

# ABCResearch

## Archives of Basic and Clinical Research

Official Journal of the Erzincan Binali Yıldırım University School of Medicine

### **Risk Factors for In-Hospital Mortality in ST-Elevation Myocardial Infarction**

Huseyin Karal, Kamuran Kalkan, Eftal Murat Bakırcı, Serdar Sevimli

### **Evaluation of Visual Pathways in Children with Neuronal Ceroid Lipofuscinosis: Diffusion Tensor Imaging Findings**

Hafize Otcu Temur, Bahar Atasoy, Gözde Yeşil Sayın, Akın İşcan, Alpay Alkan

### **An Assessment of the Impact of Smoking and Vaping During Pregnancy on Placental Dysfunction Using Shear-Wave Elastography**

Türkhun Çetin, Önder Durmaz

### **Hook Plate Versus Suture-Button Fixation for Rockwood Types 3 and 5 Acromioclavicular Joint Dislocations**

Enver Kılıç, Baran Sarıkaya

### **Anterolateral vs. Posterolateral Dual Plating for Extra-articular Distal Third Humeral Fractures**

Deniz Akbulut, Abdurrahman Aydın, Mehmet Coşkun, Fatih Arslanoğlu

### **Oxidant and Antioxidant Parameters in Serum and Saliva Samples of Patients with Periodontal Disease**

Yerda Özkan Karasu, Fatma Öner, Çağrı Onat, Lale Duysak, Neslihan Yüce

### **Disorders Leading to Early-Onset Osteoarthritis: Orthopedic Considerations and Insights**

Ahmet Issin, Gizem Issin



Volume 6

Issue 3

September 2024



# ABCResearch

## EDITOR IN CHIEF

**Mecit Kantarcı**

Department of Radiology, Erzincan Binali Yıldırım University  
School of Medicine, Erzincan, Türkiye

## ASSOCIATE EDITORS

### Surgical Sciences

**İsmet Yalkın Çamurcu**

Department of Orthopaedics and Traumatology,  
Medicalpark Bursa Hospital, Bursa, Türkiye

### Internal Medicine

**Fatih Özçiçek**

Department of Internal Medicine, Erzincan Binali Yıldırım  
University School of Medicine, Erzincan, Türkiye

### Basic Medical Sciences

**Cuma Mertoğlu**

Department of Biochemistry, Malatya İnönü University,  
Malatya, Türkiye

### Dentistry

**Kezban Meltem Çolak**

Department of Endodontics, Erzincan Binali Yıldırım  
University Faculty of Dentistry, Erzincan, Türkiye

### Health Sciences

**Nadiye Özer**

Department of Surgical Nursing, Atatürk University Faculty  
of Health Science, Erzurum, Türkiye

### Biostatistical Editor

**Serhat Hayme**

Department of Biostatistics, Erzincan Binali Yıldırım  
University School of Medicine, Erzincan, Türkiye

### Deputy Editor

**Adalet Özçiçek**

Department of Internal Medicine, Erzincan Binali Yıldırım  
University School of Medicine, Erzincan, Türkiye



All expenses of the Archives of Basic and Clinical Research are covered by the unconditional education support provided by Erzincan Culture and Education Foundation (EKEV).

Archives of Basic and Clinical Research'ın giderleri, Erzincan Kültür ve Eğitim Vakfı (EKEV) tarafından sağlanan koşulsuz eğitim desteğiyle karşılanmaktadır.



General Manager  
Ali Şahin

Journal Managers  
Deniz Kaya  
Irmak Berberoğlu

Publications Coordinators  
Derya Azer  
Nisanur Atıcı  
Şeref Mert Gücün  
Lütfiye Çetin  
Yiğit Pekzeren

Publications Technologies  
Coordinator  
Ayça Nur Sezen

Project Assistants  
Batuhan Kara  
Ozan Şahin

## Contact

Address: Büyükdere Cad. No: 199/6  
34394 Mecidiyeköy, Şişli-İstanbul,  
Türkiye

Phone: +90 212 217 17 00

E-mail: info@avesyayincilik.com

web: www.avesyayincilik.com

## EDITORIAL BOARD

### Emin Murat Akbaş

Department of Internal Medicine, Division of Endocrinology, Yalova University School of Medicine, Yalova, Türkiye

