

**JOURNAL OF** 

# CLINICAL PRACTICE & RESEARCH

Formerly Erciyes Medical Journal

#### **ORIGINAL ARTICLES**

CD19 Deficiency Leads to Dysregulation of Phosphoinositide 3-Kinase-Protein Kinase B (PI3K/AKT) and Nuclear Factor Kappa B (NF $_{\kappa}$ B) Pathways: Implications for B-Cell Maturation and Immune Function Küççüktürk S, et al.

Passive Exposure to Tobacco Smoke Attitude Scale: A Scale Development Study in High School Students Zengin S, et al.

Oleuropein Administration Alleviates Nerve Damage Induced by Sciatic Nerve Constriction Injury in Rats Akgül S, et al.

Does Preconditioning with Transcutaneous Electrical Nerve Stimulation (TENS) Increase Transverse Rectus Abdominis Musculocutaneous (TRAM) Flap Viability? An Experimental Rat Model Study Akyol G, et al.

The Effect of Retinoic Acid and Bevacizumab on Ovarian Hyperstimulation Syndrome *Ozdemir F, et al.* 



# **Editorial Board**

# Editor-in-Chief

# Kürşat GÜNDOĞAN

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

# **Managing Editors**

# Ahmet EKEN

Department of Immunology and Microbiology, University of Colorado Anschutz Medical Campus Aurora, CO, USA

# Aykut ÖZDARENDELİ

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

# Mehmet İlhan ŞAHİN

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

#### Halil TEKİNER

Department of the History of Medicine and Medical Ethics, Erciyes University Faculty of Medicine, Kayseri, Türkiye

# Avsegül ULU KILIC

Department of Infectious Disease and Clinical Microbiology, Erciyes University Faculty of Medicine, Kayseri, Türkiye

#### Arzu Hanım YAY

Department of Histology and Embryology, Erciyes University, Faculty of Medicine, Kayseri, Türkiye

# Mehmet Fatih YETKİN

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

#### **Editors**

#### Sami AKBULUT

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

#### Recep AKSU

Department of Anesthesiology and Reanimation, Erciyes University Faculty of Medicine, Kayseri, Türkiye

# Mehmet AZİRET

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

# Duygu AYDIN HAKLI

Department of Biostatistics, International Faculty of Medicine, University of Health Sciences, istanbul, Türkiye

# Tristan BARBER

Consultant Physician. Department of HIV Medicine, Royal Free London NHS Foundation Trust Institute for Global Health, University College London, London, UK

# Merve BAŞOL GÖKSÜLÜK

Department of Biostatistics, Sakarya University Faculty of Medicine, Sakarya, Türkiye

# Mile BOSILKOVSKI

University Clinic for Infectious Diseases and Febrile Conditions, Medical Faculty, University "Ss.Cyril and Methodius", Skopje, North Macedonia

# Nesrin ÇOBANOĞLU

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

#### Ali CONER

Department of Cardiology, Alanya Alaaddin Keykubat University, Antalya, Türkiye

#### Esra DEMİRC

Department of Child and Adolescent Psychiatry, Erciyes University Medicine Faculty, Kayseri, Türkiye

# Gökçen DİNÇ

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

# Hasan DURMUŞ

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

#### Oğuzhan Sıtkı DİZDAR

Department of Internal Medicine and Clinical Nutrition Unit, University of Health Sciences, Kayseri City Training and Research Hospital, Kayseri, Türkiye

#### Abdulkerim EROĞLU

Department of Molecular and Structural Biochemistry, North Carolina State University. North Carolina, USA

#### Gözde ERTÜRK ZARARSIZ

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

# Firuzan FIRAT ÖZER

Department of Geriatrics, Kayseri City Hospital, Kayseri, Türkiye

# Dinçer GÖKSÜLÜK

Department of Biostatistics, Sakarya University Faculty of Medicine, Sakarya, Türkiy

# Murat GÜLTEKİN

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

#### Volkan HANCI

Department of Anaesthesiology and Reanimation, Dokuz Eylül University Faculty of Medicine, İzmir, Türkiye

# Funda İPEKTEN

Department of Biostatistics, Faculty of Medicine, Adıyaman University, Adıyaman, Türkiye

#### İbrahim KARAMAN

Department of Orthopaedics and Traumatology, Erciyes University Medical Faculty, Kayseri, Türkiye

