



BALKAN MEDICAL JOURNAL

The Official Journal of Trakya University School of Medicine

Volume: 39

Issue: 3

May 2022

Original Articles

- Noble Metal Alloy Endotracheal Tubes in Vap Prevention
Radu Ciprian Tincu et al.
- Anti-SARS-CoV-2 IgG and Neutralizing Antibody Levels
Harika Öykü Dinç et al.
- Biomimetic Nanosystems for the Synergistic Delivery of miR-144/451a for Oral Carcinoma
Kunshan Li et al.
- Identification and Validation of a Novel Nomogram Predicting 7-day Death in Patients with Intracerebral Hemorrhage
Qian Han et al.
- Safety of an Inactivated SARS-CoV-2 Vaccine Among Healthcare Workers in Turkey
Oya Baydar et al.
- Tumor Budding and Axl Expression in Gallbladder Adenocarcinomas
Özden Öz et al.
- Antibiotic Use in Hospitalized Patients with COVID-19
İrfan Şencan et al.

Clinical Images

- Lobular Carcinoma In Situ Incidentally Detected by Dual-Energy Computed Tomography
Ahmet Gürkan Erdemir et al.
- Morquio A Syndrome
Milos D Pajic et al.

Letters to the Editor

- MORC2 Mutant Axonal Charcot-Marie-Tooth Disease Causes Pathological Myofiber Destruction
Yaye Wang et al.
- Dabigatran-induced Esophagitis
Akihiro Maeda et al.
- Multisystem Inflammatory Syndrome and COVID-19 Vaccination (MIS-V)
Reşit Yıldırım 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

Zafer KOÇAK, MD

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

Honorary Editor

Ahmet ULUGÖL, MD

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

Biostatistics Editor

Necdet SÜT, PhD

Department of Biostatistics and Informatics, Trakya University School of Medicine, Edirne, Turkey
necdetsut@yahoo.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

Servet ALTAY, MD

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

Deputy Editors

Servet ALTAY, MD

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

Dinçer AVLAN, MD

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

Okan ÇALIYURT, MD

Department of Psychiatry, Trakya University School of Medicine, Edirne, Turkey
caliyurt@hotmail.com

Hakan ERBAŞ, PhD., MSc

Department of Biochemistry, Trakya University School of Medicine, Edirne, Turkey
hakanerbasa@hotmail.com

Mustafa İNAN, MD

Department of Pediatric Surgery, Trakya University School of Medicine, Edirne, Turkey
mustafainan@trakya.edu.tr

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

Murat BİRTANE, MD

Department of Physical Medicine and Rehabilitation, Trakya University School of Medicine, Edirne, Turkey

Mustafa ÇIKIRIKÇIOĞLU, MD., PhD., FETCS

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

Meletios A. DIMOPOULOS, MD., PhD

Department of Clinical Therapeutics, Hematology/Oncology, University of Athens School of Medicine, Athens, Greece

Dragoslava DJERIC, MD., PhD

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

Hakan EMMUNGİL, MD

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

Suat ERDOĞAN, PhD., MSc

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

Marco FIORE, PhD

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

Mohamad GOLDUST, MD

Department of Dermatology & Allergy, University Hospital Basel, Basel, Switzerland

Serdar GÖZEN, MD

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

Özgür GÜNDÜZ, MD

Department of Pharmacology, 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

Osman Nuri HATİPOĞLU, MD

Department of Pulmonary Diseases, Trakya University School of Medicine, Edirne, 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

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

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

Belgin ÜNAL, MD

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

Yeşim Hülya UZ, MD

Department of Histology and Embryology, Trakya University School of Medicine, Edirne, 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 DEVECİ, MD

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

Hande GÜÇLÜ, MD

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

Cem İBIŞ, MD

Department of General Surgery, İstanbul University School of Medicine, İstanbul, Turkey

Cihan İNAN, MD

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

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

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

C. Michael GIBSON MD, MS

Interventional Cardiologist, Beth Israel Deaconess Medical Center, Professor of Medicine, Harvard Medical School, Boston, MA, United States

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

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: Zafer KOÇAK

	Galenos Publishing House Owner and Publisher Derya Mor Erkan Mor	Finance Coordinators Emre Kurtulmuş Sevinç Çakmak	Research&Development Melisa Yiğitoğlu Nihan Karamanlı	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
	Publication Coordinator Burak Sever	Project Coordinators Aysel Balta Duygu Yıldırım Gamze Aksoy Gülşah Akın Hatice Sever Melike Eren Özlem Çelik Çekil Pınar Akpınar Rabia Palazoğlu Sümeyye Karadağ	Digital Marketing Specialist Ümit Topluoğlu	Printing at: Trakya Üniversitesi Matbaası Edirne Teknik Bilimler M.Y.O Sarayıcı Yerleşkesi, 22020 Yeni İmaret, Edirne, Turkey Phone: +90 (284) 224 02 83 Printing Date: May 2022 ISSN: 2146-3123 E-ISSN: 2146-3131 International scientific journal published bimonthly.
	Web Coordinators Fuat Hocalar Turgay Akpınar			
	Graphics Department Ayda Alaca Çiğdem Birinci Gülşah Saday Gülşah Özgül			

