

Jarem

JOURNAL OF ACADEMIC RESEARCH IN MEDICINE

Original Investigations

Mortality and Respiratory Intensive Care Unit
Ayyürek et al.; Ankara, Türkiye

Combination of Vestibular and Table Tennis Exercises
Ersin et al.; İstanbul, Türkiye

Tinnitus Severity and its Related Factors
Ödemişoğlu Aydın et al.; İzmir, Türkiye

Diagnostic Role of Bladder Wall Thickness
Gezmiş and Çakiroğlu.; İstanbul, Türkiye

Screen Exposure Impact on Attention Development
Coşkun et al.; İstanbul, Türkiye

Dimethyl Fumarate and Methanol Toxicity
Akyuz Unsál et al.; Aydın, Türkiye; Milan, Italy

ARFI Elastography in Pediatric NAFLD
Çakır and Acunaş.; İstanbul, Türkiye

Effectiveness of Transforaminal and Facet Injections
Boyalı et al.; İstanbul, Giresun, Türkiye

VOLUME: 15 | ISSUE: 2 | August 2025

UNIVERSITY OF HEALTH SCIENCES TÜRKİYE GAZİOSMANPAŞA TRAINING AND RESEARCH HOSPITAL

Editor in Chief**Prof. Dr. Ömer N. Develioğlu**

Department of Otolaryngology-Head and Neck Surgery, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Editors**Mine Adaş**

Department of Endocrinology, University of Health Sciences Türkiye Prof. Dr. Cemil Taşçıoğlu City Hospital, İstanbul, Türkiye

Burak Arslan

Department of Urology, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Okcan Basat

Department of Family Medicine, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Hakan Başar

Department of Orthopedics and Traumatology, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Ayşegül Batıoğlu Karaaltın

Department of Otorhinolaryngology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Sibel Bektaş

Department of Medical Pathology, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Okcan Demiray

Department of General Surgery, University of Health Sciences Türkiye Taksim Training and Research Hospital, İstanbul, Türkiye

Tiraje Celkan

Department of Pediatrics, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Erdoğan Civelek

Department of Brain and Nerve Surgery, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Nevriye Gönüllü

Department of Medical Microbiology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Seda Geylani Güleç

Department of Pediatrics, University of Health Sciences Türkiye Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Mustafa Hasbahçeci

Clinic of General Surgery, Medical Park Fatih Hospital, İstanbul, Türkiye

Mine Kucur

Department of Medical Biochemistry, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Veli Mihanlı

Department of Obstetrics and Gynaecology, University of Health Sciences Türkiye Prof. Dr. Cemil Taşçıoğlu City Hospital, İstanbul, Türkiye

İsmail Mihmanlı

Department of Radiology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

İmran Kurt Ömürlü

Department of Biostatistics, Aydın Adnan Menderes University Faculty of Medicine, Aydın, Türkiye

Ufuk Özkaya

Clinic of Orthopedics and Traumatology, Memorial Bahçelievler Hospital, İstanbul, Türkiye

Hakan Öztürk

Department of Biostatistics, Aydın Adnan Menderes University Faculty of Medicine, Aydın, Türkiye

Ahmet İlker Tekkeşin

Department of Cardiology, University of Health Sciences Türkiye, Dr. Siyami Ersek Health Practice Research Center, İstanbul, Türkiye

Ayşe Çiğdem Tütüncü

Department of Anesthesiology and Reanimation, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Sema Uçak Basat

Department of Internal Medicine, University of Health Sciences Ümraniye Training and Research Hospital, İstanbul, Türkiye

Serdal Uğurlu

Department of Internal Diseases, Division of Rheumatology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Nurten Uzun Adatepe

Department of Neurology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Hüseyin Güleç

University of Health Sciences Türkiye, İstanbul Erenköy Training and Research Hospital for Psychiatric and Neurological Diseases, İstanbul, Türkiye

