2019 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 Los Angeles Convention Center Exhibit Hall. E-Posters will also be available for viewing on the AAO website after Annual Session until July 31, 2019. Over 450 E-Poster titles were accepted to be presented at the 2019 AAO Annual Session.

Dental maturity, skeletal maturity and chronological age: correlation on the reliability of these parameters
Yllka Abazi, et al.
Tirana, Albania

Evaluation of Bio-Oss and monetite graft materials in a rat jaw defect model - a pilot study
Mohamed-Nur Abdallah, et al.
Toronto, ON, Canada

Multiple uses of cone-beam computed tomography for orthognathic surgery: a case report
Ahmad Abdelkarim
Jackson, MS, USA

Morphological study of the human hyoid region in cleft lip and palate patients
Ahmed Abdelkarim, et al.
Honolulu, HI, USA

Evaluation of the dentoalveolar effects of TAD-tissue supported rapid palatal expander on the transverse dimension of the maxilla through CBCT analysis
Reem Abdulrahman, et al.
Philadelphia, PA, USA

In-vitro shear bond strength and clinical failure rate of metal brackets bonded with three different bonding systems
Aiman Abufanas, et al.
Dubai, United Arab Emirates

Effects of playing wind instruments on occlusal characteristics and dental arch dimensions
Tope Adeyemi, Olayinka Otuyemi
Kano, Nigeria

Evaluation of change in tongue posture and hyoid bone position after Twin Block appliance therapy in skeletal Class II subjects
Erum Afzal, Mubassar Fida
Karachi, Pakistan

Outcomes of tooth autotransplantation: a systematic review
Nadia Ahmed, et al.
Birmingham, United Kingdom

Novel anti-biofouling light-curable fluoride varnish containing 2-methacryloyloxyethyl phosphorylcholine to prevent enamel demineralization
Yoon-Soo Ahn, et al.
Seoul, South Korea

Ultrasonography in different orthodontic malocclusions
Mehmet Okan Akcam, et al.
Ankara, Turkey
Mini-implant anchored and tooth-implant anchored rapid maxillary expansion: 3 dimensional FEM study
Ozge Akcam, et al.
Ankara, Turkey

Alveolar bone height changes in patients treated with conventional and Damon brackets
Akinwale Akinwande, et al.
Baltimore, MD, USA

A severe Class III malocclusion treated non-surgically
Evangelos Akli
St. Louis, MO, USA

Mandibular molar protraction assisted by temporary anchorage device and piezoelectric corticotomy
Marwan Al-Areqi, et al.
Irbid, Jordan

Treatment of skeletal Class II malocclusion using the Forsus appliance: case report
Angelica Alcala, et al.
Guadalajara, Mexico

Facial functional rehabilitation
Alexandre Algarve, et al.
Maringa, Brazil

Bonded spurs associated with posterior build-ups for open bite treatment in the mixed dentition
Aron Aliaga-Del Castillo, et al.
Bauru, Brazil

Predicting craniofacial growth using upper and lower body heights
Thikriat Al-Jewair, et al.
Kansas City, MO, USA

Efficiency of the use of anesthetic topic in different times of application for installation of orthodontic mini-implants
Wilson Almeida, et al.
Maringa, Brazil

Third molar position after Class II subdivision malocclusion treatment with asymmetric extractions
Jessica Almeida, et al.
Bauru, Brazil

Evaluation of cephalometric lip morphology in a sample of Saudi sub population - a cross sectional study
Salem Almoammar, et al.
Abha, Saudi Arabia

Long-term stability of occlusal outcomes in orthodontic patients: a systematic review
Sultan Alotibi, et al.
Ghent, Belgium

Influence of diabetes mellitus on tooth eruption and prevalence of malocclusion
Ibrahim Alshahrani, et al.
Abha, Saudi Arabia

Influence of emotional stress exposure on orthodontic tooth movement - a systematic review
Deema Alshammery, et al.
Riyadh, Saudi Arabia
Comparison between using miniscrews and fixed functional appliances for mandibular molar protraction
Abdulrahman Alshehri, et al.
West Hartford, CT, USA

Quality assessment of web-based information on orthodontic treatment
Abdulmajed Alturki, et al.
Riyadh, Saudi Arabia

Class II malocclusion correction using Class II intermaxillary elastics supported on miniscrews: a case report
Fabiola Alvarez, et al.
Bauru, Brazil

Bilateral Class II correction using Twin Force Bite Corrector (TFBC)
Elen Caroline Alves, et al.
Maringa, Brazil

Comparison of different midsagittal plane configurations for evaluating craniofacial asymmetry by expert preference
SangIn An, et al.
Seoul, South Korea

Risk factors associated with open gingival embrasures after orthodontic treatment
Sang Su An, et al.
Seoul, South Korea

Cone-beam computed tomography evaluation of pharyngeal airway space changes after bimaxillary orthognathic surgery up to 7 years in patients with Class III skeletal deformities
Jae Hwa An, et al.
Yangsan, South Korea

Effects of rapid palatal expansion versus conventional fixed appliance therapy on airway dimensions: two prospective pilot studies utilizing acoustic pharyngometry
Brittany Ang, et al.
Newark, NJ, USA

Adult orthodontics, an interdisciplinary treatment approach
Oscar Antelo, et al.
Curitiba, Brazil

Thermal analysis of nickel titanium orthodontic arch wires
Anil Ardesha, et al.
Newark, NJ, USA

Prevalence of sleep-disordered breathing among patients with a dentofacial disharmony
Ross Aronson, et al.
Chapel Hill, NC, USA

Facial mask and micro-osteoperforations in orthopedics for maxillary advance
Alejandra Arredondo
Nezahualcóyotl, Mexico

Prevalence of white spot lesions among African Americans and White adolescent
Fateh Arslan, et al.
Jacksonville, FL, USA
Alt-RAMEC: protocol for Class III treatment
Emiliano Ascani, Maria Celina Gil
La Plata, Argentina

The effect of temperature and duration of heat treatment on custom-made nickel titanium closed coil springs
Thanate Assawakawintip, et al.
Bangkok, Thailand

In vivo evaluation of the genotoxicity and oxidative damage in patients with fixed orthodontic
Salma Avila, et al.
Guadalajara, Mexico

A rare case of condensing osteitis / idiopathic osteosclerosis associated with a submerged tooth
Shruti Bajaj, David Covell
Buffalo, NY, USA

Forces generated by rapid maxillary expansion with miniscrews in different angulations
Icris Balbueno, et al.
Porto Velho, Brazil

Effects of fixed functional devices on oral health-related quality of life
Burcu Balos Tuncer, Fatma Tekin Kaymaz
Ankara, Turkey

2017 evaluation of diagnosis and treatment procedures in French orthodontic practices and comparison with American data
Maïlys Balteau, et al.
Strasbourg, France

Correlation between occlusal force and development of craniofacial deformity in neurofibromatosis type I (NF 1) syndrome
Ibraheem Bamaga, et al.
Jacksonville, FL, USA

Role of orthodontics in forensic odontology- a review
Nandish Bandadi, Faiz Bhat
Mangalore, India

Evaluation of the accuracy and reliabilities of lower border planes used for volumetric measurement of pharyngeal airway
Shahin Baradaran Hashemi, et al.
Adana, Turkey

Impact of positive airway pressure on the growth of the middle face
Rita Catia Bariani, et al.
Sao Paulo, Brazil

Musculoskeletal pain survey in cleft surgeons and orthodontists
Osama Basri, et al.
Pittsburgh, PA, USA

The effect of orthodontic treatment on the quality of life of children
Abeer Basri, Sawsan Tabbaa
Jacksonville, FL, USA
Twin Block and MARA appliances effects in Class II malocclusion correction
Cristina Bastiani, et al.
Bauru, Brazil

Extraction a lower central incisor
Nayeli Becerril, Isaac Guzmán Valdivia Gómez
Mexico, Mexico

