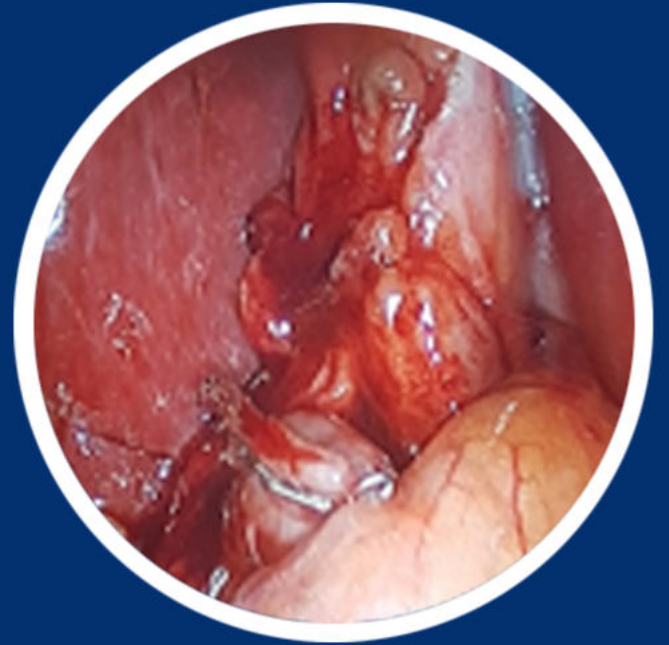


---

---

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





# 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: TR Index (ULAKBİM TR Dizin), Google Scholar, Index Copernicus (ICV 2018: 100), EMBASE, ProQuest Central, ROAD, SciLit, MIAR, J-Gate, SHERPA/RoMEO, BASE, EZB, CrossRef, JournalTOCs, WorldCat, TURK MEDLINE, Turkish Citation Index.

## 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/)



**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,

Assistant 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 OKTEN, 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 Physical Therapy & Rehabilitation,  
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 OKTEM, 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

Associate 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

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

- Comparison of neuroprotective effect of isoflurane and sevoflurane on cerebral ischemia** 373-379  
*Halil Erkan SAYAN, Vuslat MUSLU ERDEM, Şefika Gülsen KORFALI*
- The AKT antagonist AZD5363 suppresses features associated with cancer progression in human larynx cancer cells** 380-387  
*Fatma ŞANLI, Neslişah BARLAK, Ahsen KILINÇ, Özel ÇAPIK, Abdülmelik AYTATLI, Omer Faruk KARATAS*
- Is ischemia modified albumin a good marker in acute exacerbation of chronic obstructive pulmonary disease?** 388-394  
*Nalan OGAN, Tugay EVRİN, Tuba ÇANDAR, Aslıhan ALHAN, Meral GÜLHAN*
- The effect of pulmonary rehabilitation on dyspnea and factors related to dyspnea in lung transplantation candidates** 395-400  
*Esra PEHLİVAN, Arif BALCI, Lütfiye KILIÇ*
- The effect of teicoplanin coating on osteointegration of titanium screws: a biomechanical and histomorphometric study in a rabbit model** 401-408  
*Ali ÇATALBAŞ, Yavuz AKALIN, İsmail Gökhan ŞAHİN, Nazan ÇEVİK, Yüksel ÖZKAN, Alpaslan ÖZTÜRK*
- The relationship between postoperative atrial fibrillation after coronary artery bypass surgery and inflammation** 409-415  
*Burak ERDOLU, Ahmet Kağan AS*
- Examination of marital adjustment and sexuality in patients with schizophrenia** 416-421  
*Sebnem FETELİZADE, Salih Saygın EKER*
- Investigation of the relationship between atherosclerosis and interleukin-6 -174G/C gene polymorphism** 422-428  
*Umut Serhat SANRI*
- Evaluation of sleep quality and perceived stress of nursing students who are engaged in clinical practice based on their sleeping habits** 429-437  
*Makbule TOKUR KESGİN, Songül ÇAĞLAR*
- The impact of testosterone levels on J-wave patterns observed in healthy Turkish males** 438-448  
*Burak HÜNÜK*
- Retrospective review of children with vertigo: a 3-year experience** 449-456  
*Muhammet Furkan KORKMAZ, Arzu EKİCİ*
- The impact of transcutaneous posterior tibial nerve stimulation in patients with premature ejaculation** 457-463  
*Mustafa Murat AYDOS, İdris NAS, Efe ÖNEN*

**The effect of prenatal classes on pregnant women when deciding the delivery type and coping with labor pain** 464-469

*Berrin Göktuğ KADIOĞLU, Esra ÇINAR TANRIVERDİ, Elif Burcu GÖKTÜRK*

**Should anaesthesia method for prostate biopsy be the same for every patient? A randomised prospective study to determine the risk factors for pain** 470-478

*Sinan AVCI, Sedat ONER, Efe ÖNEN, Volkan ÇAĞLAYAN, Metin KILIÇ, Murat ŞAMBEL*

**Safe use of vascular stapling devices during laparoscopic cholecystectomy in cases with enlarged cystic canal** 479-484

*Yurdakul Deniz FIRAT, Mehmet Fatih EROL*

**Streamlined percutaneous atrial septal defect closure in adults** 485-491

*Selma ARI, Hasan ARI, Veysi CAN, Sencer ÇAMCI, Mehmet MELEK*

**The role of myocardial perfusion imaging in the identification of the obstructive coronary artery lesions: a tertiary cardiology center experience** 492-499

*Göktuğ SAVAŞ, Melek SÜZER ASLAN, Mehmet Fatih FIRAT, Sait TERZI*

**The functional and radiological comparison of the surgical treatment results of forearm diaphyseal fractures in adults treated with open reduction internal fixation and intramedullary locking nail** 500-507

*Nazan ÇEVİK, Yavuz AKALIN, Alpaslan ÖZTÜRK*

**Complications of labial minor salivary gland biopsy and comparison of complications in patients with and without primary Sjögren's syndrome** 508-516

*Koray AYAR, Ali DOĞAN, Adem KÜÇÜK, Recep TUNÇ*

**The relationship between prolactin and adipose tissue and metabolic parameters in patients with polycystic ovary syndrome / Sayfalar : 517-526 PDF** 517-526

*Gültekin ADANAS, Hilal Gülsm TURAN ÖZSOY*

## Case Report

**Biphasic anaphylaxis after use of foam polidocanol sclerotherapy** 527-529

*Deniz DEMİR, Nail KAHRAMAN, İbrahim Burak ŞEKER, Arif GUCU, Senol YAVUZ, Mehmet Tuğrul GÖNCÜ*

**A compelling case of postpartum symmetrical peripheral gangrene** 530-533

*Mehmet KIZILAY*