



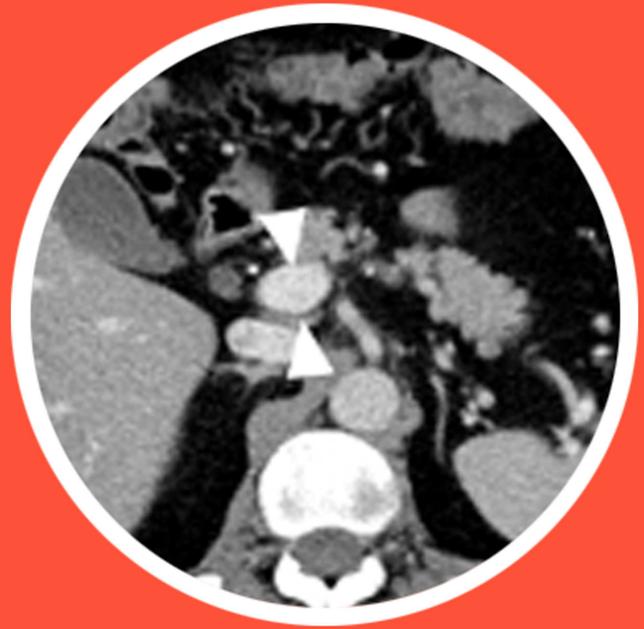
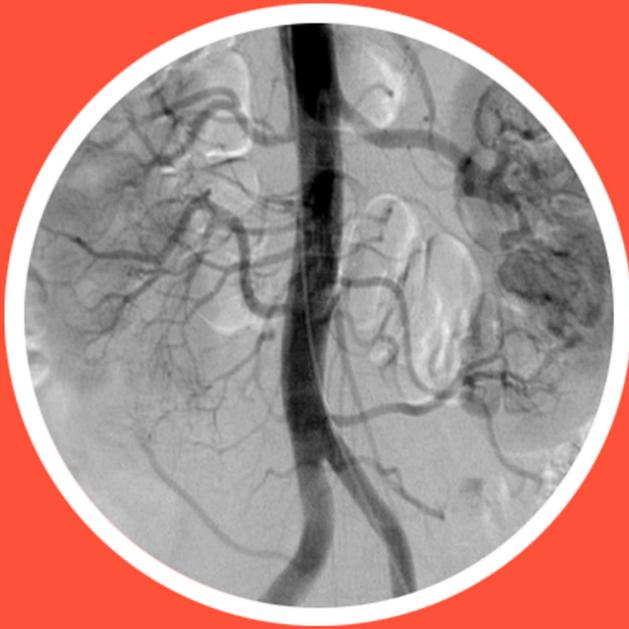
Volume 7 · Issue 5 · September 2021

e-ISSN: 2149-3189

---

---

The **European**  
**Research Journal**



---

Copyright © 2021 by The Association of Health Research & Strategy

Available at <http://dergipark.org.tr/eurj>



# The European Research Journal

## Aim and Scope

The European Research Journal (EuRJ) is an international, independent, double-blind peer reviewed, Open Access and online publishing journal, which aims to publish papers on all the related areas of basic and clinical medicine.

Editorial Board of the European Research Journal complies with the criteria of the International Council of Medical Journal Editors (ICMJE), the World Association of Medical Editors (WAME), and Committee on Publication Ethics (COPE).

The journal publishes a variety of manuscripts including original research, case reports, invited review articles, technical reports, how-to-do it, interesting images and letters to the editor. The European Research Journal has signed the declaration of the Budapest Open Access Initiative. All articles are detected for similarity or plagiarism. Publication language is English. The journal does not charge any article submission or processing charges.

EuRJ recommends that all of our authors obtain their own ORCID identifier which will be included on their article.

The journal is published bimonthly (January, March, May, July, September, and November).

