



مؤتمر إيدك دبي
العالمي لتقويم الأسنان
**AEEDC Dubai World
Orthodontic Conference**
"Conventional and Futuristic"

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AEEDC
DUBAI
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5-6 FEB 2024

Dubai World Trade Centre

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His Highness Sheikh Mohamed bin Zayed Al Nahyan
President of the United Arab Emirates



His Highness Sheikh Mohammed bin Rashid Al Maktoum
Vice-President and Prime Minister of the United Arab Emirates and Ruler of Dubai

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Message from the Executive Chairman



His Excellency Amb. Dr. Abdulsalam AlMadani
Executive Chairman of AEEDC Dubai and Global Scientific Dental Alliance - GSDA

We are delighted to welcome you all to the 9th edition of the AEEDC Dubai World Orthodontic Conference of 2024!

The significance of oral health in our lives cannot be overstated, as recent years have witnessed a remarkable rise in awareness about oral health, with orthodontists positioned at the forefront of this movement. We now know that 33% of the global population has undergone orthodontic treatment in their lifetime, reinforcing the necessity of organizing this conference. It serves as an essential part in comprehending the ongoing expansion and ensuring that dentists are equipped with the latest information and technology to meet the increasing demands of our time.

Over a two-day period held under the theme, Conventional and Futuristic, we promise to deliver an expansive educational program curated by leading specialists, exploring the most advanced orthodontic topics that will leave you enriched in the world of orthodontic dentistry.

As we move forward, our combined efforts and commitment to excellence are a sure contribution to the dynamic evolution of orthodontics, where we are sure to benefit from for years to come.

We look forward to your presence at this innovative event and wish you an unparalleled experience at the 9th edition of the AEEDC Dubai World Orthodontic Conference!

Message from the Honorary Chairman



Dr. Tariq Khoory

**Honorary Chairman - AEEDC Dubai
Consultant - Dubai Dental Services,
Dubai Health Authority**

Welcome and thank you for joining us at the 9th edition of the AEEDC Dubai World Orthodontic Conference, where we will explore the latest advancements in orthodontics for 2024.

Under this year's conference theme, Conventional and Futuristic, we will explore cutting-edge topics in the field, including advancements in Clear Aligners, Interceptive Orthodontics, Mini-screws and Skeletal Anchorage, Digital Orthodontics, White Spots, and much more. The comprehensive content presented will undoubtedly leave a lasting impression on all attendees.

Over the course of two days, we have assembled a lineup of specialists who will address intricate cases and review significant improvements in the tools and techniques used in orthodontics. Our commitment is to stay at the forefront of the industry, ensuring that the knowledge shared is not only relevant but also paves the way for future developments.

A sincere appreciation goes out to the global experts who have graciously joined us, contributing their expertise and insights. Their involvement underscores the importance of scientific information in advancing our professions and enhancing the quality of patient care.

We extend our warmest wishes for a rewarding experience at the AEEDC Dubai World Orthodontic Conference 2024 and anticipate your presence at this gathering of minds dedicated to shaping the future of orthodontics.

Message from the **Executive Director**



Dr. Mohammad Abedin

DMD, Facharzt,
Consultant Oral & Maxillofacial Surgery Dep- DAHC
Scientific Vice Chairman, AEEDC Dubai
Executive Director

The 2024 programme is according to delegates wishes and has ended up to be a great one.

All because relentless actions of colleagues that organised this scientific meeting.

Thanks to all colleagues and participants for this success.

Welcome to everyone at AEEDC World Orthodontic Conference 2024.

Message from the Scientific Chairman



Dr. Hasna Al Saeed

Scientific Chairman

AEEDC Dubai World Orthodontic Conference 2023

It is a pleasure to welcome you again to the 9th AEEDC Dubai World Orthodontic Conference. This year, we have an exciting and informative program that features a series of keynote lectures as well as the presentation of new research in the field of Orthodontics. Under the theme "Conventional and Futuristic Orthodontics"

Over the 2 days of the conference an extensive program will feature speakers representing many countries in the Gulf region as well as internationally. The speakers will be covering a wide range of topics that include: Digital Orthodontics, Mini-screw Anchorage, Interceptive orthodontics, management of complex malocclusion and more.

