2017 AAO Annual Session E-Posters

Electronic Posters (E-Posters) will be available for viewing throughout the Annual Session at the E-Poster booth located in the San Diego Convention Center Exhibit Hall. E-Posters will also be available for viewing on the AAO website after Annual Session until July 31, 2017. Over 500 E-Poster titles were accepted to be presented at the 2017 AAO Annual Session. This takes the place of the Poster display.

Volumetric cephalometric analysis
Ehab Abdel Bar, et al.
Los Angeles, CA, USA

Completion of a case with severe crowding and first premolars extraction within five appointments: a case report
Ahmad Abdelkarim
Jackson, MS, USA

3-dimensional facial soft tissue changes following maxillary skeletal expansion
Sara Abedini, et al.
Los Angeles, CA, USA

Orthodontic treatment of a patient with Kartagener Syndrome: a case report
Pelin Acar, Mustafa Ersoz
Malatya, Turkey

Geometric morphometric analysis of the influence of three-dimensional basicranial shape on facial asymmetry
Sara Adabi, et al.
San Francisco, CA, USA

Mandibular symphyseal surface area and pattern in different skeletal relationships: a 2D quantitative analysis
Ahmed Afify, Amal Linjawi
Jeddah, Saudi Arabia

The conformity between the arch dimensions of preformed orthodontic wires and dental arch form of a sample of Pakistani subjects
Maheen Ahmed, et al.
Karachi, Pakistan

Evaluation of stability after preorthodontic orthognathic surgery using cone beam computed tomography: a comparison with conventional treatment
Hye-rim Ahn, et al.
Seoul, South Korea

Postoperative changes of condylar position in asymmetry patients
Hyo-Won Ahn, et al.
Dongdaemun-gu, South Korea

Sella Turcica variations in skeletal Class I, Class II, and Class III adult subjects: a CBCT study
Ji Hyun Ahn, Prashanti Bollu
Henderson, NV, USA

Association of hypodontia and microdontia with taurodontism in a Nigerian population
Olawande Ajisafe, et al.
Lagos, Nigeria
A demographic assessment of Turkish skeletal Class III subjects’s phenotypic characterization
Sevil Akkaya, Emel Ozdemir
Ankara, Turkey

Incisor root resorption associated with palatally-displaced maxillary canine: a conebeam tomography study
Asma Al Emam, Elham Abu Alhaija
Irbid, Jordan

Case: orthodontic treatment to associate condylectomy unilateral
Maxwell Albuini, Sergio Lafigliola
Sao Paulo, Brazil

Treatment of a Class III patient with corticotomy assisted RME and face mask
Rukiye Alcin, Siddik Malkoc
Malatya, Turkey

Salivary alkaline phosphatase as a biomarker for skeletal maturity
Nora Alhazmi, et al.
Boston, MA, USA

Vertical and sagittal control in a patient with open bite tendency
Aron Aliaga-Del Castillo, et al.
Bauru, Brazil

CBCT analysis of root resorption of maxillary incisors using Connecticut intrusion arch: a prospective randomized clinical study
Marcio Almeida, et al.
Londrina, Brazil

Repeatability of cervical vertebral maturation method among orthodontic residents
João Pedro Almeida, et al.
Porto Alegre, Brazil

Evaluation of oral hygiene in orthodontic patients
Renata Almeida-Pedrin, et al.
Bauru, Brazil

Compliance with removable orthodontic appliances and adjuncts: a systematic review
Dalya Al-Moghrabi, et al.
London, United Kingdom

Extrusion of impacted maxillary canines with segmental arch mechanics: report of a case
Selin Alpagan, Ahmet Yalcin Gungor
Antalya, Turkey

Efficacy of chewing gum to reduce orthodontic fixed appliance pain: a randomized clinical trial
Athbi Alqareer, et al.
Jabriya, Kuwait

Incidence of Egyptian live births of cleft lip and/or palate in Cairo, Luxor, Aswan and New Valley governorates: a survey study
Haytham Alswairki, et al.
Jeddah, Egypt
Orthodontic and orthognathic surgical treatment of a patient with juvenile rheumatoid arthritis
Ayse Altan, Ulkem Cilasun
Kocaeli, Turkey

Treatment of a severe open bite case with extraction of four permanent first molars: a case report
Birim Altuntas, Mustafa Ersoz
Malatya, Turkey

Distalization for the entire maxillary and mandibular arch with temporal miniscrew anchorage, alternative treatment for dental protrusion
Bianca Altair Alvarado Delfin
Mexico City, Mexico

Skull base triangle in White, Black and Afrocaucasian Brazilian adolescents
Fabiola E. Alvarez Avila, et al.
Bauru, Brazil

Root resorption after orthodontic treatment: a case report
Gisele Alves, et al.
São Bernardo do Campo, Brazil

Microbiological evaluation of orthodontic wires submitted to disinfection and sterilization after clinical use
Celha Borges Alves, Marcos Lenza
Palmas, Brazil

Rapid maxillary expansion with the expander with differential opening: a case report
Arthur Alves, et al.
Bauru, Brazil

How health education can be effective to empower the orthodontics patients
Patricia Andrade, et al.
Florianopolis, Brazil

Unilateral protraction of lower molars using indirect anchorage with TADs
Oscar Antelo, et al.
Curitiba, Brazil

Correction of skeletal Class II malocclusion with the Forsus fatigue resistance device: a case report
Gema Arana, et al.
Guadalajara, Mexico

In vivo metal trace in orthodontic saliva patients by x-ray spectrometer
Marília Araújo, et al.
Londrina, Brazil

In vitro efficacy of diallyl sulfide on aggregatibacter actinomycetemcomitans biofilm on orthodontic appliances
Anil Ardeshna, et al.
Newark, NJ, USA

Influence of sex and age in the upper airway of Peruvian children
Leycester Arias-Otoya, et al.
Lima, Peru
The treatment of severe Class II malocclusion with mesiodens: a case study
Akif Arslan, et al.
Ordu, Turkey

Anterior open bite correction: SARPE and miniscrews for molar intrusion
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Sliding mechanics and extractive orthodontic planning for open bite correction
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Lima, Peru

Class III treatment with a hybrid RME-mentoplate combination: two cases report
Mehmet Aydin, et al.
Eskisehir, Turkey

Detection of volume of root resorption in orthodontically treated patients using cone beam computed tomography
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Bonding of an orthodontic bracket to zirconia using silica coated alumina particle
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Wonju, South Korea

Total intrusion and distalization of the maxillary arch to improve smile esthetics
Eui Seon Baek, et al.
Seodaemun-gu, South Korea

Treatment of a case of mandibular fibrous dysplasia with extraction of a premolar and canine substitution
Zuhair Bakhsh
Jeddah, Saudi Arabia

Clinical case: surgical-orthodontic treatment (surgery first)
Pedro Ballinas Roblero, Isaac Guzmán Valdivia
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Evaluation of oxidative stress biomarkers in patients treated with rapid maxillary expansion
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Assessment of airway changes after anterior maxillary distraction in cleft patients: a CBCT study
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Mangalore, India

Evaluation of the intraexaminer and interexaminer reliabilities of different lower border lines of pharyngeal airway: a CBCT study
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Ortho-surgical treatment of maxillary lateral incisor agenesis
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Open bite orthodontic treatment  
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Dimensions of impacted mandibular third molar follicles with different angulation: a CBCT study  
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Perceptions of case complexity among orthodontists, dentists, orthodontic residents, and dental students  
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Houston, TX, USA

Profile changes in Class III malocclusion treated with Roth and biofunctional techniques  
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The effects of fan type rapid maxillary expansion appliance on point a: report of a case  
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Comparison of arch forms between African American and North American Caucasian populations  
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Surgical and orthodontic treatment of a skeletal Class III patient  
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Early treatment of Class II malocclusion using functional appliance  
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Expansion of the mandibular arch with RPE treatment  
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Periodontal therapy in the orthodontic planning  
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Low-level laser therapy for treatment of neurosensory disorders after orthognathic surgery: a systematic review of randomized clinical trials  
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Aristeu Bittencourt-Neto, et al.  
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Stability of Class II malocclusion treatment with Forsus: case report
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Londrina, Brazil

USA and Canada faculty satisfaction investigation
Samantha Bogle, et al.
Newark, NJ, USA

Orthosurgical treatment of bilateral idiopathic condylar resorption: a case report
Barbara Bomfim, et al.
Rio de Janeiro, Brazil

Condylar remodeling by neurophysiological treatment in juvenile idiopathic arthritic cases
Andrea Bono
La Plata, Argentina

Comparison of 3D surface imaging versus conventional photography in the esthetic perception of profiles
Catharine Borders, et al.
Houston, TX, USA

Challenges of orthodontic re-treatment
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Newark, NJ, USA

Creation of a 3D average for 13 year old males and females using CBCT data
Lea Bou Serhal, et al.
Cleveland Heights, OH, USA

Orthodontic surgical treatment of anterior open bite and Class III malocclusion
Mohamad Bou Wadi, et al.
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Effects of cocoa-enriched diet on orofacial pain in a murine model
Laura Bowden, John Neubert
Gainesville, FL, USA

Treatment of a patient with mesiodens using fan type expansion appliance
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Orthopedic and orthodontic treatment of skeletal Class II malocclusion: case report
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Maxillary molar intrusion with mini implant: five years follow up
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Development of 3D cell culture model to explore osteoblast response to mechanical stress
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Effects of Class II malocclusion correction with Mara appliance and activator-headgear
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Bauru, Brazil
Effects of face mask combined with alternate rapid maxillary expansions and constrictions (Alt-RAMEC) protocol on skeletal Class III malocclusion: case report
Muhammed Hilmi Buyukcavus, Mevlut Celikoglu
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Orthodontic treatment of Class II division 2 malocclusion in adult patients: a case report
Tatiana Caamones, Isaac Guzmán Valdivia
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Perception of smile midline deviations by laypersons and orthodontists
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Assessment of facial soft tissue changes following orthognathic surgery using three-dimensional images of patient with Class III malocclusion
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Gingival recession associated with a 3x3 hygienic retainer: a case report
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Randomized clinical trial comparing anterior retraction and control of anchorage in masse retraction and in two step retraction during space closure in Class I bipostrusion patients
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Araraquara, Brazil

Comparison of the opening of the palatal suture with MSE (Maxillary Skeletal Expander) and Hyrax appliance using CBCT imaging
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Los Angeles, CA, USA

Orthopedic and orthodontic treatment of a skeletal Class III pre-adolescent patient
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Successful management of skeletal Class III dolichofacial pattern: a 10-year follow-up
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Ribeirão Preto, Brazil

Assessment of masticatory efficiency in cases of anterior openbite using colourimetric capsules
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Forced eruption of impacted dilacerated upper central incisor using fixed orthodontic treatment: case report
Mevlut Celikoglu, Muhammed Hilmi Buyukcavus
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Effects of pulsed electromagnetic field for pain caused by placement of initial orthodontic wire
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Treatment of Class II subdivision malocclusion with asymmetric extractions
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Complicated orthodontic and surgical management in treating a female adult patient with ankylosed temporomandibular joints, mandibular hypoplasia and obstructive sleep apnea
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Kaohsiung, Taiwan

Comparison of shear-bond strength of brackets with diverse base technologies
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3-year follow-up of a UCLP patient treated with maxillary protraction and alveolar bone grafting: an approach using the power of growth potential
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Shanghai, China

The effects of orthodontic extraction on smiling esthetics in different malocclusions
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Taipei, Taiwan

Cephalometric analysis without ionizing radiation on human skull using MRI: a pilot in vitro study
Taras Chepura, et al.
Erlangen, Germany

Early treatment of Class II malocclusion with fixed twin block
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A study on the change of perception to smile esthetics in orthodontic patients
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Digitally comparing traditional two point measurements with curvilinear measurements in relation to the Bolton analysis
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Houston, TX, USA

Prevalence and risk factors of tooth discolouration after orthognathic surgery: a retrospective study of 1455 patients
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Effect of growth hormone treatment on craniofacial growth in children: idiopathic short stature versus growth hormone deficiency
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Seoul, South Korea

Factors influencing the absence of the interproximal dental papilla
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Seoul, South Korea

Cephalometric configuration of the occlusal plane in patients with anterior open bite
Yoon Jeong Choi, et al.
Seodaemun-gu, South Korea

Accuracy of customized bracket position based on 3D printed transfer jigs
Hye-Young Choi, et al.
Seoul, South Korea
Mini implant adjuncts in preprosthodontic orthodontic treatment
Rohit Chopra
New Delhi, India

Mandibular posterior asymmetry index in panoramic radiography
Dong-Hwa Chung
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Soft tissue thickness changes after Herbst treatment
Gökhan Çoban, Abdullah Ekizer
Kayseri, Turkey

Relation of the morphology of the mandibular condyle through panoramic radiography and cone beam computer tomography images
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Orthodontic correction of a Class III malocclusion in a 12 years old patient with face mask
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Guadalajara, Mexico

Microbial evaluation of esthetic orthodontic ligature by checkerboard DNA-DNA hybridization: in vivo study
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Induction of ankylosis in the incisor for orthodontic tooth movement in rats
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Skeletal and dentoalveolar bilateral dimensions of patients with unilateral impacted maxillary canines
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Santo Domingo, Dominican Republic

Orthodontic treatment in a disabled patient
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Comparison of surgical and non-surgical orthodontic treatment approaches on occlusal and cephalometric outcomes in patients with severe Class II division I malocclusions
Sheila Daniels, et al.
Iowa City, IA, USA

Evaluation of the buccal bone in anterior teeth using different CBCT devices
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Salvador, Brazil

Evaluation of hyaline areas caused by induced tooth movement
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Headgear Herbst treatment of a severe high-angle Class II malocclusion
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Monitoring the effects on soft tissues during RME therapy with 3D photogrammetric high resolution face scanners
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Oral deleterious habits in anterior open bite patients
Flaviana Dias, et al.
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Comparison of speech and orthodontic results in 5 year old patients with unilateral CLP: results of a prospective clinical trial in two different cleft palate centers
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Effect of the surface coating of orthodontic mini-implants on inflammation, osseointegration and rate of loss investigated in beagle dogs
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Mesialization of mandibular molars with mini-implants
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Maternal supplementary folate intake, methylenetetrahydrofolate reductase (MTHFR) C677T and A1298C polymorphisms and the risk of orofacial cleft
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Management of congenitally missing lateral incisors with orthodontics and reshaping of canines: a case report
Burcu Ektiren, Siddik Malkoc
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Cone beam computed tomography assessment of the relation between sex and morphology in patients with impacted maxillary canine
Gihan El Desouky, Waleed Refaat
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Assessment of histopathological effect of local statin injection on the tissue surrounding mini-implants in rats
Waleed El Sayed, Mohamed Nadim
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Treatment of Class III cases with clear aligners
Tarek El-Bialy, Thamer Alkhadra
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Soft tissue analysis of fetal alcohol syndrome (FAS) and williams syndrome patients and their deviation from norm
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Assessment of mechanical properties of orthodontics miniscrews during insertion and removal
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Utilizing maxillary skeletal expander (MSE) for skeletal expansion, Class III correction, and relieving severe crowding as an alternative to surgical or extraction approaches in non-growing patients
Islam Elkenawy, et al.
Los Angeles, CA, USA

Anatomical assessment of the mandibular buccal shelf for miniscrew insertion
Tarek Elshebiny, Sebastian Baumgaertel
Cleveland, OH, USA

Treatment of a patient with crossbite by a single removable appliance: report of a case
Göksu Emek, Ahmet Yalçın Gungor
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Exosomal proteins as potential diagnostic markers in root resorption
Alyssa Emory-Carter, et al.
Gainesville, FL, USA

Assessing shear bond strength of orthodontic brackets using different etching protocols on hybrid crown materials
Matthew Epperson, et al.
New Orleans, LA, USA

