

Founder

Hilmi KUMCUOĞLU

Owner

Tepecik Education and Research Hospital chief physician Mustafa EMİROĞLU

Editor in Chief

Yusuf Özlem İLBEY

Tepecik Education and Research Hospital, Urology özlemyusufilbey@hotmail.com ORCID: 0000-0002-1483-9160

Associate Editors

Mustafa EMİROĞLU

Tepecik Education and Research Hospital, General Surgery

musemiroglu@gmail.com ORCID: 0000-0002-4968-2570

Defne ENGÜR

Tepecik Education and Research Hospital, Newborn

Clinic

defneka@hotmail.com

ORCID: 0000-0003-0405-085X

Pınar GENÇPINAR

Child Health and Diseases, Child Neurology

Specialist

drpinargencpinar@yahoo.com ORCID: 0000-0002-3223-5408

Mehmet Zeynel KESKİN

Tepecik Education and Research Hospital, Urology

zeynel_akd@hotmail.com ORCID: 0000-0002-9206-5586

Gürsoy PALA

Tepecik Education and Research Hospital, Gynecology and Obstetrics Clinic gursoypala@yahoo.com ORCID: 0000-0003-1569-4474

Cenk SARI

Tepecik Education and Research Hospital, Cardiology drcenksari@gmail.com ORCID: 0000-0003-1115-493X

Administrative Office

T.C. Sağlık Bakanlığı İzmir Tepecik E.A.H. Güney Mahallesi, 1140/1. Sk. No:1, 35180 Yenişehir/Konak/İzmir

Language Editors

Gürkan KAZANCI - Ümit ÖZKAN

Graphics

Arzu Deniz ÖLMEZ - Ayfer ERYEŞİL

Publication Coordinator

Hira Gizem FİDAN

Publication Type: Periodical

Publisher

LOGOS YAYINCILIK TİC. A.Ş.

Yıldız Posta Cad. Sinan Apt. No. 36 D. 63/64 34349 Gayrettepe-İstanbul



Tel Faks E-mail web

el : (0212) 288 05 41

: (0212) 211 61 85 : logos@logos.com.tr : www.logosyayincilik.com

Tepecik Eğitim ve Araştırma Hastanesi Dergisi

The Journal of Tepecik Education and Research Hospital

Volume 31 Number 3 August 2021

The journal of Tepecik Education and Research Hospital is the official journal of the Izmir Tepecik Education and Research Hospital.

It is published three times a year (April, August, December).

TERH Journal is an open Access, free and peer-reviewed journal and indexed in EBSCO (2020), Index Copernicus and ULAKBİM TR Dizin.

©All rights are reserved. Rights to the use and reproduction, including in the electronic media, of all communications, papers, photographs and illustrations appearing in this journal belong to the Journal of Tepecik Education and Research Hospital. Reproduction without prior written permission of part or all of any material is forbidden. The journal complies with the Professional Principles of the Press.

This journal is printed on acid-free paper

Published with the contributions of ESRA ARAÇ Co.



Previous Editors

Işın YAPRAK Ragıp KAYAR Cengiz Özbek A. Gülden DİNİZ

Advisory Board

Zehra Hilal ADIBELLI

University of Health Sciences Bozyaka Health Application and Research Center, Radiology Clinic, Assoc. Prof. MD., Izmir

Harun AKAR

University of Health Sciences Tepecik Health Application and Research Center, Internal Medicine Clinic, Prof. MD., Izmir

Cezmi AKKIN

Ege University Faculty of Medicine, Department of Ophthalmology, Prof. MD., Izmir

Gül AKTAN

Ege University Faculty of Medicine, Department of Pediatrics, Prof. MD., Izmir

Ekin Özgür AKTAŞ

Ege University Faculty of Medicine, Department of Forensic Medicine, Prof. MD., Izmir

Safiye AKTAŞ

Dokuz Eylül Üniversity, Institute of Oncology, Department of Basic Oncology, Prof. MD., Izmir

