

Level 1: Comprehensive

Delivery: Online ON-DEMAND

Course Overview

This course offers a comprehensive, step-by-step guide on the use of Temporary Anchorage Devices (TADs) and provides an in-depth understanding of skeletal anchorage techniques in orthodontics. It emphasises their application, advantages, limitations and management strategies. The course is specifically tailored for orthodontic residents/trainees, practitioners, and dental professionals who aim to start their TAD journey or enhance their proficiency in advanced orthodontic procedures. The course is grounded in the best available scientific evidence and will place significant emphasis on clinical case studies.

Course Objectives

- Gain comprehensive knowledge of the historical developments of skeletal anchorage in orthodontics
- Understand the principles of skeletal anchorage
- Identify various types of skeletal anchorage devices
- Learn the clinical applications and benefits of skeletal anchorage
- Master the techniques for placement and removal of anchorage devices
- Recognise potential complications and their management

Module 1: Introduction to Skeletal Anchorage and available evidence

- History and evolution of skeletal anchorage
- Comparison with traditional anchorage methods
- The rationale behind using skeletal anchorage
- Scientific evidence



Module 2: Types and design of Skeletal Anchorage Devices

- Various systems of temporary anchorage devices (TADs)
- Treatment concept and planning
- Factors that affect primary and secondary stability

Module 3: Techniques for Placement and Removal and preventing/managing complications

- Preoperative planning and patient preparation
- Informed consent
- Anatomical factors, soft tissues, cortical bone and dental roots
- Step-by-step placement procedures
- Postoperative care and maintenance
- Removal procedures
- Clinical tips

Module 4: Selecting the ideal TAD for your case

- TAD selection (length, diameter, material, head design and site of placement)
- TAD selection based on mechanical objectives

Module 5: Biomechanics I

- Direct anchorage with inter-radicular TADs
- Indirect anchorage with inter-radicular TADs
- Management of Antero-posterior plane

Module 6: Biomechanics II

- Effect of resultant 'hidden' force vectors
- Occlusal plane rotation
- Management of Antero-posterior plane

Module 7: Biomechanics III

- Managing the vertical dimension with inter-radicular TADs
- Anterior Intrusion
- Management of Deep Overbite
- Management of Vertical Maxillary Excess



Module 8: Biomechanics IV

- Managing the vertical dimension with inter-radicular TADs
- Posterior intrusion
- Management of Anterior Open Bite

Module 9: Biomechanics VII

- Extra-alveolar bone screws
- Infrazygomatic Crest (IZC) bone screws
- Selection criteria
- Placement, site selection, clinical application
- Potential complications and management

Module 10: Biomechanics VIII

- Extra-alveolar bone screws
- Buccal Shelf (BS) bone screws
- Selection criteria
- Placement, site selection, clinical application
- Potential complications and management

Module 11: Biomechanics V

- Managing advanced space opening/closure in the maxilla
- TAD supported molar mesialisers/distalisers
- Advanced Molar Mesialisation and Distalisation

Module 12: Biomechanics VI

- Managing transverse discrepancies
- Miniscrew-Assisted Rapid Palatal Expansion (MARPE)

Level 2: Advanced

Delivery: London, hands-on*

*Level 1 required to attend

Course Overview

This hands-on course provides a comprehensive, step-by-step guide on the use and placement of Temporary Anchorage Devices (TADs) in orthodontics. Participants will gain an in-depth understanding of skeletal anchorage techniques, learning through both theoretical instruction and practical application. A detailed discussion and explanation of basic and advanced biomechanics will be demonstrated. The course will place significant emphasis on clinical case studies.

Course objectives

- Develop proficiency in the placement of Temporary Anchorage Devices (TADs)
- Gain a comprehensive understanding of various biomechanical systems
- Comprehend both direct and indirect applications of TADs
- Acquire a broad knowledge in the practical aspects of TADs techniques

Module 13: Placement of buccal inter-radicular TADs

- Hands-on placement
- Case selection
- Clinical case discussions
- Biomechanical principles

Module 14: Placement of palatal inter-radicular TADs

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles



Module 15: Placement of palatal median and paramedian TADs and Miniscrew-Assisted Rapid Palatal Expansion

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles

Module 16: Advanced Molar Distalisation Appliances

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles

Module 17: Placement of Infrazygomatic Crest TADs

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles

Module 18: Placement of buccal shelf TADs

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles

Module 19: Placement of Retromolar Pad TADs

- Hands-on placement
- Case selection
- Clinical case discussions and biomechanical principles

Module 20: Advanced Biomechanics

- Fabrication of various auxiliaries for canine retraction, canine eruption, molar protraction, molar uprighting etc.



About the speakers

Dr Aslam Alkadhimi

Consultant and Specialist in Orthodontics

GDC No: 258329, IDC No.: 1DS23

BDentSc.(Hons.), FDS (Orth) RCS(Eng), MOrth RCS(Eng), MCLinDent (UCL), MFD RCS(Ire), MFDS RCS(Eng), PGCert

Aslam qualified as a dentist from Trinity College Dublin in 2014 obtaining his Bachelor of Dental Surgery Degree with Honours. He worked as a house officer in 2014 at the Dublin Dental University Hospital. He then gained his postgraduate dental fellowships from RCSIre and RCSEng 2015. He completed 2 years of as an SHO in maxillofacial surgery in Mid-Essex University Hospitals and Nottingham University Hospitals from 2015-2017.

