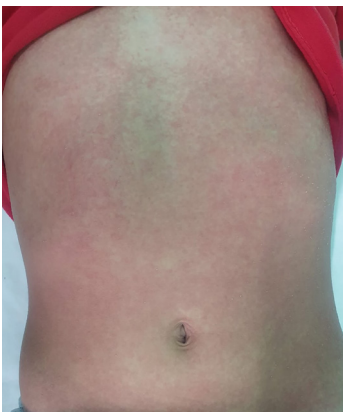




# ERCIYES MEDICAL JOURNAL



November 2022  
Volume 44 | Issue 6  
[erciyesmedj.com](http://erciyesmedj.com)

# ERCIYES MEDICAL JOURNAL

## Owner

On Behalf of Faculty of  
Medicine, Erciyes University  
Dr. Hızır Yakup AKYILDIZ



## Publisher

Kare Publishing

## Project Assistant

Eymen İSKENDER

## Graphics, Design

Neslihan ÇAKIR

## Contact

Address:

Göztepe Mahallesi,  
Fahrettin Kerim Gökay  
Caddesi, No: 200,  
Daire: 2, Göztepe,  
Kadıköy, İstanbul, Türkiye  
Phone: +90 216 550 61 11  
Fax: +90 216 550 61 12  
E-mail: kare@karepb.com

## Editorial Board

### Editor-in-Chief

**Mehmet DOĞANAY**

Department of Infectious Diseases, Lokman Hekim University Faculty of Medicine, Ankara, Türkiye

### Managing Editors

**Sami AKBÜLUT**

Inonu University Faculty of Medicine, Malatya, Türkiye

**Hamiyet ALTUNTAŞ**

Erciyes University Faculty of Medicine, Kayseri, Türkiye

### Editors

**Niyazi ACER**

Department of Anatomy, Istanbul Arel University Faculty of Medicine, Istanbul, Türkiye

**Sami AKBULUT**

Department of Surgery and Liver Transplant Institute, Inonu University Faculty of Medicine, Malatya, Türkiye

**Sibel AKIN**

Department of Geriatri, Internal Medicine, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Hamiyet ALTUNTAŞ**

Department of Medical Biology, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Mehmet AZİRET**

Department of General Surgery and Surgery of Gastroenterology, Sakarya University Faculty of Medicine, Sakarya, Türkiye

**Leslie BAILLIE**

Department of Microbiology, Welsh School of Pharmacy, Cardiff University, Cardiff, United Kingdom

**Arda BORLU**

Department of Public Health, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Marijan BOSEVSKI**

Department of Cardiology and Internal Medicine, University Stt Cyril and Methodius, Skopje, North Macedonia

**Felipe F. CASANUEVA**

Division of Endocrinology, Department of Medicine, Santiago de Compostela University, Complejo Hospitalario Universitario de Santiago, Santiago de Compostela, Spain

**Nesrin COBANOĞLU**

Department of Medical Ethics and History, Gazi University Faculty of Medicine, Ankara, Türkiye

**Ali ÇONER**

Department of Cardiology, Başkent University Hospital Alanya Application and Research Center, Antalya, Türkiye

**Gökçen DİNÇ**

Department of Microbiology, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Kürşat GÜNDOĞAN**

Division of Intensive Care, Department of Internal Medicine, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Nihal HATİPOĞLU**

Division of Pediatric Endocrinology, Department of Pediatrics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Eman A. HELMY**

Department of Microbiology and Nano-Biotechnology, AlAzhar University, Cairo, Egypt

**Darko KASTELAN**

Department of Internal Medicine-Endocrinology and Metabolism, Zagreb, Croatia

**Afşin Emre KAYIPMAZ**

Department of Emergency, Ankara City Hospital, Ankara, Türkiye

**Ainura KUTMANOVA**

Head of Department of Infectious Diseases, International School of Medicine, Bishkek, Kyrgyz Republic

**Nevzat Mehmet MUTLU**

Department of Intensive Care, Ankara City Hospital, Ankara, Türkiye

**Züleyha Cihan ÖZDAMAR KARACA**

Department of Endocrinology, Internal Medicine, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Öner ÖZDEMİR**

Division of Allergy and Immunology, Department of Pediatrics, Sakarya University Faculty of Medicine, Sakarya, Türkiye

**Seçil ÖZKAN**

Department of Public Health, Gazi University Faculty of Medicine, Ankara, Türkiye

**Deniz PEKER BARCLIFT**

Department of Pathology and Lab Medicine/ Hematopathology, Emory University Atlanta, USA

**Jordi RELLO**

Centro de Investigación Biomédica en Red (CIBERES), Vall d'Hebron Hospital Campus, Barcelona, Spain

**Jeyasakthy SANIASIAYA**

Department of Otorhinolaryngology, Universiti Malaya Faculty of Medicine, Kuala Lumpur, Malaysia

