Academic & Clinical Excellence

Orthodontic Diploma (PG Dip. Orth.)

COURSE INFORMATION

In association with CfastSmileTRU
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General overview

Having been involved in the provision of orthodontic courses for over 30 years and having trained many thousands of dentists around the globe, the team at CfastSmileTRU are intimately aware of the growing demand for high quality, post graduate education.

With an increasing number of dentists incorporating orthodontics in to their practice, we felt there was a need for a course specifically aimed and tailor made for the general dental practitioner which, as well as providing a good theoretical and clinical foundation, would be very practical in nature and could be quickly implemented in to a general practice setting and this is what we have delivered - a unique Orthodontic Diploma not available anywhere else in Europe.

The Orthodontic Diploma course, in conjunction with EduQual, has been designed with the perfect balance of both academic and clinical elements in mind and importantly, will lead to a Post Graduate Diploma in Orthodontics (PGDip. Orth.)

We have searched extensively to bring together the right team to deliver this diploma course and have been very fortunate to have on board the internationally renowned Dr Mohammed Almuzian to lead as Course Director.

Working closely with our orthodontic laboratory, Triple O, and drawing on over 30 years of orthodontic training, combined with the industry's best support network, we believe we have put together an outstanding diploma course, not only in terms of content and of implementation, but also in the ongoing one-to-one mentor-ship and guidance. The same formula which has made CfastSmileTRU a huge national and international success.

Under the guidance of Dr Almuzian we have undertaken an extensive approval process with EduQual (a UK awarding body) who have granted our Orthodontic Diploma Level 7 status. The course will be delivered under the banner of ACE (Academic and Clinical Excellence) and guarantees the same quality, support and world class customer service that we have become reputed for.

We have also made investing in your Diploma as easy as possible by arranging a facility to allow

you make payment installments over a 2 year period.

If you would like to learn more about this course, please read on and email us should you require further information. We can also arrange a time for you to speak with Dr Almuzian, or any other member of the clinical team, should you wish to do so.

Clinical case mentoring

Clinical mentoring, followed by ongoing treatment planning and case assessment forms, is an important part of the education process and gives students the reassurance that they are never on their own when it comes to treating patients. This step by step approach has proven to build confidence in implementing the theory and techniques which have been taught on the course and students can draw comfort in being part of a wider group consisting of highly accomplished clinicians who understand the importance of sharing their wealth of knowledge for a greater benefit.

During the clinical case mentoring unit, Dr. Almuzian and the specialist team on the course will provide one to one, step by step, case mentoring, this is an optional clinical component of our diploma course. The purpose of the case mentoring and presentations is to help candidates implement and enhance the knowledge and skills acquired, safely, in clinical practice, encourage a reflective approach to learning, improve clinical judgment, decision making, enhance professional skills, and finally to help candidates build extensive evidence of their progress. Aside from this, there will also be UNLIMITED opportunities for the candidates to seek specialist advice from the course team regarding new or ongoing orthodontic cases.

There will be three parts to this optional unit. In the first part and at early stages of the diploma course, students will collect records from their patients in their practices, arrange a structured power point presentation of their diagnosis and devise a provisional treatment plan. During the presentation, there will be tutor and peer directed questions accompanied by constructive advice and followed by formal feedback after the session. Advice about the treatment plan will be provided to students allowing them to embark on treatment.

In the second and third parts of this activity, students will arrange presentations to demonstrate progress and the final results of their treatment. Again, there will be tutor and peer directed questions accompanied by constructive advice during the presentation followed by formal feedback after the session. Advice about treatment plans will be provided to students to allow them to continue and finalise the treatment.

During the student presentations, the tutor will assess each students competency in medical record keeping, clinical assessment, diagnostic skills, clinical judgment, decision making, management and follow up planning, communication and team working as well as leadership and professionalism.

At all phases of this clinical activity, additional support will be provided by direct face to face or tele-discussion.

LECTURE DAYS *

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The course will include 26 face to face study days (full-day). Each of the study days consist of clinically oriented theoretical lectures, workshops and/or case based discussions. The lecture days are spread over a period of time to allow meaningful, clinical hands-on experience to be gained. If the courses are taken sequentially participants will attend the course over a period of 18-24 months. For overseas students there will be a parallel intake with course work arranged to more easily accommodate international travel.