### Mehmet Aktaş

Department of Medical Biochemistry, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Bülent Aydın

Department of General Surgery, Akdeniz University School of Medicine, Antalya, Türkiye

### Adnan Ayvaz

Division of Pediatric Neurology, Okan University School of Medicine, İstanbul, Türkiye

### Şenol Biçer

Department of Pediatric Surgery, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Abdullah Büyök

Department of General Surgery, Medical Park Elaziğ Hospital, Elaziğ, Türkiye

### Mutlu Büyüklü

Department of Cardiology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Betül Çiçek

Department of Physiology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Ertunç Dayı

Department of Oral & Maxillofacial Surgery, Erzincan Binali Yıldırım University School of Dentistry, Erzincan, Türkiye

### İsmail Demiryılmaz

Department of General Surgery, Akdeniz University School of Medicine, Antalya, Türkiye

### Cihan Duran

Division of Diagnostic Imaging, University of Texas, MD Anderson Cancer Center, Houston, Texas, USA

### Menduh Dursun

Department of Radiology, İstanbul University İstanbul School of Medicine, İstanbul, Türkiye

### Tayfun Çakır

Department of Brain and Nerve Surgery, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Ayşe Çarlioğlu

Division of Endocrinology, Lokman Hekim University School of Medicine, Ankara, Türkiye

### Fehmi Çelebi

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

### Abdulkadir Çoban

Department of Medical Biochemistry, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Levent Demirtaş

Department of Internal Medicine, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Bekir Elma

Department of Thoracic Surgery, Gaziantep University School of Medicine, Gaziantep, Türkiye

### İzzet Emir

Department of Cardiovascular Surgery, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Abdullah Erdoğan

Department of Urology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Mehmet Gündoğdu

Department of Internal Medicine, Division of Hematology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Alp Gürkan

Department of General Surgery, Okan University School of Medicine, İstanbul, Türkiye

### Ender Hür

Division of Nephrology, Manisa Merkezefendi State Hospital, Manisa, Türkiye

### Ali Veysel Kara

Department of Internal Medicine, Division of Nephrology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Faruk Karakeçili

Department of Infectious Diseases and Clinical Microbiology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Erdal Karavaş

Department of Radiology, Bandırma Onyediy Eylül University School of Medicine, Balıkesir, Türkiye

### Muşturay Karçaaltıncaba

Department of Radiology, Hacettepe University School of Medicine, Ankara, Türkiye

### Ercüment Keskin

Department of Urology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Nizamettin Koçkara

Department of Orthopedics and Traumatology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

### Mehmet Nuri Konya

Department of Orthopedics and Traumatology, Afyonkarahisar University of Health Sciences, Afyonkarahisar, Türkiye

### Korgün Koral

Department of Radiology, University of Texas Southwestern Medical Center, Dallas, Texas, USA

**Emin Köse**

Department of General Surgery, University of Health Sciences, İstanbul Okmeydanı Health Application and Research Center, İstanbul, Türkiye

**Özlem Kurt Azap**

Department of Infections Diseases and Clinical Microbiology, Başkent University School of Medicine, Ankara, Türkiye

**Ergün Kutlusoy**

Department of Cardiology, Malatya Turgut Özal University School of Medicine, Erzincan, Türkiye

**Ufuk Kuyruklu Yıldız**

Department of Anesthesiology and Reanimation, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**İlke Küpeli**

Department of Anesthesiology and Reanimation, Kocaeli Derince Training and Research Hospital, Kocaeli, Türkiye

**Akın Levent**

Department of Radiology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Cenk Nayki**

Department of Obstetrics and Gynaecology, İzmir Democracy University Buca Seyfi Demirsoy Training and Research Hospital, İzmir, Türkiye

**Ümit Arslan Nayki**

Department of Obstetrics and Gynaecology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Levent Oğuzkurt**

Department of Radiology, Koc University Hospital, İstanbul, Türkiye

**Didem Onk**

Department of Anesthesiology and Reanimation, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Oruç Alper Onk**

Department of Cardiovascular Surgery, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Aytekin Oto**