It is a knowledge-experience packed educational opportunity from experts designed to transform your practice. I would like to sincerely thank the Organizing Committee, our partners, and stakeholders, for their great effort and commitment, year after year, in bringing together such a wonderful conference.

On behalf of the organizing committee of AEEDC Dubai World Orthodontic Conference, we look forward to welcoming you to the beautiful city of Dubai and hope that you benefit from the conference as well as enjoy the program and the city to the fullest!

Acknowledgement

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Conference 2024**

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Chairman of Scientific Council of Orthodontic Board
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Scientific & Organising Committee



H. E. Amb. Dr. Abdul Salam Al Madani

Executive Chairman
AEEDC Dubai and Global Scientific Dental Alliance



Eng. Anas Al Madani

Vice Chairman & Group CEO,
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Dr. Hasna Al Saeed

BA, BDS (Hons), MFDS, Facharzt (Orthodontics),
Consultant Orthodontist and Head of
Orthodontic Unit – DAHC UAE
Scientific Chairman AEEDC Dubai World
Orthodontic Conference 2022



Dr. Mohammad Abedin

DMD, Facharzt,
Consultant Oral & Maxillofacial Surgery Dep- DAHC
Scientific Vice Chairman, AEEDC Dubai
Executive Director



Dr. Elham AlAmadi

DDS, Specialist degree (Swedish board)
Specialist Registrar Orthodontic Unit-DAHC, Scientific
Organising Committee AEEDC Dubai World
Orthodontic Conference 2022



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Jeanette M Sales

Operations Manager
AEEDC Dubai, INDEX Conferences
and Exhibitions Org. LLC

Guest Speakers



Prof. Abbas R. Zaher – Egypt

BDS, MS, PhD

Assistant Professor

Professor and Chairman, Department of Orthodontic

Alexandria University



Dr. Abdulaziz Alamri – Saudi Arabia

BDS, CAGS, MSD, FCOR, Diplomate ABO

Program Director (Assistant Professor) Orthodontics and Dentofacial
Orthopedics Fellowship

Imam Abdulrahman Bin Faisal University



Dr. Bandar Alyami – Saudi Arabia

DDS, M.S, Ortho Cert., ABO, FTOR, CFRF

Associate Professor, Preventive Dentistry Department

Faculty of Dentistry, Najran University College of Dentistry



Prof. Chooryung Judi Chung – South Korea

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Professor at the Department of Orthodontics

Gangnam Severance Hospital, Yonsei University College of Dentistry



Dr. Ewa Czochorowska - Poland

DDS, PhD

Associate Professor at the Department of Orthodontics, Vice-Dean
for English Dentistry Division, Medical and Dental Faculty

Medical University in Warsaw

Guest Speakers



Dr. Fady Hussein Fahim - Egypt

BDS, PhD, MSc, FDS RCSEd, M Orth RCSEd

Associate Professor, Orthodontic Consultant, Fellow Royal College Surgeons of Edinburgh UK (FDS RCSEd), CEO

Faculty of Dentistry, Najran University College of Dentistry



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MD, DDS, Dr. med dent

Specialist Orthodontist

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DDS

Orthodontist Specialist, Fellow Teacher

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Prof. Zaki Hakami - Saudi Arabia

BDS, MDS, PhD

Consultant Orthodontist and Associate Professor in Orthodontic
Division Dentistry College

Jazan University

Accreditation

ACCREDITATION

AEEDC Dubai World Orthodontic Conference 2024
has received the following CME Accreditation

14 CME Points - Accredited by



Accreditation Number: DHA/MTS/ACC/24-0051/A



The International Congress For Health Specialties – ICHS certifies that the scientific program titled AEEDC Dubai World Orthodontic Conference 2024, held on February 5-6, 2024 is awarded **14 ICHS CME Credits**. Accreditation Number **ICHS-24-58**



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CONFERENCE PROGRAM

DAY
ONE

MON
05

DAY
TWO

TUES
06

FEBRUARY
2024

Conference Program

DAY ONE



MONDAY 05 Feb 2024

Morning Session

09:00 – 12:15

Scientific Moderator:

Saif Al Wali

Chairperson:

