



BALKAN MEDICAL JOURNAL

The Official Journal of Trakya University School of Medicine

Volume: 40

Issue: 1

January 2023

Editorial

- Time to Hand Over the Flag to Shape the Future
Zafer Koçak

Invited Review

- Must-have Qualities of AI
Koçak et al.

Original Articles

- Genetic Etiology in Idiopathic Generalized Epileptic Disorders
Atlı et al.
- hsa_circ_0006508 Promotes Warburg Effect
Xu et al.
- Axillary Lymphadenopathy After the Inactivated SARS-COV-2 (CoronaVac) Vaccine
Elverici et al.
- SARS-CoV-2 Vaccination in Sarcoidosis
Atahan et al.

- Preoperative Risk Factors of HSA Infusion after Hip Fracture Surgery
Chen et al.
- EPAG for Post-Transplant Poor Graft Function: Real Life Data
Kırcalı et al.
- Silencing SOX11 Alleviates Allergic Rhinitis
Jiang et al.

Clinical Images

- Non-ossifying Fibroma and Osteoblastoma Co-Existence
Alkan et al.
- GPA-Associated Acral Necrosis
Jud et al.

Letter to the Editor

- Tinnitus and Dizziness in COVID-19
Aliyeva et al.

ISSN 2146-3123 • EISSN 2146-3131



Indexed in SCI Expanded and PubMed/MEDLINE • Citation Abbreviation: **Balkan Med J**

www.balkanmedicaljournal.org

Cover Design: Zehra Atabey

Cover Image: It is pictured in the photograph of Behiç Günalan.

(Sultan Bayezid II Complex: One of the Earliest Medical Schools, 148, Edirne)

Editor-in-Chief

Servet ALTAY, MD

Department of Cardiology, Trakya University School of Medicine, Edirne, Turkey
drservetaltay@gmail.com

Honorary Editor

Zafer KOÇAK, MD

Department of Radiation Oncology, Trakya University School of Medicine, Edirne, Turkey
zaferkocak12@gmail.com

Ahmet ULUGÖL, MD

Department of Pharmacology, Trakya University School of Medicine, Edirne, Turkey
aulugol@trakya.edu.tr

Biostatistics Editor

Selçuk KORKMAZ, PhD

Department of Biostatistics and Medical Informatics, Trakya University School of Medicine, Edirne, Turkey
selcukorkmaz@gmail.com

Ethics Editor

Berna ARDA, MD., PhD

Department of History of Medicine and Medical Ethics, Ankara University School of Medicine, Ankara, Turkey

Web and Social Media Editor

Sezgi SARIKAYA SOLAK, MD

Department of Dermatology, Trakya University School of Medicine, Edirne, Turkey

Deputy Editors

Dinçer AVLAN, MD

Department of Pediatric Surgery, Division of Pediatric Urology, Trakya University School of Medicine, Edirne, Turkey
dinceravlanc@gmail.com

Suat ERDOĞAN, MD

Department of Medical Biology, Trakya University School of Medicine, Edirne, Turkey
serdogan1967@hotmail.com

Özgür GÜNDÜZ, MD

Department of Medical Pharmacology, Trakya University School of Medicine, Edirne, Turkey
balkaneditor30@gmail.com

Ufuk USTA, MD

Department of Pathology, Trakya University School of Medicine, Edirne, Turkey
drufukusta@hotmail.com

Associate Editors

Ozan AKÇA, MD

Department of Anesthesiology & Perioperative Medicine, University of Louisville, Louisville, Kentucky

Alper AKÇALI, MD

Department of Medical Microbiology, Çanakkale Onsekiz Mart University School of Medicine, Çanakkale, Turkey

Mutlu ARAT, MD

Department of Haematology and Bone Marrow Transplantation Unit, Demiroğlu Bilim University Faculty of Medicine, İstanbul, Turkey

Erman AYTAÇ, MD

Department of General Surgery, Acıbadem Mehmet Ali Aydınlar University, İstanbul, Turkey

Mustafa ÇIKIRIKÇIOĞLU, MD., PhD., FETCS

Division of Cardiovascular Surgery, Department of Surgery, University Hospitals of Geneva, Geneva, Switzerland

