



www.hipsurgeryjournal.org

#### Founder and Editor-in Chief

Assoc. Prof. Onur Hapa, MD  
Dokuz Eylül University Faculty of Medicine,  
Department of Orthopedic Surgery  
ORCID: 0000-0001-8154-658X  
onurhapa@gmail.com

#### Editors

Assoc. Prof. Ahmet Karakaşlı, MD  
Dokuz Eylül University Faculty of Medicine,  
Department of Orthopedic Surgery  
ORCID: 0000-0003-4049-954X  
karakasliahmet@gmail.com

Assoc. Prof. Özkan Köse, MD  
Antalya Research Hospital,  
Department of Orthopedic Surgery  
ORCID: 0000-0002-7679-9635  
drozkankose@hotmail.com

Assoc. Prof. Orhan Kalemci  
Dokuz Eylül University Faculty of Medicine,  
Department of Neurosurgery  
ORCID: 0000-0002-8607-6860  
okalemci@gmail.com

#### Assistant Editor

Onur Gürsan, MD  
Dokuz Eylül University Faculty of Medicine,  
Department of Orthopedic Surgery  
ORCID: 0000-0002-6356-3834  
onur\_84\_gursan@hotmail.com

#### Statistic Editor

Prof. Hülya Ellidokuz, MD  
Dokuz Eylül University Faculty of Medicine,  
Department of Biostatistics and Medical Informatics, İzmir  
ORCID: 0000-0001-8503-061X  
hulya.ellidokuz@deu.edu.tr

#### Administrative Office

Naskon panorama konutları C-9 / Narbel, Narlıdere, İzmir

#### Language Editors

Gürkan KAZANCI

#### Graphics

Selma ARSLAN  
s.arslan@logos.com.tr

#### Publication Coordinator

Hira Gizem FİDAN  
h.fidan@logos.com.tr

#### Publication Assistant

Hilal KARAKAYA  
h.karakaya@logos.com.tr

**Publication Type:** Local Periodicals

#### Publisher

LOGOS YAYINCILIK TİC. A.Ş.  
Yıldız Posta Cad. Sinan Apt. No. 36 D. 63/64 34349  
Gayrettepe-İstanbul

Tel : (0212) 288 05 41  
Faks : (0212) 211 61 85  
E-mail : logos@logos.com.tr  
web : www.logosyayincilik.com

e-ISSN: 2717-946X | Year: 2021 | Volume: 1 | Issue: 1

# TÜRKİYE KALÇA CERRAHİSİ DERGİSİ

## Turkish Journal of Hip Surgery

*Türkiye Kalça Cerrahisi Dergisi*

*Dergi dört ayda bir yılda 3 sayı (Mart, Temmuz, Kasım) olarak yayımlanan açık erişim, ücretsiz ve hakemli bir dergidir.*

**Yayın politikaları ve yazım rehberine [www.hipsurgeryjournal.org](http://www.hipsurgeryjournal.org) adreslerinden ulaşılabilir.**

*Turkish Journal of Hip Surgery*

*It is published three times a year (March, July, November)  
TJHS is an open access, free and pre-reviewed Journal*

**You can reach publication policies and writing guide from [www.hipsurgeryjournal.org](http://www.hipsurgeryjournal.org)**

©Her hakkı saklıdır. Bu dergide yer alan yazı, makale, fotoğraf ve illüstrasyonların elektronik ortamlarda dahil olmak üzere kullanma ve çoğaltılma hakları Türkiye Kalça Cerrahisi Dergisi'ne aittir. Materyallerin tamamının ya da bir bölümünün çoğaltılması için yazılı izin gerekmektedir. Dergi Basım Meslek İlkeleri'ne uymaktadır.

©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 Turkish Journal of Hip Surgery. Reproduction without prior written permission of part or all of any material is forbidden. The journal complies with the Professional Principles of the Press.



## Danışma Kurulu / Advisory Board

**Prof. Dr Emre Acaroğlu, MD.**

Ankara Memorial Hospital,  
Orthopedic Surgery

**Assoc. Prof. Emrah Ahmet Açıan MD.**

Balıkesir University,  
Department of Orthopedic Surgery

**Prof. Burak Akan MD.**

Ufuk University, Faculty of Medicine,  
Orthopedics and Traumatology

**Prof. Cemalettin Aksoy MD.**

Hacettepe University,  
Department of Orthopedic Surgery

**Prof. Ertuğrul Akşahin MD.**

Yüksek İhtisas University,  
Department of Orthopedics

**Prof. Mehmet Arazi MD.**

Farabi Clinic Konya,  
Department of Orthopedic Surgery

**Prof. Tolga Atay MD.**

Süleyman Demirel University,  
Orthopedics and Traumatology

**Assoc. Prof. Bahattin Kerem Aydın MD.**

Selçuk University Faculty of Medicine,  
Orthopedics and Traumatology

**Prof. Semih Aydoğdu MD.**

Ege University Faculty of Medicine,  
Department of Orthopedic Surgery

**Prof. İbrahim Azboy MD.**

Istanbul Medipol University,  
Department of Orthopedic Surgery

**Prof. Ali Balcı MD.**

Dokuz Eylül University, Radiology

**Ceyhan Balcı MD.**

Private Medical Center,  
Orthopedics and Traumatology

**Alan Barber MD.**

Plano Orthopedic and Sports Medicine Center

**Assoc. Prof. Kerem Başarrı**

Ankara University,  
Orthopedics and Traumatology

**Prof. Metin Lütfi Baydar MD.**

Süleyman Demirel University,  
Department of Orthopedic Surgery

**Prof. Recep Bekiş MD.**

Dokuz Eylül University,  
Department of Nuclear Medicine

**Prof. Ali Biçimoğlu MD**

Health Sciences University Ankara City  
Hospital, Department of Orthopedic Surgery

**Sarper Çetinkaya MD.**

Private Practice,  
Orthopedics and Traumatology

**Prof. Emre Çullu MD.**

Adnan Menderes University ,  
Department of Orthopedic Surgery

**Prof. