

TMSJ

TURKISH MEDICAL STUDENT JOURNAL



Volume: 9 | Issue: 3 | October 2022



<https://turkmedstudj.com/>

 **gelenos**
yayinevi





TMSJ

TURKISH MEDICAL STUDENT JOURNAL

THE OFFICIAL JOURNAL OF
TRAKYA UNIVERSITY SCHOOL OF MEDICINE

Citation Abbreviation: Turk Med Stud J



VOLUME 9 - ISSUE 3 - OCTOBER 2022

Published three times a year

Free access to the journal's website: <https://turkmedstudj.com/>

Manuscript Submission: <https://tmsj.manuscriptmanager.net/>

Editorial Office
Address: Trakya Üniversitesi Tip Fakültesi
22030 Edirne, Türkiye
Phone: +90 (284) 235 76 53
E-mail: tmsj@trakya.edu.tr

Printing at: Trakya Üniversitesi Matbaası
Edirne Teknik Bilimler M.Y.O Sarayıçi Yerleşkesi,
22020 Yeni İmaret, Edirne, Türkiye
Phone: +90 (284) 224 02 83
Printing Date: October 2022
ISSN: 2148-4724 E-ISSN: 2548-0030



Editor-in-Chief

Beliz KOÇYİĞİT

Trakya University School of Medicine, Edirne, Türkiye
belizkocigit@gmail.com
<https://orcid.org/0000-0001-6056-0219>

Deputy Editors-in-Chief

Berfin TAN

Trakya University School of Medicine, Edirne, Türkiye
berfintan99@gmail.com
<https://orcid.org/0000-0002-9256-7631>

Berkin ERSOY

University of Hamburg School of Medicine, Hamburg, Germany
berkin.ersoy@stud.uke.uni-hamburg.de
<https://orcid.org/0000-0001-7111-648X>

Irmak İrem ÖZYİĞİT

Trakya University School of Medicine, Edirne, Türkiye
iiozyigit@gmail.com
<https://orcid.org/0000-0003-2443-0155>

Biostatistics Editor

Necdet SÜT, PhD

Department of Biostatistics and Informatics, Trakya University School of Medicine, Edirne, Türkiye
nsut@trakya.edu.tr
<https://orcid.org/0000-0001-6678-482X>

Medical Ethics Editor

Berna ARDA, MD, PhD

Department of History of Medicine and Medical Ethics, Ankara University School of Medicine, Ankara, Türkiye
arda@medicine.ankara.edu.tr
<https://orcid.org/0000-0003-2043-2444>

Language Editor

Defne ERÇELEN

University of New York, Grossman School of Medicine, New York, USA
defneercelen@gmail.com
<https://orcid.org/0000-0001-7480-9011>

Editorial Board

Alperen Taha CERTEL

Trakya University School of Medicine, Edirne, Türkiye
 alperencertel@gmail.com
<https://orcid.org/0000-0002-9816-9140>

Burak BARDAKÇI

Trakya University School of Medicine, Edirne, Türkiye
 burakbardakci99@gmail.com
<https://orcid.org/0000-0002-0541-6991>

Bengisu ÇIRAY

Trakya University School of Medicine, Edirne, Türkiye
 bengisuciray@hotmail.com
<https://orcid.org/0000-0001-6332-7543>

Bengisu GÜR

İstanbul University İstanbul School of Medicine, İstanbul, Türkiye
 bengisugur2@gmail.com
<https://orcid.org/0000-0002-4280-3317>

Ceren YÜKSEL

Trakya University School of Medicine, Edirne, Türkiye
 crnyuksel2@gmail.com
<https://orcid.org/0000-0003-2456-7282>

Dengiz Koray SAHİNTÜRK

Trakya University School of Medicine, Edirne, Türkiye
 sahinturkkoray01@gmail.com
<https://orcid.org/0000-0001-9865-0930>

Ege ESKİBOZKURT

Harvard Medical School, Boston, USA
 ege.eskibozkurt@gmail.com
<https://orcid.org/0000-0001-6869-9338>

Elif CENGİZ

Trakya University School of Medicine, Edirne, Türkiye
 elifcen@gmail.com
<https://orcid.org/0000-0002-5902-2904>

Elif ÇALIŞKAN

Trakya University School of Medicine, Edirne, Türkiye
 celif2001@hotmail.com
<https://orcid.org/0000-0003-4556-8698>

Eylül ŞENÖDEYİCİ

Trakya University School of Medicine, Edirne, Türkiye
 eylulsenodeyici@gmail.com
<https://orcid.org/0000-0002-4132-1594>

Fevzi Oktay ŞİŞMAN

Trakya University School of Medicine, Edirne, Türkiye
 oktaysisman1907@gmail.com
<https://orcid.org/0000-0002-9942-9418>

Gizem YILDIRIM

Başkent University School of Medicine, Ankara, Türkiye
 ygizem184@gmail.com
<https://orcid.org/0000-0001-5942-2169>

Göktuğ Mert ÇİFTÇİ

University Hospital Münster Department of Psychiatry, Münster, Germany
 ciftcig@uni-muenster.de
<https://orcid.org/0000-0003-2364-6317>

İlayda KARAKOÇ

Medipol University School of Medicine, İstanbul, Türkiye
 ilaydakrc@gmail.com
<https://orcid.org/0000-0002-1118-1260>