LECTURES DAY TIMETABLE

DAY 1

- Normal and abnormal development of the craniofacial region and dentition
- Craniofacial syndromes including cleft lip and palate
- Growth variability, rotation, timing and direction
- Occlusion and orthodontics

DAY 2

- Cellular and molecular biology in orthodontics
- Optimal force level in orthodontics
- Biological and mechanical factors in orthodontic tooth movement
- Acceleration of tooth movement during orthodontic treatment
- Aetiology of malocclusion
- Epidemiology of malocclusion
- Genetic, environmental factors and epigenetic factors

DAY 3

- Introduction to Evidence Based Orthodontics
- Data and their applications in research
- Critical appraisal of the literature

DAY 4 (DCP CAN ATTEND)

- Clinical assessment
- Ionising and non-ionising imaging techniques
- Other special tests in orthodontics
- Medically compromised orthodontic patients
- Hypoplasia and molar incisor hypomineralsation
- Traumatized teeth and orthodontic treatment

DAY 5 (DCP CAN ATTEND)

- Orthodontic indices
- IOTN and PAR indices workshop
- Cephalometric and radiographical guidelines
- Measuring and analysing orthodontic treatment changes
- Cephalometry workshop

DAY 6 (DCP CAN ATTEND)

- Digital photography in orthodontics
- Clinical facial analysis in orthodontics
- Smile analysis
- Photography workshop

DAY 7

- Arch form and width and its relevance to orthodontics
- Royal London space analysis
- Tooth size analysis
- Study model analysis workshop
- Guide for structured assessment of orthodontic cases
- Developing problem list and treatment objectives
- Case based discussion (Case classification and initial diagnosis of practice cases)

DAY 8

- Benefits of orthodontic treatment
- Oral health and orthodontics
- Dental education of orthodontic patients and patient information provision
- Medicolegal orthodontics issues in UK
- TMD and Orthodontic
- Iatrogenic effect of orthodontic treatment
- Orthodontic treatment consent

DAY 9

- Extraction in orthodontics
- Interproximal Enamel Reduction
- Molar distalization
- SPEED CAST technique

DAY 10

- Conventional orthodontic anchorage
- Temporary skeletal anchorage devices
- Orthodontic auxiliaries including transpalatal, Nance, lingual arch, quadrihelix appliances
- SAFE MOOH technique

DAY 11 (DCP CAN ATTEND)

- Instrument required for orthodontic setup
- Marketing in Orthodontics
- Interceptive orthodontics

DAY 12

- Functional orthodontic appliances (fixed and removable)
- Extra-oral appliances in orthodontics
- Removable orthodontic appliance

DAY 13

- Light wire appliance (Tip-edge and Begg appliances)
- Straight wire appliances
- Self-ligating appliances
- Lingual orthodontic
- Clear orthodontic aligners

DAY 14

- Orthodontic wires and springs
- Elastomeric in orthodontics
- Orthodontic bonding and banding materials
- Bonding to non-tooth structure
- Bracket positioning and bonding workshop
- Wire placement workshop
- Placement of separators workshop

DAY 15

- Straight wire technique and MBT philosophy
- Bracket variations
- Archwire sequences
- Biomechanics in orthodontics
- Basic wire bending workshop
- Activate TPAs, functional and removable appliance workshop

DAY 16

- Class I Malocclusion
- Impacted canines
- Bimaxillary proclination or protrusion
- Midterm written exam (SAQs and MCQs)

DAY 17

- Asymmetry (dental and skeletal) and transverse discrepancies
- Anterior open bite
- Expansion appliances
- Case based discussion

DAY 18

- Class II Division 1 Malocclusion
- Class II subdivisions
- Space closure
- Case based discussion

DAY 19

- Class II Division 2 malocclusion
- Anterior deep bite
- Case based discussion

DAY 20

- Class III malocclusion
- Class III subdivisions
- Case based discussion

DAY 21

- Adult orthodontics
- Lower labial segment crowding
- Third molar impaction and its myth
- Case based discussion

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DAY 22

- Finishing and detailing in orthodontics
- Debonding orthodontic appliances
- Retention and relapse and adjunctive techniques to reduce relapse
- Wire bending for finishing workshop

DAY 23

- Oral Surgery and orthodontics
- Combined orthodontics and non-invasive treatments for skeletal problems
- Breathing, malocclusion and obstructive sleep apnoea
- Submission of summative assignment

DAY 24

- Restorative dentistry and orthodontics
- Periodontics and orthodontics
- Role of orthodontics in implant dentistry
- Digital orthodontics
- Setting an in-house mini-orthodontic lab

DAY 25

- Combined orthodontic and jaw surgery
- Distraction osteogenesis
- Surgically assisted rapid maxillary expansion
- Alveolar bone grafting

DAY 26 (EXAM DAY)

- Written exam
- OSCE / Viva exam
- Summative assignment feedback

*Minor variations might occur due to the continuous subject quality improvement process.