Retention and impaction of incisors in children
Ismail Belazi, Amel Ben Brahim
Tunis, Tunisia

Sagittal, rotational, and transverse changes with three intraoral distalization force systems
Silvio Bellini-Pereira, et al.
Bauru, Brazil

Evaluation of occlusal plane in Class III malocclusion with different facial patterns
María del Carmen Benítez, et al.
Maringa, Brazil

Autogenous tooth transplantation using 3D printed replica to create a new socket
Ana Benítez, et al.
Mexico City, Mexico

Debonding of monocrystalline and polycrystalline ceramic brackets using the BIOLASE Waterlase iPlusTM laser
Brent Benoit, et al.
New Orleans, LA, USA

Hybrid hyrax and petit mask in skeletal Class III patient - case report
Laila Berni, et al.
Bauru, Brazil

Functional treatment of Class III malocclusion at an early age
Maria Beti, Federico Malagraba
La Plata, Argentina

Asymmetric extraction in orthodontic treatment of malocclusion Class II right subdivision
María Bianchi, et al.
La Plata, Argentina

Predictive factors for long-term (≥15 years) stability of Class II treatment
Niko Bock, Sabine Ruf
Giessen, Germany

Temporomandibular joint and rheumatoid arthritis patients
Andrea Bono
La Plata, Argentina

Non extraction treatment of mandibular midline discrepancy with segmented arch mechanics
Talitha Borja, et al.
Lima, Peru

Efficacy of the mini tooth positioner in improving orthodontic finishes
Mason Borth, et al.
Houston, TX, USA
Age and gender correlations to midpalatal suture maturation system based on panoramic radiography
Jose Bosio, et al.
Baltimore, MD, USA

Miniscrew primary stability at different timepoints: a prospective controlled trial
Caroline Brinck, et al.
Sarzana, Italy

Treatment of Class III malocclusion associated with tooth loss and compromised smile arch
Deborah Brindeiro de Brito, et al.
João Pessoa, Brazil

Correction of functional anterior crossbite in the mixed dentition: case report
Caroline Bronfman, et al.
Bauru, Brazil

Long-term periodontal evaluation following gingivectomy treatment of orthodontically induced gingival hyperplasia with the diode and Er,Cr:YSGG lasers
Angela Bukstein, et al.
New York, NY, USA

Non-conservative orthodontic treatment with healthy teeth preservation
Andrea Cabuli, Maria Celina Gill
La Plata, Argentina

Comparative study of dentoskeletal and soft tissue changes after treatment of Class II patients with Forsus appliance
Nayara Caldas Pereira, et al.
Salvador, Brazil

Profile changes in Class II patients treated with two fixed functional devices
Chiara Calzolari, et al.
Genoa, Italy

Surgery first and virtual bonding in a CIII patient
Brayan Camacho Dominguez, et al.
Mexico, Mexico

Obstructive sleep apnea and rapid maxillary expansion in non-syndromic children with cleft lip and cleft palate
Cassandra Campbell, et al.
San Francisco, CA, USA

Average acid etching times prior to orthodontic bonding utilizing different etching protocols
Jennifer Caplin, Megan Effner
Chicago, IL, USA

Treatment with rapid maxillary expansion and mandibular distraction osteogenesis: an alternative
Mario Cappellette, Jr., et al.
Sao Paulo, Brazil

Orthodontic and multidisciplinary treatment in the management of a cleft lip and palate patient
Paula Carraro Fonseca, et al.
Porto Alegre, Brazil
Stability of maxillary interincisal diastemas after orthodontic treatment with premolar extraction
Marcos J. Carruitero Honores, Guilherme Janson
Bauru, Brazil

Perception of upper incisor inclination and its correlation with dental cephalometric variables
Rui Caseiro, et al.
Lisbon, Portugal

Treatment of a deep overbite with ectopic canines - case report
Gabriela Castro, et al.
Guadalajara, Mexico

Comparison of gingival recession of mandibular incisors in different facial patterns
Bruno Ceribelli, et al.
Maringa, Brazil

Anterior cross bite and ectopic canines correction in Class III patient
Evelin Cervantes
Guadalajara, Mexico

Ectodermal dysplasia: multidisciplinary treatment approach
Gurpreet Chadha, Martin Martz
Los Angeles, CA, USA

Prevalence of dental anomalies - a retrospective study on a Chinese orthodontic population
Grace Xiu Ling Chan, et al.
Singapore, Singapore

Combined surgical-orthodontic treatment to manage an adult patient with improperly treated bilateral cleft lip/palate and separate premaxilla
YuJen Chang
Kaohsiung, Taiwan

Orthodontic combined orthognathic surgery treatment for different patterns of facial asymmetry- case series
Chen-Jung Chang, et al.
Tainan, Taiwan

Three-dimensional evaluation of maxillary alveolar arch changes after using nasoalveolar molding device in unilateral complete cleft lip and palate patients
Worathep Chantadilok, et al.
Khon Kaen, Thailand

Elastodontic appliance assisted fixed appliance treatment- a new two phase protocol for extraction cases
Yong Chen, et al.
Xiamen, China

Treatment of a Class II division 2 malocclusion using a mandibular anterior repositioning appliance in a growing patient
Eric Chen, Jason Pair
Los Angeles, CA, USA

Factors affecting smile esthetics in adults with various vertical overbite malocclusions
Hsin-Chung Cheng, Yi-Hsuan Lee
Taipei, Taiwan
Premolar autotransplant for and upper central incisor replacement
Maria Jose Chimbo, et al.
Mexico City, Mexico

Management of the pathologic extruded maxillary central incisor using single tooth intrusion arch and dental implant
Younkyung Choi, et al.
Busan, South Korea

Photocatalytic antibacterial effect of TiO2 film of TiAg on Streptococcus mutans
Jung-Yoon Choi, et al.
Seoul, South Korea

The effects of primers with various surfaces zirconia on shear bond strength
In-Sun Choi, et al.
Gwangju, South Korea

Prediction of long-term success of orthopedic treatment in skeletal Class III malocclusion
Yoon Jeong Choi, et al.
Seoul, South Korea

Correlations between cephalometric measurements and visual perception of facial profile in skeletal type II patients
Choki Choki, et al.
Bangkok, Thailand

Enhancing biomechanical efficiency in the intrusion of the posterior teeth
Rohit Chopra
New Delhi, India

CBCT study of mandibular interradicular cortical bone thickness of different vertical skeletal patterns
Jessica Chua, et al.
Singapore, Singapore

Evaluation of stress pattern caused by mini-implant in mandibular alveolar bone with different angulation and retraction forces - a 3-dimensional finite element study
Vinay Chugh, Manreet Sidhu
Jodhpur, India

Periodontal changes after orthodontic treatment in middle-aged adults are comparable to those in young adults
Chooryung Chung, et al.
Seoul, South Korea

Comparison of root resorption in Class III treatment with Roth and Biofunctional prescriptions
Rosangela Colet, et al.
Maringa, Brazil

Occlusal interference, its relation with functional malocclusions in mixed dentition case report
Maria Coronado, et al.
Guadalajara, Mexico

Impacted central incisor - two phases of treatment and 1 year follow-up
Marcelo Correa, Flavia Ellinger Correa
Campo Belo, Brazil
Comparison of two polisher systems after orthodontic bracket removal: a randomized clinical trial
Ana Carla Costa, et al.
São Luis, Brazil

Comparison of two different screws for rapid maxillary expansion: a randomized multicentric clinical study
Elisabetta Cretella Lombardo, et al.
Rome, Italy

A pendulum appliance for effective distalization
Gabriela Davicino
Tres Isletas, Argentina

Correction of crowding with second bicuspid extractions clinical case report
Mariana De la Garza, et al.
Guadalajara, Mexico

Comparison of root resorption in conventional and self-ligating appliances
Roberta de Morais, et al.
Maringa, Brazil

Severe crowding treatment using Damon system
Elvia Del Toro, Carlos Orozco Varela
Guadalajara, Mexico