Demet ALAYGUT

University of Health Sciences Tepecik Health Application and Research Center, Pediatric Nephrology Clinic, Assoc. Prof. MD., Izmir

Ayşe Berna ANIL

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Prof. MD., Izmir

Murat ANIL

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Fazil APAYDIN

Ege University Faculty of Medicine, Department of Otorhinolaryngology, Prof. MD., Izmir

Ilker Burak ARSLAN

University of Health Sciences Tepecik Health Application and Research Center, Otorhinolaryngology Clinic, Assoc. Prof. MD., Izmir

Suna ASİLSOY

Dokuz Eylül University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Allergy, Prof. MD., Izmir

Arzu AVCI

Izmir Atatürk Training and Research Hospital, Medical Pathology Clinic, Assoc. Prof. MD., Izmir

Cengiz AYDIN

University of Health Sciences Tepecik Health Application and Research Center, General Surgery Clinic, Prof. MD., Izmir

Semin AYHAN

Celal Bayar University Faculty of Medicine, Department of Medical Pathology, Prof. MD., Manisa

Ali Rahmi BAKİLER

University of Health Sciences Tepecik Health Application and Research Center, Pediatric Cardiology Clinic, Prof. MD., Izmir

Oya BALTALI

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Maşallah BARAN

Katip Çelebi University, Faculty of Medicine, Department of Pediatrics, Division of Pediatric Castroenterology, Assoc. Prof. MD., Izmir

Selen BAYRAKTAROĞLU

Ege University Faculty of Medicine, Department of Radiology, Assoc. Prof. MD., Izmir

Oktay BİLGİ

University of Health Sciences Bozyaka Health Application and Research Center, Hematology Clinic, Assoc. Prof. MD., Izmir

Giray BOZKAYA

University of Health Sciences Bozyaka Health Application and Research Center, Pediatric Genetics Clinic, Assoc. Prof. MD., Izmir

Pervin BOZKURT

Istanbul University Cerrahpasa Medical Faculty, Department of Anesthesiology and Reanimation, Prof. MD., Istanbul

Demet CAN

Balikesir University Faculty of Medicine, Department of Pediatrics, Prof. MD., Balikesir

Gül CANER MERCAN

University of Health Sciences Tepecik Health Application and Research Center, Otorhinolaryngology Clinic, Assoc. Prof. MD., Izmir

Cengiz CEYLAN

University of Health Sciences Tepecik Health Application and Research Center, Hematology Clinic, Assoc. Prof. MD., Izmir

Izzetiye Ebru ÇAKIR

Katip Çelebi University Faculty of Medicine, Department of Medical Pathology, Prof. MD., Izmir

Şebnem ÇALKAVUR

University of Health Sciences Dr Behçet Uz Health Application and Research Center, Neonatology Clinic, Assoc. Prof. MD., Izmir

Taner ÇAMSARI

Dokuz Eylül University Faculty of Medicine, Department of Nephrology, Assoc. Prof. MD., Izmir

Gönül CATLI

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Seçil ARSLANSOYU ÇAMLAR

University of Health Sciences Tepecik Health Application and Research Center, Pediatric Nephrology Clinic, Assoc. Prof. MD. Izmir

Tanju ÇELİK

University of Health Sciences Dr Behçet Uz Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Ayfer ÇOLAK

University of Health Sciences Tepecik Health Application and Research Center, Medical Biochemistry Clinic, Assoc. Prof. MD., Izmir

Hülya ÇOLAK

University of Health Sciences Tepecik Health Application and Research Center, Nephrology Clinic, Assoc. Prof. MD., Izmir

Ibrahim ÇUKUROVA

University of Health Sciences Tepecik Health Application and Research Center, Otorhinolaryngology Clinic, Prof. MD., Izmir

Füsun DEMİRÇİVİ ÖZER

University of Health Sciences Tepecik Health Application and Research Center, Neurosurgery Clinic, Prof. MD., Izmir