Correction of a skeletal Class II malocclusion with bi-maxillary protrusion
Cesar Escalante, et al.
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Pendex-based orthodontic treatment of patients with submucosal cleft palate (SCP)
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Orthopedic correction in Class III combined case
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Management of gingival enlargement in orthodontic patients with adjunct use of diode laser during dental prophylaxis
Rosa Estrada, et al.
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Comparison of changes in arch dimensions with conventional appliances and Damon system
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Roth prescription and variations between manufacturers
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The association between palatal rugae pattern and dental malocclusion
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Does open-fixed lip-bumper produce stable outcomes in the longterm
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Maxillary protraction in patients with unilateral cleft lip and palate: evaluation of long-term results
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When is a conservative treatment the best approach
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Analysis of bone mandibular symphysis in different facial growth pattern
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Three-dimensional comparison of dental effects of two mechanics for space closure: a preliminary study
Luciana Fernandes, et al.
Rio de Janeiro, Brazil

Anterior open bite treatment with skeletal anchorage
Ana Lucia Fernandes da Silva, et al.
Maringa, Brazil

Orthodontic treatment of bilaterally impacted maxillary central incisor with an inverted position
Maria Jose Fernandez Perez, Pablo Galindo-Moreno
Granada, Spain

Prosthetic temporary rehabilitation in patient with anterior teeth agenesis
Natalia Ferreira, et al.
Belo Horizonte, Brazil

A treatment for effectiveness OSA / OSAHS with intraoral appliances
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Class II molar relationship treatment with ectopic upper canines
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Relationships between mandibular anterior alveolar bone thickness at different sites as assessed with cone-beam computed tomography
Pimchanok Foosiri, Korapin Mahatumarat
Bangkok, Thailand

Facial asymmetry from the deciduous through the permanent dentition
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Treatment efficiency of Class I four-premolar and Class II malocclusion two maxillary premolar extraction protocols
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Severe open bite adult patient treated with mini-implants and multi-loop edgewise arch wire
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Full rehabilitation of a patient with cleidocranial dysplasia: a clinical report  
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Correlation of primary tooth wear and TMJ dysfunction variables  
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Smile attractiveness of different gingival zeniths evaluated by laypeople, dentists and orthodontists  
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Craniofacial morphology and overnight sleep polysomnographic (PSG) parameters in children with obstructive sleep apnea (OSA)  
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Accuracy of CBCT on mandibular condyle measurements, a human cadaver study  
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Does the occlusal scheme change with the anterior dental guidance  
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Micro-osteoperforations to accelerate space closure in patients with bicuspid extraction and orthodontic treatment: case series  
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Comparative in vitro analysis of enamel damage after debonding ceramic vs. metallic brackets  
Daniel Garrison, et al.  
Jacksonville, FL, USA

The effect of quarterly sodium fluoride application on the DMFS score of patients undergoing orthodontic treatment: a clinical trial  
Erin Gearity  
Port Washington, NY, USA

Traditional and efficient facemask therapy in an early mixed Class III malocclusion  
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Curitiba, Brazil

Application of the Pitts’ protocol in an anterior open bite case  
Maria Celina Gil, et al.  
La Plata, Argentina
Treatment of oligodontia by using fixed orthodontic appliances and prosthetic rehabilitation: a case report and 5 months follow up
Yesim Yasemin Gollerli, et al.
Ordu, Turkey

Effect of occlusal changes on sagittal condylar position using CBCT
Daniel Gross, et al.
Oak Park, MI, USA

Skeletal anchorage in a rat model of orthodontic tooth movement (OTM)
Sudha Gudhimella, et al.
Lexington, KY, USA

Correlation between alveolar bone thickness and orthodontic movement of the maxillary incisors
Esteban Danilo Guerra, et al.
São Paulo, Brazil

Orthodontic-orthognathic surgical treatment of a Class II skeletal malocclusion with anterior open bite: a case report
Andrea Guerra, et al.
Mexico City, Mexico

Correction of laterognathia and prognathism due to condylar hyperplasia
Catalina Guerrero, et al.
Mexico City, Mexico

Treatment of the patient with anterior cross bite and ichthyosis vulgaris disease by using fixed orthodontic technique without extraction: case report
Burak Gülnar
Trabzon, Turkey