Three-year-follow-up of third molars development stages in a controlled sample
Flaviana Dias, et al.
Londrina, Brazil

Determination of the coefficient of friction with different systems of brackets
Nora Diaz, Francisco Marichi
Mexico City, Mexico

Bacteria profile of patients with and without cleft lip and/or palate undergoing orthodontic treatment: a systematic review and meta-analysis
Francisco do Vale, et al.
Coimbra, Portugal

Extraction of a mandibular incisor in a Class III maloclusion
Rafael Domínguez Bassó, Armando Montesinos Flores
Mérida, Mexico

TMJ disorders and orthodontic treatment with teeth extractions
Maria Dushenkova, et al.
Moscow, Russian Federation

General population knowledge about orthodontic profession and factors affecting potential practitioner selection
Riley Dyer, et al.
Jacksonville, FL, USA

Probiotic lactobacillus paracasei HII01 attenuates jawbone microarchitectures in obese insulin-resistant rats
Sathima Eaimworawuthikul, et al.
Mueng Chiang Mai, Thailand
Effect of 3D printed dental model thickness on dimensional stability
Alexander Edelmann, et al.
Houston, TX, USA

Treatment effects of skeletally anchored fixed functional appliance on oropharyngeal airway dimensions
Osama Eissa, et al.
Tanta, Egypt

3D evaluation of skeletal and dento-alveolar effects of microimplant-assisted rapid palatal expansion (MARPE) in an adult using CBCT
Sherif Elbarnashawy, et al.
Cleveland, OH, USA

The effect of changing Kvp, mA and voxel size on 3D voxel-based superimposition
Manhal Eliliwi, et al.
Cleveland, OH, USA

Biomechanical behavior of two types of temporary anchoring devices in the mandibular shelf: finite elements
Javier Elizalde Soto, et al.
Puebla, Mexico

Non-surgical expansion in adults: evaluating the magnitude, parallelism, and asymmetry of micro-implant assisted rapid maxillary expansion
Islam Elkenawy, et al.
Los Angeles, CA, USA

Do fixed orthodontic appliances adversely or positively affect the periodontal health - a systematic review of systematic reviews
Sherif Elkordy, Yehya Mostafa
Cairo, Egypt

Comparison of smile changes after retraction of maxillary anterior teeth using miniscrew anchorage or conventional anchorage
Shaimaa Elmarhoumy, Osama Eissa
Tanta, Egypt

Evaluation of dentofacial transverse widths in growing and adult individuals with an average facial pattern
Mohammed Elnagar, et al.
Chicago, IL, USA

Precision and reliability of Dolphin 3D mandibular voxel-based superimposition
Tarek Elshebiny, et al.
Cleveland, OH, USA

Comparative evaluation of pubertal growth spurt with radiological and pubertal examination methods
Dervis Emre Ercan, Sema Yuksel
Ankara, Turkey

Effects of intentional cranial deformation on mandibular bone
Elisa Estrada, et al.
Mexico City, Mexico

C-Lingual retractor: upper anterior retraction system without brackets
Vitor Eto, et al.
Belo Horizonte, Brazil
Class II malocclusion with anterior open bite treated with bicuspid extractions
Jose Eulloqui, Roberto Pesqueira Melgarejo
Guadalajara, Mexico

Evaluation of attractiveness of aesthetic orthodontic wires
Melissa Faccini, et al.
Maringa, Brazil

Changes in the vertical gingival display associated with upper first premolar extraction orthodontic treatment - prospective clinical trial
Michel Falas, et al.
Irbid, Jordan

Knight magic arch
Louis Fares
Beirut, Lebanon

Pilot investigation: prediction of changes in the arch perimeter following orthodontic treatment
Naghmeh Farsi, et al.
Markham, ON, Canada

Effectiveness of antimicrobial gels on gingivitis during fixed orthodontic treatment: a systematic review and meta-analysis
Farheen Fatima, et al.
Karachi, Pakistan

Accuracy of cephalometric images captured with two android scanner applications
Rihana Fayyaz, Sohrab Shaheed
Peshawar, Pakistan

The effect of rapid maxillary expansion on sleep disorders in children: a prospective observational study
Renata Feres, et al.
Curitiba, Brazil

Root resorptions and retained canine case report
Anissia Isabel Fernández Sedas, Fabiola Hernández Girón
Mexico, Mexico

In vivo analysis of pro-inflammatory cytokine expression involved in bone remodeling after intrusion movement under the influence of low-level laser
Marcella Fernandes, et al.
Sao Paulo, Brazil

Treatment of bialveolar dental protrusion with miniplates for skeletal anchorage
Rebecca Figueiroa, et al.
Belo Horizonte, Brazil

Orthopedic-orthodontic treatment in a patient with a skeletal Class III malocclusion and an impacted upper canine
Humberto Fosado Garcia, Mauricio Ballesteros
Mexico City, Mexico

Usage of maxillary skeletal expander (MSE) coupled with facemask appliance to treat skeletally asymmetric Class III adult patient non-surgically
Andrew Fraser, et al.
Los Angeles, CA, USA
Aesthetic brackets after in vitro degradation with and without fluoride: is there any cytotoxicity?
Maria Perpetua Freitas, et al.
Canoas, Brazil

Modified Alt-RAMEC and face mask protocol in cleft lip and plate patient: a case report
Begüm Güler, Nazan Küçükkeleş
Istanbul, Turkey

Associated dental anomalies and Class II malocclusion: case report
Caroline Gambardela-Tkacz, et al.
Sao Paulo, Brazil

Remineralization potential of hydroxyapatite derived from human teeth- an in vitro study
Chandra Sekhar Gandikota
Hyderabad, India

Mesial root resorption of the lower left first permanent molar before and after orthodontic treatment and transposed ectopic upper canine: a case report
Salvador García-López, Rosina Villanueva-Arriaga
Mexico City, Mexico

Histological and CT evaluation of micro-implant assisted rapid palatal expansion in an animal model
Aguinaldo Garcez, et al.
Campinas, Brazil

Skeletal Class III with maxillary hypoplasia and mandibular hyperplasia clinical case report
Maria Garcia, et al.
Guadalajara, Mexico

Treatment of a Class II malocclusion with TADs and upper molar extractions
Daniel Garcia, et al.
Guadalajara, Mexico

Aesthetic considerations for the assessment and treatment of the smile
Isela Garcia, et al.
Puebla, Mexico

Position of infra zygomatic mini implants for maxillary teeth traction
Ana Garcia, Enrique Grageda
Mexico City, Mexico

Management of Class II skeletal malocclusion with surgery first approach
Monica Garcia Santos, Farima Andrea Navarro Martin del Campo
Guadalajara, Mexico

Shear bond strength of orthodontic brackets bonded to a new all-ceramic crown composed of lithium silicate infused with zirconia
Ryan Gardiner, et al.
New Orleans, LA, USA

The effect of mini-implant assisted rapid palatal expansion: a systematic review
Ausama Gargoum, Christine Hong
Los Angeles, CA, USA
Orthodontic treatment of a bilateral transposition of upper canines
Juan Manuel Garrido Roldan, Pedro Lara Mendieta
Mexico City, Mexico

Periodontal health during orthodontic treatment: a randomized controlled clinical trial
Francesca Gazzani, et al.
Rome, Italy

In vitro degradation, fluoride and cytotoxicity of metallic brackets: is there influence?
Fernanda Giongo, et al.
Porto Alegre, Brazil

Influence of the smile on facial attractiveness in males and females
Joana Godinho, et al.
Lisbon, Portugal

Evaluation of diagnostic agreement between cephalometric measurements for determining incisors’ position
Ileana Gomez, et al.
Merida, Mexico

Late mandibular growth in post-surgery patient: clinical report
Henrique Gontijo, et al.
Belo Horizonte, Brazil

Planning of 3D surgical splint in orthodontics
Monica González, et al.
Coyoacan, Mexico

Effects of the high power light emitting diode-based device (LED) on the retina of rats
Ariane Gonzaga
Natal, Brazil