**Jafar SOLTANI**

Division of Infectious Diseases, Department of Pediatrics, Faculty of Medicine, Kurdistan University of Medical Sciences, Sanandaj, Iran

**Ekmek ÜNAL**

Division of Hematology, Department of Child Health and Diseases, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Alperen VURAL**

Department of Otolaryngology & Head and Neck Surgery, Cerrahpaşa Faculty of Medicine, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

**Statistical Editor**

**Duygu AYDIN HAKLI**

Department of Biostatistics, Okan University Faculty of Medicine, Istanbul, Türkiye

**Merve BAŞOL GÖKSÜLÜK**

Department of Biostatistics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Gözde ERTÜRK ZARARSIZ**

Department of Biostatistics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Osman DEMİR**

Department of Biostatistics, Tokat Gaziosmanpaşa University Faculty of Medicine, Tokat, Türkiye

**Dinçer GÖKSÜLÜK**

Department of Biostatistics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Ahmet ÖZTÜRK**

Department of Biostatistics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Gökmen ZARARSIZ**

Department of Biostatistics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

**Linguistic Editor**

**Maria L. GUGLIELMINO-İSKENDERÖĞLU**

Erciyes University Editing Office, Kayseri, Türkiye

**Former Editors**

**Bedri KANDEMİR, 1983–1985**

Retired Professor, Ondokuz Mayıs University, Samsun, Türkiye

**Aydın PAŞAOĞLU, 1986–1992**

Retired Professor, Gazi University, Ankara, Türkiye

**Eyüp S. KARAKAŞ, 1992–1994**

Retired Professor, Erciyes University, Kayseri, Türkiye

**Zeki YILMAZ, 1994–2000**

Department of General Surgery, Faculty of Medicine, Nuh Naci Yazgan University, Kayseri, Türkiye

**Cem SÜER, 2000–2012**

Department of Physiology, Faculty of Medicine, Erciyes University, Kayseri, Türkiye

**Salih ÖZGÖÇMEN, 2013–2016**

Retired Professor, Erciyes University, Kayseri, Türkiye

**M. Hakan POYRAZOĞLU, 2016–2017**

Department of Pediatrics, Faculty of Medicine, Erciyes University, Kayseri, Türkiye

### Contact

**Address:** Erciyes Üniv. Tıp Fakültesi Dekanlığı, Erciyes Tıp Dergisi Bürosu, 38039 Melikgazi, Kayseri, Türkiye

**Phone:** +90 352 207 66 66 (23008) **Fax:** +90 352 437 52 85

**E-mail:** erciyesmedj@gmail.com **Web address:** www.erciyesmedj.com

Yayın türü / Publication type: Yerel süreli / Bimonthly journal · Basım yeri / Printed at: Filmevi, Yüzyıl Matbaacılar Sitesi, No: 22, Bağcılar, İstanbul, Türkiye (+90-212-429 29 03) · Basım tarihi / Printing Date: Kasım 2022 / November 2022

## Advisory Board

**Ramin ABİRİ** - Department of Medical Microbiology School of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran

**Turgut ALKİBAY** - Department of Urology, Faculty of Medicine, Gazi University, Ankara, Türkiye

**Mustafa ARICI** - Department of Internal Medicine, Division of Nephrology, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Saadet ARSAN** - Department of Child Health and Diseases, Division of Neonatology, Faculty of Medicine, Ankara University, Ankara, Türkiye

**Semra ATALAY** - Department of Child Health and Diseases, Division of Cardiology, Faculty of Medicine, Ankara University, Ankara, Türkiye

**İlknur BOSTANCI** - Department of Pediatric Immunology and Allergy, Dr. Sami Ulus Obstetrics and Gynecology, Child Health and Diseases Hospital, Ankara, Türkiye

**Mehtap BULUT** - Department of Emergency Medicine, Faculty of Medicine, Medipol University, Istanbul, Türkiye

**H. Dwight CAVANAGH** - Department of Ophthalmology, Ut Southwestern Medical Center, Dallas, Texas, USA

**William A. COETZEE** - Director of Research Departments of Pediatrics, Neuroscience and Physiology and Biochemistry and Molecular Pharmacology, New York University, Langone Medical Center, New York, NY, USA

**Meltem ÇÖL** - Department of Public Health, Faculty of Medicine, Ankara University, Ankara, Türkiye

**Hüseyin DİNDAR** - Department of Pediatric Surgery, Faculty of Medicine, Ankara University, Ankara, Türkiye

**Şükrü EMRE** - Section of Transplantation and Immunology, Yale-New Haven Transplantation Center Department of Surgery, Yale University Faculty of Medicine, New Haven, USA

**Massimo FILIPPI** - Neuroimaging Research Unit, Institute of Experimental Neurology, and Department of Neurology, San Raffaele Scientific Institute, Vita-Salute San Raffaele University, Milan, Italy

