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
Hasan Bombaci (President)
Mehmet Demirhan (Former President)
Serkan Aykut
Halil İbrahim Balçi
Ali Erșen
Erden Ertüürer
Gökhan Kaynak
Cemal Kural
Yusuf Öztürkmên
Merter Yalçınkaya

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 Eşenkaya
Volkan Özçuna
Kahraman Öztürk
Aykın Şimşek
Ahmet Özgür Yıldırım

Owner on behalf of the Turkish Association of Orthopaedics and Traumatology: Hasan Bombaci
Publication Type: Bimonthly periodical • Publication date: November 1, 2020 •
Published by the Turkish Association of Orthopaedics and Traumatology
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, Index Copernicus, and 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: Önder Kılıçoğlu
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
CONTENTS

Research Articles

567 Mid-term results of open debridement and reattachment surgery for insertional Achilles tendinopathy: A retrospective clinical study
Necip Selçuk Yontar, Lercan Aslan, Ata Can, Tahir Öğüt

572 The effect of intravenous tranexamic acid on visual clarity during arthroscopic rotator cuff repair: A randomized, double-blinded, placebo-controlled pilot study
Mehmet Ersin, Mehmet Demirel, Mehmet İlke Büget, İpek Saadet Edipoğlu, Ata Can Atalar, Ali Erşen

577 Clinical outcomes of salvage revision surgery following finger replantation with vascular insufficiency: A retrospective study
Özgün Barış Güntürk, Murat Kayalar, Ulaş Bali, Kemal Özaksar, Tulgar Toros, Yusuf Gürbüz

583 Spinopelvic alignment does not change after bilateral total hip arthroplasty in patients with bilateral Crowe type-IV developmental dysplasia of the hip
Ata Can, Fahri Erdoğan, Necip Selçuk Yontar, Ayşe Övil Erdoğan, Mehmet Nuri Erdem, İker Abdullah Sarıkaya

587 Can sterility of stripped iodophor-impregnated plastic adhesive drape be maintained at the time of incision closure in total hip arthroplasty?
Hisahiro Tonotsuka, Hajime Sugiyama, Daisuke Tanaka, Tatsuto Ito, Ayano Amagami, Keigo Yonemoto, Ryuichi Sato, Mitsuru Saito, Keishi Marumo

591 Comparison of low level laser therapy and extracorporeal shock wave in treatment of chronic lateral epicondylitis
Türkan Turgay, Pınar Günel Karadeniz, Gökhan Bülent Sever

596 A new classification for spinal epidural hematoma following microendoscopic decompressive laminotomy: A prospective clinical and magnetic resonance imaging study of 245 patients
Abdullah Merter, Motohide Shibayama

604 Hand disorders demographics in rural areas: A 15-year analysis of demographic characteristics overtime in a stable population
Angelo V. Vasiliadis, Georgios Charitoudis, Dimitrios Giotis, Nikolaos K. Paschos, Michael-Alexander Malakhias, Georgios Drosos

609 A retrospective analysis of risk factors for clavicle fractures in newborns with shoulder dystocia and brachial plexus injury: A single-center experience
Ali Erkan Yenigül, Nefise Nazlı Yenigül, Emre Başer, Runa Özelçi

614 Trephine biopsy versus conventional open surgical technique for bone graft harvesting from the olecranon: A retrospective comparison of perioperative outcomes
İsmail Bülent Özdöl, Berkan Mersa, Seyyid Şerif Ünsal, Tuğrul Yıldırım, Fatih Kabakçı
618 Flexible intramedullary nailing for radial neck fractures in children
Zenon Pogorelić, André Capitain, Miro Jukić, Vanja Žufić, Dubravko Furlan

623 Surgical treatment of posterior cruciate ligament tibial avulsion fractures using a locking compression hook plate: A case series
Wei Deng, Yaxing Li, Shizhou Wu, Xi Liu, Fuguo Huang, Hui Zhang

627 Short-term outcomes of percutaneous pedicle screw fixation combined with vertebroplasty: A minimally invasive treatment for Kümmell’s disease with intravertebral instability
Chao Lou, Weiyang Yu, Zhenzhong Chen, Jiawei Guo, Feijun Liu, Dengwei He

634 Effects of morphological changes in the patellar tendon on the development of anterior knee pain after intramedullary nailing for tibial shaft fractures: A retrospective comparative study
Erman Ceyhan, Fatih Inci, İbrahim Alper Yavuz, Utku Gürhan, Ahmet Özgür Yildirim, Özdamar Fuad Öken

Systematic Review

639 Intramedullary versus extramedullary fixation in the treatment of subtrochanteric femur fractures: A comprehensive systematic review and meta-analysis
Jie Wang, Haomin Li, Haobo Jia, Xinlong Ma

Case Reports

647 Histological demonstration of the gas precursor in a symptomatic L5-S1 disc herniation containing gas: A case report
Keichiro Okuyama, Tadato Kido, Naohisa Miyakoshi, Yoichi Shimada

651 Pectoralis major tendon transfer for subscapularis deficiency following multiple failed instability surgeries: A case report
Nuri Aydu, Mehmed Nuri Tütüncü, Merve Sekizkardes
FROM THE EDITOR

Dear AOTT Readers,

2020 is finally drawing to an end. We had started off a new year with high hopes when the pandemic hit, confining everyone to their homes, separating loved ones and upended the way the lived in. It is foreseeable that the nightmare is almost over; however, the fear of not going back to normal and the pain from all our losses will live with us for a long time. Interestingly, the pandemic did not unanimously create negative effects. Peer-reviewed journal publication was one area that actually took advantage of the effects of the pandemic. It happened to be leap year for AOTT.