## Abstracting and Indexing

The journal is abstracted and indexed with the following: ULAKBİM TR Index (ULAKBİM TR DİZİN), NLM Catalog (NLM ID: 101685727), Google Scholar (h-index: 6), Index Copernicus (ICV 2019: 100), EMBASE, ProQuest Central, ROAD, SciLit, MIAR (ICDS 2020: 3.7), J-Gate, SHERPA/RoMEO, BASE, EZB, CrossRef, JournalTOCs, WorldCat, TURK MEDLINE, Turkish Citation Index, EuroPub, OpenAIRE, ResearchGate, SOBIAD, Publons (Clarivate Web of Science).

## Publisher



The European Research Journal (EuRJ)  
The Association of Health Research & Strategy  
Kırcaali Mah. Fevziçakmak Cd. Göktaş İş Mrk.  
Kat:3 No:62/12  
Osmangazi/BURSA-TURKEY  
[www.dergipark.org.tr/eurj/](http://www.dergipark.org.tr/eurj/)



THE ASSOCIATION OF HEALTH  
RESEARCH AND STRATEGY

**e-ISSN: 2149-3189**

The European Research Journal, hosted by Turkish JournalPark ACADEMIC, is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.



# **EDITORIAL BOARD**

## **EDITOR-IN-CHIEF**

Senol YAVUZ, MD,

Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Cardiovascular Surgery,  
Bursa, Turkey

## **MANAGING EDITOR**

Nizameddin KOCA, MD,

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training & Research Hospital,  
Department of Internal Medicine,  
Bursa, Turkey

## **FOUNDING EDITOR**

Rustem ASKIN, MD,

Professor of Psychiatry  
Head of the Association of Health Research & Strategy, Bursa, Turkey

## **EDITORIAL ASSISTANT**

Ugur BOLUKBAS

## **EDITORS**

Davut AKDUMAN, MD,

Associate Professor,  
University of Health Sciences, Keçiören Training & Research Hospital  
Department of Otorhinolaryngology,  
Ankara, Turkey

Mehmet HAKSEVER, MD,

Associate Professor,  
Medical Park Bursa Hospital  
Department of Otorhinolaryngology,  
Bursa, Turkey

Omer SENORMANCI, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training & Research Hospital,  
Department of Psychiatry,  
Bursa, Turkey

Rahmi DUMAN, MD,

Associate Professor,  
Ankara LIV Hospital,  
Department of Ophthalmology,  
Ankara, Turkey

Ali ASAN, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training & Research Hospital,  
Department of Infectious Disease,  
Bursa, Turkey

Meliha KASAPOGLU AKSOY, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Physical Therapy & Rehabilitation,  
Bursa, Turkey

Sinem KIYICI, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Endocrinology & Metabolism  
Bursa, Turkey

Soner CANDER, MD

Associate Professor,  
Uludag University Medical School,  
Department of Endocrinology & Metabolism  
Bursa, Turkey

Metin GUCLU, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Endocrinology & Metabolism  
Bursa, Turkey

Cuma Bulent GUL, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Nephrology  
Bursa, Turkey

Sedat ONER, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Urology  
Bursa, Turkey

Burcu METIN OKMEN, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Physical Therapy & Rehabilitation,  
Bursa, Turkey

Arda ISIK, MD

Associate Professor,  
Binali Yildirim University School of Medicine,  
Department of General Surgery,  
Erzincan, Turkey

Emin USTUNYURT, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Gynecology & Obstetrics,  
Bursa, Turkey

Mehtap BULUT, MD

Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Emergency Medicine,  
Bursa, Turkey

Mete KAYA, MD

Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Pediatric Surgery,  
Bursa, Turkey

Melih CEKINMEZ, MD

Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Neurosurgery,  
Bursa, Turkey

Serhat YALCINKAYA, MD

Associate Professor,  
Kutahya University of Health Sciences,  
Department of Thoracic Surgery  
Kutahya, Turkey