# Afşin Emre KAYIPMAZ

Department of Emergency, Ankara City Hospital, Ankara, Türkiye

# Demet KARTAL

Department of Dermatology and Venereology, Erciyes University Faculty of Medicine, Kayseri, Türkiye

# İsmail KOÇYİĞİT

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

### Meda KONDOLOT

Department of Pediatrics, University of Health Sciences, Ankara Etlik City Hospital, Ankara, Türkive





# **Editorial Board**

# Fatma LATİFOĞLU

Department of Biomedical Engineering, Erciyes University, Kayseri, Türkiye

# Nevzat Mehmet MUTLU

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

# Mehtap NİSARİ

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

### Besim ÖĞRETMEN

Department of Biochemistry and Molecular Biology, Medical University of South Carolina, Charleston, USA

# İzzet ÖKÇESİZ

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

#### Ebru ÖZTÜRK

Department of Biostatistics, Faculty of Medicine, Hacettepe University, 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

# İbrahim S. TUNA

Department of Radiology, College of Medicine, University of Florida, Gainesville, USA

#### Sevin TURCAN

Department of Neurology, Heidelberg University Hospital/National Center for Tumor Diseases, Heidelberg, Germany

# Metin ÜNLÜ

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

# Alperen VURAL

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

#### Gökmen ZARARSIZ

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

#### Thomas R. ZIEGLER

Division of Endocrinology, Metabolism, and Lipids, Department of Medicine, Emory University School of Medicine, Atlanta, USA

#### Statistical Editor

#### Ahmet ÖZTÜRK

Department of Biostatistics, Erciyes University Faculty of Medicine, 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, Nuh Naci Yazgan University Faculty of Medicine, Kayseri, Türkiye

# Cem SÜER, 2000-2012

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

# Salih ÖZGÖÇMEN, 2013-2016

Retired Professor, Erciyes University, Kayseri, Türkiye

# M. Hakan POYRAZOĞLU, 2016-2017

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

# Mehmet DOĞANAY, 2018-2023

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

# **Publishing Coordinator**

Emel TORUN / E-mail: jclinpr@gmail.com

#### Contact

Address: Erciyes Üniv. Tip Fakültesi Dekanlığı, Journal of Clinical Practice and Research Bürosu, 38039 Melikgazi, Kayseri, Türkiye Phone: +90 352 207 66 66 (23008) Fax: +90 352 437 52 85 E-mail: jclinpr@gmail.com Web address: www.jcpres.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: Mart 2025 / March 2025

# **Advisory Board**

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

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

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

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

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

ilknur 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, Medipol University Faculty of Medicine, İstanbul, Türkiye

Felipe F. CASANUEVA - Department of Medicine, Endocrinology Division, Santiago de Compostela University, Complejo Hospitalario Universitario de Santiago, Santiago de Compostela, Spain

H. Dwight CAVANAGH - Department of Ophtalmology, 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, Ankara University Faculty of Medicine, Ankara, Türkiye

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

**Dechun FENG** - Laboratory of Liver Diseases, National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health, 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 - Division of Gastroenterology, Department of Internal Medicine, Ankara University Faculty of Medicine, Ankara, Türkiye

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

**Ellen C. JANTZEN -** The Childrens'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, Uludağ University Faculty of Medicine, Bursa, Türkiye

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

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

Arif KÖKÇÜ - Department of Obstetrics and Gynecology, Ondokuz Mayıs University Faculty of Medicine, 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, Damman, KSA

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

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





# **Advisory Board**

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

Mehmet Ruhi ONUR - Department of Radiology, Hacettepe University Faculty of Medicine, Ankara, 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, Hacettepe University Faculty of Medicine, Ankara, Türkiye

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

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

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

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

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

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

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

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

**Steven H. YALE** - Department of Internal Medicine, University of Central Florida College of Medicine, Florida, USA

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

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

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

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

Mehmet ZARİFOĞLU - Department of Neurology, Uludağ University Faculty of Medicine, 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

# Abstracting & Indexing

Web of Science-Emerging Sources Citation Index, Web of Science-Current Contents Clinical Medicine, TUBITAK ULAKBIM TR Index, Türk Medline, Embase, DOAJ, HINARI, EBSCO, WorldCat, ProQuest, PharmaPendium, CAS, CABI, CINAHL, GALE, Global Health, Scope Database, MIAR, TurkMedline, Scilit, Open Ukrainian Citation Index (OUCI), Asian Science Citation Index (ASCI), Research4Life.