Evrin Coşkun

University of Health Sciences Türkiye, Başakşehir Çam and Sakura City Hospital, Department of Physical Therapy and Rehabilitation, İstanbul, Türkiye

Ulviye Yiğit

Haliç University Faculty of Medicine, Department of Ophthalmology, İstanbul, Türkiye

Erdoğan Bulut

Department of Audiology, Trakya University Faculty of Health Science, Edirne, Türkiye

Teoman Akçağ

Division of Endocrinology and Metabolism, Department of Pediatrics, Üsküdar University Faculty of Medicine; Medical Park Gaziosmanpaşa Hospital, İstanbul, Türkiye

Ahmet Akıcı

Department of Medical Pharmacology, Marmara University School of Medicine, İstanbul, Türkiye

English Language Editors**Kamuran Özlem Üzer**

kmrnozlm@gmail.com

ORCID ID: 0000-0002-0299-1253

International Editorial Board**Fisun Akdeniz**

Retired Assistant Professor of Ege University, İzmir, Türkiye

İbrahim Özkan Akıncı

Department of Anesthesiology and Reanimation, İstanbul University-İstanbul Faculty of Medicine, İstanbul, Türkiye

Esen K. Akpek

Wilmer Eye Institute, John Hopkins University, Baltimore, USA

Ali Akyüz

Department of General Surgery, İstanbul University-İstanbul Faculty of Medicine, İstanbul, Türkiye

A. Cemal Aygıt

Department of Plastic and Reconstructive Surgery, Kemerburgaz University School of Medicine, İstanbul, Türkiye

M. Derya Balbay

Clinic of Urology, Koç University Hospital, İstanbul, Türkiye

M.B. Can Balci

Department of Urology, University of Health Sciences Türkiye, Taksim Training and Research Hospital, İstanbul, Türkiye

Gökhan Tolga Adaş

Department of General Surgery, University of Health Sciences Türkiye, Bakırköy Dr. Sadi Konuk Training and Research Hospital, İstanbul, Türkiye

Hakan Bingöl

Clinic of Cardiovascular Surgery, Aksaray Training and Research Hospital, Konya, Türkiye

Canan Aykut Bingöl

Department of Neurology, Yeditepe University School of Medicine, İstanbul, Türkiye

Günseli Bozdoğan

Department of Pediatrics, Acıbadem University School of Medicine, İstanbul, Türkiye

Murat Bozkurt

Department of Obstetrics and Gynaecology, Kafkas University School of Medicine, Kars, Türkiye

Dursun Buğra

Department of General Surgery, Private American Hospital, İstanbul, Türkiye

Berk Burgu

Department of Urology, Ankara University School of Medicine, Ankara, Türkiye

Arif Atahan Çağatay

Department of Infectious Diseases and Clinical Microbiology, İstanbul University Medical School Hospital, İstanbul, Türkiye

İlyas Çapoğlu

Department of Internal Medicine, Erzincan University Faculty of Medicine, Erzincan, Türkiye

Fehmi Çelebi

Department of General Surgery, Sakarya University School of Medicine, Sakarya, Türkiye

İsmail Çepni

Department of Obstetrics and Gynaecology, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Ferda Çiftçi

Department of Ophthalmology, Yeditepe University School of Medicine, İstanbul, Türkiye

M. Onur Demirkol

Clinic of Nuclear Medicine and Molecular Imaging, Koç University, İstanbul, Türkiye

Ali İhsan Dokucu

Clinic of Pediatric Surgery, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Hayati Durmaz

Department of Orthopedics and Traumatology, İstanbul University-İstanbul Faculty of Medicine, İstanbul, Türkiye

Ela Erdem

Department of Pediatric Pulmonology, Marmara University Pendik Training and Research Hospital, İstanbul, Türkiye

Vedat Erentuğ

Clinic of Cardiovascular Surgery, University of Health Sciences Bağırcılar Eğitim ve Araştırma Hastanesi, İstanbul, Türkiye

