



BALKAN MEDICAL JOURNAL

The Official Journal of Trakya University School of Medicine

Volume: 41

Issue: 4

July 2024

Editorials

Artificial Intelligence in Nail Diseases

Sarıkaya Solak and Göktaş.

Zoonotic Diseases in Extraordinary and Ordinary Circumstances

Hüseyin Güdücüoğlu.

Invited Review

Novel Treatments for Atopic Dermatitis

Salman and Giménez-Arnau.

Meta-analysis

Vitamin C and Premature Rupture of Membranes

Pejčić et al.

The Effect of Wearable Technology on Metabolic Control and Quality of Life in Children and Adolescents with Type 1 Diabetes

Yeşil and Çevener Özçelik.

Original Articles

Characteristics of Anti-MOG Antibody Positive Patients

Koç et al.

Identifying the Recurrent Laryngeal Nerve

Dündar et al.

Cannabidiol Alleviates Oral Mucositis

Yang et al.

Modifiable Risk Factors for Breast Cancer Mortality in Türkiye (1990-2019)

Yekdeş et al.

Clinical Images

Recurrent Schwannoma of the Cauda Equina

Silva et al.

A Case of Neurobrucella with Tumor and Vasculitis Appearance

Sunal et al.

Human Monkeypox Proctitis

Miyazaki et al.

Scientific Letters

Guillain-Barre Syndrome due to Adjuvant Therapy with Dabrafenib and Trametinib

Geçgel et al.

PET/CT and CA125 in OC

Ilieva-Gabarska and Racheva.

Pachyonychia Congenita

Kork et al.

Letter to the Editor

Artificial Intelligence in Healthcare

Ntalouka et al.

ISSN 2146-3123 • E-ISSN 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, Türkiye
drservetaltay@gmail.com

Honorary Editor

Zafer KOÇAK, MD

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

Ahmet ULUGÖL, MD

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

Biostatistics Editor

Selçuk KORKMAZ, PhD

Department of Biostatistics and Medical Informatics, Trakya University School of Medicine, Edirne, Türkiye

Ethics Editor

Berna ARDA, MD., PhD

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

Web and Social Media Editor

Tuğba KEMALOĞLU ÖZ

Alice Springs Hospital, Australia

Deputy Editors

Dinçer AVLAN, MD

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

Suat ERDOĞAN, MD

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

Özgür GÜNDÜZ, MD

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

Ufuk USTA, MD

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

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, Türkiye

Mutlu ARAT, MD

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

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, Türkiye

Hakan EMMUNGİL, MD

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

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, Türkiye

Hüseyin GÜDÜCÜOĞLU, MD

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

Fethi GÜL, MD

Department of Anesthesiology and Reanimation, Head Chief of Critical Care Medicine, Marmara University School of Medicine, İstanbul, Türkiye

Hakan GÜRKAN, MD., PhD

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

Erol GÜRPINAR, MD

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

Muhammet Bekir HACIOĞLU, MD

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

Mert İlker HAYIROĞLU, MD

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

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

Deniz PALAMAR KADIOĞLU, MD

Department of Physical Therapy and Rehabilitation, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Türkiye

Yasemin KARAL, MD

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

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 Pittsburg, Pittsburg, Pennsylvania, USA

Şiran KESKE, MD,

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

Ayça KIYKIM, MD

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

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

Berrin PAPILA, MD

Department of General Surgery, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Sezgi SARIKAYA SOLAK, MD

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

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, Türkiye

Eda TAHİR TURANLI, PhD., MSc

Department of Molecular Biology and Genetics, Acıbadem University School of Medicine, İstanbul, Türkiye

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, Türkiye

Yeşim Hülya UZ, MD

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

Belgin ÜNAL, MD

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

Sedat ÜSTÜNDAĞ, MD

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

Irena VELCHEVA, MD., PhD

Department of Neurology, Medical University, Sofia, Bulgaria

Alperen VURAL, MD.,

MD., İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, Department of Otolaryngology, İstanbul, Türkiye

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, Türkiye

Mehmet ÇELİK, MD

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

Nihat Demirhan DEMİRKIRAN, MD.,

Kütahya Health Sciences University Faculty of Medicine, Evliya Çelebi Training and Research Hospital, Clinic of Orthopedics and Traumatology, Kütahya, Türkiye

Cihan İNAN, MD

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

Ethem YILDIZ, MD

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

Language Editing

ENAGO

Editorial Advisory Board

Eyüp Sabri AKARSU, MD

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

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, Türkiye

Fahrettin KELEŞTİMUR, MD

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

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 Atıf Dizini, IdealOnline, Global Health, UDL-EDGE, Hinari, GOALI, ARDI, OARE, AGORA, TÜBİTAK ULAKBİM TR Index and CNKI.

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, Türkiye
Phone: Phone: +90 (530) 177 30 97 / +90 (539) 307 32 03
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 Sarayıçığı Yerleşkesi,
22020 Yeni İmaret, Edirne, Türkiye
Phone: +90 (284) 224 02 83
Printing Date: July 2024
ISSN: 2146-3123 E-ISSN: 2146-3131
International scientific journal published bimonthly.