COURSE LOCATION

Windsor Dental | Denhill Rd | Hulme | Manchester | M15 5NR

Course units

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The Diploma in Orthodontics course curriculum involves six units taught through 26 study days (full-day lectures) along with clinical/ lab immersion days, pre-lecture webinars, seminars and self-studying.

UNIT ONE:
CORE PRINCIPLES OF ORTHODONTICS

Unit purpose: This module is essential to provide information regarding embryology, growth and development of the face and jaws relevant to orthodontics. In addition, the core unit will cover the normal and abnormal development of the dentition, biology of tooth movement and the aetiology of malocclusion. This unit will also present the basis for orthodontic literature and research.

LEARNING OUTCOMES

- Demonstrate an understanding regarding growth and development of structures of the head and neck, and their relevance to the assessment and treatment of patients
- Critically evaluate normal and abnormal development of the dentition from birth to adulthood and the effect of genetic and environmental influences on the development of the dentition
- Demonstrate an understanding of the exfoliation and eruption of the dentition and the basic biology of tooth movement
- Compare and analyse skeletal, soft tissue and local/dental factor aetiologies of malocclusion
- Demonstrate critical awareness of the methods used to critically analysing and summarising literature

UNIT TWO:
ORTHODONTIC APPLIANCES AND MATERIALS

Unit purpose: This module essential to provide knowledge and information regarding orthodontic materials and biomechanics as well as orthodontic appliances including removable, functional, extra-oral appliances, fixed and retention appliances.

THE COURSE WILL ALSO INCLUDE SOME PRACTICAL WORKSHOP INCLUDING:

- Hands-on orthodontic bracket positioning and wire bending
- Hands-on adjustment of functional appliance
- Hands-on adjustment of removable appliance
- Hands-on fitting retention appliance

LEARNING OUTCOMES

- Critically evaluate different types of orthodontic materials, their properties and interaction of orthodontic brackets and wires and the achieved tooth movements
- Evaluate the advantages/disadvantages, timing, components and design of removable, fixed, functional, extra-oral and retention appliances

UNIT THREE:
ORTHODONTIC DIAGNOSIS & TREATMENT PLANNING COURSE

Unit purpose This module is essential to provide knowledge and information regarding orthodontic diagnostic procedures including cephalometry and photography in orthodontic as well as orthodontic treatment planning of different types of malocclusion.

THE COURSE WILL ALSO INCLUDE SOME PRACTICAL WORKSHOPS

- Cephalometric analysis and superimposition
- Clinical photography in orthodontics
- Study models and space analysis

LEARNING OUTCOMES

- Analyse and interpret clinical and study model findings
- Evaluate the basis of cephalometric analysis and how to interpret the findings of superimposition techniques to analyse growth and treatment changes
- Demonstrate an understanding of clinical photographical analysis and the relevant non-ionising imaging technologies
- Critically evaluate treatment planning considerations for a variety of different patients and their concerns

UNIT FOUR:
INTERCEPTIVE AND COMPREHENSIVE ORTHODONTICS

Unit purpose: The aim of this unit is to provide an understanding of guiding the development of the occlusion, adult orthodontics, the iatrogenic effects of orthodontic treatment and long-term effects of orthodontic treatment

LEARNING OUTCOMES

- Critically evaluate the role of interceptive Orthodontics in eliminating local factors and in early correction of skeletal discrepancies
- Explain and Interpret appliance therapy and special considerations in adult orthodontics
- Critically evaluate the iatrogenic effect of orthodontic treatment on hard and soft tissues
- Manage orthodontic relapse and its aetiology as well as the adjunctive techniques to reduce relapse

Course units

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UNIT FIVE:
MULTIDISCIPLINARY TREATMENT

Unit purpose: This module is essential to provide information regarding the relationship between orthodontics from one side, minor oral surgery, restorative dentistry and the management of facial disharmony from the other side.

