



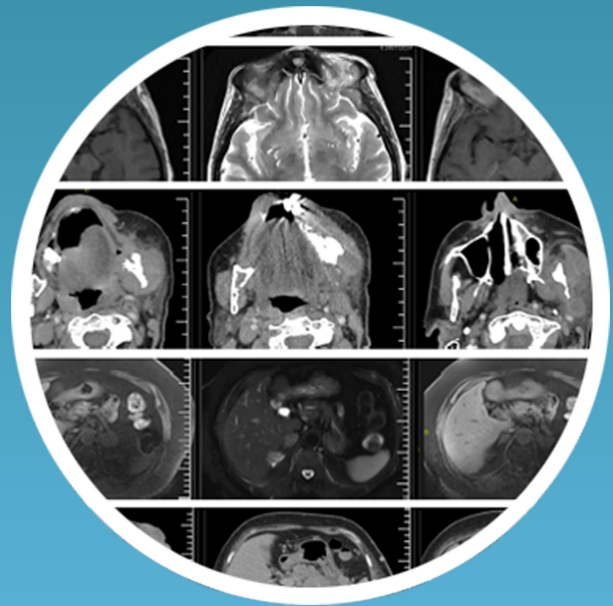
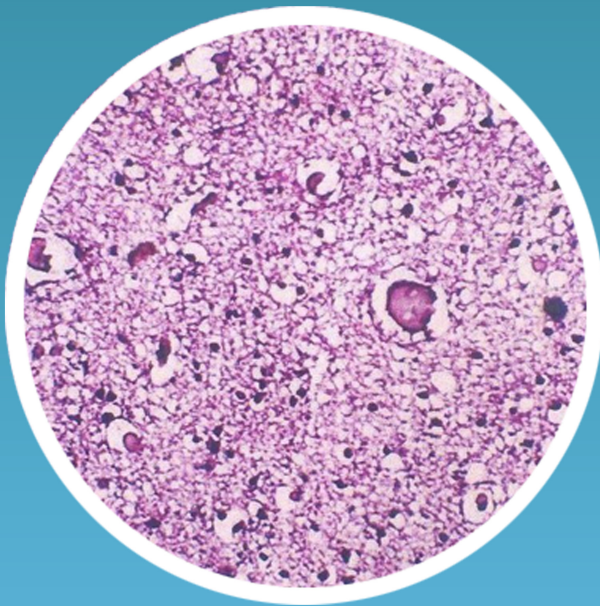
Volume 9 · Issue 6 · November 2023

e-ISSN: 2149-3189

---

---

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



---

Copyright © 2023 by Prusa Medical Publishing  
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: 12), Index Copernicus (ICV 2022: 100), EMBASE, ProQuest Central, EBSCO Academic Search Ultimate, ROAD, SciLit, MIAR (ICDS 2021: 3.8), J-Gate, SHERPA/RoMEO, BASE, EZB, CrossRef, JournalTOCs, WorldCat, TURK MEDLINE, Turkish Citation Index, EuroPub, OpenAIRE, ResearchGate, SOBIAD, Advanced Science Index, ScienceGate, OUCI, Publons, (Clarivate Web of Science)

## Publisher

The European Research Journal (EuRJ)  
Prusa Medical Publishing  
Konak Mh. Kudret Sk. Şenyurt İş Mrk. Blok No:6 İç kapı no: 3  
Nilüfer/Bursa-Turkey  
[info@prusamp.com](mailto:info@prusamp.com)

[www.dergipark.org.tr/eurj/](http://www.dergipark.org.tr/eurj/)  
<http://www.prusamp.com>



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 & Research Hospital,  
Department of Cardiovascular Surgery,  
Bursa, Turkey,

## **MANAGING EDITORS**

**Nizameddin KOCA, MD,**

Associate Professor,

University of Health Sciences, Bursa Şehir Training & Research Hospital,  
Department of Internal Medicine,  
Bursa, Turkey

**Soner CANDER, MD**

Professor,

Uludag University Medical School,  
Department of Endocrinology and Metabolism  
Bursa, Turkey

**Mesut ENGİN, MD,**

Associate Professor,

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

## **FOUNDING EDITOR**

**Rustem ASKIN, MD,**

Professor of Psychiatry

İstanbul Ticaret University, Department of Psychology  
İstanbul, Turkey

## **EDITORIAL ASSISTANT**

**Ugur BOLUKBAS**

## **EDITORS**

**Omer SENORMANCI, MD**

Professor,

Beykent University, Faculty of Arts-Sciences  
Department of Psychology,  
İstanbul, Turkey

**Mahmut KALEM, MD,**

Associate Professor,  
Ankara University Medical School,  
Department of Orthopedics and Traumatology,  
Ankara, Turkey

**Meliha KASAPOGLU AKSOY, MD**

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

**Burcu DİNÇGEZ, MD**

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

**Arda ISIK, MD**

Associate Professor,  
Medeniyet University School of Medicine,  
Department of General Surgery,  
Istanbul, Turkey