Dragoslava DJERIC, MD., PhD

Department of Otolaryngology, University of Belgrade School of Medicine, Belgrade, Serbia

Murat DEVECİ, MD

Department of Pediatrics, Trakya University School of Medicine, Edirne, Turkey

Hakan EMMUNGİL, MD

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

Marco FIORE, PhD

Department of Molecular Biology, Institute of Cellular Biology and Neurobiology, CNR, Rome, Italy

Serdar GÖZEN, MD

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

Hande GÜÇLÜ, MD

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

Hüseyin GÜDÜCÜOĞLU, MD

Department of Microbiology, Trakya University School of Medicine, Edirne, Turkey

Hakan GÜRKAN, MD., PhD

Diagnostics Center for Genetic Diseases, Trakya University School of Medicine, Edirne, Turkey

Erol GÜRPINAR, MD

Department of Medical Education, Akdeniz University School of Medicine, Antalya, Turkey

Mert İlker HAYIROĞLU, MD

Clinic of Cardiology, Dr. Siyami Ersek Thoracic and Cardiovascular Surgery Training and Research Hospital, İstanbul, Turkey

Marko HAWLINA, MD., PhD

Department of Ophthalmology, University of Ljubljana School of Medicine, Ljubljana, Slovenia

Irena HOCEVAR-BOLTEZAR, MD., PhD

Department of Foniatri and Audiology, University of Ljubljana School of Medicine, Ljubljana, Slovenia

Edin HUSARIC, MD., PhD

Department of Pediatric Surgery, University Clinical Center, Tuzla, Bosnia and Herzegovina

Yasemin KARAL, MD

Department of Pediatrics, Trakya University School of Medicine, Edirne, Turkey

Darko KASTELAN, MD., PhD

Department of Endocrinology, University of Zagreb School of Medicine, Zagreb, Croatia

A. Murat KAYNAR, MD, MPH

Department of Anesthesiology and Perioperative Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania, USA

Şiran KESKE, MD,

Clinic of Infectious Diseases and Clinical Microbiology, Koç University School of Medicine, İstanbul, Turkey

Ayça KIYKIM, MD

Department of Pediatric Immunology and Allergy, İstanbul University-Cerrahpaşa Cerrahpaşa School of Medicine, İstanbul, Turkey

Shima MEHRABIAN, MD., PhD

Department of Neurology, University Hospital Alexandrovska, Sofia, Bulgaria

Pavle MIKLIC, MD

Department of Neurosurgery, University of Zagreb School of Medicine, Zagreb, Croatia

Milan STANKOVIC, MD., PhD

Department of Otolaryngology, University of Nis School of Medicine, Nis, Serbia

Burcu TOKUÇ, MD., PhD

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

Eda TAHİR TURANLI, PhD., MSc

Department of Molecular Biology and Genetics, Acibadem University School of Medicine, İstanbul, Turkey

Alparslan TURAN, MD

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

İsmail Barış TÜRKBEY, MD

Department of Radiology, National Cancer Institute, NIH, Bethesda MD, USA

Fethi Emre USTABAŞIOĞLU, MD

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

Yeşim Hülya UZ, MD

Department of Histology and Embryology, Trakya University School of Medicine, Edirne, Turkey

Belgin ÜNAL, MD

Department of Public Health, Dokuz Eylül University School of Medicine, İzmir, Turkey

Sedat ÜSTÜNDAĞ, MD

Department of Nephrology, Trakya University School of Medicine, Edirne, Turkey

Irena VELCHEVA, MD., PhD

Department of Neurology, Medical University, Sofia, Bulgaria

Stanislav YANEV, MD., PhD

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

Assistant Associate Editors**Murat Mert ATMACA, MD,**

Clinic of Neurology, Sultan 2. Abdülhamid Han Training and Research Hospital, İstanbul, Turkey

Mehmet ÇELİK, MD

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

Muhammet Bekir HACIOĞLU, MD

Department of Oncology, Trakya University School of Medicine, Edirne, Turkey

Cihan İNAN, MD

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

Ethem YILDIZ, MD

Department of Chest Diseases, Trakya University School of Medicine, Edirne, Turkey