İsmail Yiğit NAÇAR

Trakya University School of Medicine, Edirne, Türkiye
 ygtncr05@icloud.com
<https://orcid.org/0000-0001-7668-8970>

İlgın KILIÇ

University of Liverpool School of Medicine, Liverpool, UK
 ilginkilic9@gmail.com
<https://orcid.org/0000-0001-7393-7839>

İşıl GÜL

İstanbul University School of Medicine, İstanbul, Türkiye
 isil.gul@outlook.com
<https://orcid.org/0000-0002-4687-6097>

Janset ÖZDEMİR

Trakya University School of Medicine, Edirne, Türkiye
 jansetozdemir2018@gmail.com
<https://orcid.org/0000-0001-7774-5068>

Mert YÜCEL

Trakya University School of Medicine, Edirne, Türkiye
 drmertyucel@gmail.com
<https://orcid.org/0000-0002-4853-1607>

Mustafa Alperen KOŞUCU

Trakya University School of Medicine, Edirne, Türkiye
 alperen.kosucu@gmail.com
<https://orcid.org/0000-0002-2381-5099>

Sarper KIZILKAYA

Trakya University School of Medicine, Edirne, Türkiye
 sarperkizilkaya@gmail.com
<https://orcid.org/0000-0002-7868-1585>

Sebahat ULUSAN

Süleyman Demirel University School of Medicine, Isparta, Türkiye
 sebahatulusan@hotmail.com
<https://orcid.org/0000-0002-4964-6246>

Sezin SAYIN

Trakya University School of Medicine, Edirne, Türkiye
 seziniyas@gmail.com
<https://orcid.org/0000-0001-7892-5992>

Sıla Ece TİRYAKİ

Trakya University School of Medicine, Edirne, Türkiye
 setiryaki11@gmail.com
<https://orcid.org/0000-0002-2318-3140>

Zeynep Nihal ER

Trakya University School of Medicine, Edirne, Türkiye
 zeynepnihaler@gmail.com
<https://orcid.org/0000-0001-6890-6229>



Editorial Advisory Board

Abdulkadir TURGUT, MD

Department of Obstetrics and Gynecology, Medeniyet University School of Medicine, İstanbul, Türkiye

Abdulsamad ARYAN, MD

Department of Emergency Medicine, Trakya University, Edirne, Türkiye

Ahmet Muzaffer DEMİR, MD

Department of Hematology, Trakya University School of Medicine, Edirne, Türkiye

Ahmet Tolgay AKINCI, MD

Department of Neurosurgery, Trakya University School of Medicine, Edirne, Türkiye

Ahmet ULUGÖL, MD

Department of Pharmacology, Trakya University School of Medicine, Edirne, Türkiye

Ahmet YILMAZ, MD

Department of Forensic Medicine, Trakya University School of Medicine, Edirne, Türkiye

Akif Hakan KURT, MD

Department of Medical Pharmacology, Bolu Abant İzzet Baysal University School of Medicine, Bolu, Türkiye

Ali AYDINLAR, MD

Department of Cardiology, Bursa Acıbadem Hospital, Bursa, Türkiye

Ali İlker FİLİZ, MD

Department of General Surgery, İstanbul Başkent University Health Practice and Research Center, İstanbul, Türkiye

Ali Rıza Cenk ÇELEBİ, MD

Department of Ophthalmology, Acıbadem University School of Medicine, İstanbul, Türkiye

Ali SARIKAYA, MD

Department of Nuclear Medicine, Trakya University School of Medicine, Edirne, Türkiye

Ali Serdar GÖZEN, MD

Department of Urology, SLK-Kliniken, University of Heidelberg, Heidelberg, Baden-Württemberg, Germany

Alparslan TURAN, MD

Department of Outcomes Research, Anesthesiology Institute, Cleveland Clinic, Cleveland, OH, USA

Andrea Mario Pompeo ROMANI, MD, PhD

Department of Physiology and Biophysics, Case Western Reserve University, Cleveland, OH, USA

Atakan SEZER, MD

Department of General Surgery, Trakya University School of Medicine, Edirne, Türkiye

Ayşe ÇAYLAN, MD

Department of Family Medicine, Trakya University School of Medicine, Edirne, Türkiye

Ayşe Gülsen CEYHUN, MD

Department of Family Medicine, Ankara University School of Medicine, Ankara, Türkiye

Babürhan GÜLDİKEN, MD

Department of Neurology, Private Practice, Edirne, Türkiye

Bahattin TANRIKULU, MD

Department of Neurosurgery, Acıbadem University School of Medicine, İstanbul, Türkiye

Beril GÜLER, MD

Department of Pathology, Bezmialem University School of Medicine, İstanbul, Türkiye

Berna ARDA, MD

Department of History of Medicine and Ethics, Ankara University School of Medicine, Ankara, Türkiye

Berrak ÇAĞLAYAN YEĞEN, MD

Department of Physiology, Marmara University School of Medicine, İstanbul, Türkiye

Birsen ELİBOL, MD

Department of Medical Biology, Bezmialem University School of Medicine, İstanbul, Türkiye

Cem UZUN, MD

Department of Otorhinolaryngology, Koç University School of Medicine, İstanbul, Türkiye

Cenk SAYIN, MD

Department of Obstetrics and Gynecology, Trakya University School of Medicine, Edirne, Türkiye

Cihan İŞLER, MD

Department of Neurosurgery, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Türkiye

