SSN 2146-3123 • EISSN 2146-3131



Volume: 42 Issue: 1 January 2025

### **Editorials**

3D Echo Advancements in Pulmonary Valve Diseases Kemaloğlu Öz and Badano.

Transdermal Drug Delivery

Aktürk and Gündüz.

### **Invited Review**

Autoinflammatory Bone Diseases Haşlak et al.

# **Meta-analysis**

Enteral-Parenteral Nutrition Post-Op for GI Cancer Cai et al.

# **Original Articles**

Quercetin Alleviates ER Stress-Related Apoptosis *Yu et al.* 

Uremic Toxins Alter Atorvastatin Disposition

Evaluating Newborn Screening Program for Cystic Fibrosis in Türkiye

Coksüer et al.

Matrine's Mechanism in Inhibiting Breast Cancer Progression

Ren et al.

Association Between PALBI Grade and Mortality in Patients with ARDS

Ye et al.

# **Clinical Images**

Cavernous Hemangioma of the Aqueduct of Sylvius *Yang and He.* 

Orbital Myositis During Anti-Tuberculosis Treatment *Yano et al.* 

### **Scientific Letters**

High-Voltage Electrical Lung Injury Čampar and Babić.

Trachelectomy After Supracervical Hysterectomy *Totev et al.* 

FAVA Syndrome with Synovial Localization

Artificial Intelligence in Pediatric Nail Diseases: Limitations and Prospects Mondillo et al.

### Letters to the Editor

**Constrictive Pericarditis and COVID-19** 

Dos Santos et al.

In response to "Constrictive Pericarditis Associated with COVID-19 or Vaccination"

Kaya and Yalta.







### **Editor-in-Chief**

#### Servet ALTAY, MD

Department of Cardiology, Trakya University School of Medicine, Edirne, Türkiye drservetaltay@amail.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**

### Suat ERDOĞAN, PhD

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

### Selçuk KORKMAZ, PhD

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

## Ufuk USTA, MD

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

### Fethi Emre USTABAŞIOĞLU, MD

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

### Alperen VURAL, MD

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

## **Associate Editors**

#### Nazive AK, MD

Department of Oncology, İstanbul University, İstanbul Faculty of Medicine, İstanbul, Türkiye

## Mutlu ARAT, MD

Şişli Memorial Hospital, İstanbul, Türkiye

## Murat Mert ATMACA, MD

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

## Gamze Çan, MD

Department of Public Health, Çanakkale Onsekiz Mart University School of Medicine, İstanbul, Türkiye

### Mehmet ÇELİK, MD

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

## Mustafa ÇIKIRIKÇIOĞLU, MD., PhD., FETCS

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

#### Nihat Demirhan DEMİRKIRAN, MD., PhD.

Kütahya Health Sciences University Faculty of Medicine, Orthopedics and Traumatology, Kütahya, Türkiye

## Dragoslava DJERIC, MD., PhD

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

### Marco FIORE, PhD

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

### 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

#### 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

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

#### Cihan İNAN, MD

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

# Yasemin KARAL, MD

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

### Darko KASTELAN, MD., PhD

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

### 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

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

### Deniz PALAMAR KADIOĞLU, MD

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

#### Berrin PAPİLA, MD

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

#### Osman Ahmet POLAT, MD

Department of Ophthalmology, Erciyes University Faculty of Medicine, Kayseri Türkiye

# Sezgi SARIKAYA SOLAK, MD

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

#### Milan STANKOVIC, MD., PhD

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

## 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

### Serdal UĞURLU, MD

Department of Rheumatology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, 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

### 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**

### Gözde AKTÜRK, MD

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

### Gökhan Çevik, MD

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

#### Tuğcan Alp Kırkızlar, MD

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

# İdris Kurt, MD

 $Department \ of \ Gastroenterology, Trakya \ University \ School \ of \ Medicine, Edirne, T\"urkiye$ 

## 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 KELEŞTIMUR, 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: Sedat Üstündağ 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: +90 (530) 177 30 97 / +90 (539) 307 32 03

 $\pmb{\text{E-mail:}} \ in fo@galenos.com.tr/yayin@galenos.com.tr$ 

Web: www.galenos.com.tr

Publisher Certificate Number: 14521

Printing at: Trakya Üniversitesi Matbaası Edirne Teknik Bilimler M.Y.O Sarayiçi Yerleşkesi,

22020 Yeni İmaret, Edirne, Türkiye Phone: +90 (284) 224 02 83 Printing Date: January 2025 ISSN: 2146-3123 E-ISSN: 2146-3131 International scientific journal published bimonthly.