Language Editing**ENAGO****Editorial Advisory Board****Eyüp Sabri AKARSU, MD**

Department of Pharmacology, Ankara University School of Medicine, Ankara, Turkey

Serhan ALKAN, MD

Department of Pathology, Cedars Sinai Medical Center, Los Angeles, CA, USA

Farid ALIYEV, MD

Clinic of Cardiology, Baku Heart Center, Azerbaijan

Christian APFEL, MD, PhD

Department of Anesthesiology and Perioperative Care, University of California San Francisco, San Francisco, CA, USA

Stavros J. BALOYANNIS, MD, PhD

Department of Neurology, Aristotle University of Thessaloniki School of Medicine, Thessaloniki, Greece

George N. CHALDAKOV, MD, PhD

Department of Cell Biology, Medical University of Varna, Varna, Bulgaria

Anthony H. DICKENSON, MD, PhD

Department of Pharmacology, University College London, London, UK

Dan M. FLISS, MD, PhD

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

Ahmet GÜRAKAR, MD

Department of Hepatology, Johns Hopkins School of Medicine, Baltimore, MD, USA

Todor KANTARDJIEV, MD, PhD

Department of Parasitology and Microbiology, National Centre Infectious and Parasitic Diseases, Bulgaria

Özgür Kasapçopur, MD

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

Fahrettin KELEŞTİMUR, MD

Department of Endocrinology, Erciyes University School of Medicine, Kayseri, Turkey

Nicholas G. KOUNIS, MD

Department of Cardiology, Patras University School of Medicine, Patras, Greece

George KOLIOS, MD, PhD

Department of Pharmacology, Democritus University of Thrace School of Medicine, Alexandroupolis, Greece

Ana MARUSIC, MD, PhD

Department of Anatomy & Research in Biomedicine and Health, University of Split, Split, Croatia

Ranko MLADINA, MD, PhD

Department of Rhinology, University of Zagreb School of Medicine, Zagreb, Croatia

Eugene N. MYERS, MD, FACS, FRCS Edin (Hon)

Department of ORL, Head-Neck & Maxillofacial Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

Jean-Marc NABHOLTZ, MD, PhD

Clinical and Translational Research Division, Jean Perrin Comprehensive Cancer Centre, Clermont-Ferrand, France

Keiji OGUMA, MD, PhD

Department of Bacteriology, Okayama University School of Medicine, Okayama, Japan

Metin ÖZDEMİRLİ, MD

Professor of Pathology, MedStar Georgetown University Hospital Washington DC, United States

Mustafa TEKİN, MD

Division of Clinical and Translational Genetics, Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, USA

Juan A. TOVAR, MD

Department of Pediatric Surgery, La Paz University Hospital, Madrid, Spain

Mark D. WALTERS, MD, PhD

Department of Gynecology and Obstetrics, Cleveland Clinic, Cleveland, OH, USA

Enver ZEREM, MD, MS, PhD

Department of Gastroenterology, University Clinical Center, Tuzla, Bosnia and Herzegovina

Please refer to the journal's webpage (www.balkanmedicaljournal.org) for "Editorial Policy", "Instructions to Authors" and "Instructions to Reviewers".

The Balkan Medical Journal and/or its editors are members of ICMJE, COPE, WAME, CSE and EASE, and follow their recommendations. The Balkan Medical Journal is indexed in Science Citation Index Expanded (Web of Science), Journal Citation Reports, PubMed/MEDLINE, PubMed Central, Scopus, EMBASE, DOAJ, Chemical Abstracts, CINAHL, EBSCO, J-Gate, GALE, ProQuest, Türk Medline, Türkiye Atif Dizini, IdealOnline, Global Health, UDL-EDGE, Hinari, GOALI, ARDI, OARE, AGORA and TÜBİTAK ULAKBİM TR Index.

The journal is printed on an acid-free paper.