**Melih CEKINMEZ, MD**

Professor,  
University of Health Sciences, Adana City Training & Research Hospital,  
Department of Neurosurgery,  
Adana, Turkey

**Kadir Kaan OZSIN, MD**

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

**Alper KARAKUS, MD**

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

**Onur KAYGUSUZ, MD.,**

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

**Sayad KOCAHAN, PhD,**

Professor,  
University of Health Sciences, Gülhane Medical Faculty,  
Department of Physiology,  
Ankara, Turkey

**Gokhan OCAKOGLU, Ph.D.,**  
Associate Professor,  
Uludag University School of Medicine,  
Department of Biostatistics,  
Bursa, Turkey

**Nurullah DOGAN, MD,**  
Associate Professor,  
Doruk Nilüfer Hospital,  
Department of Radiology,  
Bursa, Turkey

## **INTERNATIONAL EDITORIAL BOARD MEMBERS**

**Ahmet KIZILAY, MD**  
Professor,  
Inönü University School of Medicine,  
Department of Otorhinolaryngology,  
Malatya, 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 and Pharmacy,  
Romania

**Elif EKINCI, MD**  
MBBS, FRACP, PhD  
University of Melbourne  
Department of Medicine,  
Melbourne, Australia

**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

**Kendra J. GRUBB, MD, MHA, FACC**

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

**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

**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**

Consultant Psychiatrist  
Central Queensland Hospital and Health Service,  
QLD, Australia

# Table of Contents

## Original Articles

- Interleukin-23 receptor gene polymorphisms in osteoporosis** 1277-1285  
*Firdevs ULUTAŞ, Ozan ÇETİN, Veli ÇOBANKARA*
- Assessment of the knowledge and use of hypertonic saline among doctors working in paediatrics departments of tertiary institutions in the five states of South-East Nigeria** 1286-1292  
*Ikenna NDU, Benedict EDELU, Kenechukwu ILOH, Obinna NDUAGUBAM, Chukwunonso Chigozie IHEJI, Chijioko EZEUDU, Joseph EZEUGU, Obianuju Ojinika IGBOKWE, Ogochukwu Nneka ILOH, Oluchi Mildred IZUKA, Linda NWOKEJÍ-ONWE, Ngozi ONU*
- Relationship between emotional intelligence and prenatal attachment levels of women with healthy and high-risk pregnancies** 1293-1302  
*Meltem MECDİ KAYDIRAK, Nil KÜÇÜK YÜCEYURT, Zuhale ERTÜRK Ümran OSKAY*
- Do anxiety levels and attitudes towards COVID-19 vaccines among healthcare workers change after COVID-19 vaccination?** 1303-1313  
*Hasan BALABAN, Meltem DEMİRDAĞ ÇEVİKKAN, Selin TANYERİ KAYAHAN*
- Renal artery stenosis: a single center experience** 1314-1320  
*Yavuz AYAR, Barış DÖNER, Suat AKGÜR, Mustafa İŞLEYEN, Gökhan OCAKOĞLU*
- Does prolonged QTc predict pulmonary involvement in COVID-19 patients?** 1321-1326  
*Aydın SARIHAN, Ömer Faruk RAHMAN, Serhat KORAN, Fatih AYTEMİZ, Çağdaş CAN, Fatih RAHMAN, Emre BULBUL*
- The relationship of epicardial fat and atrial high-rate episodes in patients with permanent pacemaker** 1327-1333  
*Yusuf HOŞOĞLU, Fatih AKKAYA, Abdulkadir KIRIŞ*
- Investigation of Lactobacillus spp. bacteria in infants consuming breast milk and formula and determination of some probiotic characters** 1334-1342  
*Tuğçe MUSLU ÇAĞAL, Esin KIRAY, Ergin KARİPTAŞ*
- Fast platelet recovery is associated with remission in primary immune thrombocytopenia** 1343-1349  
*Fatma GÜR HATİP, Demircan ÖZBALCI, Emine Güçhan ALANOĞLU, Ahmet Yunus HATİP*
- Investigation of the impact of radiotherapy on the shoulder joint by ultrasonography in breast cancer patients** 1350-1359  
*Serdar KARATAŞ, Banu ALICIOĞLU*
- Connective tissue disease related interstitial lung disease: a single center experience** 1360-1367  
*Tahsin GEZGİN, Nurhan ATILLA, Gözde YILDIRIM ÇETİN, Burcu AKKÖK, Fulsen BOZKUŞ, Betül KIZILDAĞ, Ali ÇULPAN, Hasan KAHRAMAN*
- Comparison of different plerixafor-based strategies for adequate hematopoietic stem cell collection in poor mobilizers** 1368-1379  
*Sevil SADRI, İpek YÖNAL HİNDİLERDEN, Yaşa Gül MUTLU, Tarık Onur TİRYAKI, Ali İhsan GEMİCİ, Huseyin Saffet BEKOZ, Ömür GÖKMEN SEVİNDİK, Fehmi HİNDİLERDEN, Sevgi KALAYOĞLU-BEŞİŞİK, Meliha NALÇACI, Deniz SARGIN*