Oktay Ergene

Department of Cardiology, Dokuz Eylül University School of Medicine, İzmir, Türkiye

Ramon Franco

Department of Laryngology, Massachusetts Eye and Ear Hospital, Boston, USA

Cankon Germiyanoglu

Department of Urology, Ondokuz Mayıs University Faculty of Medicine, Samsun, Türkiye

Abdülaziz Gül

Department of Pediatrics, Elazığ Private Hospital, Elazığ, Türkiye

H. Canan Hasanoğlu

Clinic of Chest Diseases, University of Health Sciences Atatürk Training and Research Hospital, Ankara, Türkiye

Hakan İlaslan

Department of Radiology, Cleveland Clinic, OH, USA

Ferruh Kemal İşman

Clinic of Biochemistry, Medeniyet University Göztepe Training and Research Hospital, İstanbul, Türkiye

Serdar Kabataş

Department of Brain and Nerve Surgery, University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital, İstanbul, Türkiye

Tunaya Kalkan

Retired Assistant Professor of İstanbul University, İstanbul, Türkiye

Tolga Kapusuz

Maimonides Medical Center, Department of Anesthesiology, SUNY Downstate Medical School, Brooklyn, NY, USA

Ayhan Kılıç

Clinic of Orthopedics and Traumatology, Acıbadem Hospital, İstanbul, Türkiye

Reyhan Diz Küçükkaya

Clinic of Hematology and Internal Diseases, Florence Nightingale Hospital, İstanbul, Türkiye

Metin Küçükkaya

Clinic of Orthopedics and Traumatology, Florence Nightingale Hospital, İstanbul, Türkiye

Mehmet Külekçi

Retired Professor

Asiye Nuhoğlu

Clinic of Neonatology, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Barış Nuhoğlu

Clinic Urology, İstanbul Yeni Yüzyıl University, Gaziosmanpaşa Hospital, İstanbul, Türkiye

Ayşe Emel Önal

Department of Public Health, İstanbul University-İstanbul Faculty of Medicine, İstanbul, Türkiye

Perihan Ergin Özcan

Department of Anesthesiology and Reanimation, İstanbul University Medical School, İstanbul, Türkiye

Birol Özkan

Clinic of Cardiology, University of Health Sciences Kartal Koşuyolu Training and Research Hospital, İstanbul, Türkiye

Türker Özkan

Department of Hand Surgery, İstanbul University-İstanbul Faculty of Medicine, İstanbul, Türkiye

Savaş Öztürk

Department of Nephrology, İstanbul University, İstanbul Faculty of Medicine, İstanbul, Türkiye

Cengiz Pata

Clinic of Gastroenterology, Yeditepe University Hospital, İstanbul, Türkiye

Gürsel Soybir

Clinic of General Surgery, Memorial Etiler Medical Centre, İstanbul, Türkiye

H. Soner Tatlıdede

Department of Plastic Surgery, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Aylin Tekeş

Clinic of Pediatric Radiology, Johns Hopkins Hospital, Baltimore, USA

Serdar Tekgöl

Department of Urology, Pediatric Surgery Unit, Hacettepe University School of Medicine, Ankara, Türkiye

Ralph P. Tufano

Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins Hospital, Baltimore, USA

Uğur Türe

Clinic of Neurosurgery, Yeditepe University School of Medicine Hospital, İstanbul, Türkiye

Ülkü Aygen Turkmen

Department of Anesthesiology and Reanimation, BHT CLINIC TEMA Hospital, İstanbul, Türkiye

Sinan Uslu

Clinic of Neonatology, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Nafiye Urgancı

Clinic of Pediatrics, Pediatric Gastroenterology, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Ayşe Ayça Vitrinel

Clinic of Pediatrics, Yeditepe University Medical School Hospital, İstanbul, Türkiye