CONTENTS

Original Articles

- 167 Efficacy of Noble Metal–alloy Endotracheal Tubes in Ventilator-associated Pneumonia Prevention: a Randomized Clinical Trial**
Radu Ciprian Tincu, Cristian Cobilinschi, Iulia Florentina Tincu, Radu Alexandru Macovei; Bucharest, Romania
- 172 Anti-SARS-CoV-2 IgG and Neutralizing Antibody Levels in Patients with Past COVID-19 Infection: A Longitudinal Study**
Harika Öykü Dinç, Mehmet Demirci, Yusuf Emre Özdemir, Serhat Sirekbasan, Ayşe Nur Aktaş, Rıdvan Karaali, Yeşim Tuyji Tok, Doğukan Özbey, Rüveyda Akçin, Nesrin Gareayaghi, Mert Ahmet Kuşkucu, Kenan Midilli, Gökhan Aygün, Suat Sarıbaş, Bekir Kocazeybek; İstanbul, Kırklareli, Çankırı, Turkey
- 178 Biomimetic Nanosystems for the Synergistic Delivery of miR-144/451a for Oral Squamous Cell Carcinoma**
Kunshan Li, Yongle Qiu, Xin Liu, Fang Huang; Hebei, China
- 187 Identification and Validation of a Novel Nomogram Predicting 7-day Death in Patients with Intracerebral Hemorrhage**
Qian Han, Zhengyao Zuo, Dongpo Su, Xiaozhuo Liu, Mingming Fan, Qing Wang, Mei Li, Tong Chen; Hebei, China
- 193 Safety of an Inactivated SARS-CoV-2 Vaccine Among Healthcare Workers in Turkey: An Online Survey**
Oya Baydar, Şennur Özen, Burcu Öztürk Şahin, Nurdan Köktürk, Mehmet Tevfik Kitapçı; Adana, İstanbul, Ankara, Turkey
- 199 The Significance of Tumor Budding and Immunohistochemical Axl Expression in Gallbladder Adenocarcinomas**
Özden Öz, Asuman Argon, Tulu Kebab, Çisem Namli Akıncı, Özlem Özdemir; İzmir, Turkey
- 209 Antibiotic use and Influencing Factors Among Hospitalized Patients with COVID-19: A Multicenter Point-Prevalence Study from Turkey**
İrfan Şencan, Yasemin Çağ, Oğuz Karabay, Behice Kurtaran, Ertuğrul Güçlü, Aziz Öğütlü, Zehra Demirbaş, Dilek Bulut, Gülden Eser Karlıdağ, Merve Sefa Sayar, Ezgi Gizem Şibar, Oya Özlem Eren Kutsoylu, Gülnur Kul, Serpil Erol, Begüm Bektaş, Tülay Ünver Ulusoy, Semanur Kuzi, Meltem Tasbakan, Özge Yiğit, Nurgül Ceran, Ayşe Seza İnal, Pınar Ergen, Tansu Yamazhan, Hanife Uzar, Canan Ağalar; İstanbul, Sakarya, Adana, Kahramanmaraş, Van, Elazığ, İzmir, Hatay, Ordu, Şanlıurfa, Turkey

Clinical Images

- 218 Lobular Carcinoma In Situ Incidentally Detected by Dual-Energy Computed Tomography**
Ahmet Gürkan Erdemir, Gamze Durhan, Erhan Akpınar; Ankara, Turkey
- 220 Natural Evolution of Morquio A Syndrome Caused by Two Heterozygous Mutations of the GALNS Gene**
Milos D Pajic, Ivana I Kavecan, Jadranka M Maksimovic, Sinisa S Babovic, Biljana T Bojadzieva Stojanoska; Novi Sad, Belgrade, Macedonia, Macedonia

Letters to the Editor

- 222 MORC2 p.R252W Mutant Axonal Charcot–Marie–Tooth Disease Causes Peripheral Neuropathies and Pathological Myofiber Destruction**
Yaye Wang, Jingzhe Han, Jinru Zhang, Yue Wu, Xueqin Song; Hebei, Hengshui, China
- 224 Esophageal Injury Due to Long-term Use of Dabigatran**
Akihiro Maeda, Hirohisa Fujikawa, Tadamasa Wakabayashi; Nagano, Tokyo, Japan
- 226 A Challenging Diagnosis: A Case of Multisystem Inflammatory Syndrome Following COVID-19 Vaccination**
Reşit Yıldırım, Mustafa Dinler, Nazife Şule Yaşar Bilge, Timuçin Kaşifoğlu; Eskişehir, Turkey