Gilda Behnam

09:00 - 10:00



Infra Zygomatic Crest and Buccal Shelf TADs

Quinty Olivier

10:00 - 11:00



**How to Prevent and Treat Tooth Impaction?
Treatment Strategies Including Trans-alveolar
Transplantation**

Ewa Czochoawska

11:00 - 11:45



My Digital Journey

Ibrahim Sulaiman Al Shahrani

11:45 - 12:15



**Best Practice in Orthodontic-Restorative
Collaboration**

Abbas R. Zaher

12:15 - 14:00



LUNCH BREAK

Conference Program

DAY ONE



MONDAY 05 Feb 2024

Afternoon Session

14:00 – 17:30

Scientific Moderator:

Mohammed Murshed AlHarbi

Chairperson:

Sultan AlShaali

14:00 - 15:00



MARPE: Tips for the Daily Clinical Work

Fady Hussein Fahim

15:00 - 16:00



TADs as A Game Changer in Orthodontic Treatment

Mostafa Mohamed Ismail Ghioneim

16:00 - 16:45



Genetics and Orthodontics: What is Known so Far?

Nora Alhazmi

16:45 - 17:30



Navigate the Challenges of Clear Aligner Therapy "What to Do When Things Go Wrong with Clear Aligners"

Abdulaziz Alamri

Conference Program

DAY TWO



MONDAY

06 Feb 2024

Morning Session

09:30 – 12:15

Scientific Moderator:

Naseem AlAwadhi

Chairperson:

Khulood Bin Haider

09:30 - 10:15



Non-surgical Managements to Improve the Reverse Smile for Adult Skeletal Class III

Chooryung Judi Chung

10:15 - 11:15



TADs Assisted Biomechanics for Management of Multidisciplinary Cases

Zaki Hakami

11:15 - 12:15



Successful Bone Borne Maxillary Expansion in Adults without Surgical Support using A Novel Activation Protocol

Heinrich Friedrich Winsauer

12:15 - 14:00



LUNCH BREAK

Afternoon Session

14:00 – 16:45

Scientific Moderator:

Eman AlNamnakani

Chairperson:

Maryam Sayed Jaffar

14:00 - 15:00



25 Years of Experience in Median Mandibular Distraction Osteogenesis – A Feasible Option for Space Creation in the Mandible

Heinrich Friedrich Winsauer

15:00 - 16:00



Biochemical Considerations in Treatment of Severe Malocclusion in All Dimensions

Bandar Alyami

16:00 - 16:45



Guidelines for Treatment of Transposed Canines: Clinical Strategies

Abbas R. Zaher

ABSTRACTS

DAY | MON
ONE | 05
FEBRUARY
2024



09:00 - 12:15
Morning Session



Dr. Quinty Olivier

Infra Zygomatic Crest and Buccal Shelf TADs

09:00 - 10:00

Abstract:

Miniscrews can be useful in many ways for orthodontic treatment procedures and biomechanical movements. Intrusion, retraction of anterior teeth, distalization of mesialisation and can be used either with fixed appliance or aligners.

Learning Objectives:

1. Collect information about anatomy.
2. Assess clinical situation to place TADs.
3. List the indications of TADs.
4. Appraise positioning of TADs.
5. Analyse 3D procedures.

**09:00 - 12:15**
Morning Session**Dr. Ewa Czochrowska****How to Prevent and Treat Tooth Impaction? Treatment Strategies Including Trans-Alveolar Transplantation****10:00 - 11:00****Abstract:**

Early diagnosis is pivotal to facilitate interceptive treatment for tooth eruption and a successful surgical uprighting of ectopic and impacted teeth. Different factors, which are important for the detection of tooth impaction, especially canine impaction, would be discussed during the lecture using scientific evidence. Clinical examples of successful and unsuccessful treatment for tooth impaction will illustrate different therapeutic scenarios. The important benefit of trans-alveolar transplantation of developing teeth is the potential for bone preservation and regeneration, that will be shown during the lecture.