Korgun OKMEN, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Anesthesiology & Reanimation,  
Bursa, Turkey

Derya KARASU, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Anesthesiology & Reanimation,  
Bursa, Turkey

Hasan ARI, MD

Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Cardiology,  
Bursa, Turkey

Erhan TENEKECIOGLU, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Cardiology,  
Bursa, Turkey

Kadir Kaan OZSIN, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Cardiovascular Surgery,  
Bursa, Turkey

Nurullah DOGAN, MD,

Associate Professor,  
Doruk Medical Center,  
Department of Radiology,  
Bursa, Turkey

Alper KARAKUS, MD

Consultant Cardiolog,  
Besni State Hospital,  
Department of Cardiology,  
Adiyaman, Turkey

Gokhan OCAKOGLU, PhD,

Associate Professor,  
Uludag University School of Medicine,  
Department of Biostatistics,  
Bursa, Turkey

## **INTERNATIONAL EDITORIAL BOARD MEMBERS**

Ahmet KIZILAY, MD

Professor,  
Inönü University School of Medicine,  
Department of Otorhinolaryngology,  
Malatya, Turkey

Alparslan ERSOY, MD

Professor,  
Uludag University School of Medicine  
Department of Nephrology & Transplantation  
Bursa, Turkey

Aron Frederik POPOV, MD

Professor,  
University of Frankfurt,  
Department of Cardiothoracic Surgery,  
Frankfurt, Germany

Cristina FLORESCU, MD

Associate Professor,  
University of Craiova,  
Department of Medicine & Pharmacy,  
Romania

Elif EKINCI, MD

MBBS, FRACP, PhD  
University of Melbourne  
Department of Medicine,  
Melbourne, Australia

Erdem CUBUKCU, MD

Associate Professor,  
Uludag University School of Medicine,  
Department of Medical Oncology,  
Bursa, Turkey

Essam M MAHFOUZ, MD

Professor,  
University of Mansoura School of Medicine  
Department of Cardiology,  
Mansoura, Egypt

Francesco CARELLI, MD

Professor,  
University of Milan School of Medicine,  
Department of Family Medicine,  
Milan, Italy

Gary TSE, MD, PhD

Assistant Professor,  
The Chinese University of Hong Kong,  
Department of Medicine and Therapeutics,  
Hong Kong, China

Ibrahim TAYMUR, MD,

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Psychiatry,  
Bursa, Turkey

Kendra J. GRUBB, MD, MHA, FACC

Assistant Professor,  
Emory University School of Medicine,  
Department of Cardiovascular Surgery,  
Atlanta, GA, USA

Koray AYAR, MD

Assistant Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training and Research Hospital,  
Department of Rheumatology,  
Bursa, Turkey

Muhammet GUZELSOY, MD

Associate Professor,  
University of Health Sciences, Bursa Yuksek Ihtisas Training & Research Hospital,  
Department of Urology  
Bursa, Turkey

Muzaffer DEMIR, MD

Professor,  
Trakya University School of Medicine,  
Department of Hematology,  
Edirne, Turkey

Nader D NADER, MD

Professor,  
University of Buffalo School of Medicine  
Department of Anesthesiology,  
NY, USA

Omer Fatih OLMEZ, MD

Professor,  
Medipol University School of Medicine,  
Department of Medical Oncology,  
Istanbul, Turkey

Ozen OZ GUL, MD

Associate Professor,  
Uludag University School of Medicine,  
Department of Endocrinology & Metabolism,  
Bursa, Turkey

Ozkan KANAT, MD,  
Professor,  
Acibadem University Hospital  
Department of Medical Oncology,  
Bursa, Turkey

Sait Ait BENALI, MD

Professor,  
Cadi Ayyad University School of Medicine,  
Department of Neurosurgery,  
Marrakech, Morocco

Sedat ALTIN, MD

Professor,  
University of Health Sciences, Yedikule Training & Research Hospital,  
Department of Chest Diseases,  
Istanbul, Turkey

