



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 (TOTBİD)**

**Executive Board of Turkish Association of
Orthopaedics and Traumatology**

Önder Kılıçođlu (*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**

Halit Pınar (*President*)
İrfan Öztürk (*Former President*)
Cem Nuri Aktekin
Ahmet Murat Bülbül
Önder Ersan
İrfan Esenkaya
Volkan Öztuna
Kahraman Öztürk
Aykın Şimşek
Ahmet Özgür Yıldırım

**Owner on behalf of the Turkish Association of Orthopaedics and Traumatology:
Önder Kılıçođlu • Publication Type: Bimonthly periodical • Publication date: July 2, 2021 •
Published by the Turkish Association of Orthopaedics and Traumatology**





AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

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



Publisher
İbrahim KARA

Publication Director
Ali ŞAHİN

Editorial Development
Gizem KAYAN TEKAÜT

Deputy Publication Director
Gökhan ÇİMEN

Publication Coordinators
İrem SOYSAL
Arzu YILDIRIM
Deniz KAYA
Bahar ALBAYRAK
Gamze BİLGİN
İrmak BERBEROĞLU
Ebru BOZ

Finance and Administration
Zeynep YAKIŞIRER ÜREN

Project Coordinators
Sinem Fehime KOZ
Doğan ORUÇ
Emre KARA

Graphics Department
Ünal ÖZER
Deniz Elif DURAN

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

Editor-in-Chief

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
kilocglu@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, İstanbul, 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, Turkey

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 Keskinoglu
Dokuz Eylül University, School of Medicine, İzmir, Turkey

Hakan Kınık
Ankara University, School of Medicine, Ankara, Turkey

Esat Kiter
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 Yalçinkaya
Bahçeşehir University, School of Medicine, İstanbul, Turkey

International Scientific Review Consultants

Enrique Gomez-Barrena
Department of Orthopedics and Traumatology, Hospital Universitario La Paz, Universidad Autónoma de Madrid, Madrid, Spain

Gregory J. Della Roca
University of Missouri, Orthopaedics, Columbia, Missouri



AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

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 editorial 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



AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

CONTENTS

From the Editor

Research Articles

- 285** Is it advantageous to use the intraoperative compression option of proximal femoral nail antirotation in the treatment of osteoporotic intertrochanteric fractures? A retrospective comparative study
Hong Man Cho, Ji Yeon Park, Ki Hyun Kwon, Young Lee
- 293** Comparison of systemic inflammatory responses of proximal femoral nail versus dynamic hip screw after treatment of patients with pertrochanteric fractures: A Prospective comparative study
Kushtrim Grezda, Mislav Jelic, Armond Daci, Cen Bytyqi, Qerim Kida
- 299** A new modification of the Trapdoor Procedure without surgical hip dislocation in the management of patients with osteonecrosis of the femoral head: A retrospective case series
Budak Akman, Melih Güven, Barış Kadioğlu, Namık Kemal Özkan, Ömer Yonga, Burak Özturan
- 306** The effect of a preoperative physical therapy education program on short-term outcomes of patients undergoing elective total hip arthroplasty: A controlled prospective clinical trial
Marina Pinskiy, Omri Lubovsky, Leonid Kalichman
- 311** Results of the Novation Crowncup™ porous-coated uncemented acetabular component in total hip arthroplasty: a 10-year clinical and radiological assessment
Daniel Godoy-Monzon, Agustin Garcia-Mansilla, Alberto Cid Casteulani, Santiago Svarzchtein
- 316** Effect of adding dexmedetomidine to intra-articular levobupivacaine on postoperative pain following arthroscopic meniscus surgery: A prospective, double-blind, randomized, placebo- controlled, clinical trial
Onur Avcı, İclal Özdemir Kol, Oğuz Gündoğdu, Zekeriya Öztumur, İdris Erşan
- 321** Ultrasonographic measurement of the dimensions of proximal and distal patellar fragments after Niebauer-King Procedure for the management of congenital dislocation of the knee
Ömer Sunkar Biçer, Mustafa Tekin, Ömer Faruk Eren, Akif Mirioğlu, Mehmet Ali Deveci, Süreyya Soyupak
- 327** Is denervation surgery possible in the treatment of hallux rigidus? An anatomic study of cadaveric specimens
Bilgehan Çatal, Mert Keskinbora, Elif Nedret Keskinöz, Gamze Tümentemur, İbrahim Azboy, Bahtiyar Demiralp
- 332** Long-term clinical outcomes of innervated digital artery perforator flap in the treatment of fingertip injuries
Ali Cavit, Osman Civan, Haluk Özcanlı



AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

- 338 Relationship between incidence of postoperative radial nerve palsy and surgical experience in the treatment of humeral shaft fractures through a posterior triceps splitting approach: A retrospective study**

Woo-Yong Lee, Hyun-Dae Shin, Kyung-Cheon Kim, Soo-Min Cha, Yoo-Sun Jeon

- 344 Five-year mortality rate for patients with diabetic hand gangrene who undergo upper extremity amputation**

Shin Woo Choi, Young Ho Shin, Jae Kwang Kim

- 349 Effect of Different Forearm Positions on fragment rotation in extra-articular distal radius fractures: A cadaveric study**

Maximilian Lenz, Maik Neumann, Christian K. Spies, Gregor Stein, Peer Eysel, Jens Dargel, Johannes Oppermann

Technical Note

- 355 Sliding rotational osteotomy for cases of dorsally angulated distal Radius malunion: A technical note**

Zaid Al-Ani, Khalid Sharif, Amitabh J Dwyer

Case Report

- 362 How to extract a broken cephalomedullary nail safely? A case presentation and review of the literature**

Adel Ebrahimipour, Farsad Biglari, Mehrdad Sadighi, Rodrigo Pesántez

Letters to the Editor

- 367 Comment on "Spinopelvic alignment does not change after bilateral total hip arthroplasty in patients with bilateral Crowe type-IV developmental dysplasia of the hip" by Can et al.**

Alpaslan Öztürk, Nazan Çevik, Yavuz Akalın

- 370 The second victim in orthopedics and traumatology**

Anna Carreras-Castañer, Carles Martin-Fumadó, César Vargas-Blasco, Josep Arimany-Manso



AOTT

ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA

FROM THE EDITOR

Dear AOTT readers,

COP26 climate conference will be held in Glasgow in November 2021 and has been described as “the critical moment for the world to come together to avoid global temperatures rising 1.5C above pre-industrial levels with catastrophic effects on health”.

The European Association of Science Editors (EASE) has send out invitation to scientific journal editors to join the initiative led by *UK Health Alliance on Climate Change*.¹

The aim of this call is to gather as many as journal editors together to publish the same editorial at the same time. Leading 18 journals are from every continent and several disciplines that include BMJ, The Lancet, PLOS Medicine, Dutch Journal of Medicine, Chinese Science Bulletin, Danish Medical Journal and others.

Orthopedics and Traumatology might seem to be “out of scope” in environmental issues yet, in my humble view, as healthcare providers and scholarly active individuals we are already deeply involved.

Coming back to orthopedics and traumatology, I am sure you will enjoy reading the articles we have selected for you in this issue of AOTT.

Best regards,

Haluk Berk M.D.
Editor-in-Chief
Acta Orthopaedica et Traumatologica Turcica

Reference

1. Available from: <http://www.ukhealthalliance.org>