

AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

Acta Orthop Traumatol Turc ISSN 1017-995X • EISSN 2589-1294



The Official Journal of The Turkish Association of Orthopaedics and Traumatology (TOTDER) and The Turkish Society of Orthopaedics and Traumatology (TOTBID)

Executive Board of Turkish Association of Orthopaedics and Traumatology

Önder Kılıçoğlu (President)
Hasan Bombacı (Former President)
Yusuf Öztürkmen
Merter Yalçınkaya
Gökhan Kaynak
Serkan Aykut
Ali Erşen
Ali Öner
Engin Eceviz

Adnan Kara

Executive Committee of the Turkish Society of Orthopaedics and Traumatology

Cem Nuri Aktekin (President)
Halit Pınar (Former President)
Ahmet Murat Bülbül
Ali Öçgüder
Ahmet Özgür Yıldırım
Kerem Başarır
Kubilay Beng
Mehmet Demirhan
Serkan İltar
Halil Yalçın Yüksel

Owner on behalf of the Turkish Association of Orthopaedics and Traumatology: Önder Kılıçoğlu
• Publication Type: Bimonthly periodical • Publication date: March 2, 2022 •

Published by the Turkish Association of Orthopaedics and Traumatology







Haluk Berk

Dokuz Eylül University, School of Medicine, İzmir Turkey editor@aott.org.tr

Former Editor-in-Chief

Önder Kılıçoğlu

İstanbul University, İstanbul School of Medicine, İstanbul, Turkey kilicoglu@aott.org.tr

Technical Editors

Emre Acar

Dokuz Eylül University, School of Medicine, İzmir, Turkey

Onur Başçı

Dokuz Eylül University, School of Medicine, İzmir, Turkey

Mehmet Demirel

Yüksekova State Hospital, Hakkari, Turkey

Murat Korkmaz

Koç University Hospital, İstanbul, Turkey

Emre Anıl Özbek

Ankara University, School of Medicine, Ankara Turkey

Associate Editor and Social Media Editor

İlker Eren

Koç University, School of Medicine, İstanbul, Turkey

Associate Editors

Kaya Akan

Okan University, School of Medicine, İstanbul, Turkey

Turgut Akgül

İstanbul University, İstanbul School of Medicine, İstanbul, Turkey

Umut Akgün

Acıbadem Mehmet Ali Aydınlar University, School of Medicine, İstanbul, Turkey Ata Can Atalar

Acıbadem Mehmet Ali Aydınlar University, School of Medicine, İstanbul, Turkey

Umur Aydoğan

Penn State Hershey Medical Center, Pennsylvania, USA

İbrahim Azboy

İstanbul Medipol University, Istanbul, Turkey

Burak Beksaç

İstanbul, Turkey

Jason Cheung

Queen Mary Hospital, The University of Hong Kong, Hong Kong

Derya Çelik

İstanbul University-Cerrahpaşa, Faculty of Health Sciences, İstanbul, Turkey

Mehmet Ali Deveci

Koç University, School of Medicine, İstanbul, Turkev

Bülent Erdemli

Ankara University, School of Medicine, Ankara, Turkey

Emel Gönen

Koç University, School of Medicine, İstanbul, Turkey

Gazi Huri

Hacettepe University, School of Medicine, Ankara, Turkey

Pembe Keskinoğlu

Dokuz Eylül University, School of Medicine, İzmir, Turkey

Hakan Kınık

Ankara University, School of Medicine, Ankara, Turkey

Esat Kıter

Odak Hospital, Denizli, Turkey

Chiu Chee Kidd

Department of Orthopaedic Surgery, Faculty of Medicine, University of Malaya, Kuala Lumpur, W.Persekutuan Kuala Lumpur, Malaysia Salih Marangoz