CONTENTS

Editorials

- 234 **The Promising Role of Artificial Intelligence in Nail Diseases**
Sezgi Sarıkaya Solak, Fatih Göktay; Edirne, İstanbul, Türkiye
- 236 **A One Health Approach to Zoonotic Diseases in Extraordinary and Ordinary Circumstances**
Hüseyin Güdücüoğlu; Edirne, Türkiye

Invited Review

- 239 **Emerging Systemic Treatment Options in Atopic Dermatitis**
Andaç Salman, Ana M. Giménez-Arnau; İstanbul, Türkiye; Barcelona, Spain

Meta-analysis

- 248 **Vitamin C Levels in Pregnant Women and the Efficacy of Vitamin C Supplements in Preventing Premature Rupture of Membranes: A Systematic Review and Meta-Analysis**
Ana V. Pejčić, Nemanja Z. Petrovic, Milan D. Djordjic, Milos N. Milosavljevic; Kragujevac, Serbia
- 261 **Effect of Wearable Technology on Metabolic Control and the Quality of Life in Children and Adolescents with Type 1 Diabetes: A Systematic Review and Meta-Analysis**
Fatma Yeşil, Çağrı Çövenler Özçelik; İstanbul, Türkiye

Original Articles

- 272 **Clinical, Demographic, and Radiological Characteristics of Patients Demonstrating Antibodies Against Myelin Oligodendrocyte Glycoprotein**
Sümeyye Koç, Sedat Şen, Yüksel Terzi, Ferah Kızılay, Serkan Demir, Dürdane Bekar Aksoy, Fatma Kurtuluş, Nuray Bilge, Egemen Idilman, Cihat Uzunköprü, Serdal Güngör, Vedat Çilingir, Özlem Ethemoğlu, Cavit Boz, Haluk Gümüş, Ahmet Kasım Kılıç, Ayşin Kısabay, Levent Sinan Bir, Ömer Faruk Turan, Aysun Soysal, Mesrur Köseoğlu, Gülnur Tekgöl Uzuner, Hasan Bayındır, Sibel Canbaz Kabay, Mustafa Çam, Vildan Yayla, Hüseyin Tan, Abdülcecal Özcan, Özlem Taşkapıoğlu, Muammer Korkmaz, Yusuf Tamam, Yılmaz İnanc, Hüsnü Efendi, Dilcan Kotan, Mehmet Fatih Yetkin, Adnan Burak Bilgiç, Hikmet Saçmacı, Serpil Demirci, Yahya Çelik, Turan Poyraz, Murat Terzi; Samsun, Antalya, İstanbul, Tokat, Erzurum, İzmir, Malatya, Van, Şanlıurfa, Trabzon, Konya, Manisa, Denizli, Bursa, Eskişehir, Kütahya, Çanakkale, Muğla, Diyarbakır, Kahramanmaraş, Kocaeli, Sakarya, Kayseri, Yozgat, Isparta, Türkiye
- 280 **A Novel Surgical Landmark to Identify the Recurrent Laryngeal Nerve**
Yusuf Dündar, Cynthia M. Schwartz, Micah Lierly, Tam Q. Nguyen, Kerry K. Gilbert, Drew H. Smith, Nadia Tello, Joehassin Cordero; Lubbock, USA
- 286 **Cannabidiol Alleviates Oral Mucositis by Inhibiting PI3K/Akt/NF-κB-Mediated Pyroptosis**
Jialin Yang, Na Lin, Shuang Li, Zhanhai Dong, Deli Wang, Yong Liu, Yang Zhou, Hui Yuan; Mudanjiang, Beijing, China
- 298 **Modifiable Risk Factors for Breast Cancer Mortality in Türkiye from 1990 to 2019: A Temporal Analysis of Global Burden of Disease Data**
Ali Cem Yekdeş, Didem Han Yekdeş, Ülfiye Çelikkalp, Galip Ekuklu; Edirne, Türkiye

Clinical Images

- 306 **Recurrent Schwannoma of the Cauda Equina: A Rare Diagnosis**
Laura Gabriela Silva, Victor Sudário Takahashi, Marcelo de Queiroz Pereira da Silva, Márcio Luís Duarte; Paracatu-MG, Guarujá-SP, São Paulo-SP, Brazil
- 308 **Neurobrucellosis Presenting with Tumor-Like Lesion and Vasculitic Involvement**
Baran Serdar Sunal, Cihan Özgür, Çiğdem Deniz, Elif Altın; Tekirdağ, Türkiye
- 310 **Human Monkeypox Proctitis**
Yu Miyazaki, Takuya Adachi, Noriyuki Kuniyoshi, Yasuhiro Noda, Mami Nagashima; Tokyo, Japan

Scientific Letters

- 312 **Guillain-Barre Syndrome due to Adjuvant Therapy with Dabrafenib Plus Trametinib**
Aslı Geçgel, Sercan Ön, Yeliz Çiftçi, Oğuzcan Özkan, Fatma Pınar Açar, Burçak Karaca; İzmir, Türkiye
- 314 **18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography as a Valuable Diagnostic Tool in Patients with Ovarian Cancer and Its Correlation with Tumor Marker Cancer Antigen-125**
Preslava Ilieva-Gabarska, Valeria Racheva; Pleven, Varna, Bulgaria
- 317 **A Rare Case of Pachyonychia Congenita and the Need for Awareness**
Hami Kork, Gürbüz Yıldırım, Zeynep Altan Ferhatoğlu; İstanbul, Türkiye

Letter to the Editor

- 319 **Comment on "AI in Healthcare: A Revolutionary Ally or an Ethical Dilemma?"**
Maria P. Ntalouka, Aretha Adamantia, Metaxia Bareka, Eleni Arnaoutoglou; Larissa, Patras, Greece