- Differential diagnosis for multiple systemic inflammatory syndrome in children: clinical and laboratory clues** 1380-1391  
*Yüksel BICILIOĞLU, Tuğçe NALBANT, Alper ÇİÇEK, Esin ERGÖNÜL, Gamze GÖKALP, Gülsah DEMİR, Şefika BARDAK, Emel BERKSOY*
- Evaluation of pediatric patients installed due to acute gastroenteritis** 1392-1397  
*Özhan ORHAN, Mehmet BULUT*
- Determining the level of food safety awareness by nutritional literacy in health sciences faculty students** 1398-1410  
*Aliye Yaprak SEVİNÇ, Ülkü DEMİRCİ*
- Increasing self-protection skills of children staying in women's shelters with body safety training: a child sexual abuse prevention study** 1411-1419  
*Gülseren ÇITAK-TUNÇ, Dilek ESER, Fatma KILINÇ*
- Proprioception analysis of patients with anterior cruciate ligament reconstruction** 1420-1428  
*Nazım ERKURT, Mustafa YERLİ, Ali YÜCE, Tahsin Olgun BAYRAKTAR, Sevgi ATAR, Kaya TURAN, Haluk ÇABUK*
- The effect of hypertension in pregnancy and central nervous system anomalies on fetal brain development** 1429-1437  
*Mehmet ALBAYRAK, M. Faruk KÖSE, Banu ANLAR*
- Next-generation sequencing panel test results in pediatric patients with progressive familial intrahepatic cholestasis: a single-center experience** 1438-1443  
*Ali TOPAK*
- Unusual metastases of breast cancer: a single-center retrospective study** 1444-1453  
*Pınar ÖZDEMİR AKDUR, Nazan ÇİLEDAĞ*
- Evaluation of the clinical value of sodium examination in spot urine in patients presenting with acute heart failure while using SGLT2i – “SPOT HF STUDY”** 1454-1463  
*Onur ASLAN, Emre Emrah DEMİRCİ*
- Comparative retrospective analysis of patients with idiopathic normal pressure hydrocephalus and aqueductal web-related aqueductal stenosis.** 1464-1473  
*Alper TÜRKKAN, Pınar ESER OCAK, Oğuz ALTUNYUVA, Buket SÖNMEZ, Rifat ÖZPAR, Ahmet BEKAR*
- Comparison of manual lymphatic drainage massage and negative pressure massage therapy efficacy in lymphedema patients: a randomized controlled study** 1474-1482  
*Sedef ERSOY, Nur KESİKTAŞ, Büşra ŞİRİN, Nazlı Derya BUĞDAYCI, Halime KİBAR, Nurdan PAKER*
- Efficacy and safety outcomes of single-agent ibrutinib therapy in chronic lymphocytic leukemia and relapsed/refractory mantle-cell lymphoma** 1483-1492  
*İbrahim Ethem PINAR, Vildan OZKOCAMAN*



## Reviews

**Assessment of chiropractic intervention influence on pain and life quality in cervicogenic headache afflicted office workers: a review** 1493-1501  
*Seyfettin Emrecañ ILTER, Alper GÖKÇE*

**The possible effects of COVID-19 on the human reproductive system** 1502-1508  
*Tuğba DAĞDEVİREN, Hatice Kübra YOLCU*

**Integration of digitalization into occupational health and safety and its applicability: a literature review** 1509-1519  
*Cengiz AKYILDIZ*

## Case Report

**"Should the child be raised as male or female?" The evaluation and management of different causes of ambiguous genital appearance in children** 1520-1528  
*Salma AL KHANJARİ, Malak Saleem AL BALUSHİ, Ravi Prakash KANOJİA, Mohammed Jaffer AL SAJWANI*

**A case developing bilateral bullae due to COVID-19 infection and operated for recurrent pneumothorax** 1529-1532  
*Elçin ERSÖZ KÖSE, Kaan Ayberk BOYACIOĞLU, Sümeyye ALPARSLAN BEKİR, Cansel ATINKAYA BAYTEMİR, İrfan YALÇINKAYA*

**Case report of rare tissue injury and left arm dislocation after incorrect blood pressure measurement during clinical practice** 1533-1536  
*Özen Esra KARAMAN, Yüksel Duygu ALTIPARMAK*

**Cystic fibrosis diagnosed in a nineteen-year-old case** 1537-1540  
*Meltem YILMAZ, Levent MUTLU*

**Tracheobronchopathia osteochondroplastica limited to the trachea: a case report and review of literature** 1541-1544  
*Ahmet Bülent KARGI, Eray ATLI, Bilge KILIÇ, Pelin BİLGİN*