LEARNING OUTCOMES

- Demonstrate awareness and understanding of the management of impacted and infra-occluded teeth and high fraenal attachments
- Evaluate the basis of orthodontic management of the dentition with previous extracted teeth or minor hypodontia
- Explain the key factors relating to facial disharmony and demonstrate understanding of the stages in the correction of facial disharmony

UNIT SIX:
OPTIONAL CLINICAL ORTHODONTICS UNIT

Unit purpose: This optional unit will provide an opportunity for the students to treat an orthodontic case where the course director is providing case mentoring during the course of treatment. The unit also includes full clinical and laboratory immersion days (depending on availability)

LEARNING OUTCOMES

- Evaluate and practice the key principles of effective medical record keeping, clinical assessment and interpret diagnostic tools essential for orthodontic treatment

- Clinical cases discussion will be spread over the whole course to cover different types of malocclusion and their treatment planning including:
    - Crowding and spacing
    - Class I malocclusion
    - Class II Div 1 and 2 malocclusion
    - Class III malocclusion
    - Anterior and posterior crossbites
    - Vertical discrepancies
    - Transverse discrepancies
    - Impacted teeth
    - Interceptive orthodontic treatment
    - Other localised malocclusion

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Total Qualification Time (TQT)

Learning activities	Unit's type	Dedicated Assessment Hours	Directed Study Hours	Guided Learning Hours
Formative self-assessment (quizzes)	Optional	5		
Final summative written MCQs paper	Mandatory	2		
Summative case based discussion	Mandatory	2		
Final summative Viva exam	Mandatory	1		
Final written summative assignment	Mandatory	40		
Clinical cases mentoring	Optional		20	4
Clinical immersion day	Optional		40	16
Laboratory immersion day	Optional		40	16
Core course (Self-study and webinars)	Mandatory		100	
Core course unit (Lectures and workshop)	Mandatory			44
Orthodontic appliances and materials unit (Self-study and webinars)	Mandatory		120	
Orthodontic appliances and materials unit (Lectures and workshop)	Mandatory			54
Orthodontic diagnosis and treatment planning unit (Self-study and webinars)	Mandatory		80	
Orthodontic diagnosis and treatment planning unit (Lectures and workshop)	Mandatory			40
Interceptive and comprehensive orthodontics unit (Self-study and webinars)	Mandatory		80	
Interceptive and comprehensive orthodontics unit (Lectures and workshop)	Mandatory			40
Multidisciplinary treatment unit (Lectures and workshop)	Mandatory		60	
Multidisciplinary treatment unit) (Lectures and workshop)	Mandatory			32
Total number of hours		50	540	246
TQT	836			

Assessment

Although it is recommended that all candidates undertake an active role during the course, summative assessments are mandatory for the award of the degree.

METHOD OF ASSESSMENT DURING THE COURSE

1. **Formative assessment including:**

- Attend trainee lectures / seminars and independent study
- Self-assessment
- Attendance at suitable meetings
- Attendance at suitable clinics and labs
- On-line assessment
- Submission of an article for publication, if possible
- Web based e-learning sources

2. **Summative assessment**

A. During the course including:

- Presentation of treated cases/ Case based discussion (WBA)
- Mid-term written exam (SAQs and MCQs)
- Written assignment: The summative assessment aims to demonstrate the theoretical knowledge and the application of that theory in practice in the form of a multi-faceted assignment.
  In addition, the assessment will enable you to demonstrate transferable skills such as critical thinking, reflection, academic writing, academic integrity and IT skills (such as literature searching). Both module-specific and transferable learning outcomes are reflected in the grading criteria. The summative assignment will be in a form of detailed case history presentation using our template. In this assignment, the candidates should show their ability in record collection and management, diagnosis and treatment planning as well as case presentation, critical appraisal and justification of the treatment plan undertaken by them in their clinics.

B. At the end of the course including:

- Written MCQs paper
- Objective Structured Clinical Examination (OSCE) or Viva (Structured Clinical Reasoning)

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Summative assessments and marking

- Active participation during the course (10%)
- Mid-term MCQs/ SAQs exam (20%) (internal and external examiner)
- Summative assignments (25%) (internal and external examiner)
- Final exam OSCE or Viva (25%) (internal and external examiner)
- Final written exam (20%) (internal and external examiner)

REPORTING SCALE	DESCRIPTOR	MARK
70-100%	EX (Excellent)	Distinction
60-69%	VG (Very Good)	Merit
50-59%	G (Good)	Pass
40-49%	S (Satisfactory)	Pass
35-39%	MF (Marginal Fail)	Fail
20-29%	CF (Clear Fail)	Fail
0-19%	BF (Bad Fail)	Fail

Course bonuses

The course includes bonuses for the candidates:

1. Clinical and laboratory Immersion days: Upon availability, the course will include: (a) Full clinical immersion day with Dr. Almuzian in his private practice, which includes observing a new patient exam, variety of treatment starts and orthodontic adjustments and finishes. This also includes observing orthodontic assistants/ treatment coordinator, (b) Full laboratory immersion day at Triple O Dental laboratory in Birmingham observing appliance constructions.