Dağhan DAĞDELEN, MD

Department of Plastic, Reconstructive and Aesthetic Surgery, Trakya University School of Medicine, Edirne, Türkiye

Dan M. FLISS, MD, PhD

Department of Maxillofacial and Skullbase Surgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

Demircan ÖZBALCI, MD

Department of Hematology, Suleyman Demirel University School of Medicine, Isparta, Türkiye

Devrim GÜNER, MD

Department of Medical Pharmacology, TOBB University of Economics and Technology School of Medicine, Ankara, Türkiye

Doğan ALBAYRAK, MD

Department of General Surgery, Trakya University School of Medicine, Edirne, Türkiye

Ebru TAŞTEKİN, MD

Department of Pathology, Trakya University School of Medicine, Edirne, Türkiye

Eda ÖZTÜRKAN ÖZER, MD

Department of Medical Biochemistry, Başkent University School of Medicine, Ankara, Türkiye

Emine İkbal ATLI, MD

Department of Medical Genetics, Trakya University School of Medicine, Edirne, Türkiye

Emine KOÇ, MD

Department of Physiology, Near East University, Nicosia, Turkish Republic of Northern Cyprus

Emre DELEN, MD

Department of Neurosurgery, Trakya University School of Medicine, Edirne, Türkiye

Erbağ KESKİN, MD

Department of Pediatric Urology, İstanbul University, İstanbul School of Medicine, İstanbul, Türkiye

Erhan ERTEKİN, MD

Department of Psychiatry, İstanbul University, İstanbul School of Medicine, İstanbul, Türkiye

Erkan KOZANOĞLU, MD

Department of Physical Therapy and Rehabilitation, Çukurova University School of Medicine, Adana, Türkiye

Ersan TATLI, MD

Department of Cardiology, Sakarya University School of Medicine, Sakarya, Türkiye

Ertan ŞAHİN, MD

Department of Nuclear Medicine, Gaziantep University School of Medicine, Gaziantep, Türkiye

Esra SAATÇİ, MD

Department of Family Medicine, Çukurova University School of Medicine, Adana, Türkiye

**Eugene Nicholas MYERS, MD, FACS, FRCS Edin (Hon)**

Department of Otorhinolaryngology, Head-Neck Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

Fatma Gülsüm ÖNAL, MD

Department of History of Medicine and Ethics, Trakya University School of Medicine, Edirne, Türkiye

Faik Güntaç UZUNOĞLU, MD

Department of General, Visceral and Thoracic Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

Galip EKUKLU, MD

Department of Public Health, Trakya University School of Medicine, Edirne, Türkiye

Gamze ÖZÜRÜMEZ, MD

Department of Psychiatry, Başkent University School of Medicine, Ankara, Türkiye

Gamze Varol SARAÇOĞLU, MD

Department of Public Health, Namık Kemal University School of Medicine, Tekirdağ, Türkiye

Geysu KARLIKAYA, MD

Department of Neurology, Kadıköy Medicana Hospital, İstanbul, Türkiye

Gökay TAYLAN, MD

Department of Cardiology, Trakya University School of Medicine, Edirne, Türkiye

Gökhan ÇEVİK, MD

Department of Urology, Trakya University School of Medicine, Edirne, Türkiye

Gülay DURMUŞ ALTUN, MD, PhD

Department of Nuclear Medicine, Trakya University School of Medicine, Edirne, Türkiye

Güldal İnal GÜLTEKİN, MD

Department of Physiology, Okan University School of Medicine, İstanbul, Türkiye

Güldal SÜYEN, MD

Department of Physiology, Acıbadem University School of Medicine, İstanbul, Türkiye

Gülşah GÜMÜŞ, MD

Department of Ophthalmology, Dr. Ersin Arslan Training and Research Hospital, Gaziantep, Türkiye

Hakan AKDERE, MD

Department of Urology, Trakya University School of Medicine, Edirne, Türkiye

Hakan EMMUNGİL, MD

Department of Rheumatology, Trakya University School of Medicine, Edirne, Türkiye

Hakkı Mete ÇEK, MD

Department of Urology, Trakya University School of Medicine, Edirne, Türkiye

Hanefi Yekta GÜRLERTOP, MD

Department of Cardiology, Trakya University School of Medicine, Edirne, Türkiye

Hasan Celalettin ÜMİT, MD

Department of Gastroenterology, Trakya University School of Medicine, Edirne, Türkiye

Hilmi TOZKIR, MD

Department of Medical Genetics, Namık Kemal University School of Medicine, Tekirdağ, Türkiye

Hüseyin Ahmet TEZEL, MD

Department of Gastroenterology, Trakya University School of Medicine, Edirne, Türkiye

Hüseyin Avni SÖNMEZ, MD

Department of Medical Biochemistry, İstanbul University-Cerrahpaşa Cerrahpaşa School of Medicine, İstanbul, Türkiye

Hüsnüye Figen KULOĞLU, MD

Department of Infectious Diseases, Trakya University School of Medicine, Edirne, Türkiye

İlknur ERDEM, MD

Department of Infectious Diseases, Namık Kemal University School of Medicine, Tekirdağ, Türkiye

İsmet KIRPINAR, MD

Department of Psychiatry, Bezmiâlem University School of Medicine, İstanbul, Türkiye

Jülide Sedef GÖÇMEN, MD

Department of Medical Microbiology, TOBB University of Economics and Technology School of Medicine, Ankara, Türkiye