Tevfik DORAK

Kingston University Faculty of Science, Engineering and Computing, Prof. MD., London, UK

Bumin Nuri DÜNDAR

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Endocrinology, Prof. MD., Izmir



Kayı ELİAÇIK

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD. Izmir

Nuket ELİYATKIN

Adnan Menderes University Faculty of Medicine, Department of Medical Pathology, Assoc. Prof. MD., Aydin

Hülya ELLİDOKUZ

Dokuz Eylül University Faculty of Medicine, Department of Public Health, Prof. MD., Izmir

Mustafa EMİROĞLU

University of Health Sciences Tepecik Health Application and Research Center, General Surgery Clinic, Assoc. Prof. MD., Izmir

Erhan ESER

Celal Bayar University Faculty of Medicine, Department of Public Health, Prof. MD., Manisa

Demet ETİT

Katip Çelebi University Faculty of Medicine, Department of Medical Pathology, Assoc. Prof. MD., Izmir

Ferah GENEL

University of Health Sciences Dr Behçet Uz Health Application and Research Center, Pediatric Immunology and Allergy Clinic, Prof. MD., Izmir

Pınar GENÇPINAR

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Neurology, Assoc. Prof. MD., Izmir

Ahmet GÜL

Istanbul University Istanbul Medical Faculty, Department of Rheumatology, Prof. MD., Istanbul

İbrahim GÜLHAN

University of Health Sciences Tepecik Health Application and Research Center, Obstetrics and Gynecology Clinic, Assoc. Prof. MD., Izmir

Mehmet HELVACI

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Prof. MD., Izmir

Münevver HOŞGÖR

University of Health Sciences Dr Behçet Uz Health Application and Research Center, Pediatric Surgery Clinic, Prof. MD., Izmir

Yusuf Özlem İLBEY

University of Health Sciences Tepecik Health Application and Research Center, Urology Clinic, Prof. MD., Izmir

Tolga **i**NCE

Dokuz Eylül University Faculty of Medicine, Department of Pediatrics, Division of Social Pediatrics, Assoc. Prof. MD., Izmir

Sema KALKAN UÇAR

Ege University Faculty of Medicine, Department of Pediatrics, Prof. MD.. Izmir

Ali KANIK

University of Health Sciences Tepecik Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Levent KARAPINAR

University of Health Sciences Tepecik Health Application and Research Center, Orthopedics and Traumatology Clinic, Assoc. Prof. MD., Izmir

Belde KASAP DEMİR

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Prof. MD., Izmir

Ahmet KAYA

University of Health Sciences Tepecik Health Application and Research Center, Orthopedics and Traumatology Clinic, Assoc. Prof. MD., Izmir

Dayimi KAYA

Dokuz Eylül University Faculty of Medicine, Department of Cardiology, Prof. MD., Izmir

Ragip KAYAR

General Surgery, Assoc. Prof. MD., Izmir

Aykut KEFİ

Dokuz Eylül University Faculty of Medicine, Department of Urology, Prof. MD., Izmir

Mehmet Zeynel KESKİN

University of Health Sciences Tepecik Health Application and Research Center, Urology Clinic, Assoc. Prof. MD., Izmir

Yasemin KILIÇ ÖZTÜRK

University of Health Sciences Tepecik Health Application and Research Center, Family Medicine Clinic, Assoc. Prof. MD., Izmir

Barış KILIÇASLAN

University of Health Sciences Tepecik Health Application and Research Center, Cardiology Clinic, Assoc. Prof. MD., Izmir

Cenk KIRAKLI

University of Health Sciences Suat Seren Pulmonary Diseases and Thoracic Surgery Health Application and Research Center, Pulmonary Diseases Clinic, Assoc. Prof. MD., Izmir

Tayfun KİRAZLI

Ege University Faculty of Medicine, Department of Otorhinolaryngology, Prof. MD., Izmir