2. Guest speaker: There will also be bonus lectures from national and international speakers in orthodontics and other relevant dental and medical specialists, either e-live or face to face.

3. Complementary staff member invitation: Dentists can bring along one allied healthcare professional to attend lectures regarding orthodontic records, cephalometry and photography. Also, a dentist can invite their hygienists and therapists interested in recognising developing occlusal abnormalities, to attend the Interceptive in Orthodontics lectures.

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Mohammed Almuzian

Specialist Orthodontist
(GDC. No: 260485)
BDS (Hons.)
MFDS RCPS (Glasgow)
MJDF RCS (England)
MFD RSC (Ireland)

MDSc.Ortho. (Distinction)
MSc.HCA (Atlanta)
DClin.Dent. Ortho. (Glasgow)
PGCert.SysRevHealth
(Portsmouth)

MOrth RCS (Edinburgh)
IMOrth RCPS (Glasgow)
RCS (England),
MDTF RCS(Edinburgh)
MARCDS. Orth. (Sydney)

Dr. Almuzian has a passion for teaching others and his enthusiasm is contagious, his lectures are never dull and all delegates will benefit from his one to one mentorship.

Having completed thousands of cases in 3 different continents and 6 countries, including UK and Australia, Dr Almuzian has vast experience in the field of adult and children's Orthodontics encompassing 17 years. He has a particular interest in breathing and sleep apnoea. As a highly qualified Specialist Orthodontist, Dr Almuzian is an honorary lecturer in Orthodontics at the University of Sydney, he has also worked as a full-time Lecturer in Orthodontics at the University of Sydney in Australia and AUST University in the UAE.

After graduating with honors as a dentist in 1998, Dr Almuzian went on to achieve specialty orthodontic training; an MSc in Orthodontics with distinction; which he followed with an MSc in Healthcare Administration with merit from the USA, Doctorate in Clinical Orthodontics (DClinDent. Orth.) qualification and a PG.Cert.SysRev.Health qualification with merit, all from the UK.
Dr Almuzian undertook further advanced training in Orthodontics at Eastman Dental Hospital/ University College of London and Oxford University Hospitals NHS foundation trust treating complex cases such as those with severe hypodontia, jaw deformity, cleft lip and palate and patients with craniofacial syndrome.

Dr Almuzian has acquired 9 other diplomas of memberships from the Royal College of Surgeons of Edinburgh, Glasgow, Ireland, England and Australia. He has also been awarded multiple accolades and merits in his studies and research to further facilitate his experience and was awarded the Gold Medal from the Royal College of Surgeons of Edinburgh in Orthodontics for the most meritorious performance among more than 80 candidates worldwide.

As an evidence-based clinician, Dr Almuzian has now published over 25 research publications and many clinical audits on a variety of aspects of Orthodontics and has written various invaluable theses to his name, in addition supervising theses of others.

Selected Publications

Al-Mozany, S. A., Dalci, O., Almuzian, M., Gonzalez, C., Tarraf, N. E., & Darendeliler, M. A. (2017). A novel method for treatment of Class III malocclusion in growing patients. Progress in orthodontics, 18(1), 40

Mohammed, H., Rizk, M. Z., Wafaie, K., & Almuzian, M. (2017). Effectiveness of nickel - titanium springs vs elastomeric chains in orthodontic space closure: A systematic review and meta - analysis. Orthodontics & craniofacial research

F Alharbi, Almuzian, M., D Bearn. Miniscrews Failure Rate in Orthodontics: Systematic Review and Meta-analysis. European Journal of Orthodontics, cjw085

Yashin, D., Dalci, O., Almuzian, M, Chiu, J., Ahuja, R., Goel, A., & Darendeliler, M. A. (2017). Markers in blood and saliva for prediction of orthodontically induced inflammatory root resorption: a retrospective case controlled-study. Progress in orthodontics, 18(1), 27