Learning Objectives:

1. Diagnose signs of tooth impaction and ectopic position
2. Know the interceptive treatments related to tooth impaction
3. Know the prognosis of different types of treatment for impacted teeth
4. Know the principles of trans-alveolar transplantation (surgical uprighting)
5. Know the clinical and radiological signs of successful trans-alveolar transplantation



09:00 - 12:15
Morning Session



Prof. Ibrahim Sulaiman AlShahrani

My Digital Journey

11:00 - 11:45

Abstract:

During this presentation Prof. Alshahrani will share his journey to becoming one of the top Invisalign providers in the Middle East, leading a 100% Invisalign practice. This requires strong clinical knowledge and confidence as well as a fully digital practice and during this presentation Prof. Alshahrani will discuss with the attendees how he managed to digitize his practice and the positive impact this had on his patients and him as a clinician.

Learning Objectives:

1. To inspire clear aligner providers
2. To educate them on how clear aligner can their good tool in practice
3. To integrate patients into their practice
4. The utilization of the different digital tools
5. To integrate more on the share of chair, patient turnover

**09:00 - 12:15**
Morning Session**Prof. Abbas R. Zaher****Best Practice in Orthodontic-Restorative Collaboration****11:45 - 12:15****Abstract:**

The ultimate desire of patients seeking orthodontic treatment is the excellent dental and facial esthetics. The orthodontist should be able and is responsible to deliver the best aesthetic results. It is possible to influence the gingival levels through orthodontic tooth movement. In addition, manipulation of teeth angulation can enhance the expression of the papillae. Some tips in orthodontic finishing will be presented identifying the most common aesthetic finishing factors that can enhance the looks of the surrounding gingival tissue. And, explain how these can be modified to achieve an excellent finished result in adolescents as well as adults with compromised dentitions.

Learning Objectives:

1. Identify the difference between multi and inter disciplinary treatment.
2. Learn how to think in interdisciplinary treatment.
3. Understand the various steps to be considered when carrying treatment.
4. Show examples of mistakes when thinking multidisciplinary.
5. Show examples for the best practice in interdisciplinary treatment.

**14:00 - 17:30**
Afternoon Session**Dr. Fady Hussein Fahim****MARPE: Tips for the Daily Clinical Work****14:00 - 15:00****Abstract:**

Stents (surgical guides) to insert the palatal miniscrews for MARPE will be illustrated. The impression making is a technique sensitive and will be explained thoroughly. It is my routine work placing MARPE in growing (mixed dentition) Skeletal III patients together with facemask for maximum skeletal maxillary effect. Nevertheless, MARPE are indicated in Skeletal Class III adults, that will also aid in correction of the mandibular dentition using Class III elastics. In addition, MARPE can be used to replace SARPE in adult Skeletal Class II patients. MARPE can be frequently used to reinforce anchorage, i.e: to align impacted maxillary canines.

Learning Objectives:

1. Indications of MARPE with Skeletal III growing patients.
2. Difference between 2 versus 4 miniscrew supported hyrax.
3. Difference between pin-first versus pin-last approach.
4. Solving AP (not only transverse) using MARPE.
5. Different palatal TADs systems.



14:00 - 17:30
Afternoon Session



Dr. Mostafa Mohamed Ismail Ghoneim

TADs as A Game Changer in Orthodontic Treatment

15:00 - 16:00

Abstract:

- TADs have revolutionized the field of orthodontics, offering versatile solutions for complex cases. This lecture aims to demystify the utilization of TADs by focusing on two critical aspects: indications and biomechanics.
- Understanding the indications for TADs is paramount for orthodontic practitioners. We will explore patient selection criteria and showcase real-world cases where TADs provided optimal anchorage in scenarios where traditional methods fell short. From skeletal anchorage in Class II correction to molar intrusion in open bite cases, discover the breadth of situations where TADs excel.
- Biomechanics forms the backbone of successful TADs use. We will delve into the physics behind TADs- supported tooth movements, elucidating how to harness these devices effectively. By examining the principles of force application, moments, and load distribution, attendees will gain invaluable insights into achieving predictable and stable results.