Department of Radiology and Surgery, UChicago Medicine, Illinois, USA

**Hasan Mücahit Özbaş**

Division of Hematology, Giresun University School of Medicine, Giresun, Türkiye

**Aslı Özbek Bilgin**

Department of Medical Pharmacology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Pınar Öztürk**

Department of Emergency Medicine, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**İlyas Sayar**

Department of Medical Pathology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Hakan Sofu**

Department of Orthopedics and Traumatology, Altınbaş University School of Medicine, İstanbul, Türkiye

**İlknur Sürücü Kara**

Department of Pediatric Diseases, Ankara University School of Medicine, Ankara, Türkiye

**İbrahim Şahin**

Department of Medical Biology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**İdris Şahin**

Division of Nephrology, İnönü University School of Medicine, Malatya, Türkiye

**Garip Şahin**

Division of Nephrology, Osmangazi University School of Medicine, Eskişehir, Türkiye

**Vedat Şahin**

Department of Orthopedics and Traumatology, University of Health Sciences, Baltalimanı Metin Sabancı Bone Diseases Training and Research Hospital, İstanbul, Türkiye

**Aslı Şener**

Department of Emergency Medicine, İzmir Çiğli Regional Education Hospital, İzmir, Türkiye

**Kültigin Türkmen**

Division of Nephrology, Necmettin Erbakan University Meram School of Medicine, Konya, Türkiye

**Adem Uğurlu**

Clinic of Eye Diseases, Erzincan Mengücek Gazi Training and Research Hospital, Erzincan, Türkiye

**Paşa Uluğ**

Department of Obstetrics and Gynaecology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Mustafa Ünübol**

Division of Endocrinology, Adnan Menderes University School of Medicine, Aydın, Türkiye

**Edhem Ünver**

Department of Chest Diseases, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Judy Yee**

Department of Radiology, Montefiore Medical Centre, Albert Einstein College of Medicine, New York, USA

**Gürsel Yıldız**

Division of Nephrology, Başakşehir Çam and Sakura City Hospital, İstanbul, Türkiye

**İsmayil Yılmaz**

Department of General Surgery, University of Health Sciences, İstanbul Okmeydanı Health Application and Research Center, İstanbul, Türkiye

## AIMS AND SCOPE

Archives of Basic and Clinical Research (Arch Basic Clin Res) is the scientific, peer reviewed, open access journal of the Erzincan Binali Yıldırım University School of Medicine. The journal is a triannual publication, published in January, May, and September. The journal's publication language is English.

Archives of Basic and Clinical Research aims to contribute to the literature by publishing original clinical and experimental research articles at the highest scientific quality in all fields of medicine. The journal also publishes rare case reports, reviews, letters to the editor, and images of interest. The target audience of the journal includes physicians, researchers, and healthcare professionals who are interested or working in all fields of medicine.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing ([doaj.org/bestpractice](http://doaj.org/bestpractice)).

Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at [www.abcresearch.net](http://www.abcresearch.net). The journal guidelines, technical information, and the required forms are available on the journal's web page.

Archives of Basic and Clinical Research currently indexed in DOAJ, EBSCO, TUBITAK ULAKBIM TR Index and China National Knowledge Infrastructure (CNKI).

All expenses of the journal are covered by the Erzincan Binali Yıldırım University School of Medicine. Potential advertisers should contact the Editorial Office. Advertisement images are published only upon the Editor-in-Chief's approval.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the Erzincan Binali Yıldırım University School of Medicine, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

All published content is available online, free of charge at [www.abcresearch.net](http://www.abcresearch.net). Printed copies of the journal are sent to the corresponding authors of the published articles, and the rest of the copies are sent to Erzincan Binali Yıldırım University School of Medicine.

You can find the current version of the Instructions to Authors at <https://abcresearch.net/en/instructions-to-authors-105>

### Open Access Statement

Archives of Basic and Clinical Research is an open access publication, and the journal's publication model is based on Budapest Open Access Initiative (BOAI) declaration. All published content is available online, free of charge at [www.abcresearch.net](http://www.abcresearch.net). Authors retain the copyright of their published work in the Archives of Basic and Clinical Research. The journal's content is licensed under a Creative Commons Attribution-NonCommercial (CC BY-NC) 4.0 International License which permits third parties to share and adapt the content for non-commercial purposes by giving the appropriate credit to the original work.