Acıbadem Mehmet Ali Aydınlar University, School of Medicine, İstanbul, Turkey

Bjarne Møller-Madsen

Aarhus University Hospital, Aarhus, Denmark

Haluk Özcanlı

Akdeniz University, School of Medicine, Antalya, Turkey

Gökhan Polat

İstanbul University, School School of Medicine, İstanbul, Turkey

Dündar Sabah

Ege University, School of Medicine, İzmir, Turkey

Aksel Seyahi

Koç University, School of Medicine, İstanbul, Turkey

Alpaslan Şenköylü

Gazi University, School of Medicine, Ankara, Turkey

Ali Turgut

İzmir Tepecik Training and Research Hospital, İzmir, Turkey

Merter Yalçınkaya

Bahçeşehir University, Medical Park Göztepe Hospital, İstanbul, Turkey

International Scientific Review Consultants

Enrique Gomez-Barrena

Department of Orthopedics and Traumatology, Hospital Universitario La Paz, Universidad Autómoma de Madrid, Madrid, Spain

Gregory J. Della Roca

University of Missouri, Orthopaedics, Columbia, Missouri



The Official Journal of the Turkish Association of Orthopaedics and Traumatology (TOTDER) and the Turkish Society of Orthopaedics and Traumatology (TOTBID)



Founder İbrahim KARA

General Manager Ali ŞAHİN

Publishing Director İrem SOYSAL

Editor Gizem KAYAN TEKAÜT

Publication Coordinators
Arzu ARI
Deniz KAYA
Bahar ALBAYRAK
Gamze BİLGEN
Irmak BERBEROĞLU
Alara ERGİN
Ebru BOZ

Web Coordinator Sinem Fehime KOZ

Finance Coordinator
Elif YILDIZ CELİK

Contact Address:
Büyükdere Cad. 105/9 34394
Mecidiyeköy, Şişli, İstanbul, Turkey
Phone: +90 212 217 17 00
Fax: +90 212 217 22 92
E-mail: info@avesyayincilik.com



AIMS AND SCOPE

Acta Orthopaedica et Traumatologica Turcica (AOTT) is an international, scientific, open access periodical published in accordance with independent, unbiased, and double-blinded peer-review principles. The journal is the official publication of the Turkish Association of Orthopaedics and Traumatology, and Turkish Society of Orthopaedics and Traumatology. It is published bimonthly in January, March, May, July, September, and November. The publication language of the journal is English.

The aim of the journal is to publish original studies of the highest scientific and clinical value in orthopedics, traumatology, and related disciplines. The scope of the journal includes but not limited to diagnostic, treatment, and prevention methods related to orthopedics and traumatology. Acta Orthopaedica et Traumatologica Turcica publishes clinical and basic research articles, case reports, personal clinical and technical notes, systematic reviews and meta-analyses and letters to the Editor. Proceedings of scientific meetings are also considered for publication.

The target audience of the journal includes healthcare professionals, physicians, and researchers who are interested or working in orthopedics and traumatology field, and related disciplines.

Acta Orthopaedica et Traumatologica Turcica is currently indexed in Web of Science-Science Citation Index Expanded, PubMed/Medline, PubMed Central, Scopus, DOAJ, TUBITAK ULAKBIM TR Index.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

All manuscripts must be submitted via the online submission system, which is available at www.aott.org. tr. The journal guidelines, technical information, and the required forms are available on the journal's web page.

Expenses of the journal are covered by the article processing charges and the financial support received from the Turkish Association of Orthopaedics and Traumatology and the Turkish Society of Orthopaedics and Traumatology. Potential advertisers should contact the Editorial Office. Advertisement images are published only upon the Editor-in-Chief's approval.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the Turkish Association of Orthopaedics and Traumatology, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

All published content is available online, free of charge at www.aott.org.tr.

Turkish Association of Orthopaedics and Traumatology holds the international copyright of all the content published in the journal. The journal's content is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (CC BY-NC-ND 4.0).