Kıymet TABAKÇIOĞLU, MD

Department of Medical Biology, Trakya University School of Medicine, Edirne, Türkiye

Levent ÖZTÜRK, MD

Department of Physiology, Trakya University School of Medicine, Edirne, Türkiye

Mehmet ARSLAN, MD

Department of Psychiatry, Kırklareli University School of Medicine, Kırklareli, Türkiye

Mehmet Erdal VARDAR, MD

Department of Psychiatry, Trakya University School of Medicine, Edirne, Türkiye

Mehmet ÜNAL, MD

Department of Ophthalmology, Ankara Dünya Göz Hospital, Ankara, Türkiye

Melih Hamdi ÜNAL, MD

Department of Ophthalmology, Private Practice, İstanbul, Türkiye

Mert ÖZCAN, MD

Department of Orthopedics, Trakya University School of Medicine, Edirne, Türkiye

Mesut AYER, MD

Department of Hematology, İstanbul Haseki Training and Research Hospital, İstanbul, Türkiye

Metin ÖZKAN, MD

Department of Pulmonology, Ankara Memorial Hospital, Ankara, Türkiye

Mevlüt Serdar KUYUMCU, MD

Department of Cardiology, Süleyman Demirel University School of Medicine, Isparta, Türkiye

Muhammed KESKİN, MD

Department of Cardiology, Bahçeşehir University School of Medicine, İstanbul, Türkiye

Muhammet Ali KAPLAN, MD

Department of Medical Oncology, Diyarbakır Memorial Hospital, Diyarbakır, Türkiye

Muhittin Emre ALTUNRENDE, MD

Department of Neurosurgery, Liv Hospital, İstanbul, Türkiye

Mustafa Çağrı SAVAŞ, MD

Department of Pediatric Surgery, Süleyman Demirel University School of Medicine, Isparta, Türkiye

Mustafa İNAN, MD

Department of Pediatric Surgery, Trakya University School of Medicine, Edirne, Türkiye

Mustafa Kemal EROL, MD

Department of Cardiology, Kolan Hospital, İstanbul, Türkiye

Mustafa SEVİM, MD

Department of Physiology, Marmara University School of Medicine, İstanbul, Türkiye

Nermin TUNÇBİLEK, MD

Department of Radiology, Trakya University School of Medicine, Edirne, Türkiye

Nihat ŞENGEZE, MD

Department of Neurology, Süleyman Demirel University School of Medicine, Isparta, Türkiye

Nurettin AYDOĞDU, PhD

Department of Physiology, İnönü University School of Medicine, Malatya, Türkiye

Nurija BILALOVIĆ, MD, PhD

Department of Pathology, University of Sarajevo, Sarajevo, Bosnia and Herzegovina

**Okan ÇALIYURT, MD**

Department of Psychiatry, Trakya University School of Medicine, Edirne, Türkiye

Okan ERDOĞAN, MD

Department of General Surgery, Akdeniz University School of Medicine, Antalya, Türkiye

Oktay KAYA, MD

Department of Physiology, Trakya University School of Medicine, Edirne, Türkiye

Özdal ERSOY, MD

Department of Gastroenterology, Acibadem International Hospital, İstanbul, Türkiye

Özgür KASAPÇOPUR, MD

Department of Pediatric Rheumatology, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Türkiye

Özlem BOYBEYİ, MD

Department of Pediatric Surgery, Hacettepe University School of Medicine, Ankara, Türkiye

Öznur BAYRAKTAR EKMEKÇİGİL, MD

Department of Medical Biology and Genetics, Okan University School of Medicine, İstanbul, Türkiye

Pınar YAMANTÜRK ÇELİK, MD

Department of Medical Pharmacology, İstanbul University, İstanbul School of Medicine, İstanbul, Türkiye

Ranko MLADINA, MD, PhD

Department of Rhinology, University of Zagreb, Zagreb, Croatia

Ruhan Deniz TOPUZ, MD

Department of Medical Pharmacology, Trakya University School of Medicine, Edirne, Türkiye

Selçuk TUNALI, MD

Department of Anatomy, TOBB University of Economics and Technology School of Medicine, Ankara, Türkiye

Selis Gülsen GÜVEN, MD

Department of Otorhinolaryngology, Trakya University School of Medicine, Edirne, Türkiye

Selma SÜER GÖKMEN, PhD

Department of Medical Biochemistry, Trakya University School of Medicine, Edirne, Türkiye

Semir VRANIĆ, MD, PhD

Department of Pathology, Qatar University School of Medicine, Doha, Qatar

Semra AYTÜRK, MD

Department of Endocrinology, Trakya University School of Medicine, Edirne, Türkiye

Serdar ÖZTORA, MD

Department of Family Medicine, Trakya University School of Medicine, Edirne, Türkiye

Serkan ATICI, MD

Department of Pediatrics, Okan University School of Medicine, İstanbul, Türkiye

Sernaz UZUNOĞLU, MD

Department of Medical Oncology, Trakya University School of Medicine, Edirne, Türkiye

Serpil EROL, MD

Department of Infectious Diseases and Clinical Microbiology, Haydarpasa Numune Hospital, İstanbul, Türkiye

Stanislav YANEV, MD, PhD

Department of Pharmacology, Bulgarian Academy of Sciences, Sofia, Bulgaria

Suat ERDOĞAN, MD

Department of Medical Biology, Trakya University School of Medicine, Edirne, Türkiye