**Editor in Chief:** Prof. Mecit Kantarcı

**Address:** Department of Radiology, Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**E-mail:** [akkanrad@hotmail.com](mailto:akkanrad@hotmail.com)

**Publisher:** Erzincan Binali Yıldırım University School of Medicine

**Address:** Erzincan Binali Yıldırım University School of Medicine, Erzincan, Türkiye

**Publishing Service:** AVES

**Address:** Büyükdere Cad., 199/6 34394 Şişli, İstanbul, Türkiye

**Phone:** +90 212 217 17 00

**E-mail:** [info@avesyayincilik.com](mailto:info@avesyayincilik.com)

**Web page:** [www.avesyayincilik.com](http://www.avesyayincilik.com)



## Contents

### Original Articles

- 159 A Simple Magnetic Resonance Scoring System for Predicting Suitability for Primary Anterior Cruciate Ligament Repair**  
Yusuf Onur Kızılay, Server Erdoğan, Gülcan, Hazal Berfin Yılmaz, Gülay Yalçın
- 165 Risk Factors for In-Hospital Mortality in ST-Elevation Myocardial Infarction**  
Hüseyin Karal, Kamuran Kalkan, Eftal Murat Bakırcı, Serdar Sevimli
- 170 Time Between Symptom Onset and Emergency Department Arrival and Thrombolytic Treatment Rates in Patients with Acute Ischemic Stroke**  
Bahar Işık, Alevtina Ersoy
- 177 Evaluation of Visual Pathways in Children with Neuronal Ceroid Lipofuscinosis: Diffusion Tensor Imaging Findings**  
Hafize Otcu Temur, Bahar Atasoy, Gözde Yeşil Sayın, Akın Işcan, Alpay Alkan
- 183 Comparison of the Safety and Efficacy of Thermocautery-Assisted Circumcision and Conventional Surgical Circumcision**  
Demirhan Örsan Demir, Salih Bürlükkara, Ali Kaan Yıldız
- 188 An Assessment of the Impact of Smoking and Vaping During Pregnancy on Placental Dysfunction Using Shear-Wave Elastography**  
Türkhun Çetin, Önder Durmaz
- 195 Hook Plate Versus Suture-Button Fixation for Rockwood Types 3 and 5 Acromioclavicular Joint Dislocations**  
Enver Kılıç, Baran Sarıkaya
- 202 Surgical Treatment of Bilateral Distal Radius Fractures: An Analysis of Epidemiological Variables and Outcome Parameters**  
Batuhan Gencer, Salih Ender İbaç, Bekir Teoman Yeni, Tolga Sezer, Özgür Doğan
- 209 Anxiety, Depression, and Attention Deficit Levels and Their Relationship with Smoking Addiction in People Applying to Smoking Cessation Outpatient Clinic**  
Ali İnaltekin, Gökhan Perinçek, İbrahim Yağcı
- 215 Anterolateral vs. Posterolateral Dual Plating for Extra-articular Distal Third Humeral Fractures**  
Deniz Akbulut, Abdurrahman Aydın, Mehmet Coşkun, Fatih Arslanoğlu
- 221 Exploring the Effect of Periodontal Status and Bone Density on Dry Socket Development: A Case-Control Study**  
Ömer Faruk Okumuş





**228 Oxidant and Antioxidant Parameters in Serum and Saliva Samples of Patients with Periodontal Disease**

Yerda Özkan Karasu, Fatma Öner, Çağrı Onat, Lale Duysak, Neslihan Yüce

**Reviews**

**235 Pit and Fissure Sealants**

Çiğdem Akkuç Taşan, Firdevs Ceran

**243 Disorders Leading to Early-Onset Osteoarthritis: Orthopedic Considerations and Insights**

Ahmet Issın, Gizem Issın

**Image of Interest**

**252 Situs Inversus: An Incidental Rare Case**

Halime Kabalcı, Volkan Kızılgöz

**Letter to the Editor**

**255 The Role of Ancillary Tests in Brain Death Diagnosis: A Focus on Clinical Evaluation and Modern Techniques**

Hakan Gökalp Taş