Treatment of a mouth breather with maxillary transversal collapse clinical case report
Minerva Grageda, et al.
Guadalajara, Mexico

Effect of vitamin D on the rate and stability of orthodontic tooth movement in rats
Marie-Pascale Gratton, et al.
Montreal, QC, Canada

Camouflage treatment in a skeletal Class III adult patient
Lara Karolina Guimarães, et al.
Curitiba, Brazil

A comparative study on the efficiency of rapid maxillary expansion aided by mono- or bio-cortical mini-implants anchorage using cone-beam computed tomography in young adults
Jing Guo, Na Li
Jinan, China

Novel e-resource for teaching cephalometry does simulation beat real-world experience?
Yosef Haddad, Esma Doğramacı
Adelaide, Australia
Debonding characteristics of monocrystalline and polycrystalline ceramic brackets
Christopher Hansen, et al.
New Orleans, LA, USA

Role of WNT9B rs153064 and WNT5A rs566926 gene polymorphisms with non-syndromic cleft lip and palate in South Indian population using DNA sequencing
Manjunath Hegde, et al.
Bangalore, India

Anterior dental open bite due to digital suction habit and patient improvement on self perception
Stephanie Herrera
Guadalajara, Mexico

Generation of disease-specific induced pluripotent stem cells from patients with Apert syndrome
Ogura Hiroyuki, et al.
Chiba, Japan

Prevalence of snoring and sleep-disordered breathing in children from an orthodontic setting
Frances Hollinger, et al.
Lincoln, NE, USA

Comparison of treatment outcome assessment for Class I malocclusion patients: peer assessment rating versus American Board of Orthodontics cast-radiographic evaluation
Mihee Hong, et al.
Daegu, South Korea

Quality of life x rapid maxillary expansion
Daniela Hoppe, et al.
Sao Paulo, Brazil

Detection of external apical root resorption in orthodontic patients treated with Invisalign®
John Houston, et al.
Jacksonville, FL, USA

A qualitative assessment on marketing effectiveness in orthodontic offices
Michelle Hsiao, et al.
Henderson, NV, USA

Surgical orthodontic correction of Class III malocclusion with spaced dentition
Yi-Jun Hung, Eddie Lai
Taipei, Taiwan

Three-dimensional evaluation of dentofacial transverse widths of adults with various vertical facial patterns
Soonshin Hwang, et al.
Seoul, South Korea

The effect of orthodontic tooth movement on teeth with open apex
Ayla Idilbi, et al.
Jacksonville, FL, USA

Movement of the mandibular incisor root within the dentoalveolar structure in orthognathic treatment
Yuki Iijima, et al.
Chiba, Japan
Association between bottle-feeding habit and occlusal disorders in preschoolers
Roberta Illinsky, Cristina Lucia Fejo Ortolani
Sao Paulo, Brazil

Long term stability of Class II division 1 malocclusion correction in adult patient with bioprogressive therapy
Luciano Imai, et al.
Maringa, Brazil

Nickel-free titanium Haas - like appliance for rapid palatal expansion - a standard procedure
Emmanouil Inglezos, et al.
Athens, Greece

Association of symmetric and asymmetric orthodontic extractions with different occlusal characteristics
Sarah Irfan, Mubassar Fida
Karachi, Pakistan

Morphofunctional researches of a mandible movements via kinesiograph and correlation between dental and postural systems
Tatiana Ivanenko, et al.
Moscow, Russian Federation

Effects of stress-relaxation in beta-titanium orthodontic cantilever: force decay evaluation
Helder Jacob, et al.
Houston, TX, USA

A 3D comparative evaluation of external apical root resorption and marginal alveolar bone changes in patients undergoing intrusion of maxillary anterior teeth using different orthodontic techniques
Pradeep Jain, Nitin Garg
Jaipur, India

Substitution of congenitally missing lower lateral incisors with canines: 5-year follow up
Woowon Jang, et al.
Seoul, South Korea

Mandibular movement changes after unilateral posterior crossbite correction in Class II growing patients
Pornpan Jariyavithayakul, Chairat Charoemratrote
Songkhla, Thailand

Eye characteristics in short, normal and long faces
Ashok Jena
Bhubaneswar, India

Evaluation of skeletal changes of rapid palatal expansion with miniscrew and surgically assisted (with/without alar base cinch) techniques
Adriana Jesus, et al.
Araraquara, Brazil

Treatment of a Class II malocclusion with four first premolar extractions following an initial non-extraction approach
Wenlu Jiang, et al.
Los Angeles, CA, USA

Stages of bone remodeling in time-dependent midpalatal suture expansion in mice
Lisa Jolly, et al.
Los Angeles, CA, USA
Orthodontic treatment with atypical extraction of lower incisor: a case report
Lais Michele Reis Jorge, et al.
São Bernardo do Campo, Brazil

15-year long-term retention after maxillary canine substitution for lateral incisors
Sooin Jung, et al.
Seoul, South Korea

Computational analysis of airflow dynamics for predicting collapsible sites in the upper airways
Heekyu Jung, et al.
Seoul, South Korea

Second molar uprighting using mini-screws: a case report
Hasan Kadi, Marie Pegelow
Stockholm, Sweden

Three dimensional evaluation of ponticulus posticus classification in unilaterally and bilaterally maxillary impacted canine cases: a retrospective study
Fatih Kahraman, et al.
Eskisehir, Turkey

Does the change in the inclination of the incisors affect their crown length in Class I malocclusion patients?
Eleftherios Kaklamanos, et al.
Dubai, United Arab Emirates

Evaluating the sterility of orthodontic materials as received from the manufacturer and that exposed to clinic environment - in vitro study
Ajit Kalia, Musaddique Sayyed
Pune, India

How to pull out? : Introduction of various orthodontic appliances to treat impacted tooth
Yoonkoo Kang, et al.
Incheon, South Korea

Long-term retention after surgical correction of hyperdivergent Class II patient
Minji Kang, et al.
Seoul, South Korea

Three year stability of non-surgical correction of severe anterior open bite via molar intrusion: a case report
Ju-Young Kang, et al.
Seoul, South Korea

Bacterial endotoxin-preconditioned periodontal ligament stem cells induce M1 polarization of macrophage through extracellular vesicles
Hyejong Kang, Myung-Shin Lee
Sejong, South Korea

Skeletal maturity of the cervical vertebrae and the hand-wrist in precocious puberty patient
Sung-Tae Kang, et al.
Seoul, South Korea

Status of foreign trained dentist (FTD) in the United States of America
Julia Kang, et al.
Jacksonville, FL, USA
Correction of unilateral posterior crossbite with asymmetrical SARME: case report
Ece Karaer, Berza Yilmaz
Istanbul, Turkey

An evaluation of tooth movement using a cyclic air pulsed device
Chung Kau, et. al.
Birmingham, AL, USA

The frequency of bruxism in adolescents with deep bite
Renata Kevij Gospic, et al.
Zagreb, Croatia

Three-dimensional assessment of the pharyngeal airway in growing vs non-growing subjects with/without cleft lip and palate
Ayman Khalifa, et al.
Cairo, Egypt

Effect of decortication on maxillary distalization: a finite element analysis
Sarah Khamis, et al.
Beirut, Lebanon

Three dimensional changes in skeletal/dental landmarks with use of mandibular advancement devices
Da In Kim, et al.
Edmonton, AB, Canada

Study on the accuracy of maxillary superimposition in growing patients using cone-beam volumetric images
Won-Ho Kim
Seoul, South Korea

In vitro evaluation of cytotoxicity and corrosion of niobium-titanium-tantalum-zirconium archwires with various acidities
Yaejin Kim, et al.
Seoul, South Korea

The skeletodental changes and stability after total mandibular arch distalization
So-Hyun Kim, et al.
Seungnam, South Korea

Surgery-first approach for skeletal Class III patient with transverse discrepancy
Somi Kim, et al.
Seoul, South Korea