Süleyman Ayhan ÇALIŞKAN, MD, PhD

Department of Medical Education, Ege University School of Medicine, İzmir, Türkiye

Şaban GÜRCAN, MD

Department of Infectious Diseases and Clinical Microbiology, Trakya University School of Medicine, Edirne, Türkiye

Şebnem BATUR, MD

Department of Pathology, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Türkiye

Serife BAYRAKTAR, MD

Department of Ophthalmology, İstanbul University, İstanbul School of Medicine, İstanbul, Türkiye

Tamman SİPAHİ, PhD

Department of Biophysics, Trakya University School of Medicine, Edirne, Türkiye

Tarkan YETİŞYİĞİT, MD

Department of Medical Oncology, Namık Kemal University School of Medicine, Tekirdağ, Türkiye

Tayfur TOPTAŞ, MD

Department of Hematology, Marmara University School of Medicine, İstanbul, Türkiye

Tolga Turan DÜNDAR, MD

Department of Neurosurgery, Bezmialem University School of Medicine, İstanbul, Türkiye

Ufuk USTA, MD

Department of Pathology, Trakya University School of Medicine, Edirne, Türkiye

Utku AYDIL, MD

Department of Otorhinolaryngology, Gazi University School of Medicine, Ankara, Türkiye

ÜlfİYE ÇELİKKALP, MD

Department of Public Health, Trakya University School of Medicine, Edirne, Türkiye

Ülkü KORKMAZ, MD

Department of Nuclear Medicine, Trakya University, Edirne, Türkiye

Veysel Atilla AYYILDIZ, MD

Department of Radiology, Süleyman Demirel University School of Medicine, Isparta, Türkiye

Volkan İNAL, MD

Department of Intensive Care, Trakya University School of Medicine, Edirne, Türkiye

Volkan YÜKSEL, MD

Department of Cardiovascular Surgery, Trakya University School of Medicine, Edirne, Türkiye

Vuslat GÜRLÜ, MD

Department of Ophthalmology, Trakya University School of Medicine, Edirne, Türkiye

Yasemin KÜÇÜKÇİLOĞLU, MD

Department of Radiology, Near East Hospital, Nicosia, Turkish Republic of Northern Cyprus

Yekta Altemur KARAMUSTAFAOĞLU, MD

Department of Thoracic Surgery, Trakya University School of Medicine, Edirne, Türkiye

Zafer KOÇAK, MD

Department of Radiation Oncology, Trakya University School of Medicine, Edirne, Türkiye

Zeynep Banu DOĞANLAR, PhD

Department of Medical Biology, Trakya University School of Medicine, Edirne, Türkiye

Zeynep Banu GÜNGÖR, PhD

Department of Medical Biochemistry, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Türkiye

Zoran GATALICA, MD

Anatomical Pathology, University of Oklahoma Health and Sciences Center, Oklahoma City, OK, USA

Aims and Scope

Turkish Medical Student Journal (TMSJ) is the first scientific journal in Turkey to be run by medical students and to publish works of medical students only. In that respect, TMSJ encourages and enables all students of medicine to conduct research and to publish their valuable research in all branches of medicine.

Turkish Medical Student Journal publishes researches, interesting case reports and reviews regarding all fields of medicine. The primary aim of the journal is to publish original articles with high scientific and ethical quality and serve as a good example of medical publications for those who plan to build a career in medicine. TMSJ believes that quality of publication will contribute to the progress of medical sciences as well as encourage medical students to think critically and share their hypotheses and research results internationally.

The journal is published every four months. The language of the publication is English.

The Editorial Board of TMSJ and the Publisher follows the principles of the International Council of Medical Journal Editors (ICMJE). Only unpublished papers that are not under review for publication elsewhere can be submitted. The authors are responsible for the scientific content of the material to be published. TMSJ reserves the right to request any research materials on which the paper is based.

Turkish Medical Student Journal does not charge any article submission, article-editorial processing, or publication charges such as page or color charges. TMSJ is a non-profit journal that does not accept any advertisements and financial support from any person or foundation. TMSJ is available as a hard copy. All articles can be downloaded in PDF format from our website, free of charge. There are also no publication fees. Readers are free to share, copy and redistribute the material in any medium or format with the extent of Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (CC BY-NC-ND 4.0).

Turkish Medical Student Journal is a non-profit journal which does not accept any advertisements and financial support from any person or foundation.

MISSION

Turkish Medical Student Journal is an independent, non-profit, peer-reviewed, international, open-access journal; which aims to publish articles of interest to physicians, scientists, and medical students. TMSJ is published three times a year, in February, June, and October by Trakya University. The language of publication is English. Correspondent authors of the articles should be a medical student.

Turkish Medical Student Journal publishes original researches, interesting case reports, and reviews regarding all fields of medicine. All of the published articles are open-access and reachable on our website. The primary aim of the journal is to publish original articles with high scientific and ethical quality and serve as a good example of medical publications for stimulating students, doctors, researchers. Our mission is to feature quality publications that will contribute to the progress of medical sciences as well as encourage medical students to think critically and share their hypotheses and research results internationally.

The Editorial Board and the Publisher adheres to the principles of ICMJE Committee on Publication Ethics (COPE).

