



BALKAN MEDICAL JOURNAL

The Official Journal of Trakya University School of Medicine

Volume: 39

Issue: 6

November 2022

Editorial

- Sample Size Calculation and Power Analysis in Scientific Studies
Süt et al.

Original Articles

- Mesenchymal Stem Cell in Stromal Vascular Fraction
Karadağ Sanı and Ovalı.
- COL3A1 Downregulation Inhibits the DDP Resistance of Lung Cancer
Wang et al.
- First Report of *E. granulosus* Genotype G2 in Turkey
Tarladaçalışır et al.
- Circ_0001535 Facilitates Colorectal Cancer Progression
Bai et al.
- Investigation of RASD1 Gene Variants in Schizophrenia
Durmaz et al.
- Sex of the First-born Child and Breast Cancer
Thalib et al.
- Invasion Patterns in Colon Cancer
Özer et al.

Clinical Images

- Triple Trouble of the Mitral Valve in Hypertrophic Cardiomyopathy
Özden et al.
- Auer Rod-like Inclusions in Multiple Myeloma
Bouanani et al.
- Recurrence of Metatarsal Aneurysmal Bone Cyst
Günay et al.

Letter to the Editor

- Effect of Cytotoxic Therapy on ALU Expression in Breast Cancer
Özgür et al.

ISSN 2146-3123 • EISSN 2146-3131



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

www.balkanmedicaljournal.org

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
dinceravlan@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

Halis AKALIN, MD

Department of Infectious Diseases and Clinical Microbiology, Uludag University Faculty of Medicine, Bursa, Turkey

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, Bilim University Faculty of Medicine, İstanbul, 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

Ahmet GÜRAKAR, MD

Department of Gastroenterology and Hepatology, Johns Hopkins University School of Medicine, Baltimore, USA

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

A. Murat KAYNAR, MD, MPH

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

Ayça KIYKIM, MD

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

Burak KOÇAK, MD

Clinic of Radiology, University of Health Sciences Turkey, Başakşehir Çam and Sakura City Hospital, 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, Acıbadem 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

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 İBİŞ, 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

Fethi Emre USTABAŞIOĞLU, MD

Department of Radiology, 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 Publication Coordinator Burak Sever Web Coordinators Fuat Hocalar Turgay Akpınar Graphics Department Ayda Alaca Çiğdem Birinci Gülşah Saday Gülşah Özgül	Finance Coordinators Emre Kurtulmuş Sevinç Çakmak Project Coordinators Aysel Balta Gamze Aksoy Gülşah Akın Hatice Sever Melike Eren Özlem Çelik Çekil Pınar Akpınar Rabia Palazoğlu Sümeyye Karadağ	Research&Development Nihan Karamanlı Digital Marketing Specialist Ümit Topluoğlu	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 Yerleşkesi, 22020 Yeni İmaret, Edirne, Turkey Phone: +90 (284) 224 02 83 Printing Date: November 2022 ISSN: 2146-3123 E-ISSN: 2146-3131 International scientific journal published bimonthly.
---	---	---	---	--

CONTENTS

Editorial

- 384 Importance of Sample Size Calculation and Power Analysis in Scientific Studies: An Example from the Balkan Medical Journal**

Necdet Süt, Mirac Ajredani, Zafer Koçak; Edirne, Turkey

Original Articles

- 386 Factors Affecting the Population of Mesenchymal Stem Cells in Adipose-Derived Stromal Vascular Fraction**

E. Çiğdem Karadağ Sarı, Ercüment Ovalı; İstanbul, Turkey

- 393 COL3A1 Overexpression Associates with Poor Prognosis and Cisplatin Resistance in Lung Cancer**

Lihuai Wang, Yinhui Sun, Zhongcong Guo, Hua Liu; Hunan, China

- 401 Genotyping and Identification of Antigen B Gene Polymorphism of *Echinococcus granulosus* in Edirne, Thrace, and the First Report of Genotype G2 (Tasmanian Sheep Strain) in Turkey**

Taner Tarladaçalışır, Canan Eryıldız, Kıymet Tabakçioğlu, Nermin Şakru; Edirne, Turkey

- 411 Circ_0001535 Facilitates Tumor Malignant Progression by miR-485-5p/LASP1 Axis in Colorectal Cancer**

Liang Bai, Zhifeng Gao, An Jiang, Song Ren, Baotai Wang; Shanghai, China

- 422 Genetic Analysis of *RASD1* as a Candidate Gene for Schizophrenia**

Ceren Damla Durmaz, Halil Gürhan Karabulut, Meram Can Saka, Ceren Sucularlı, Güvem Gümüş Akay, Cem Atbaşoğlu, Hatice Ilgın Ruhi; Ankara, Turkey

- 429 Does the Sex of the Firstborn Child Affect the Breast Cancer Risk and Survival: A Systematic Review and Meta-analysis of Over 1 Million Cases**

Lukman Thalib, Suhail A.R. Doi, Suhad Daher-Nashif, Tanya Kane, Luis Furuya-Kanamori; İstanbul, Turkey; Doha, Qatar; Herston, Australia

- 436 Intramural Component of Venous, Lymphatic, and Perineural Invasion in Colon Cancer: A Threat or an Illusion?**

Leyla Özer, Elif Şenocak Taşçı, Arda Ulaş Mutlu, Betül Piyade, Nur Ramoğlu, Miraç Ajredini, Damla Gürleyik, Recep Çeçen, Sena Nur Dinçer, Turan Musevitoğlu, Süha Göksel, Ümit İnce, Cavit Kerem Kayhan, Sibel Erdamar, İbrahim Yıldız, Erman Aytaç; İstanbul, Edirne, Turkey

Clinical Images

- 444 Triple Trouble of the Mitral Valve in a Patient with Hypertrophic Cardiomyopathy**

Özge Özden, Şule Göktekin, Kardelen Ohtaroglu Tokdil, Gülsüm Bingöl, Tuğrul Okay; İstanbul, Muğla, Turkey; London, United Kingdom

- 446 Auer Rod-like Inclusions in a Patient with Multiple Myeloma**

Nouama Bouanani, Lina Achour, Anas Yahyaoui, Houda Youssefi; Casablanca, Morocco

- 448 Local Recurrence of Metatarsal Aneurysmal Bone Cyst after Percutaneous Sclerotherapy**

Burak Günay, Fethi Emre Ustabaşoğlu, Mert Çiftdemir, Burak Uslu, Ufuk Usta; Edirne, Turkey

Letter to the Editor

- 450 Effect of Cytotoxic Therapy on ALU Expression is Modulated by Hormonal Status in Patients with Breast Cancer**

Emre Özgür, Ferhat Ferhatoğlu, Fatma Şen, Uğur Gezer; İstanbul, Turkey

Reviewer List