Long term retention after treatment by unilateral extraction of first premolars
Sujin Kim, et al.
Seoul, South Korea

Long-term survival of retained deciduous mandibular second molars and maxillary canine incorporated into final occlusion
Kyung-Ho Kim, et al.
Seoul, South Korea

Classification of final restoration for the created alveolar space by maxillary anterior segmental distraction osteogenesis
Dasomi Kim, et al.
Seoul, South Korea
A finite element analysis of the optimal bending angles in a running loop for mesial translation of a mandibular molar using indirect skeletal anchorage
Mi-Jung Kim, et al.
Iksan, South Korea

Investigation on the failure rate and cause of orthodontic retainers according to its types
Minji Kim, et al.
Mokdong, South Korea

Accuracy of 3D cephalogram obtained from biplanar imaging system
Hyun-Min Kim, et al.
Gwangju, South Korea

The effects of glossectomy on airway to tongue ratio and mandibular morphology
Eric Kim, et al.
Baltimore, MD, USA

Biomechanical effect of miniscrew-supported asymmetric maxillary transverse expansion: a finite element analysis
Srikrung Klaewkasikij, et al.
Bangkok, Thailand

Contemporary approach to the orthodontic treatment - only rectangular wires
Tatiana Klimova
Moscow, Russian Federation

Chemical composition characterization of mini-implants after clinical use
Luégya Knop, et al.
Salvador, Brazil

The effects of sandblasting with various surfaces zirconia on shear bond strength
Seong-Jun Ko, et al.
Gwangju, South Korea

Three-dimensional analysis of buccal cortical bone thickness in individuals with non-syndromic unilateral cleft lip and palate
Jaemin Ko, et al.
San Francisco, CA, USA

Evaluation the effects of cheiloplasty on the maxillary dental arch in the unilateral complete cleft lip and palate infants using three-dimensional digital models
Thanawut Kongprasert, et al.
Khonkaen, Thailand

Orthodontic treatment for the cleft lip and palate patient
Chieh Shen Koo, et al.
Singapore, Singapore

Analysis of the correlation between bruxism and sleep and mood disorders: a case-control study
Alessandro Koumoulis, et al.
Rome, Italy

Dentoalveolar effects of bonded shark teeth-like spurs in adult anterior openbite
Rungrawee Kraisiridej, et al.
Bangkok, Thailand
Effect of light and heavy forces during selective alveolar decortication on root resorption
Kriangkrai Kraiwattanapong, Bancha Samruajbenjakun
Hatyai, Thailand

Nonsurgical approach in severe dentoalveolar extrusion by miniscrews and selective teeth extraction
Liang-Jou Kuo, et al.
Taipei, Taiwan

Impaction of maxillary lateral incisor and canine caused by an odontoma: surgical and orthodontic management - a case report
Tai-Ting Lai, Huey-Yuan Wang
Taipei, Taiwan

In-vitro shear testing of the effect of silver diamine fluoride treatment on bond strength
Nathan Larson, et al.
Manvel, TX, USA

Orthodontic camouflage of an adolescent patient with Class II Division 1 malocclusion and ankylosed maxillary central incisors
Wen Jian Matthew Lau
Singapore, Singapore

Effect of low level laser with orthodontic movement on bone remodeling in experimental periodontal disease
Isabela Laubenstein Pereira, et al.
Campinas, Brazil

Expansion with TPA and continuous arch mechanics
Ingrid Ledra, et al.
Araraquara, Brazil

Comparison of tooth-borne and skeletal anchorage maxillary protraction on growing Class III patients (2 years follow-up)
SangHoon Lee, et al.
Cheonan, South Korea

20-year retention after treatment of a skeletal Class III malocclusion with hypodivergent profile and unilateral crossbite
Won Lee, et al.
Seoul, South Korea

Concentrations of CTX I, CTX II, DPD, and PYD in the urine as a biomarker for the diagnosis of temporomandibular joint osteoarthritis: a preliminary study
Seung-min Lee, et al.
Pusan, South Korea

Posterior available space for uprighting horizontally impacted mandibular second molars using orthodontic microimplant anchorage
Young-Jun Lee, et al.
Daejeon, South Korea

The orthodontic treatment for adolescents with anterior missing teeth caused by trauma
Kanggyu Lee, et al.
Jeonju-si, South Korea
Success rate and patient’s discomfort of narrow-round neck miniplate anchorage
Jeong-Sub Lee, et al.
Wonjusi, South Korea

Accelerated canine movement with piezocision - a randomized controlled trial: pilot study
Paranee Leehathorn, et al.
Bangkok, Thailand

Correlation between H angle and visual perception in skeletal type I females
Kitpat Lersinghanart
Bangkok, Thailand

Orthodontic treatment of impacted maxillary canine with congenitally missing lateral incisor: a case report
Ching-Hung Li, et al.
Taipei, Taiwan

Evaluating the clinical accuracy of a customized labial prescription wire and bracket system: a retrospective study
Kenneth Lim, et al.
Melbourne, Australia

Long-term CBCT evaluation of Class II patient after maxillary total arch distalization using Modified C-palatal plate
Hee Jin Lim, et al.
Seoul, South Korea

Effects of mini-implant anchorage in the treatment of skeletal open bite
Hugo Lima, et al.
Maringa, Brazil

Asymetric treatment approach in adult patient: restoring smile esthetics
Ludmila Lima, et al.
Bauru, Brazil

Non-surgical treatment of anterior open bite using miniscrew anchorage: 5-year follow-up
Chen-Ming Lin, et al.
Taipei, Taiwan

Surgical-first approach in skeletal Class III malocclusion - a case report
Shih-Hsuan Lin, et al.
Kaohsiung City, Taiwan

Orthodontic uprighting of severely impacted bilateral mandibular third molars: a case report
Chan-Chia Lin, et al.
Yun-Lin County, Taiwan

Bony changes of male and female rats using a tooth-borne palatal expander
Lawrence Lin, et al.
Los Angeles, CA, USA

Comparison of superelasticity of orthodontic wires with different austenite finish (Af) temperatures
Paula Litron, et al.
Maringa, Brazil
Application of mechanical vibration to enhance the stability after orthodontic treatment - a micro-CT study
Dawei Liu, et al.
Brookfield, WI, USA

Comparing the aesthetics of Class II profile modifications
Charles Long, June Harewood
New York, NY, USA

Efficacy of botulinum toxin in treating pain related to chewing muscles
Vinicius Longhini Soares, et al.
Maringa, Brazil

Orthodontic pain and jaw muscle tenderness during clear aligner therapy
Tiantong (Tim) Lou, et al.
Toronto, ON, Canada

The accuracy of orthodontic bracket placement in direct versus indirect bonding
Alessandra Lucchese, et al.
Milano, Italy

Do different vertical positions of maxillary central incisors influence smile esthetics perception?
Kamila Machado, et al.
Belo Horizonte, Brazil

Open bite treatment with zygomatic miniplates: a case report
Nurper Madak, Ezgi Çakir
Istanbul, Turkey

Any difference between conventional, passive self-ligating and active self-ligating brackets: a systematic review and network meta-analysis
Raphaëlle Maizeray, et al.
Strasbourg, France

Comparison of the mechanical properties of 2 commercial brand of nonlatex orthodontic elastics
Sasatorn Malanont, et al.
Bangkok, Thailand

Correlation between radiographic parameters for the prediction of palatally impacted maxillary canines
Durreshahwar Malik, et al.
Karachi, Pakistan

Quantitative evaluation of anterior dental maxillary elements in UCLP and BCLP after comprehensive orthodontic treatment with canine substitution for lateral incisors missing: a digital model study
Aura Sofia Manfio, et al.
Santa Maria, Brazil

Occlusal postretention stability in cases treated orthodontically with or without occlusal adjustment
Cecilia Marín Ramírez, et al.
Maringa, Brazil