Learning Objectives:

1. The indications for use of TADs.
2. The difference between direct and indirect anchorage.
3. The biomechanics that should be used with both direct and indirect anchorage.
4. TADs as a powerful tool in gummy smile correction.
5. TADs as an alternative for SARPE

**14:00 - 17:30**
Afternoon Session**Dr. Nora Alhazmi****TADs as A Game Changer in Orthodontic Treatment****16:00 - 16:45****Abstract:**

The interruption of craniofacial growth by any etiological factor results in dentofacial deformities and malocclusion. Apart from environmental factors, genetics play an important role in craniofacial growth. This presentation will discuss the inheritance of dentofacial deformities and malocclusion, highlighting the multiple genes involved in the development of phenotype. Moreover, this talk will shed light on the genetic markers for diagnosis and explore artificial intelligence models for risk assessment. In addition, genomics can be applied to the treatment of dentofacial deformities. In conclusion, orthodontists must be aware of the genetic role in craniofacial growth.

Learning Objectives:

1. Describe the role of heredity in orthodontics.
2. Recognize the role of genetic markers through GWAS to provide genotype-driven diagnosis.
3. Learn about the applicability of genomics for the treatment of dentofacial deformities and malocclusion.
4. Explore machine learning models for genetic risk assessment.
5. To integrate more on the share of chair, patient turnover

**14:00 - 17:30**
Afternoon Session**Dr. Abdulaziz Alamri****Navigate the Challenges of Clear Aligner Therapy “What to Do When Things Go Wrong with Clear Aligners”****16:45 - 17:30****Abstract:**

This lecture aims to provide practical guidance on what to do when things go wrong with clear aligners. The session will cover common problems encountered, such as fit issues, tracking problems, and patient discomfort, and offer troubleshooting techniques to address these issues effectively. Furthermore, the lecture will focus on enhancing clinical decision-making skills for managing complications, including when to modify the treatment plan, involve specialists, or consider alternative options. By the end of the lecture, attendees will be equipped with valuable insights and strategies to overcome challenges and achieve successful outcomes in clear aligner treatment.

Learning Objectives:

1. Identify common problems encountered with clear aligners – By the end of the lecture, attendees will be able to recognize the most frequent issues that can arise during clear aligner treatment, such as fit problems, tracking issues, or discomfort.
2. Understand troubleshooting techniques for addressing issues with clear aligners – Attendees will gain knowledge of effective troubleshooting strategies to resolve problems encountered with clear aligners.
3. Enhance clinical decision-making skills for managing complications with clear aligners – The lecture will equip participants with the ability to make informed clinical decisions when faced with more complex problems with clear aligners.
4. Understand when to modify the treatment plan, involve additional specialists, or consider alternative treatment options to achieve successful outcomes.
5. Understand various adjustment techniques, implementing proper patient communication, and utilizing appropriate dental tools or materials.

ABSTRACTS

DAY TWO | TUES
06
FEBRUARY
2024

**09:30 - 12:15**
Morning Session

Prof. Chooryung Judi Chung

Non-surgical Management to Improve the Reverse Smile for Adult Skeletal Class III

09:30 - 10:15**Abstract:**

Improving the smile is one of the most important treatment objectives in orthodontics. But clinical options to correct the “reverse smile” in adult Skeletal Class III patients, especially during camouflage treatment, is limited. The speaker will introduce proper diagnosis and clinical management tips including vertical control through clockwise rotation of the mandible, A-P control along with segmental movement, and application of unique extraction schemes that can be applied to improve the reverse smile in non-surgical correction of adults Skeletal Class IIIs.

Learning Objectives:

1. Diagnose the complex characteristics of adult class III malocclusion with reverse smile.
2. Identify non-surgical treatment modalities to improve adult class III malocclusion.
3. Recognize the clinical indications for active vertical control through clockwise rotation of the mandible
4. Recognize the different mechanics in TADs supported total arch distalization.
5. Recognize the modification of extraction sites to improve the reverse smile as well as facial aesthetics during the non-surgical treatment of adult class II malocclusion.