Owner: Filiz Akata On Behalf of Trakya University School of Medicine

Responsible Manager: Servet ALTAY



Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1 34093 İstanbul, Turkey

Phone: +90 (212) 621 99 25 Fax: +90 (212) 621 99 27

E-mail: info@galenos.com.tr/yayin@galenos.com.tr

Web: www.galenos.com.tr

Publisher Certificate Number: 14521

Printing at: Trakya Üniversitesi Matbaası

Edirne Teknik Bilimler M.Y.O Sarayıç Yerişkesi, 22020 Yeni İmaret, Edirne, Turkey

Phone: +90 (284) 224 02 83

Printing Date: January 2023

ISSN: 2146-3123 E-ISSN: 2146-3131

International scientific journal published bimonthly.

CONTENTS

Editorial

1 Time to Hand Over the Flag to Shape the Future

Zafer Kocak; Edirne, Turkey

Invited Review

3 Must-have Qualities of Clinical Research on Artificial Intelligence and Machine Learning

Burak Koçak, Renato Cuocolo, Daniel Pinto dos Santos, Arnaldo Stanzione, Lorenzo Ugga; İstanbul, Turkey, Baronissi, Italy, Cologne, Frankfurt, Napoli, Germany

Original Articles

13 Investigation of the Genetic Etiology in Idiopathic Generalized Epileptic Disorders by Targeted Next-generation Sequencing Technique

Engin Atlı, Hakan Gürkan, Babürhan Güldiken, Damla Eker, Sinem Yalçın-tepe, Selma Demir, Emine İkbal Atlı; Edirne, Turkey

21 Hypoxia-induced Circular RNA hsa_circ_0006508 Promotes the Warburg Effect in Colorectal Cancer Cells

Yugang Xu, Ying Zhang, Wenli Hao, Wen Zhao, Guang Yang, Changqing Jing; Qingdao, Taian, Shandong, China,

28 Unilateral Axillary Lymphadenopathy after the Inactivated SARS-COV-2 (CoronaVac) Vaccine: Ultrasonographic Imaging

Eda Elverici, Arzu Özsoy, Bige Sayın, Muhammet Batuhan Gökhan, Erdem Özkan; Ankara, Turkey

34 Humoral and Cellular Immunity to Severe Acute Respiratory Syndrome Coronavirus-2 Vaccination in Patients with Sarcoidosis

Ersan Atahan, Buket Çalışkaner Öztürk, Rüveyda Akçin, Suat Sarıbaş, Bekir Kocazeybek; İstanbul, Turkey

40 Preoperative Risk Factors for Predicting Postoperative Human Serum Albumin Infusion after Hip Fracture Surgery: Development and Validation of a Nomogram

Xiao Chen, Xin Liu, Junpeng Pan, Penzhou You, Sijun Ren; Anhui province, Shandong province, China

51 Eltrombopag for the Treatment of Poor Graft Function Following Haematopoietic Cell Transplantation: Real-Life Data

Ekin Kırçalı, Güldane Cengiz Seval, Cemalettin Öztürk, Hülya Yılmaz, Derya Koyun, Sinem Civriz Bozdağ, Selami Koçak Toprak, Pervin Topçuoğlu, Önder Arslan, Muhit Özcan, Taner Demirer, Osman İlhan, Günhan Gürman, Meral Beksaç, Meltem Kurt Yüksel; Ankara, Turkey

57 Silencing SOX11 Alleviates Allergic Rhinitis by Inhibiting Epithelial-Derived Cytokines

Li Jiang, Chunrui Wang, Rui Zhao, Jing Cao, Yaohui Liu, Linli Tian, Ming Liu; Heilongjiang, China

Clinical Images

66 Co-Existence of Non-ossifying Fibroma and Osteoblastoma of the Tibia

Aykut Alkan, Fethi Emre Ustabaşoğlu, Ufuk Usta, Mert Çiftedemir, Funda Üstün; Edirne, Turkey

68 Digital Necrosis in Granulomatosis with Polyangiitis

Philipp Jud, Philipp Bosch, Oleksiy Tsybrovskyy; Graz, Austria

Letter to the Editor

70 Long-term Follow-up Results of Tinnitus and Dizziness Disorders in Patients after SARS-CoV-2 Infection Based on a Questionnaire

Aynur Aliyeva, Jae Sang Han, Shi Nae Park, Levent Olgun; Seoul, South Korea; Izmir, Turkey