Analysis of microesthetic patterns in normal occlusion
Olga Maranhão, et al.
Bauru, Brazil
Three-dimensional evaluation of dental changes after mandibular advancement with Herbst and Bionator appliances in Class II, Division 1 patients in mixed dentition
Juan Mariscal Munoz, et al.
Araraquara, Brazil

Corticotomy as a treatment for maxillary collapse and open bite correction: a case report
Natalia del Pilar Martínez Dávalos, et al.
San Luis Potosí, Mexico

Comparison of gingival recession in Class III patients treated surgically or compensatorily
Gabriela Martins Reis da Silva, et al.
Maringa, Brazil

Opening of the nasomaxillary suture after a rapid maxillary expansion: a cone-beam computed tomography assessment
Camila Massaro, et al.
Promissão, Brazil

A case report: orthodontic treatment with retained anterior teeth
Abril Maza Aceves, Isaac Guzmán Valdivia Gómez
Mexico City, Mexico

A comparison of the American Board of Orthodontics cast-radiograph evaluation grading of digital models using SureSmile software versus hand-grading of 3D-printed models
Marian McCarty, et al.
Houston, TX, USA

Multiloop edgewise archwire as a treatment alternative in the case of anterior open bite malocclusion
Thiago Meira, Ariel Pacheco
Curitiba, Brazil

Early treatment of posterior cross-bite as a way to favour fixed full orthodontic treatment
Cecilia Meller, et al.
Porto Alegre, Brazil

Mandibular mesiodens: case report
Laura Mendoza, et al.
Mexico City, Mexico

Anterior cross bite and ectopic canines correction in Class III patient
María Concepción Mendoza Palomino
Guadalajara, Mexico

Nonsurgical correction of a Class III skeletal anterior open-bite malocclusion using microscrews implants and reverse expander
Gladistone Meros, et al.
Francisco Beltrao, Brazil

Enamel damages and adhesive residues following de-bracketing of demineralized teeth with or without infiltration during fixed treatment
Knösel Michael
Göttingen, Germany

Anchorage loss 3D analysis for impacted canine traction
Marco Migliorati, et al.
Genova, Italy
Molar distalization: an alternative treatment without skeletal anchorage
Kelvin Miguel, et al.
Belo Horizonte, Brazil

Impacted upper bicuspid treatment with maxillary expansion using Bertoni’s appliance
Maria Miguélena, et al.
Guadalajara, Mexico

Orthodontic-surgical correction of a skeletal Class III malocclusion and mandibular asymmetry
Elizabeth Miramontes Almaraz, Isaac Guzmán Valdivia Gómez
Mexico City, Mexico

Miniscrew anchored maxillary protraction in the early permanent dentition: a case report
Felicia Miranda, et al.
Bauru, Brazil

Management of a severe skeletal Class III with maxillary hypoplasia using 3D surgical splint
Ana Monroy, Isaac Guzmán Valdivia Gómez
Mexico City, Mexico

Can the RP model (RM) replace the plaster model (PM) in the orthodontic clinic?
Cheol-Hyun Moon, et al.
Incheon, South Korea

Effect of orthodontic passive self-ligating system on the transverse dentoalveolar changes, a pilot retrospective CBCT study
Sherif Morcos Ebied, et al.
Cleveland, OH, USA

Reliability and validity of 3D digital models using an indirect bonding software
Fernando Moreira, et al.
Araraquara, Brazil

20 years follow-up of a Class III earlier treatment using Frankel III and chincap
Isabela Moreira dos Santos, et al.
Avaré, Brazil

Comparative study of force-deflection characteristics of Forsus and PowerScope appliances springs
Alexandre Moro, et al.
Curitiba, Brazil

Improvement of a gummy smile: clinical case report
Lilia Morones, et al.
Guadalajara, Mexico

In vitro shear testing of orthodontic bonding to lithium disilicate with Assure Plus
Alissa Morris, et al.
Houston, TX, USA

Miniplates in surgical-orthodontic treatment
Wilana Moura, et al.
Bauru, Brazil

The importance of orthopedic and orthodontic treatment in pediatric patients
Oscar Muñoz Barrera, Adan Casasa
Mexico City, Mexico
Craniofacial skeletal patterns and airway: can orthodontists help identify airway issues in children? Padma Mukherjee, et al. Newark, NJ, USA

To extract or not to extract: morpho-functional approach Nabi Nabiev, Tatiana Klimova Moscow, Russian Federation

Effect of rapid maxillary expansion on airway volume in mouth-breathers Lucia Nagai, et al. Sao Paulo, Brazil

Bilateral canine transposition correction using a novel three dimensional (3D) controlled canine loop Smruti Bhusan Nanda Bhubaneswar, India

Dentoskeletal and tegumental changes in individuals with normal occlusion after 40 years follow-up Gabriela Natsumeda, et al. Bauru, Brazil

Patients treated with extraction in the 70's and in the new millennium: dentoskeletal differences Rodrigo Naveda, et al. Bauru, Brazil

In vivo evaluation of accuracy of intraoral scanner in presence of crowding Emily Ng, et al. Singapore, Singapore

Anti-plaque efficacy of herbal mouthwashes compared to synthetic mouthwashes in patients undergoing orthodontic treatment: a randomized controlled trial Fayez Niazi, Muhammad Kamran Riyadh, Saudi Arabia

Obesity, oral inflammation, and dental development Christina Nicholas, et al. Chicago, IL, USA


Evaluation of mandibular bone and molar inclination and dental arch in patients with Class III asymmetry at pre and post treatment Yasushi Nishii, et al. Chiyoda, Japan

Comparative study of the effects of the fixed functional appliances Forsus Fatigue Resistant device and MARA in treatment of Class II malocclusion through lateral cephalograms analysis Cinthya Nogueira, et al. Bauru, Brazil

The effect of intraoral transcutaneous electrical nerve stimulation (TENS) on pain perception following orthodontic separator placement: a randomized controlled trial Grace Noh, et al. Fort Lee, NJ, USA
CBCT-generated cephalogram evaluation on the condylar position after surgery-first approach
Min-Hee Oh, et al.
Gwangju, South Korea

Morphological features of dentition associated with unilateral palatally impacted canine using cone beam computed tomography: an etiological study
Omar Okasha, Essam Abdallah
Maxilla, Egypt

Do corticotomy or piezocision accelerate maxillary canine retraction: a randomized controlled clinical trial
Dauro Oliveira, et al.
Belo Horizonte, Brazil

Influences of asthma and genetic markers on apical root resorption associated with orthodontic treatment: a clinical study
Paula Oltramari, et al.
Londrina, Brazil

Relationship between mechanical stress and sex hormone in onset of temporomandibular joint osteoarthritis
Tomohisa Ootake, et al.
Chiba, Japan

Treatment of patient Class II skeletal in mixed dentition with deep bite: case report
Carmen Orozco Ramírez, et al.
Guadalajara, Mexico

CAD/CAM for orthodontic 3D printable springs
Ahmed Othman, et al.
Krems an der Donau, Austria

Determination of macrophage migration inhibitory factor in saliva from patients with fixed orthodontic treatment
Montserrat Padilla, et al.
Guadalajara, Mexico

Protocol development for orthodontic oral microbiome studies
Chia-Hua Pai, et al.
Buffalo, NY, USA

Social media and orthodontic treatment from the patient’s perspective: a systematic review
Alkaterini Papadimitriou, et al.
Thessaloniki, Greece

Orthodontic treatment of amelogenesis imperfecta patient with congenital missing teeth
Je Hyeok Park, et al.
Jeon-ju si, South Korea

Comparison of multistranded fixed lingual retainer versus NiTi wire with mini-tube
Mi-Ri-Nae Park, et al.
Gwangju, South Korea

The longitudinal cephalometric study for positional changes of incisors using metallic implants
Hyo-Seon Park, et al.
Gwangju, South Korea
Registration accuracy in the integration of digital models and cone-beam computed tomography images using 3D planning software
Jin-ho Park, et al.
Seoul, South Korea