Semih HALEZEROGLU, MD, FETCS

Professor,  
Acibadem University School of Medicine,  
Department of Thoracic Surgery,  
Istanbul, Turkey

Veysel TAHAN, MD, FACP, FACG, FESBGH

Assistant Professor,  
University of Missouri,  
Division of Gastroenterology and Hepatology,  
Columbia, Missouri, USA

Yenal DUNDAR, MD

University of Liverpool School of Medicine,  
Department of Psychiatry,  
Liverpool, UK

# Table of Contents

## Original Articles

- Relevant muscle selection for needle electromyography examination in polio survivors** 440-446  
*Halit FİDANCI, İlker ÖZTÜRK, Zülfikar ARLIER*  
Sayfa: 440-446
- Investigation of the glutathione S-transferase gene M1/T1 and angiotensin converting enzyme gene I/D polymorphism in type 1 diabetic patients and possible association with diabetic microvascular complications** 447-456  
*Soner CANDER, Nizameddin KOCA, Pınar ŞİŞMAN, Özen ÖZ GÜL, Mutlu KARKUCAK, Adem DELİGÖNÜL, Canan ERSOY*
- The in vitro cytotoxic, genotoxic, oxidative damage potential of enoxaparin sodium in human peripheral blood mononuclear cells** 457-464  
*Kadri YILDIZ*
- Medial insufficiency in postoperative weight-bearing radiographs in supination-external rotation type 4 bimalleolar ankle fractures: is the Lauge-Hansen classification insufficient in predicting medial soft tissue damage?** 465-471  
*Ali YÜCE, Mustafa YERLİ, Tahsin Olgun BAYRAKTAR, Bulent KARSLIOGLU, Yunus İMREN, Süleyman Semih DEDEOĞLU, Mustafa Çağlar KIR, Hakan GÜRBÜZ*
- Comparison of contrast-enhanced magnetic resonance angiography and digital subtraction angiography in the evaluation of renal artery stenosis and detecting of accessory and polar arteries** 472-480  
*Utku Mahir YILDIRIM, Ceyla BAŞARAN*
- Fragmented QRS formation may be associated with increased carotid intima-media thickness in patients with end-stage renal disease** 481-487  
*Tolga DOĞAN, Mucahit YETİM, İbrahim DOĞAN, Macit KALÇIK, Lütfü BEKAR, Oguzhan CELİK, Yusuf KARAVELİOĞLU*
- Increase in scabies incidence: a retrospective cohort study** 488-494  
*Fidan BENER*
- The incidence of hypophosphatemia in the early posttransplant period in renal transplant recipients and its association with graft function** 495-500  
*Emel ISIKTAS SAYILAR*
- Retrospective investigation of postoperative mid-term results of cryoablation and radiofrequency ablation methods used in atrial fibrillation surgery treatment** 501-508  
*Ahmet Burak TATLI, Arda Aybars PALA, Mesut ENGİN, Temmuz TANER, Yusuf ATA*
- Mesenteric panniculitis: can venous anatomy and malignancy be a trigger cause?** 509-514  
*Mehmet Ali GÜLTEKİN*
- The relationship between disease prognosis and serum calcium and corrected calcium levels in COVID-19 patients** 515-523  
*İskender EKİNCİ, Hanişe ÖZKAN, Mitat BÜYÜKKABA, İrem KİRAC UTKU, Ahmet ÇINAR, Ramazan GÜVEN, Murat AKARSU, Abdulbaki KUMBASAR, Hafize UZUN, Ömür TABAK*

*Umut KOCABAŞ*

*Case Report*

**COVID-19 pneumonia with ARDS and secondary haemophagocytic lymphohistiocytosis: a case report** **533-540**

*Hasan ÖLMEZ, Mustafa TOSUN, Edhem ÜNVER, Nurten ARSLAN IŞIK*