Kln, Hong Kong

Language : **English**

DCHK CPD Points: Pending

HKDA CPD Hours: Pending

About the Speaker



Professor Hee-Moon KYUNG

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

Dr. Hee-Moon KYUNG is an Honorary Professor at the Department of Orthodontics, Dental School, Kyungpook National University (KNU), Daegu, Korea. He 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 in over

60 countries about microimplant anchorage and lingual orthodontic treatment. He has published more than 150 articles, including several contributions to books. He was ranked No.18 on the most common authors of the cited articles during the last 7 decades (1946-2016) according to an article of Angle Orthodontists, 2018.

APPOINTMENTS

1986.05 - 2022.02: Full time Instructor - Professor
School of Dentistry, Kyungpook National University (KNU)

1991.04 - 1992.03: Visiting Scholar, Department of Orthodontics,
Faculty of Dentistry, Osaka University, Japan

1996.01 - 1997.12: Visiting & Clinical Associate Professor,
Department of Orthodontics, Faculty of Dentistry,
The University of British Columbia (UBC), Canada

2001.01 - 2003.01: Dean, College of Dentistry, Kyungpook National University (KNU)

2003.10 - present : Founding member of World Society of Lingual Orthodontics (WSLO)

2007.11 - 2010.04: President, Korean Association of Lingual Orthodontists (KALO)

2010.04 - present : Active member of Angle Society (East Branch)

2015.07 - 2017.07: President of World Society of Lingual Orthodontics (WSLO)

2016.04 - 2018.03: President of Korean Association of Orthodontists (KAO)

2022.03 - present : Honorary Professor, Dental School, Kyungpook National University (KNU)

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 continues 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®), 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.

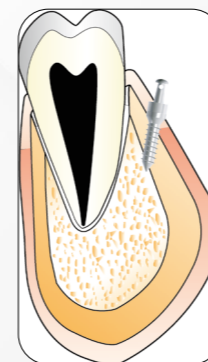
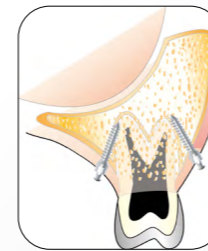
Here, I would like to introduce types and placement of microimplant which we had developed for orthodontic purpose and to present some interesting cases.

Workshop

by Prof. Hee-Moon Kyung

19 June 2023 (Mon) 9:00am - 6:00pm

1. Introduction
2. Review of literatures and Developmental background
3. Biomechanics in Microimplant anchorage (MIA)
4. Case presentations
 - i. Bodily retraction of maxillary anterior teeth
 - ii. Retraction of whole dentition
 - iii. Class II molar correction
 - iv. Control of vertical relationships (Deep bite & Open bite)
 - v. Scissors bite correction
 - 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
 - xiii. Maxillary expansion (Bilateral & Unilateral)
 - xiv. MIA in lingual orthodontic treatment



5. Clinical Considerations
 - i. How to prevent root injury, infection and soft tissue irritation?
 - ii. What will happen after root injury?
 - iii. Success & failure of microimplants
 - iv. Alveolar bone modelling

Hand on Course

by Prof. Hee-Moon Kyung & Dr. Steve Law

20 June 2023 (Tue) 9:00am - 6:00pm

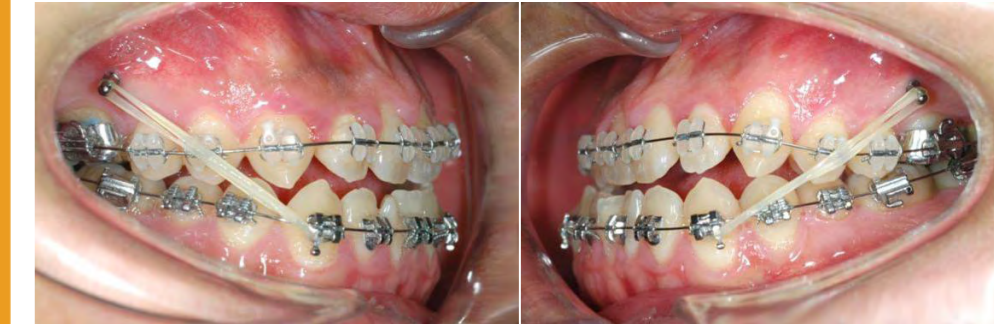
1. Mircoimplant Anchorage (MIA)
 - i. Kinds of Absoanchor orthodontic Microimplant (MI)
 - ii. Terms used in MI surgical procedures
 - iii. Surgical procedures
 - iv. General rule in choosing proper size of MI according to sites
 - v. General rule in choosing proper size of drill & handpiece
 - vi. Avoiding root damage & MI fracture
 - vii. Postoperative patient management
 - viii. Removal of MI
2. Installation Exercise
 - i. Instrumentation for installation
 - ii. Installation exercise on special plastic model
 - iii. Drill free & pre-drilling exercise on saw bones
 - iv. Fracture exercise of different MIs
 - v. Driving exercise using different type of MI drivers
 - vi. Force application exercise to MIs



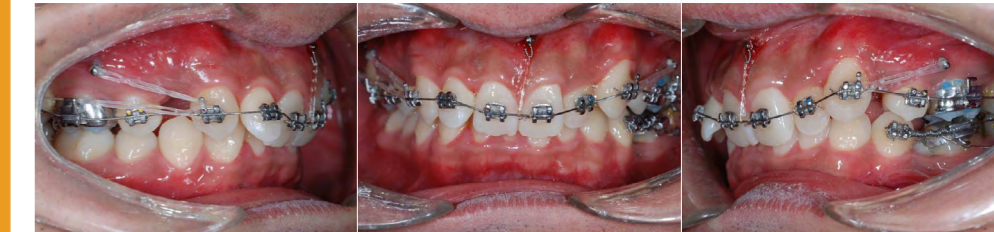
***The participants can keep the typodont (without braces) and the microimplants after the hands on course.**

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

CASE 1



CASE 2



CASE 3