Treatment of a vertical deep bite: report of a clinical case
Nitzya Partida, et al.
Guadalajara, Mexico

Class II malocclusion treatment; bone anchored vs. normal intermaxillary elastic use: a pilot study
Aylin Pasaoglu Bozkurt
Istanbul, Turkey

Golden proportion evaluation of maxillary anterior teeth in African American and Hispanics
Jaladi Patel, Sawsan Tabbaa
Jacksonville, FL, USA

Third molar comparison in extraction and non-extraction orthodontic cases
Danelin Peña-Reyes, et al.
Bauru, Brazil

Vigorito analysis mandibular incisor position in White, Japanese and Japanese-Brazilian adolescents
José G Pelayo G, et al.
Bauru, Brazil

Six-month bracket survival with indirect and direct techniques: a split-mouth randomized controlled trial
Rui Pereira, et al.
Lisbon, Portugal

Temporary anchorage device for the maxillary protraction with Class III elastics - clinical report
Livia Pessotti, et al.
Belo Horizonte, Brazil

Impacted mandibular third molar extraction with orthodontic extraction technique
Tanakorn Phuangkoson, et al
Bangkok, Thailand

Geometric method to solve projection errors in 2D cephalometric radiographs
Ugyen Phuntsho, et al.
Bangkok, Thailand

Divine proportions of the hard and soft tissue profiles in patients treated with Bionator
Lucelma Vilela Pieri, et al.
Franca, Brazil

Effect of twin vs. self-ligating brackets and wire dimension on leveling and aligning in a CAD-CAM orthodontic system: a randomized clinical trial
Christian Piers, et al.
Chapel Hill, NC, USA

Early treatment of Class II, with lip-bumper and anterior bite plane
Jacqueline Pimentel, Ismael Villa Diaz
Mexico, Mexico
Layperson’s aesthetic perceptions of coated and uncoated orthodontic archwires
Célia Pinzan-Vercelino, et al.
Sao Paulo, Brazil

Impacted maxillary central incisor: 6-month post-treatment follow-up of a case report
Raquel Poletto, et al.
Bauru, Brazil

Physical and chemical properties of 5 clear thermoplastic materials
Betina Porto, et al.
Cleveland, OH, USA

Comparative examination of bond strength of detaching brackets between three types of adhesives: an in vitro study
José J Prado-Arias, et al.
Mexico City, Mexico

Outcomes of classical Lefort I osteotomy vs distraction for correction of maxillary hypoplasia in cleft lip and palate: a north India overview
Veerendra Prasad, et al.
Lucknow, India

Transverse dimensional changes of maxillary morphology following Khon Kaen University presurgical nasoalveolar molding device in unilateral complete cleft lip and palate
Varisanan Prasongvaranon, et al.
Khon Kaen, Thailand

Effects of compressive force combined with high-frequency vibration on interleukin-1β and interleukin-6 expression in human mandible-derived osteoblasts
Anute Pravitharangul, et al.
Hat Yai, Thailand

The effect of plaque disclosing toothpaste on oral hygiene during orthodontic treatment: a randomized controlled trial
Sarah Prehn, et al.
Bronx, NY, USA

Surgical-orthodontic treatment in adolescent patient with cleft lip and palate sequelae: case report
Mayra Puga Galvan, Isaac Guzmán Valdivia Gómez
Mexico City, Mexico

Effects of rapid palatal expansion (RPE) and twin block mandibular advancement device (MAD) on pharyngeal structures in Class II pediatric patients from Cluj-Napoca, Romania
Ovidiu Radescu, et al.
Cluj Napoca, Romania

Camouflage treatment of a skeletal Class III patient using the segmented arch approach
Loidy Ramirez, et al.
Lima, Peru

Treatment for a skeletal Class III and mandibular laterognasia by surgery first
Fernanda Ramirez Lizola, et al.
Puebla, Mexico
Position and inclination of incisors and molars in open bite and deep bite patients according to facial biotype
Lissycecilia Ramirez Mejia, Ney Paredes Sampen
Lima, Peru

Does audiovisual information affect anxiety and pain perception levels in miniscrew applications?
Sabri Ilhan Ramoglu, et al.
Istanbul, Turkey

Prevalence of malocclusion among a group of dental students Fayoum City, Egypt by using Angle classification
Adel Rashid, et al.
Fayoum, Egypt

A randomized clinical trial of two fixed functional Class II correctors
Hailee Rask, et al.
Houston, TX, USA

Class II subdivision treatment with asymmetric extraction
Carolina Rasul, et al.
Maringa, Brazil

Comparison of bracket transfer media accuracy for indirect bonding (IDB) fabricated by three-dimensional printer
Sopit Rattanasumawong
Bangkok, Thailand

Cephalometric evaluation of upper airway dimensions in Class II skeletal patients according to vertical pattern
Marcela Reyes, et al.
Lima, Peru

Micro-osteoperforations and use of reverse face mask as coadydants in the Class III patient treatment with anterior cross bite with maxilla hypoplasia
Gabriel Rivera, Francisco Marichi
Xochimilco, Mexico

Ortho-surgical management of facial asymmetry: diagnosis and treatment of condylar hyperplasia
Thais Rocha, et al.
Terezina, Brazil

Resistance comparison of detachment of 4 adhesive systems
Jacqueline Adelina Rodríguez Chávez, et al.
Guadalajara, Mexico

Treating mild crowding with a novel orthodontic technique using independent tooth movement: a case report
Mehdi Roein-Paiker, et al.
Los Angeles, CA, USA

Type of bacterial plaque in orthodontic patients
Mario Rojas Alvarado, et al.
Mexico City, Mexico
Patients’ preference for orthodontic retainers: Essix, Hawley, and fixed retainers comparison
Yanisis Romero, et al.
Jacksonville, FL, USA

An in-vitro assessment of plier performance regarding clinically simulated debonding of ceramic brackets
Randy Roth, et al.
New Orleans, LA, USA

Morpho-functional parameters in patients with different maxillo-facial and TMJ dysfunctions
Anna Rusanova, et al.
Moscow, Russian Federation

Comparative analysis of the inter-canine width of the lower dental arch in patients with and none extractions treatment
Paola Sáenz-Nevárez, et al.
Mexico City, Mexico

Efficacy of anterior teeth lingual constriction with clear aligners: a pilot study
Sivaporn Sachdev, et al.
Bangkok, Thailand

Correction of a Class II skeletal malocclusion with twin block: clinical case
Martin Saenz, et al.
Guadalajara, Mexico

Surgery first: double jaw correction of a Class III skeletal malocclusion case
Serife Sahin, Berza Yilmaz
Istanbul, Turkey

Biological and orthodontic treatment - related risk factors associated with external apical root resorption
Maria Santana Suarez, et al.
Bogotá, Colombia

The effect of oral appliance therapy on glycemic control in patients with type 2 diabetes and obstructive sleep apnea: a pilot randomized controlled trial
Emily Santini, et al.
Montreal, QC, Canada

Relationship between size of styloid process and skeletal craniofacial pattern
Carolina Santos, et al.
Lisbon, Portugal

Effect of piezoelectric alveolar decortication on post orthodontic lower incisors stability: a randomized clinical trial
Marwa Saqat, et al.
Jeddah, Saudi Arabia

Profile attractiveness in Class II patients treated with elastics or twin force
Lucimar Schimmack Pedro, et al.
Maringa, Brazil

Integrity testing of a smooth surface resin sealant around orthodontic brackets using a new fluorescence-aided identification technique (FIT)
Timm Schott, Christian Meller
Tübingen, Germany
External apical root resorption during orthodontic treatment with Forsus appliance: a retrospective CBCT record review
Flor Segovia, et al.
Brooklyn, NY, USA

Vigorito analysis mandibular incisor position in White, Black and Afrocaucasian adolescents
Maria Pia Seminario Yarleque, et al.
Bauru, Brazil

Treating mild crowding with a novel orthodontic technique using independent tooth movement: a case report
Luca Sfogliano, et al.
Los Angeles, CA, USA