**Krishna S. IYER** - Executive Director, Pediatric & Congenital Heart Surgery, Fortis Escorts Heart Institute, New Delhi, India

**Ramazan İDİLMAN** - Department of Internal Medicine, Division of Gastroenterology, Faculty of Medicine, Ankara University, Ankara, Türkiye

**Erkan İRİZ** - Department of Cardiovascular Surgery, Faculty of Medicine, Gazi University, Ankara, Türkiye

**Ellen C. JANTZEN** - The Children's Hospital of Philadelphia, Philadelphia, PA, USA

**Ali KILIÇ** - Department of Surgery, Director of Microsurgical training Lab, Division of Plastic Surgery, Ambulatory Clinical Director, Plastic Surgery, University of Alabama at Birmingham, USA

**Selçuk KIRLI** - Department of Psychiatry, Faculty of Medicine, Uludağ University, Bursa, Türkiye

**Ülker KOÇAK** - Department of Child Health and Diseases, Division of Hematology, Faculty of Medicine, Gazi University, Ankara, Türkiye

**Petek KORKUSUZ** - Department of Histology and Embryology, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Arif KÖKÇÜ** - Department of Obstetrics and Gynecology, Faculty of Medicine, Ondokuz Mayıs University, Samsun, Türkiye

**Sholpan KULZHANOVA** - Department of Infectious Diseases, Medical University Astana, Astana, Kazakhstan

**Yat Yin LAM** - Division of Cardiology, Department of Medicine and Therapeutics, Chinese University of Hong Kong, Hong Kong, PRC

**Douglas J. MATHISEN** - Division of Thoracic Surgery, Cardiothoracic Surgery, Boston: Massachusetts General Hospital, USA

**Tansu MERTOL** - Saudi Arabia Dammam University King Fahd Hospital, Dammam, KSA

**Muzaffer METİNTAŞ** - Department of Chest Diseases, Faculty of Medicine, Osmangazi University, Eskişehir, Türkiye

**Vildan MULLIN** - Division of Pain Management, Tallahassee Neurological Clinic, Tallahassee, FL, USA

**Rüstem NURTEN** - Department of Biophysics, Faculty of Medicine, Istanbul University, Istanbul, Türkiye

**Ertuğrul ÖZBUDAK** - Department of Genetics Albert Einstein College of Medicine Yeshiva University, New York, NY, USA

**Levent ÖZÇAKAR** - Department of Physical Medicine and Rehabilitation, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Hakan ÖZDOĞU** - Department of Internal Medicine, Division of Hematology, Dr. Turgut Noyan Research and Training Centre, Başkent University, Adana, Türkiye

**Mehmet Akif ÖZTÜRK** - Department of Internal Medicine, Division of Rheumatology, Faculty of Medicine, Gazi University, Ankara, Türkiye

**Gökhan ÖZYİĞİT** - Department of Radiation Oncology, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Hatice PAŞAOĞLU** - Department of Biochemistry, Faculty of Medicine, Gazi University, Ankara, Türkiye

**Bartu SARISÖZEN** - Department of Orthopedics and Traumatology, Faculty of Medicine, Uludağ University, Bursa, Türkiye

**Salih ŞANLIOĞLU** - Department of Medical Biology and Genetics, Faculty of Medicine, Akdeniz University, Antalya, Türkiye

**Haluk TOPALOĞLU** - Department of Child Health and Diseases, Division of Neurology, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Mehmet UNGAN** - Department of Family Medicine, Faculty of Medicine, Ankara University, Ankara, Türkiye

**Ata Nevzat YALÇIN** - Department of Infection Diseases, Faculty of Medicine, Akdeniz University, Antalya, Türkiye

**Bekir YAŞAR** - Department of General Surgery, Faculty of Medicine, Osmangazi University, Eskişehir, Türkiye

**Ömer YERÇİ** - Department of Pathology, Faculty of Medicine, Uludağ University, Bursa, Türkiye

**Okan Bülent YILDIZ** - Department of Internal Medicine, Division of Endocrinology and Metabolism, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

**Bayram YILMAZ** - Department of Physiology, Faculty of Medicine, Yeditepe University, Istanbul, Türkiye

**Mehmet ZARİFOĞLU** - Department of Neurology, Faculty of Medicine, Uludağ University, Bursa, Türkiye

**Fidel ZAVALA** - Department of Molecular Microbiology and Immunology, Bloomberg Faculty of Public Health, Johns Hopkins University, Baltimore, MD, USA