He went on to complete his specialist orthodontic training in London at Eastman Dental Institute (University College London) and Buckinghamshire University Hospitals from 2017-2020 achieving distinction in his Master of Clinical Dentistry degree and obtaining MOrth from RCSEng. Aslam then went on to do his hospital consultant training at the Royal London Hospital and East Kent University Hospitals gaining from 2020-2022 and was awarded FDS from RCSEng.

Aslam works as a Consultant in the HSE at Ashtown Gate, and he maintains private practice commitments in a number of practices in Dublin. He is also a clinical and academic supervisor at the Dublin Dental University Hospital. Aslam is also a council member of the Orthodontic Society of Ireland (OSI).

He is actively involved in clinical and academic teaching of undergraduate and postgraduate students.

Aslam is an active researcher; he has keen interest in carrying out research and has published widely in peer reviewed journals. He has presented widely in national and international conferences and meetings. He is the sub-editor of the Journal of orthodontics.

He has particular interest in treating complex malocclusions including orthognathic (jaw) surgery and the use of skeletal/bone anchorage devices.

He is currently a member of the British Orthodontic Society and the Orthodontic Society of Ireland and is a past secretary of the British Orthodontic Society's Training Grades Group.

 <https://www.alkadhimiortho.ie>

 <https://www.researchgate.net/profile/Aslam-Alkadhimi/research>

 <https://uk.linkedin.com/in/aslam-alkadhimi-20a43a125>

 <https://www.instagram.com/dr.aslam.alkadhimi/>



Dr Farooq Ahmed

Consultant and Specialist in Orthodontics

BDS, MSc, MDPH, MFDS, MOrth, FDSRCS (Orth), FHEA, GDC no. 178515

Farooq is a consultant orthodontist at Guy's Hospital, Northwick Park Hospital and specialist orthodontist in private practice in London.

He received his BDS with honours from the University of Manchester in 2009 and embarked on speciality training in 2012 - 2015 at the University of Manchester Dental Hospital. He achieved his Membership in Orthodontics from the Royal College of Surgeons England 2015 and was awarded the J.K Williams Gold Medal. Farooq continued his education with post-CCST training at The Royal London Dental Hospital and Northwick Park Hospital from 2015-2018.

He was appointed consultant at Guy's & St Thomas' NHS Foundation Trust and Northwick Park Hospital in 2018. He has worked in private practice from 2015 in Crouch End, North London. He is an editorial board member of the seminars in orthodontics journal. He is a reviewer for the Journal of Orthodontics. Currently he is the lead trainer at Northwick Park Hospital and aligner lead at Guy's & St Thomas' NHS Foundation Trust, where he trains future orthodontists in established and contemporary techniques. Farooq runs a popular IPR course in the UK.

He contributes to the wider orthodontic community through presentations and scientific publications. He has established an orthodontic podcast, 'orthodontics in summary', which aims to provide a summary of key information for orthodontists worldwide. Farooq is a committee member of the British Orthodontic Society's Consultant Orthodontic Group (COG), where he works with colleagues on national matters.

Farooq has a keen interest in charity, and he travelled to Gujrat, Pakistan to the first cleft hospital in the region. He helped develop the cleft service to incorporate orthodontic treatment and currently advises the hospital in a consultancy role.



<https://farooqorthodontics.com/>



<https://www.researchgate.net/profile/Farooq-Ahmed>



<https://uk.linkedin.com/in/farooq-ahmed-57559553>



<https://www.instagram.com/farooqorthodontist/>



Agenda

Level 1: Comprehensive

Delivery: Online

09:00-09:15	<i>**Welcome and introduction**</i>
09:15-09:45	Module 1: Introduction to Skeletal Anchorage and available evidence
09:45-10:15	Module 2: Types and design of Skeletal Anchorage Devices
10:15-10:45	Module 3: Techniques for Placement and Removal and preventing/managing complications
10:45-11:15	Module 4: Selecting the ideal TAD for your case
11:15-11:30	<i>**Coffee break**</i>
11:30-12:00	Module 5: Biomechanics I
12:00-12:30	Module 6: Biomechanics II
12:30-13:00	Module 7: Biomechanics III
13:00-13:45	<i>**Lunch break**</i>
13:45-14:15	Module 8: Biomechanics IV
14:15-14:45	Module 9: Biomechanics V
14:45-15:00	<i>**Coffee break**</i>
15:00-15:30	Module 10: Biomechanics VI
15:30-16:00	Module 11: Biomechanics VII
16:00-16:30	Module 12: Biomechanics VIII
16:30-17:00	<i>**Questions and answers/Discussion**</i>



Agenda

Level 2: Advanced

Delivery: London, hands-on

08:45-09:15	<i>**Registration, course introduction and Coffee/Tea**</i>
09:15-10:00	Placement of buccal inter-radicular TADs
10:00-10:45	Placement of palatal inter-radicular TADs
10:45-11:00	<i>**Coffee break**</i>
11:00-11:45	Placement of palatal median and paramedian TADs and Miniscrew-Assisted Rapid Palatal Expansion
11:45-12:45	Advanced Molar Distalisation Appliances
12:45-13:45	<i>**Lunch break**</i>
13:45-14:30	Placement of Infrazygomatic Crest TADs
14:30-15:15	Placement of buccal shelf TADs
15:15-15:30	<i>**Coffee break**</i>
15:30-16:00	Placement of Retromolar Pad TADs
16:00-16:45	Advanced Biomechanics
16:45-17:00	Questions and answers