2020 started with a new publisher in hopes to reach our goals. We included young and involved assistant editors on board. Within a short period of time we were in quarantine and that, was exactly when we finally reached one final goal we had long strived for: We succeeded in shortening our first response time from 90-100 days down to 42 days. This was implemented by the fast tracking of our publisher, enthusiasm and dedication of our assistant editors and of course, by the fast response rates of our reviewers. I definitely hope that the downward slant continues to take effect with the same efficiency.

Another important subject we were faced with at the beginning of 2020, was about the “article processing fees”. We were sceptic about the reaction we could receive from authors following that inadequate declaration by the Inter-University Council concerning the effect of “paid publications” on eligibility criteria for tenure track positions. It was enlightening to realize that our fee did not affect the number of articles we received, clearly demonstrating that both our authors and readership did not have any reservations about the status of our journal AOTT.

In this last issue of 2020, as an ongoing tradition, we will present you a list of our reviewers of the year 2020, divided by the number of articles they have reviewed. On behalf of our authors, readers and, the Editorial Board, I would like to thank all our esteemed reviewers, especially those who honored all our review requests.

I am concluding this editorial with a heavy heart for I will not be indicating to “see you in the next issue”. This issue is finalizing my watch as the editor of AOTT. Prof. Haluk Berk will be greeting you in the next issue, the first one in 2021, as the new editor-in-chief and I shall ask his permission to say farewell following his editorial.

Respectfully,

Prof. Dr. Önder KILIÇOĞLU
AOTT Editor-in-Chief
### LIST OF REVIEWERS IN THE YEAR 2020

**20 or more reviews**

- Çalışkan, Emrah
- Çağlar, Ömür
- Çetin, Engin
- Çetinkaya, Mehmet
- Çiçek, Esra
- Çobanoğlu, Mutlu
- Çopuroğlu, Cem
- Çağlar, Emre
- Demirel, Mehmet
- Demirkan, Fahir
- Demirkiran, Nihat Demirhan
- Dikmen, Göksel
- Enercan, Meric
- Eralp, Levent
- Erdil, Mehmet
- Eren, İlker
- Ergün, Selim
- Erol, Bülent
- Erşen, Ali
- Ertem, Kadir
- Filibeli, Mert
- Gorbis, Nickolas
- Gökoğlu, Alper
- Kaçmaz, Ismail Eralp
- Kalenderer, Önder
- Karaca, Mustafa Onur
- Karapinar, Levent
- Kati, Yusuf Alper
- Kavak, Mustafa
- Kaynak, Gökhan
- Kocaçoğlu, Hakan
- Lahoti, Om
- Leblebicioğlu, Gürsel
- Ömeroğlu, Hakan
- Özdemir, Güzel Ali
- Özer, Mustafa
- Özkcan, Korhan
- Özkhan, Mustafa
- Öztürk, Recep
- Pehlivanoğlu, Tuna
- Reisoğlu, Ali
- Salduz, Ahmet
- Sarıyalmaç, Kerim
- Savran, Ahmet
- Say, Ferhat
- Sofuolu, Ömer
- Şahin, Mehmet Şikrü
- Şahin, Namik
- Şen, Cengiz
- Şirin, Evrim
- Tahta, Mesut
- Tetik, Cihanır
- Topkar, Mert Osman
- Tsagkozis, Panagiotis
- Tuncer, Kutsi
- Türkmen, İsmail
- Yıldırım, Ahmet
- Yıldız, Fatih
- Yılmaz, Çağlar
- Yüçeturk, Aydın

**10 - 19 reviews**

- Aydın, Bahattin
- Bağır, Melih
- Cansabuncu, Gökhan
- Cavıt, Ali
- Civan, Osman
- Doğlar, Bülent
- Karabörklü Argut, Sezen
- Misar, Abdulkadir
- Okay, Erhan
- Özbeck, Emre Anıl
- Yıldırım, Kerem

**6 - 9 reviews**

- Aslantürk, Okan
- Ayhan, Egemen
- Azboy, İbrahim
- Bayhan, İlhan
- Biçer, Vural
- Ceyhan, Erman
- Çiftdemir, Mert
- Ercan, Niyazi
- Genç, Erdi
- Güntürk, Özgün Barış
- Hancoğlu, Sertan
- Kılıç, Bekir Bayraktar
- Kızkurt, Taha
- Kumbasar, Barış
- Küçük, Levent
- Örksaar, Kemal
- Özdemir, Vahit Emre
- Sağlam, Yavuz
- Satışoğlu, İsmail Safa
- Süğün, Alp
- Toker, Serdar
- Üzel, Murat

**3 - 5 reviews**

- Akçalı, Ömer
- Akman, Budak
- Almendroğlu, Kadir Bahadır
- Arazi, Mehmet
- Arık, Murat
- Arslan, Lercan
- Ateş, Yalçın
- Başarır, Kerem
- Battal, Vahid Erdal
- Bauer, Henrik
- Bayraktar, Mehmet Kırcak
- Bayramoğlu, Meral
- Başsal, Özgür
- Bek, Doğan
- Beng, Kubilay
- Beyzaçoğlu, Tahsin
- Bhanot, Arun
- Bifano, Shawn
- Bilgen, Sinan
- Bilsel, Kerem
- Birinci, Tuncay
- Birişik, Evzi
- Bombaci, Hasan
- Bulut, Tuğrul
- Burton, Alex Thomas
- Cai, Siyi
- Cai, Jarrett D.
- Can, Ata
- Canbek, Umut
- Centel, Tuncay
- Chaunhary, Milind
- Chiou, Chee Kiad
- Clayton, Justin
- Coşkun, Tamer
- Coşkunfırat, Koray
- Çağlar, Cansu