**Amer ZEİDAN** - Section of Hematology, Department of Internal Medicine, Yale University, New Haven, USA

## Contents

### Invited Review

An Overview of Imaging in Pediatric Spinal Infections

*Merve Yazol, E. Turgut Talı, Ankara, Türkiye*

535

### Narrative Review

Update on COVID-19 Co-infection

*Elif Şeker, Öner Özdemir, Sakarya, Türkiye*

540

### Original Articles

Prediction of COVID-19 Based on Genomic Biomarkers of Metagenomic Next-Generation Sequencing Data Using Artificial Intelligence Technology

*Sami Akbulut, Fatma Hilal Yağın, Cemil Çolak, Malatya, Türkiye*

544

The Relationship Between Nasal Obstruction Symptom Evaluation (NOSE) Scores and the Size and Location of Nasal Septal Perforations

*Mert Cemal Gökğöz, Hamdi Taşlı, Manisa, Kütahya, Türkiye*

549

The Overlap of Sarcopenia and Frailty: When Two Major Geriatric Syndromes Coincide

*Filiz Demirdağ, Esmâ Nur Kolbaşı, Gözde Balkaya Aykut, Özlem Pehlivan, Sema Uçak Basat, İstanbul, Türkiye*

555

Comparison of Emergency Department Patient Visits One Year Before and After the Start of the COVID-19 Pandemic

*Kadir Küçükceran, Mustafa Kürşat Ayrancı, Abdullah Sadık Girişgin, Sedat Koçak, Zerrin Defne Dünder, Konya, Türkiye*

560

A New Chest Radiography Clue to Predict Saphenous Vein Graft Failure

*Ertan Akbay, Ali Çoner, Sinan Akıncı, Adem Adar, Ali Rıza Demir, Begüm Uygur, Tonguç Saba, Ali Baran Budak, İbrahim Haldun Müderrisoğlu, Antalya, İstanbul, Ankara, Türkiye*

569

Factors Affecting Lipid Profile in Pediatric Palliative Care

*Nilgün Harputluoğlu, Ünsal Yılmaz, Tanju Çelik, Yiğithan Güzin, İzmir, Türkiye*

576

Causes of Isolated Mediastinal Lymphadenopathy: Analysis of 348 Cervical Mediastinoscopy Patients

*Yunus Aksoy, Volkan Erdoğan, Necati Çitak, Ece Yasemin Demirkol, Celal Buğra Sezen, Atilla Pekçolaklar, Özkan Saydam, Muzaffer Metin, Sakarya, İstanbul, Bursa, Türkiye*

581

Downregulation of glutaminase 1 (GLS1) Inhibits Proliferation, Clonogenicity, and Migration of Aggressive MDA-MB-231 Breast Cancer Cells by Increasing p21 and Decreasing Integrin-β1 Expression

*Sakine Akar, Hamiyet Donmez-Altuntas, Zuhal Hamurcu, Van, Kayseri, Türkiye*

587

The Effect of Sex-Specific Genetic Factors on the Host Immune Response to COVID-19: A Pilot Study

*Dilara Fatma Akın Balı, Tuğba Arslan Gülen, Esmâ Özmen, Zeynep Türe Yüce, Orhan Yıldız, Tuba Turunç, Üner Kayabaş, Niğde, Kayseri, Adana, Türkiye*

594

Evaluation of Subclinical Inflammation in Children with Premature Adrenarche

*Gözde Köylü, Nurullah Çelik, Halef Okan Doğan, Sivas, Türkiye*

603

608

### Brief Report

Paranasal Sinus Osteomas: Evaluation of Surgical Management with 13 Cases  
*İrfan Kara, Alperen Vural, Metin Ünlü, Kerem Kökoğlu, Kahramanmaraş, Kayseri, Türkiye*

612

### Case Reports

Complex Syndrome of Posterior Microphthalmos–Retinitis Pigmentosa–  
Foveoschisis–Optic Disc Drusen in a 13-year-old Boy  
*Banafsheh Kharrazi Ghadim, Mohammad Hosein Ahoor, Mohamad Reza Niyousha,  
Tabriz, Iran*

615

A Rare Complication of Acute Phlegmonous Gastritis: Right Gastroepiploic  
Artery Aneurysm and Abdominal Hemorrhage  
*Furkan Ufuk, Mustafa Çelik, Denizli, Türkiye*

618

A Critically Ill Patient with *Aspergillus Fumigatus* Sepsis-Related Ischemic Colitis  
*Türkay Akbaş, Gökhan Coşkun, Serkan Torun, Gül Akın, Ömer Önbaş, Düzce, Türkiye*

621

Severe Form of Scarlet Fever in a Child: A Case Report  
*İmdat Efendiyev, Anargul Mansurova, Semey, Republic of Kazakhstan*

624

### Letter to the Editor

Is Omicron Bringing the End of the Pandemic?  
*Mehmet Reşat Nas, Kemal Nas, Mehmet Faruk Geyik, Ankara, Sakarya, Kocaeli, Türkiye*

625

### 44<sup>th</sup> Volume Index

Reviewer List