# Owner

On Behalf of Faculty of Medicine, Erciyes University, Dr. İsmail DURSUN

Publisher: KARE Publishing; Project Assistant: Ece Hanne ŞİMŞEK; Graphics, Design: Neslihan ÇAKIR 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

# **Contents**

# **Narrative Review**

Sepsis: An Overview of Current Therapies and Future Research Demir O, Yöndem ÖZ, Yüksel BE, Doğanay M; Ankara, Türkiye

# **Original Articles**

CD19 Deficiency Leads to Dysregulation of Phosphoinositide 3-Kinase-Protein Kinase B (PI3K/AKT) and Nuclear Factor Kappa B ( $NF-\kappa B$ ) Pathways: Implications for B-Cell Maturation and Immune Function

Küççüktürk S, Karaselek MA, Duran T, Reisli İ; Karaman, Konya, Türkiye

Passive Exposure to Tobacco Smoke Attitude Scale: A Scale Development Study in High School Students

Zengin S, Tokur Kesgin M; Bolu, Türkiye

Oleuropein Administration Alleviates Nerve Damage Induced by Sciatic Nerve Constriction Injury in Rats

Akgül S, Yılmaz HF, Bozkurt-Girit Ö; Aydın, Türkiye

Does Preconditioning with Transcutaneous Electrical Nerve Stimulation (TENS) Increase Transverse Rectus Abdominis Musculocutaneous (TRAM) Flap Viability? An Experimental Rat Model Study

Akyol G, Özyazgan İ, Karabulut D, Öztürk TM; Çorum, Kayseri, Türkiye

The Effect of Retinoic Acid and Bevacizumab on Ovarian Hyperstimulation Syndrome Ozdemir F, Acmaz G, Yay A, Akgun H, Mat Cengiz O, Zararsız G, Acmaz B, Muderris I, Muhtaroglu S, Karaman E, Sakarya K; Kayseri, Niğde, Türkiye

The Effects of Juglone on Cell Proliferation and Insulin-Like Growth Factor I Receptor/ Phosphoinositide 3-Kinase/p85 (IGF-IR/PI3K/p85) Signaling Pathway in Pancreatic Cancer

Dursunoğlu D, Arikoğlu H, Erkoç Kaya D, Göktürk F; Konya, Türkiye

BK Virus Infection and Risk Factors in Kidney Transplant Recipients

Akcay OF, Demirezen A, Cagdeser C, Yildirim S, Yigit HS, Helvaci O, Erten Y, Guz G; Ankara, Türkiye

Effect of Warm Foot Bath on Sleep Quality and Comfort Level of the Elderly: Randomized Controlled Study

Durgun H, Kaya H; Ordu, İstanbul, Türkiye

Consultations for Obstetric and Gynecological Problems in the Pediatric Population in a Tertiary Care Hospital Setting

Yılmaz E, Tezol Ö, Durak F, Aytan H; Mersin, Türkiye

Effects of Vitamin D, Infliximab, and Leflunomide on Isolated Rat Striated Muscle with Electrical and Mechanical Stimuli in Statin-Induced Rhabdomyopathy

Altıntaş Aykan D, Yaman S, Seyithanoğlu M, Kazancı Ü, Özcan F, Aykan AÇ; Kahramanmaraş, Türkiy

Impact of Induction Therapy on Preventing Early Acute Kidney Allograft Rejection: A Single-Center Experience Study

Kumru G, Eyupoglu S, Ors Sendogan D, Kocaay AF, Tuzuner A, Sengul S, Keven K; Ankara, Türkiye

The Sitting Position in Neurosurgery: Is it Safe?

Şahin A, Durmuş NA, Oral Ş, Ulutabanca H, Küçük A, Seçkin Pehlivan S, Bayram A, Koç RK; Kayseri, Türkiye CLINICAL
PRACTICE &
RESEARCH

99

111

119

130

140

148

156

165

173

183

194

203

211

A-V



# **Brief Report**

In vitro Antimicrobial Activities of Temporin A and Apidaecin B Peptides Against Clinical Strains Isolated from Blood Culture

Yayla İ, Aydoğan O, Kılıç A, Sirekbasan L, İstanbullu Tosun A, Kocazeybek B, Dinç HÖ;

İstanbul, Türkiye