Investigating growth patterns in Class III malocclusion subjects without orthodontic intervention using Pancherz cephalometric analysis
Anush Shah, Anil Ardesna
Newark, NJ, USA

Interrelationship between agenesis of teeth and morphology of jaws: a CBCT study
Dipti Shastri, Pradeep Tandon
Lucknow, India

Impact of corticotomy on local bone marrow mesenchymal stem cells
Lei Shi, et al.
Shanghai, China

Wala ridge and dental arch dimensions changes after orthodontic treatment using a passive self-ligating system and conventional fixed appliance
Paula Silva, et al.
Bauru, Brazil

Orthodontic-surgical treatment of a Class III patient with multiple dental absences
Andreza Silva, et al.
Porto Alegre, Brazil

Social comparisons and discomfort in dentofacial deformity
Maria Silva, et al.
Coimbra, Portugal

Panoramic evaluation of mesiodistal angulations of teeth in various malocclusions
Alka Singh, Pradeep Tandon
Lucknow, India

Comparative evaluation of dentoskeletal effects of PowerScope™ and twin block functional appliances for the correction of Class II malocclusion in 12-16 year children
Satinder Singh, Mamta Phogat
Chandigarh, India

Nasolabial anthropometry of Thai neonates at Srinagarind Hospital, Khon Kaen, Thailand
Pimrapus Siririsudakul, et al.
Khon Kaen, Thailand

3-D experimental evaluation of 2 bracket geometries
Jason Southwell, et al.
Melbourne, Australia
Comparison of esthetic facial profiles as preferred by subjects, orthodontists and laypersons
Tuangporn Srisoogcharoen, et al.
Bangkok, Thailand

Inferior turbinate hypertrophy in patients with cleft palate: incidental finding on lateral cephalogram
J. Matthew Stacy, et al.
Pittsburgh, PA, USA

Influence of orthodontic treatment on the functional parameters of respiration in athletes with malocclusions
Kirill Stepanov
Saint Petersburg, Russian Federation

Maxillary molar distalization using iPANDA through clinical and finite element method studies
Kamontip Sujaritwanid, et al.
Bangkok, Thailand

Mandible unlocking effect in Class II Div II on mandible AP growth
Ayman Suliuman, et al.
Jacksonville, FL, USA

Comparison of masticatory performance and occlusal contact areas in subjects with Class I and III malocclusion
Pattra Sumonsiri, Udom Thongudomporn
Hatyai, Thailand

Severe Class III high-angle malocclusion treatment managed by dentoalveolar, occlusal plane, vertical and articular compensations
Hideo Suzuki, et al.
Campinas, Brazil

Effect of photobiomodulation effect on root resorption induced by orthodontic tooth movement and RANKL/OPG expression in rats
Selly Suzuki, et al.
Campinas, Brazil

Adolescent orthodontic quality of life (OQoL) correlation with ABO Discrepancy Index
Matthew Swan, et al.
Jacksonville, FL, USA

The relationship between dental model, cephalometric measurements and sleep questionnaires to the obstructive respiratory disturbance index in orthodontic patients
Shaima Tabari, et al.
Boston, MA, USA

Maxillary canine-lateral incisor transposition-orthodontic management with a mini-implant
Orlando Tanaka, et al.
Curitiba, Brazil

Evaluation of changes in smile esthetics following non-extraction orthodontic treatment
Pradeep Tandon
Lucknow, India
The bite-jumping appliance and the twin-block for skeletal Class II malocclusion: comparison of dentoskeletal effects
Michele Tepedino, et al.
L'Aquila, Italy

Does micro osteo perforation fast track orthodontic treatment: a prospective clinical trial
Shobbana Thalur, Anushya Sadasivam
Chennai, India

Changes of nose-lip morphology after using Khon Kaen University presurgical nasoalveolar molding device (KKU-PNAM) in complete unilateral cleft lip and palate (UCLP) patients
Apisara Thammapiwan, et al.
Mueang, Thailand

Relationship between mechanical stress and sex hormone in onset of temporomandibular joint osteoarthritis
Ootake Tomohisa, Ishii Takenobu
Chiba, Japan

Retention cases of Class II with upper premolars extraction
Obata Tomoko, et al.
Chiba, Japan

Treatment of idiopathic condylar resorption: case report
Diego Tonello, et al.
Bauru, Brazil

Evaluation of post-orthodontic changes in treatment of cleft lip and palate patients using the PAR Index
Kunakorn Trimetsuntorn, Poonsak Pisak
Khon Kaen, Thailand

Non-extraction skeletal Class III treatment with M.E.A.W. technique
Alvaro Durval Junior Trindade, et al.
Maringa, Brazil

Effect of three different light sources applied from different distances on temperature changes during orthodontic bonding by using thermal camera- an in vitro study
Cumhur Tuncer, Aysegul Ayhan Bani
Ankara, Turkey

Dentoalveolar expansion supported on temporary anchorage device (TAD) placed with computerized guides
Marjory Vaca, Isaac Valdivia
Mexico, Mexico

Immediate short and long term behavior of extraction spaces
Marcelo Valerio, et al.
Bauru, Brazil

Implant-supported attachment an alternative for palatal disjunction in young adults clinical case report
Edith Berenice Varela Guerrero, et al.
San Luis Potosi, Mexico

Compatibility of basal bone linear measurements obtained with CBCT and digital models
Juliana Vasconcelos, et al.
Londrina, Brazil
Demystifying the self-ligating Damon System: a broad prospective study
Bruno Vieira, et al.
Bauru, Brazil

Treatment of patients with Angle Class I skeletal pattern and trend to Class III, through facial orthopedics and corrective orthodontics, without mandibular growth restraint
Patrícia Vieira, et al.
Belo Horizonte, Brazil

Class II treatment with a skeletally anchored maxillary molar distalizer
Lorena Vilanova, et al.
Bauru, Brazil

Characterization of the oral microbiome in orthodontic patients
Edward Viloria, et al.
Los Angeles, CA, USA

Disturbed eruption of the lower second molar associated with lip bumper therapy
Franceska Vinjolli, et al.
Tirana, Albania

Analysis of presence and position of third molars
Maria Wagner, et al.
Macatuba, Brazil

Orthodontic and surgical management of a cleft lip and cleft palate patient
Buddhapoom Wangrimongkol
New York City, NY, USA

Buffering and antibacterial properties among bioactive glasses in orthodontic adhesives
Tanawan Wanitwisutchai, et al.
Bangkok, Thailand

Masticatory muscle activity and relative force distribution in adult anterior openbite treated using bonded shark teeth-like spurs
Pongsakorn Warin, et al.
Bangkok, Thailand

Three-dimensional comparison of lip response among different types of skeletal pattern
Trin Wattanajindaporn, et al.
Bangkok, Thailand

Comparison of dental arches, skeletal bases and transverse dental compensation in normal occlusion and posterior unilateral scissors-bite malocclusion utilizing cone-beam computed tomography
Juan Wen
Nanjing, China

Biomechanics - from research lab to clinics
Andrea Wichelhaus
Munich, Germany

Preliminary results of a patient satisfaction survey using clear aligner appliances
Lauren Wiese, et al.
Baltimore, MD, USA
Treatment of skeletal Class III malocclusion using mini-screw anchorage
Jui-Hsien Yang, Yun-Yun Wu
Taipei City, Taiwan

Surgical orthodontic treatment planning on mandibular prognathism with severe obstructive sleep apnea
Toshihiko Yasumura, et al.
Tokyo, Japan

Adhesion of Candida albicans to vanillin incorporated self-curing orthodontic PMMA resin
Kuenga Zam, et al.
Bangkok, Thailand

Programming buccal expansion with sequential aligners produces variable dental expansion and crown tipping
David Zhang, et al.
Melbourne, Australia

Orthodontic management of an impacted central incisor - clinical case report
Mayra Zuñiga Novoa, et al.
Guadalajara, Mexico