Gökhan KÖYLÜOĞLU

Katip Çelebi University Faculty of Medicine, Department of Pediatric Surgery, Prof. MD., Izmir

Şükran KÖSE

University of Health Sciences Tepecik Health Application and Research Center, Infectious Diseases Clinic, Prof. MD., Izmir

Semra HIZ

Dokuz Eylül University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Neurology, Prof. MD., Izmir

Nilgün KÜLTÜRSAY

Ege University Faculty of Medicine, Department of Pediatrics, Division of Neonatology, Prof. MD., Izmir

Haluk MERGEN

University of Health Sciences Tepecik Health Application and Research Center, Family Medicine Clinic, Prof. MD., Izmir

Timur MESE

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Pediatric Cardiology Clinic, Assoc. Prof. MD., Izmir

Fatma MUTLUBAŞ

University of Health Sciences Tepecik Health Application and Research Center, Pediatric Nephrology Clinic, Prof. MD., Izmir

Nazmi NARİN

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Cardiology, Prof. MD., Izmir

Nihal OLGAÇ DÜNDAR

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Neurology, Prof. MD., Izmir

Nur OLGUN

Dokuz Eylül University Institute of Oncology, Department of Clinical Oncology, Prof. MD., Izmir

Mustafa OLGUNER

Dokuz Eylül University Faculty of Medicine, Department of Pediatric Surgery, Prof. MD., Izmir

Özgür OLUKMAN

Cigli Training and Research Hospital, Neonatology Clinic, Assoc. Prof. MD., Izmir

Resmiye ORAL

University of Lowa Stead Family, Department of Pediatrics, Prof. MD., USA

Yeşim OYMAK

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Pediatric Hematology and Oncology Clinic, Assoc. Prof. MD., Izmir

Dilek ÖNCEL

University of Health Sciences Tepecik Health Application and Research Center, Radiology Clinic, Assoc. Prof. MD., Izmir



Mehmet Yekta ÖNCEL

University of Health Sciences Tepecik Health Application and Research Center, Neonatology Clinic, Assoc. Prof. MD., Izmir

Hale ÖREN

Dokuz Eylül University Faculty of Medicine, Department of Pediatric Hematology and Oncology, Prof. MD., Izmir

Öner ÖZDOĞAN

University of Health Sciences Tepecik Health Application and Research Center, Cardiology Clinic, Assoc. Prof. MD., Izmir

Erdener ÖZER

Dokuz Eylül University Faculty of Medicine, Department of Medical Pathology, Prof. MD., Izmir

Mehmet ÖZEREN

University of Health Sciences Tepecik Health Application and Research Center, Obstetrics and Gynecology Clinic, Prof. MD., Izmir

Nuray ÖZGÜLNAR

Istanbul University Istanbul Medical Faculty, Department of Public Health, Prof. MD., Istanbul

Deniz ÖZTEKİN

University of Health Sciences Tepecik Health Application and Research Center, Obstetrics and Gynecology Clinic, Assoc. Prof. MD., Izmir

Mehmet Burak ÖZTOP

Izmir Provincial Health Directorate, General Surgery Specialist, MD., Izmir

Emel Ebru PALA

University of Health Sciences Tepecik Health Application and Research Center, Medical Pathology Clinic, Assoc. Prof. MD., Izmir

Ibrahim PİRİM

Izmir Katip Çelebi University Faculty of Medicine, Department of Medical Biology and Genetics, Prof. MD., Izmir

Münire Ece SABAH

Ege University Faculty of Dentistry, Department of Orthodontics, Prof. MD., Izmir

Muzaffer SANCI

University of Health Sciences Tepecik Health Application and Research Center, Obstetrics and Gynecology Clinic, Assoc. Prof. MD., Izmir

Erkin SERDAROĞLU

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Pediatric Nephrology Clinic, Prof. MD., Izmir