Ahuja, R., Almuzian, M., Khan, A., Pascovici, D., Dalci, O., & Darendeliler, M. A. (2017). A preliminary investigation of short-term cytokine expression in gingival crevicular fluid secondary to high-level orthodontic forces and the associated root resorption: case series analytical study. Progress in orthodontics, 18(1), 23

Crowther, L., Shen, G., Almuzian, M., Jones, A., Walsh, W., Oliver, R., & Darendeliler, M. A. (2017). Does systemic administration of casein phosphopeptides affect orthodontic movement and root resorption in rats? European Journal of Orthodontics, cjw085

Huang, T. T. Y., Elekdag-Turk, S., Dalci, O., Almuzian, M., Karadeniz, E. I., Gonzales, C., ... & Darendeliler, M. A. (2017). The extent of root resorption and tooth movement following the application of ascending and descending magnetic forces: a prospective split mouth, microcomputed-tomography study. European Journal of Orthodontics, cjw073

Almuzian, M., Ju, X., Almukhtar, A., Ayoub, A., Al-Muzian, L., & McDonald, J. P. (2016). Does rapid maxillary expansion affect nasopharyngeal airway? A prospective Cone Beam Computerised Tomography (CBCT) based study. the surgeon

Almuzian, M., Almukhtar, A., Ju, X., Al-Hiyali, A., Benington, P., & Ayoub, A. (2016). Effects of Le Fort I osteotomy on the nasopharyngeal airway—6-month follow-up. Journal of Oral and Maxillofacial Surgery, 74(2), 380-391

Al-Hiyali, A., Ayoub, A., Ju, X., Almuzian, M., & Al-Anezi, T. (2015). The impact of orthognathic surgery on facial expressions. Journal of Oral and Maxillofacial Surgery, 73(12), 2380-2390

Almuzian M., M. Kazanji. Iraqi Dental Journal, Computerized and invisible identification of removable prosthesis. (Published)

Almuzian M. & Gardner A. Adult Orthodontics Part 1: Special Considerations in Treatment. Orthodontic Update Journal. 2014;7(3):89-92

Almuzian M. & Gardner A Adult Orthodontics Part 2: Advances in Treatment.: Orthodontic Update Journal. 2014;7(4):114-7

Selected Publications

Almuzian, M., Freel, J., Cross, N., & Gardner, A. (2015). A novel approach for treatment of the impacted maxillary incisor. Journal of orthodontics, 42(2), 144-152

Almuzian M., Alharbi F, McIntyre G., L. Chung. Clinical applications of the transpalatal, Nance & lingual arch appliances.: Orthodontic Update J. 2015; 8: 92-100

Almuzian, M. (2015). The William Houston Gold Medal of the Royal College of Surgeons of Edinburgh 2014, orthodontic cases. Journal of orthodontics, 42(3), 1-9

Almuzian, M., Almukhtar, A., O'Neil, M., Benington, P., Al Anezi, T., & Ayoub, A. (2015). Innovation in prediction planning for anterior open bite correction. Australian orthodontic journal, 31(1), 78

Almuzian M., Benington P, Al Muzian L. Sectional Cable Method in A High Anchorage Demand Case: A Case Report. European Journal of Clinical Orthodontics. 2015;3:doi:10.12889/2015_C00236

Almuzian M., Alharbi F, McIntyre G. Great Expectations of Patients with Missing Lateral Incisors: When are Space Opening and Space Closure Appropriate? European Journal of Clinical Orthodontics. 2015; ;2:doi:10.12889/2015_C00235

Almuzian M., Jill White, Alharbi F, McIntyre G. Distalizing Maxillary Molars – How do you do it?: Orthodontic Update Journal. 2016; 9: 42–50

Almuzian M., Gardner A. An Unexpected Accident with Orthodontic Headgear: Do We Need Another Safety Mechanism? Case report.. Journal of Dental Science and Therapy. 2016;1(1):1-2

Almuzian M., McDonald J, Ishword G, Almuzian L, Short L. Rapid Maxillary Expansion: Appliance types/ biomechanics and clinical aspects.: Orthodontic Update Journal. 2016; 9: 90–95

Almuzian M., Alharbi F, McIntyre G. Extra-oral Appliances in Orthodontic Treatment. Dental Update. 2016; 43: 74–82