Editor-in-Chief: Prof. Dr. Haluk Berk

Address: TOTDER Genel Merkezi, Şehremini, Koyuncu Sk. No: 4/5, 34104 Fatih, İstanbul, Turkey

Phone: +90 212 530 15 08 **Fax:** +90 212 530 15 21 **E-mail:** editor@aott.org.tr

Publisher: AVES

Address: Büyükdere Cad., 105/9 34394 Mecidiyeköy, Şişli, İstanbul, Turkey

Phone: +90 212 217 17 00 **Fax:** +90 212 217 22 92 **E-mail:** info@avesyayincilik.com

Web page: www.avesyayincilik.com



Research Articles

- 76 Comparison of 25-OH vitamin D levels between children with upper and those with lower extremity fractures: A prospective case-control study Tuğrul Ergün, Murat Cansever
- 81 Estimating the optimal entry point of the antegrade femoral nailing: Previous and novel morphometric measurements Burcu Erçakmak Güneş, Hasan Barış İlgaz, Nazan Çiledağ, Hakan Özsoy, Mutlu Hayran, Deniz Demiryürek
- 88 Readability and quality levels of websites that contain written information about anterior cruciate ligament injury: A survey of Turkish websites Abdullah Alper Şahin, Mehmet Boz, Tolga Keçeci, Ahmet Ünal, Alper Çıraklı
- 94 The mid-term clinical outcomes of total knee arthroplasty in the management of end-stage hemophilic arthropathy Muhammet Kalkışım, Ahmet Emin Okutan, Ünal Saraç, Servet Kerimoğlu
- 100 Efficacy and safety of intravenous combined with topical administration of tranexamic acid in reducing blood loss in opening wedge high tibial osteotomy procedure: A retrospective case-control study Wei Luo, Xin Fu, Jing-min Huang, Jiang Wu, Xin-long Ma
- 105 Clinical results of free vascularized fibula graft in the management of precollapse osteonecrosis of the femoral head: A retrospective clinical study Kahraman Öztürk, Mehmet Baydar, Yakup Alpay, Avse Sencan, Osman Orman, Serkan Aykut
- 111 Serial magnetic resonance imaging evaluation of the early reaction of all-suture anchors in arthroscopic rotator cuff repair Erica Kholinne, Junkyung Hwang, Jae-Man Kwak, Yucheng Sun, Kyoung-Hwan Koh, In-Ho Jeon
- 116 The effect of sagittal orientation of the acromion relative to the scapular spine on the location of rotator cuff tears Güray Altun, İsmail Türkmen, Deniz Kara, Haluk Çelik, Safiye Sanem Dereli Bulut, Kerem Bilsel
- 120 Clinical and radiological outcomes of Salter versus Pemberton osteotomies in the management of developmental dysplasia of the hip: A retrospective comparative study Akif Mirioğlu, Ömer Sunkar Biçer, Mustafa Tekin, Mehmet Ali Deveci, Cenk Özkan, Melih Bağir
- 125 Endoscopic versus open in situ decompression for the management of cubital tunnel syndrome Tahir Öztürk, Eyüp Çagatay Zengin, Ufuk Şener, Muhittin Şener
- 131 The effect of disruption of the repaired nuchal ligament on clinical outcomes after posterior cervical spine surgery: A retrospective comparative study Taku Fujita, Kazunari Takeuchi, Toru Yokoyama, Kanichiro Wada, Gentaro Kumagai, Yasuyuki Ishibashi
- 138 Patient-specific three-dimensional printing spine model for surgical planning in AO spine type-C fracture posterior long-segment fixation Anıl Murat Öztürk, Onur Süer, Figen Govsa, Mehmet Asım Özer, Ömer Akcalı





Case Reports

147 An unconventional presentation of Hip Joint Trevor disease with the involvement of the whole capital femoral epiphysis: A case report and literature review

Anil KC, Wang Tian Tian, Liao Shi Jie, Ding Xiao Fei

152 Two-year follow-up after operative treatment of an osseous Bankart lesion with a flap-detached cartilage lesion of the glenoid: A case report Masayoshi Saito, Atsushi Tasaki, Taiki Nozaki, Tomoyuki Mochizuki

Letter to the Editor

157 Comment on "The Split Transfer of Tibialis Anterior Tendon to Peroneus Tertius Tendon for Equinovarus Foot in Children with Cerebral Palsy" Hüseyin Sina Coşkun, İsmail Büyükceran, Yılmaz Tomak