Publisher

Galenos Publishing House

Address: Molla Gürani Mahallesi Kaçamak Sokak No: 21/1 34093 Fındıkzade - Fatih, İstanbul/Türkiye

Phone: + 90 (212) 621 99 25

Fax: + 90 (212) 621 99 27

E-mail: info@galenos.com.tr

Owner

Filiz AKATA, MD

Dean, Trakya University School of Medicine, Edirne, Türkiye

Scientific Advisor

Zafer KOÇAK, MD

Department of Radiation Oncology, Trakya University School of Medicine, Edirne, Türkiye

Responsible Manager

Beliz KOÇYİĞİT

Trakya University School of Medicine, Edirne, Türkiye

Indexed in

CABI:
CAB Abstracts and
Global Health

Türk Medline
Asos Indeks
Scilit
J-Gate

DRJI
GALE
WorldCat
Ebsco Host

Editorial Policy

OPEN ACCESS STATEMENT

Turkish Medical Student Journal is a fully open access journal that provides free and unrestricted online availability to its content immediately upon publication without delay. This means;

1. all content is freely and limitlessly available without charge to the user or her/his institution;
2. everyone has free and unlimited access to the full-text of all articles without subscription;
3. all articles are released immediately in open access format (no embargo period);
4. everyone is allowed to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself.

The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited. The copyright holder of a scholarly work grants usage rights to others using an open license. Turkish Medical Student Journal applies the Creative Commons Attribution (CC BY-NC-ND 4.0) license to its published articles. Authors that submit their papers for publication thereby agree to have the CC BY-NC-ND 4.0 license applied to their works.

The authors retain all patent, and other proprietary rights to the article, including copyright without any restrictions. In addition to non-exclusive rights the publisher has under the CC-BY-NC-ND license, copyright policy also authorizes the publisher to permit commercial use or derivation of the content as well as publication, republication in electronic and print format in the journal, and distribution of the content.

This is in accordance with the Budapest Open Access Initiative which can be assessed at the URL:

<http://www.budapestopenaccessinitiative.org/>.

PERMISSIONS

Under Open Access license, no special permission is required to copy, distribute or reuse all or part of article published by Turkish Medical Student Journal, including figures and tables, for non-commercial purposes for free as long as the author and original source are properly cited. Reuse of an article does not imply endorsement by the authors or Turkish Medical Student Journal.

EDITORIAL PROCESS

All manuscripts submitted for publication are reviewed for their originality, methodology, importance, quality, ethical nature, and suitability for the journal by the editorial board and briefly revised by the advisory board whose members are respected academicians in their fields. A well-constructed scheme is used for the evaluation process. All manuscripts are reviewed by two different members of the editorial board, followed by peer revision from at least two professors, belonging to different institutions, who are experts in their areas. The editors assist authors to improve the quality of their papers. The editor-in-chief has full authority over the editorial, scientific content, and the timing of publication.

ETHICS

Turkish Medical Student Journal depends on publication ethics to ensure all articles published in TMSJ are acceptable in terms of scientific ethical standards and do not include any kind of plagiarism. TMSJ expects authors and the editorial board to adhere the principles of the COPE. To reach the highest standards, TMSJ has an advisory board member who is a professional in ethics.

All original articles submitted to the TMSJ have to be approved by an ethical committee and include the name of the ethics committee(s) or institutional review board(s), the number/ID of the approval(s). Additionally, informed consent documents obtained from patients involving case reports are required for the submission.

All received manuscripts are screened by plagiarism software (iThenticate). Similarity percentages more than 19 (or more than 5 for one paper) and six consecutive words

cited from another published paper in the same order are the causes of immediate rejection.

MATERIAL DISCLAIMER

All opinions, reports, and results within the articles that are published in the TMSJ are the personal opinions of the authors. The Editorial Board, the editorial advisory board, the publisher and the owner of the TMSJ do not accept any responsibility for these articles.

CONFLICT OF INTEREST POLICY

The Turkish Medical Student Journal's editorial review process pursues the Good Editorial Practice set by international editorial organizations (ICMJE, EASE, WAME, COPE, CSE,...). According to the WAME; a conflict of interest arises when an author, peer-reviewer, or editor in the publication process has an incompatible interest that could unmeritedly influence his or her responsibilities (academic honesty, unbiased conduct, and reporting of research and transparency) in the publication process. If a conflict of interest related to family, personal, financial, political, or religious issues, as well as any competing interest outlined above at the WAME's definition, exists; TMSJ requires that the author should report the condition to the editorial board and declare at the ICMJE Conflict of Interest form, and specifically define it under a title at the end of the manuscript. The Editorial Board members of the Turkish Medical Student Journal may also submit their own manuscripts to the journal as all of them are active researchers. Nevertheless, they cannot take place at any stage on the editorial evaluation of their manuscripts in order to minimize any possible bias. These manuscripts will be treated like any other author's, final acceptance of such manuscripts can only be made by at least two positive recommendations of external peer-reviewers.

Turkish Medical Student Journal follows a double-blinded review principle. Authors cannot contact any of the peer-reviewers during the publication process and vice versa; since any of the peer-reviewers and author's information are obscured.

For the instructions and further information please visit:

<https://publicationethics.org/search/site/conflict>

<http://icmje.org>

<http://www.ease.org.uk/publications/science-editors-handbook>

<https://www.councilscienceeditors.org>

WITHDRAWAL POLICY

Turkish Medical Student Journal encourages authors to follow best practice in publication ethics. Therefore, the authors may withdraw their manuscripts in absolutely necessary conditions. If authors want to withdraw their manuscript, they need to submit the "Manuscript Withdrawal Form". Authors should state their reason of withdrawal and the form need to be signed by all authors, sent to tmsj@trakya.edu.tr.