Extrusion of maxillary incisors by using mini-screws: a case report
Duygu Gunes, Ali İhya Karaman
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Treatment of a Class II division 1 malocclusion with combination of monoblock and fixed orthodontic appliance: a case report
Ahmet Yalcin Gungor, Gizem Bayrak
Antalya, Turkey

Treatment of a patient with unilateral Class II malocclusion, with unilateral fixed functional appliance: report of a case
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The effect of maxillary expansion on the maxillary and mandibular dimensions and the upper airway
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Effects of combined use of total-etch and self-etch primer on bracket bonding
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Premaxillary osteotomy: dental and skeletal changes
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Management of Class III malocclusion in growing patient
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Effect of a compensating curve on controlled movement of the anterior teeth in sliding mechanics: simulation for long-term tooth movement using finite element method
Ryo Hamanaka, et al.
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The esthetic perception, acceptability, and economic value of orthodontic appliances by laypeople
Khaled Hamdallah, et al.
Jacksonville, FL, USA

Total distalization for the treatment of anterior open bite in hyperdivergent patient
Seung-Hee Han, et al.
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Removing orthodontic appliances before MRI, is it necessary
Majd Hasanin, et al.
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Changes of condylar position after three months of treatment with posterior bite turbos
Santiago Herrera-Guardiola, German Puerta
Cali, Colombia

Orthodontic camouflage in the Class III malocclusion with posterior and anterior crossbite
Rodrigo Higa, et al.
Bauru, Brazil

Full mouth rehabilitation with interdisciplinary management: a case report
Chih-Liang (Julian) Ho, Ming-Shu Lee
Banqiao, New Taipei City, Taiwan

The C plate: new anchorage options for the mandible
Alexander Hohensee
Bingen, Germany

Evaluating the efficiency of new bracket base designs comparing different test methods
Marcus Holzmeier, et al.
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The association between cranial base flexure and oropharyngeal airway dimensions in patients with retrognathic mandible
Myat Htut, et al.
Henderson, NV, USA

Histomorphometric evaluation on atrophic alveolar ridge altered by root thrusting and alveolar decortication in beagles
Dong-Hyun Hwang, et al.
Seoul, South Korea

Predictors of sleep disordered breathing in children: the panic study
Tiina Ikavalko, et al.
Kuopio, Finland
Treatment planning of impacted canine case with digital modeling and virtual setup
Joon Im, et al.
Wonju, South Korea

The failure of fixed orthodontic retainers: frequency, pattern and associated factors
Sarah Irfan, et al.
Karachi, Pakistan

An orthodontic approach for damaged central incisors caused by impacted canines
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Himeji, Japan

Changes in cranio maxillary and circum maxillary suture system in relation to rapid palatal expansion and effect on mandibular arch: a 3D study
Pradeep Jain, et al.
Jaipur, India

Stability of skeletal Class III malocclusion after orthognathic surgery with minimal orthodontics: mandibular setback vs two-jaw surgery
Moon Jung Jang, Nam-Ki Lee
Seongnam, South Korea

Influence of maxillary and mandibular posterior discrepancy in anterior open bite severity
Guilherme Janson, et al.
Bauru, Brazil

Effects of Forsus fatigue resistant device (FRD) with mini-screws and stability of the treatment after 4 years
Eliza Jaria, Won Moon
Los Angeles, CA, USA

Indirect bonding with 3-D printed transfer trays
Yasas Jayaratne, Madhur Upadhyay
Farmington, CT, USA

Accuracy of intraoral-scanned crown and CBCT root composite tooth model: in vivo study
Jun-Bo Jeon, et al.
Gwangju, South Korea

Shear bond strength test in modified orthodontic tubes
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Lips change after incisors retraction in Class II division 1
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Orthodontic-surgical treatment in a patients with unilateral cleft and palate and laterognathism
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Effects of transmucosal administration of thyroxine on the tooth movement and osteoclastic activity
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Intrusion of incisors: a case report
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Assessment of skeletal maturity using the permanent mandibular canine calcification stages
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Strong SOC is associated with improvement in TMD: a longitudinal study in orthognathic patients
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