Yıldız Yıldırım

Clinic of Pediatrics, University of Health Sciences Şişli Hamidiye Etfal Training and Research Hospital, İstanbul, Türkiye

Orhan Yılmaz

Department of Otorhinolaryngology, Karabük University Faculty of Medicine, Karabük, Türkiye

The previous Editor in Chief was Prof. Dr. Barış Nuhoğlu

İstanbul YeniYüzyıl University, Gaziosmanpaşa Hospital Head of Department of Urology
(The editor-in-chief duty, which started in September 2011, was transferred to Ömer N Develioğlu in March 2016)



JOURNAL OF ACADEMIC RESEARCH IN MEDICINE

"Please refer to the journal's webpage (<https://www.jarem.org/home>) for "Ethical Policy", "Instructions to Authors" and "About Us".

The Journal of Academic Research in Medicine and/or its editors are members of ICMJE, COPE, WAME, CSE and EASE, and follow their recommendations. Journal of Academic Research in Medicine is indexed in Web of Science-Emerging Sources Citation Index, TÜBİTAK ULAKBİM TR Dizin, EBSCO, Gale, CINAHL, J Gate, Türk Medline, Embase and CAB International (CABI).

The journal is published online.

Owner: University of Health Sciences Türkiye Gaziosmanpaşa Training and Research Hospital

Responsible Manager: Ömer N. Develioğlu



Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1

34093 İstanbul, Türkiye

Phone: +90 (530) 177 30 97 / +90 (539) 307 32 03

E-mail: info@galenos.com.tr / yayin@galenos.com.tr

Web: www.galenos.com.tr

Publisher Certificate Number: 14521

Online Publishing Date: August 2025

ISSN: 2146-6505 **E-ISSN:** 2147-1894

International scientific journal published quarterly.

Contents

Original Investigations

55**Determinants of Mortality in Respiratory Intensive Care Units**

Merve Ayyürek, Oral Menteş, Murat Yıldız; Ankara, Türkiye

64**Vestibular Exercises Combined with Table Tennis Exercises May Yield More Effective Outcomes: A Preliminary Randomized Study**

Kerem Ersin, Cem Yeral, Serkan Eti, Mustafa Bülent Şerbetçioğlu; İstanbul, Türkiye

71**Investigation of the Relationship between Tinnitus Severity, Tinnitus Loudness, Hyperacusis and Anxiety Level in Individuals with Tinnitus**

Emine Ayça Ödemişlioğlu Aydın, Serpil Mungan Durankaya, Serpil Alluşoğlu, Günay Kırkım; İzmir, Türkiye

78**Evaluation of the Relationship between Bladder Wall Thickness and Pathological Findings in Patients with Hematuria**

Cem Tuğrul Gezmiş, Basri Çakıroğlu; İstanbul, Türkiye

82**The Impact of Screen Exposure on Attention Development in Preschool Children in Türkiye**

Orhan Coşkun, Said Koçyiğit, Ömer Sönmez, Uğur Topçu, Esra Akyılmaz, Bengü Togay, Şeymanur Koçyiğit; İstanbul, Türkiye

88**The Effect of Dimethyl Fumarate on Tissues in Methanol Poisoning**

Ayşe İpek Akyuz Unsal, Alphan Ahmet Unsal, İbrahim Meteoglu, Buket Demirci; Aydın, Türkiye; Milan, Italy

94**The Effectiveness of Shear-wave Elastography in Childhood Hepatosteatois Grading and Comparison with Sonographic Grading**

Mehmet Semih Çakır, Bülent Acunaş; İstanbul, Türkiye

101**Evaluation of the Combined Effectiveness of Transforaminal and Facet Joint Injections in Low Back and Leg Pain Unresponsive to Conservative Treatment**

Osman Boyalı, Onur Öztürk, Gülseli Berivan Sezen, Eyüp Can Savrunlu, Ömer Özdemir, Serdar Kabataş; İstanbul, Giresun, Türkiye