Turkish Medical Student Journal Editorial Board evaluates the form and if the reason for withdrawal is found as reasonable, the authors will receive a confirmation e-mail. Before getting this confirmation e-mail, the authors should not consider their manuscripts as withdrawn.

COPYRIGHT POLICY AND RIGHTS OF AUTHORS

All articles that are accepted by the Turkish Medical Student Journal, will be licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (CC BY-NC-ND 4.0) which allows third parties to freely access, use, and share the material for only non-commercial purposes by giving the appropriate credit to the original work. This also allows others to freely access, copy, and use research provided. Adaptation and modification of the material is not permitted. For further details of the license CC BY-NC-ND 4.0, please visit <https://creativecommons.org/licenses/by-nc-nd/4.0/>

The authors retain all patent, and other proprietary rights to the article, including copyright without any restrictions. In addition to the non-exclusive rights the publisher has under the CC BY-NC-ND 4.0 license, the copyright policy also authorizes the publisher to permit the commercial use or derivation of the content as well as publication, republication in electronic and print format in the journal, and distribution of the content.

Instructions to Authors

CATEGORIES OF ARTICLES

The Journal publishes the following types of articles:

Original Research Articles: Original prospective or retrospective studies of basic or clinical investigations in areas relevant to medicine.

Content:

- Abstract (average 400 words; the structured abstract contain the following sections: aims, methods, results, conclusion)
- Introduction
- Material and Methods
- Results
- Discussion
- Conclusion
- References

Review and Mini Review Articles: The authors may be invited to write or may submit a review article. Reviews including the latest medical literature may be prepared on all medical topics.

Content:

- Abstract (average 400 words)
- Titles on related topics
- References

Case Reports: Brief descriptions of a previously undocumented disease process, a unique unreported manifestation or treatment of a known disease process, or unique unreported complications of treatment regimens. They should include an adequate number of photos and figures.

Content:

- Abstract (average 200 words)
- Introduction
- Case Report
- Discussion
- References

Letters to the Editor: These are the letters that include different views, experiments and questions of the readers about the manuscripts that were published in this journal in the recent year and should be no more than 500 words.

Content:

- There is no title and abstract.
- Submitted letters should include a note indicating the attribution to an article (with the number and date) and the name, affiliation and address of the author(s) at the end.
- The answer to the letter is given by the editor or the author(s) of the manuscript and is published in the journal.

MANUSCRIPT PREPARATION

Authors are encouraged to follow the following principles before submitting their material.

-The article should be written in IBM compatible computers with Microsoft Word.

ABBREVIATIONS

All abbreviations in the text must be defined the first time they are used, and the abbreviations should be displayed in parentheses after the definition. Authors should avoid abbreviations in the title, abstract and at the beginning of the first sentences of the paragraphs.

FIGURES AND TABLES

- All figures and tables should be cited at the end of the relevant sentence. Explanations must be placed at the bottom of figures, whereas at the top of tables.
- Figures and tables must be added to the e-mail as attachments in .jpg or .tiff formats.
- The name of the file should be named as: last name of the first author_Table/ Figure_No.TIFF/JPEG. For example: Sancar_Figure_1.JPG.
- All abbreviations used, must be listed in explanation which will be placed at the bottom of each figures and tables.
- For figures and tables to be reproduced relevant permissions need to be provided. This permission must be mentioned in the explanation.
- Pictures/photographs must be in color, clear and with appropriate contrast to separate details.

TITLE PAGE

A concise, informative title, should be provided. All authors should be listed with academic degrees, affiliations, addresses, office and mobile telephone and fax numbers, e-mail and postal addresses, ORCID. If the study was presented in a congress, the author(s) should identify the date/place of the congress of the study presented.

ABSTRACT

The abstracts should be prepared in accordance with the instructions in the "Categories of Articles" and placed in the article file.

KEYWORDS

- They should be minimally three.

- Keywords should be appropriate to "Medical Subject Headings (MESH)" (See: www.nlm.nih.gov/mesh/MBrowser.html).

Acknowledgments: Conflict of interest, financial support, grants, and all other editorial (statistical analysis, language editing) and/or technical assistance if present, must be presented at the end of the text.

REFERENCES

References should be numbered in the order they are cited. Only published data or manuscripts accepted for publication and recent data should be included. Inaccessible data sources and those not indexed in any database should be omitted. Titles of journals should be abbreviated in accordance with Index Medicus- NLM Style (Patrias K. Citing medicine: the NLM style guide for authors, editors, and publishers [Internet]. 2nd ed. Wendling DL, technical editor. Bethesda (MD): National Library of Medicine (US); 2007 - [updated 2011 Sep 15; cited Year Month Day] (<http://www.nlm.nih.gov/citingmedicine>). All authors should be listed if an article has three or less authors; first three authors are listed and the rest is represented by "et al.". Reference format and punctuation should be as in the following examples.

Journal: Muller C, Buttner HJ, Peterson J et al. A randomized comparison of clopidogrel and aspirin versus ticlopidine and aspirin after placement of coronary artery stents. *Circulation* 2000;101: 590-3.

Book Section: Sherry S. Detection of thrombi. In: Strauss HE, Pitt B, James AE, editors. *Cardiovascular Medicine*. St Louis: Mosby; 1974.p.273-85.