### CONTENTS

### **Editorials**

1 Unlocking the Potential of Three-Dimensional Echocardiography for Diagnosing Pulmonary Valve Diseases

Tuğba Kemaloğlu Öz, Luigi P. Badano; Alice Springs, Australia; Milan, Italy

3 Transdermal Drug Delivery: An Overview of the Evolving Field

Gözde Aktürk, Özgür Gündüz; Edirne, Türkiye

### **Invited Review**

5 Autoinflammatory Bone Diseases

Fatih Haşlak, Nergis Akay, Ümit Gül, Aybüke Günalp, Elif Kılıç Könte, Sezgin Şahin, Özgür Kasapçopur; İstanbul, Türkiye

### **Meta-analysis**

14 Efficacy and Safety of a Combination of Enteral and Parenteral Nutrition Support in the Postoperative Period for Patients with Gastrointestinal Cancer: A Systematic Review and Meta-Analysis

Meixiang Cai, Bo Yang, Yaping Zheng, Lei Ding; Changzhou, China

# **Original Articles**

27 Quercetin Alleviates Hyperglycemic-Generated Endoplasmic Reticulum Stress-Contacted Apoptosis of Rat Nucleus Pulposus Cells

Zhen Yu, Xianfeng Wang, Yusen Hu, Xinfa Wang, Zhenghuan Zhu, Xu Xu, Yiming Wang, Ailiang Zhang; Changzhou, Guiyang, China

37 How Uremic Toxins Alter Atorvastatin Disposition: Molecular Mechanisms of Inhibition of the Enzyme CYP3A4

Ashna Asim, Fen Wang, Dong Pu, Sisi Wang, Dian Wang, Wenwen Li, Feng Yu, Li Ji; Nanjing, China

45 Newborn Screening Program for Cystic Fibrosis in Türkiye: Experiences from False-Negative Tests and Requirement for Optimization

Fevziye Çoksüer, Gökçen Kartal Öztürk, Handan Duman Şenol, Meral Barlık, Mehmet Mustafa Özaslan, Bahar Girgin Dindar, Ece Ocak, Ece Halis, Şükrü Atacan Öğütcü, Figen Gülen, Esen Demir; İzmir, Türkiye

Matrine Inhibits Breast Cancer Cell Proliferation and Epithelial-Mesenchymal Transition Through Regulating the LINC01116/miR-9-5p/ITGB1 Axis

Lili Ren, Ziru Fang, Jiaojiao Xu, Xiaoxiao Wu, Yongjun Zhang, Hu Cai, Zhicun Han; Zhejiang, Hangzhou, China

66 Association Between Platelet-Albumin-Bilirubin Grade and the 30-Day Mortality in Patients with Acute Respiratory Distress Syndrome: Evidence from the MIMIC-IV Database

Dandan Ye, Wei Jiang, Deming Gu; Wuhu, China

# **Clinical Images**

75 Intraventricular Peritoneal Shunt for Obstructive Hydrocephalus Caused by Cavernous Hemangioma of the Aqueduct of Sylvius

Wei Yang, Chendong He; Nanjing, China

77 Orbital Myositis as a Paradoxical Reaction to Anti-Tuberculosis Treatment

Koichi Yano, Kyoko Yokosuka, Kiyomi Amemiya, Kentaro Sakashita, Takuto Ishida; Tokyo, Gifu, Japan

### **Scientific Letters**

79 High-Voltage Electrical Lung Injury

Branko Čampar, Blagoje Babić; Podgorica, Montenegro

81 Trachelectomy After Supracervical Hysterectomy

Tihomir Pankov Totev, Georgi Danielov Prandzhev, Slavcho Tomov Tomov, Nadezhda Hristova Hinkova, Grigor Angelov Gortchev; Pleven, Bulgaria

83 FAVA Syndrome with Unique Synovial Localisation Mimicking Diffuse Pigmented Villonodular Synovitis

Ufuk Usta, Meltem Ayyıldız Mercan, Gülşah Burgazdere, Fethi Emre Ustabaşıoğlu, Mert Çiftdemir; Edirne, Türkiye

86 Artificial Intelligence in Pediatric Nail Diseases: Limitations and Prospects

Gianluca Mondillo, Vittoria Frattolillo, Simone Colosimo, Alessandra Perrotta; Naples, Italy

## Letters to the Editor

87 Constrictive Pericarditis Associated with COVID-19 or Vaccination

Vitorino Modesto Dos Santos, Andressa Plaça Tedeschi, Laura Campos Modesto, Julia Campos Modesto; Brasília-DF, São Paulo-SP, Brazil

89 In response to "Constrictive Pericarditis Associated with COVID-19 or Vaccination"

Çağlar Kaya, Kenan Yalta; Edirne, Türkiye