Sevil SAYHAN

University of Health Sciences Tepecik Health Application and Research Center, Medical Pathology Clinic, Assoc. Prof. MD., Izmir

Caroline SEWRY

UCL Queen Square Institute of Neurology, Prof. MD., United Kingdom

Suheyla SÜRÜCÜOĞLU

Celal Bayar University Faculty of Medicine, Department of Medical Microbiology, Prof. MD., Manisa

Aydın ŞENCAN

Celal Bayar University. Faculty of Medicine, Department of Pediatric Surgery, Prof. MD., Manisa

Erkan SENGÜL

University of Health Sciences Derince Health Application and Research Center, Nephrology Clinic, Assoc. Prof. MD., Kocaeli

Mehmet ŞENEŞ

University of Health Sciences Ankara Health Application and Research Center, Medical Biochemistnology Clinic, Assoc. Prof. MD., Ankara

Mehmet TANRISEV

University of Health Sciences Tepecik Health Application and Research Center, Nephrology Clinic, Assoc. Prof. MD. Izmir

Ercüment TARCAN

Izmir Ataturk Training and Research Hospital, General Surgery Clinic, Assoc. Prof. MD., Izmir

Ali TAYLAN

University of Health Sciences Tepecik Health Application and Research Center, Rheumatology Clinic, Assoc. Prof. MD., Izmir

Hasan TEKGÜL

Ege University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Neurology, Prof. MD., Izmir

Hasan TEZER

Pediatric Infectious Diseases, Private, Prof. MD., Ankara

Dilek TOPRAK

Namık Kemal University Faculty of Medicine, Department of Family Medicine, Prof. MD., Tekirdag

Tuba TUNCEL

Katip Çelebi University Faculty of Medicine, Department of Pediatrics, Assoc. Prof. MD., Izmir

Ayşen TÜREDİ

Celal Bayar University Faculty of Medicine, Department of Pediatrics, Assoc. Prof. MD., Manisa

Meltem UYAR

Ege University Faculty of Medicine, Department of Algology, Prof. MD., Izmir

Nurettin ÜNAL

Dokuz Eylül University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Cardiology, Prof. MD.. Izmir

Aycan ÜNALP

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Children's Neurology Clinic, Prof. MD., Izmir

Canan VERGIN

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Pediatric Hematology and Oncology Clinic, Assoc. Prof. MD., Izmir

Rașit Vural YAĞCI

Ege University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Gastroenterology and Hepatology, Prof. MD., Izmir

Mehmet YALAZ

Ege University Faculty of Medicine, Department of Pediatrics, Prof. MD., Izmir

Önder YAVAŞCAN

Medipol University Faculty of Medicine, Department of Pediatrics, Division of Pediatric Nephrology, Prof. MD., Istanbul

Mehmet YILDIRIM

University of Health Sciences Bozyaka Health Application and Research Center, General Surgery Clinic, Assoc. Prof. MD., Izmir

Dilek YILMAZ ÇİFTDOĞAN

University of Health Sciences Tepecik Health Application and Research Center, Pediatric Infectious Diseases Clinic, Prof. MD., Izmir

İsmail YILMAZ

Izmir Katip Çelebi University Faculty of Medicine, Department of Medical Pharmacology, Assoc. Prof. MD., Izmir

Orhan YILMAZ

University of Health Sciences Diskapi Yildirim Beyazit Health Application and Research Center, Otorhinolaryngology Clinic, Assoc. Prof. MD., Ankara

Murat Muhtar YILMAZER

University of Health Sciences Dr Behcet Uz Health Application and Research Center, Pediatrics Clinic, Assoc. Prof. MD., Izmir

Seyran YİĞİT

Izmir Ataturk Training and Research Hospital, Medical Pathology Clinic, Assoc. Prof. MD., Izmir

Arif YÜKSEL

University of Health Sciences Bozyaka Health Application and Research Center, Internal Medicine Clinic, Assoc. Prof. MD., Izmir