Books with Single Author: Cohn PF. *Silent myocardial ischemia and infarction*. 3rd ed. New York: Marcel Dekker; 1993.

Editor(s) as author: Norman IJ, Redfern SJ, editors. *Mental health care for elderly people*. New York: Churchill Livingstone; 1996.

Conference Proceedings: Bengtsson S, Sothelin BG. Enforcement of data protection, privacy and security in medical informatics. In: Lun KC, Degoulet P, Piemme TE, Rienhoff O, editors. MEDINFO 92. Proceedings of the 7th World Congress on Medical Informatics; 1992 Sept 6-10; Geneva, Switzerland. Amsterdam: North-Holland; 1992.p.1561-5.

Scientific or Technical Report: Smith P, Golladay K. Payment for durable medical equipment billed during skilled nursing facility stays. Final report. Dallas (TX) Dept. of Health and Human Services (US). Office of Evaluation and Inspections: 1994 Oct. Report No: HHSIGOE 169200860.



Thesis: Kaplan SI. Post-hospital home health care: the elderly access and utilization (dissertation). St. Louis (MO): Washington Univ. 1995.

Manuscripts accepted for publication, not published yet: Leshner AI. Molecular mechanisms of cocaine addiction. *N Engl J Med* In press 1997.

Epub ahead of print Articles: Aksu HU, Ertürk M, Gül M et al. Successful treatment of a patient with pulmonary embolism and biatrial thrombus. *Anadolu Kardiyol Derg* 2012 Dec 26. doi: 10.5152/akd.2013.062. [Epub ahead of print]

Manuscripts published in electronic format: Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis* (serial online) 1995 Jan-Mar (cited 1996 June 5): 1(1): (24 screens). Available from: URL:<http://www.cdc.gov/ncidod/EID/cid.htm>.

CONFLICT OF INTEREST STATEMENT

Conflict of interest is when the author's primary responsibility to science, ethics and readers is not compatible with author's private interests such as financial gains or personal rivalry. Credence of the scientific process and the authenticity of articles depend in part on how transparently conflicts of interest are approached. In case of a conflict of interest it should be declared to the editorial board of TMSJ, and clearly written under a particular section at the end of the manuscript. Authors may reach more information and find the instructions for the process from the links below:

<https://publicationethics.org/search/site/conflict%20of%20interest>

<http://www.icmje.org/conflicts-of-interest/>

ORCID

It is recommended that the journals, which are indexed in TR Index or apply to take a part, require ORCID® information from the authors and include this information in

the journal/articles. ORCID® is the abbreviation for Open Researcher and Contributor ID. ORCID® is a 16-digit URI compliant with the ISO Standard (ISO 27729), also known as the International Standard Name Identifier (ISNI). The correspondent author who will submit an article to our journal should state ORCID® numbers. Researchers who do not have ORCID® ID can apply for a free registration and get their individual ORCID® number at <http://orcid.org>.

WITHDRAWAL POLICY

Turkish Medical Student Journal encourages authors to follow best practice in publication ethics. Therefore, the authors may withdraw their manuscripts in absolutely necessary conditions. If authors want to withdraw their manuscript, they need to submit the "Manuscript Withdrawal Form". Authors should state their reason of withdrawal and the form need to be signed by all authors, sent to tmsj@trakya.edu.tr.

Turkish Medical Student Journal Editorial Board evaluates the form and if the reason for withdrawal is found as reasonable, the authors will receive a confirmation e-mail. Before getting this confirmation e-mail, the authors should not consider their manuscripts as withdrawn.

COMPLAINT

All of the complaints regarding the articles should be stated via e-mail to tmsj@trakya.edu.tr. TMSJ Editorial Board evaluates the complaints with the accordance of COPE Guidelines and draws a conclusion after the decision of Editor-in-Chief and an ethics editor.



CONTENTS

ORIGINAL ARTICLE

- 70** DETERMINATION OF HOMOPHOBIA LEVELS OF PHYSICIANS AND EVALUATION OF THE APPROACHES AGAINST LGBTI INDIVIDUALS

Eylem Yaren Yılmaz, Çağla Tarım, Sercan Oktar, Gizem Yağdıgül; İstanbul, TÜRKİYE

CASE REPORTS

- 78** CAN BARIATRIC SURGERY BE A HOPE FOR RESISTANT HYPERTENSION?

Utku Yartaşı, Buket Şen, Servet Altay; Edirne, TÜRKİYE

- 81** HIDDEN ENEMY BEHIND FEVER

Sena Batu, Şerife Sultan Uysal, Hakkı Onur Kırkızlar; Edirne, TÜRKİYE

- 84** THE RESTRICTIVE EFFECTS OF THE COVID-19 PANDEMIC ON THE MANAGEMENT OF PLASTRON APPENDICITIS IN A KNOWN HEMOPHILIA A PATIENT

Mert Yurtsever, İrfan Arda Aykut, Beste Girgin, Berkay Aldemir, Oğuzhan Alp Öztürk, Zeliha Türkyılmaz; Edirne, TÜRKİYE

- 88** A CASE OF COEXISTENCE OF PULMONARY EMBOLISM AND ANOMALOUS ORIGIN OF CORONARY ARTERY

Bengisu Çıray, Yağmur Duraklı, EYLÜL Duraklı, Fethi Emre Ustabasioğlu; Edirne, Ankara, TÜRKİYE

2022 Index

2022 Referee Index

2022 Author Index

2022 Subject Index