**09:00 - 12:15**
Morning Session**Dr. Zaki Hakami****Mini-Implant Borne Sliders to Overcome the Limits of Aligners****10:15 - 11:15****Abstract:**

The popularities of using TADs have been widely increased. Understanding the biomechanics and the underneath biological processes is essential for efficient orthodontic preparation with minimal side effects. Moreover, utilizing TADs is needed in some cases to avoid sides effects and decrease the duration of the treatment. By the end of this lecture, the attendees will have ideas for managing complex cases and developing different risk/benefit and cost/benefit treatment options to reach optimum esthetic, occlusal and restorative outcomes. Furthermore, the attendees will have sufficient knowledge about TADs- assisted biomechanics, how to use minimal numbers of miniscrews for maximum possible optimized outcomes.

Learning Objectives:

1. How to plan cases in multidisciplinary manner.
2. Develop different risk/benefit and cost/benefit treatment options.
3. How to apply predictable mechanics using TADs.
4. Describe three-dimensional control of teeth movement using TADs.
5. Analyze the use of minimal numbers of TADs for maximum possible optimized outcomes.



09:00 - 12:15
Morning Session



Dr. Heinrich Friedrich Winsauer

Successful Bone Borne Maxillary Expansion in Adults without Surgical Support Using A Novel Activation Protocol

11:15 - 12:15

Abstract:

The use of miniscrews in the anterior palate is very safe procedure with a loss rate of less than 1.5% and has therefore fundamentally changed orthodontic treatment.

Due to the pure skeletal anchorage, there are no dental side effects.

Using the new force-dependent, polycyclic activation protocol in combination with an extremely rigid expander, in adults (age 18-56 years) successful maxillary expansion without surgical support (SARPE) is possible in over 86% of cases.

Learning Objectives:

1. You will be able to judge the positions of mini screws in the anterior palate according to three parameters: length, angulation, and entry points.
2. The lecture enables you to apply force control during maxillary expansion.
3. It will become clear, how to describe a "responding" patient.
4. After this presentation you will recognize weak components in the force transmitting system hyrax screw, connecting wire arms, attachments to screw head, screw diameter and depth of bone.



14:00 - 16:45
Afternoon Session



Dr. Heinrich Friedrich Winsauer

25 years of Experience in Median Mandibular Distraction Osteogenesis – A Feasible Option for Space Creation in the Mandible

14:00 – 15:00

Abstract:

The use of Mandibular midline distraction osteogenesis with tooth borne hinge distractors is a reliable and successful way of creating space in the mandible thus avoiding extractions, inter-approximal tooth stripping or extensive dental compensation. The hinge mechanism in the distractor avoids condylar translation and guarantees absolute parallel opening in the distraction zone. This way only is single, minimal invasive surgery is necessary.

Learning Objectives:

1. You will be able to detect the difference between posterior elastic (hinged) and rigid expanders.
2. You will be able to use tooth borne expanders and still be able to guarantee parallel distraction zone opening.
3. It will become clear, how to construct a distractor with hinge mechanism
4. After this presentation you will recognize any weak components of distraction devices.



14:00 - 16:45
Afternoon Session



Dr. Bandar Alyami

Biomechanical Consideration in Treatment of Severe Malocclusion in All Dimensions

15:00 - 16:00

Abstract:

This lecture will demonstrate that if proper diagnosis is obtained and orthodontic biomechanics are well planned, a great result can be achieved in a patient with severe dental and/or skeletal discrepancies in all dimensions.

Learning Objectives:

1. Identify skeletal discrepancy that require orthognathic surgery.
2. Identify dento-skeletal discrepancies can be treated with orthodontic only.
3. Conduct proper diagnosis and treatment planning.
4. Use proper appliances and biomechanics to manage severe cases.
5. Orthodontically prepare cases for orthognathic surgery.

**14:00 - 16:45**
Afternoon Session**Prof. Abbas R. Zaher****Guidelines for Treatment of Transposed Canines: Clinical Strategies****16:45 - 16:45****Abstract:**

Ectopic teeth are not an infrequent encounter in orthodontic practice. These cases could be encountered in a variety of situations and impaction, transposition and mal position are only examples. In the orthodontic office the frequency of tooth transposition might reach as high as 3% of the patients seeking treatment. The orthodontist is sometimes faced with a variety of treatment options and the decision is usually based on the position and risk factors.

Learning Objectives:

1. Recognize different types of transposition
2. Learn various treatment options available
3. Demonstrate best practice to successfully correct canines' transposition
4. Show importance of early interference to successfully correct canines' position

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