

E- ISSN: 2148-9505

TURKISH JOURNAL OF ORTHODONTICS

TJO



The Official Journal of Turkish Orthodontic Society

 **galenos**
Publishing House

Volume
Issue
June

38
02
2025



The Official Journal of Turkish Orthodontic Society

TURKISH JOURNAL OF ORTHODONTICS

TJO

Owner

Gökmen Kurt

Department of Orthodontics, Bezmialem Vakıf University
Faculty of Dentistry, İstanbul, Türkiye

Editor in Chief

Çağla Şar

Department of Orthodontics, İstanbul
Health and Technology University
School of Dentistry, İstanbul, Türkiye
ORCID ID: 0000-0003-4966-9779

Associate Editors

Furkan Dindaroğlu

Department of Orthodontics,
Ege University School of Dentistry, İzmir, Türkiye
ORCID ID: 0000-0003-4456-3115

Feyza Eraydın

Department of Orthodontics, İstanbul Gelişim University
School of Dentistry, İstanbul, Türkiye
ORCID ID: 0000-0002-7791-6979

Seden Akan Bayhan

Department of Orthodontics, Yeditepe University School
of Dentistry, İstanbul, Türkiye
ORCID ID: 0000-0001-7955-3086

Editorial Board

Alpdoğan Kantarcı

Department of Periodontology, The Forsyth Institute, Boston, MA, USA

Ayça Arman Özçirpıcı

Department of Orthodontics, Başkent University, Ankara, Türkiye

Björn Ludwig

Department of Orthodontics, University of Saarland, Homburg/Saar, Germany

Calogero Dolce

Department of Orthodontics, University of Florida, Florida, USA

Ludovica Nucci

Multidisciplinary Department of Medical-Surgical and Dental Specialties, University of
Campania "Luigi Vanvitelli", Via Luigi de Crecchio 6, 80138 Naples, Italy

Flavio Uribe

Department of Orthodontics, University of Connecticut School of Dental Medicine,
Farmington, CT, USA

Guiseppe Scuzzo

Department of Orthodontics, University of Ferrara, Ferrara, Italy

Jeffrey P. Okeson

Division of Orofacial Pain, University of Kentucky, Lexington, USA

Lorenzo Franchi

Department of Orthodontics, University of Firenze, Firenze, Italy

Luc Dermout

Department of Orthodontics, University of Ghent, Ghent, Belgium

Martin Palomo

Department of Orthodontics, Case Western Reserve University, Cleveland, Ohio, USA

Mehmet Ali Darendeliler

Department of Orthodontics, University of Sydney, Sydney, Australia

Metin Orhan

Department of Orthodontics, Ankara Yıldırım Beyazıt University, Ankara, Türkiye

Moschos A.Papadopoulos

Department of Orthodontics, Aristotle University, Thessaloniki, Greece

Neslihan Üçüncü

Department of Orthodontics, Gazi University, Ankara, Türkiye

Ömür Polat Özsoy

Department of Orthodontics, Baskent University, Ankara, Türkiye

Pertti Pirttiniemi

Department of Orthodontics, University of Oulu, Oulu, Finland

Ravindra Nanda

Department of Orthodontics, University of Connecticut, Farmington, USA



Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1
34093 İstanbul, Türkiye
Phone: +90 (530) 177 30 97
E-mail: info@galenos.com.tr/yayin@galenos.com.tr
Web: www.galenos.com.tr
Publisher Certificate Number: 14521

Printing Date: July 2025

E-ISSN: 2148-9505

International scientific journal published quarterly.



The Official Journal of Turkish Orthodontic Society

TURKISH JOURNAL OF ORTHODONTICS

TJO

Editorial Board

Seher Gündüz Arslan

Department of Orthodontics, Dicle University, Diyarbakır, Türkiye

Selma Elekdag Türk

Department of Orthodontics, Ondokuz Mayıs University, Samsun, Türkiye

Sema Yüksel

Department of Orthodontics, Gazi University, Ankara, Türkiye

Tülin Taner

Department of Orthodontics, Hacettepe University, Ankara, Türkiye

Ufuk Toygar Memikoğlu

Department of Orthodontics, Ankara University, Ankara, Türkiye

Melih Motro

Department of Orthodontics and Dentofacial Orthopedics, Boston University, Boston, USA

Timur Köse

Department of Biostatistics and Medical Informatics, Ege University, İzmir, Türkiye

Please refer to the journal's webpage (<https://turkjorthod.org/>) for "Ethical Policy", "Instructions to Authors" and "About Us".

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the ICMJE, WAME, CSE, COPE, EASE, and NISO. Turkish Journal of Orthodontics is indexed in PubMed Central, Web of Science-Emerging Sources Citation Index, DOAJ, Scopus, CNKI, Gale, EBSCO and TUBITAK ULAKBİM TR Index.

The journal is published online.

Owner: Gökmen Kurt on behalf of the Turkish Orthodontic Society

Responsible Manager: Çağla Şar

Editor in Chief: Çağla Şar

Address: Sütüce Mah. İmrahor Cad. No: 82 Beyoğlu, İstanbul/Türkiye

Phone: +90 (212) 416 61 13

E-mail: info@turkjorthod.org



The Official Journal of Turkish Orthodontic Society

TURKISH JOURNAL OF ORTHODONTICS

TJO

Contents

Original Articles

- 80 **Does LeFort I Surgery Have Any Influence on External Root Resorption?**
Ellen Kim, Ahmed A. Alsulaiman, Michael J. Gunson, Leslie A. Will, Marianne Saade, Melih Motro
- 89 **3-Dimensional Evaluation of Enamel Thickness to Guide Orthodontic Interproximal Reduction: A CBCT-Based Study Across Gender and Ethnicity**
Ezgi Cansu Firincioğulları, Aslıhan Ertan Erdiñ, Sercan Akyağın
- 97 **Finite Element Method (FEM) Analysis of Dentoskeletal Changes on Temporary Anchorage Device (TAD)-Assisted Mandibular Advancement**
Nazleen Valerie Vas, Navaneethan Ramasamy, Sruthi Harikrishnan, Karthikeyan Ramalingam, Marco Di Blasio, Hande Uzunçibuk, Marco Ciccù, Giuseppe Minervini
- 107 **Comparative Effects of Maxillary Advancement Alone and in Combination with Mandibular Setback on Airway Anatomy and Function in Class III Malocclusion: A Controlled Prospective Clinical Study**
Hatice Başaran Bal, Celal Irgin
- 116 **Impact of Camouflage Treatment with Class III Elastics on Temporomandibular Joint and Dentoskeletal Relationships: A Pilot CBCT and MRI-Based Clinical Trial**
Panjaree Panpitakul, Teekayu Plangkoon Jorns, Warinthorn Phuttharak, Rajda Chaichit, Pipop Sutthiprapaporn

Reviews

- 128 **The Effect of Diabetes Mellitus on Mandibular Growth**
Nearcho Panayi, Apostolos Tsolakis, Dimitrios Konstantonis, Ioannis Tsolakis, Maria Kouri, Georgia Kotantoula, Ismene A. Dontas
- 133 **Clinical Outcomes of Skeletal Anchorage Versus Conventional Anchorage in the Class III Orthopaedic Treatment in Growing Patients: A Systematic Review and Meta-Analysis**
Rachele Podda, Francesca Imondi, Adriana Assunta De Stefano, Martina Horodyski, Roberto Antonio Vernucci, Gabriella Galluccio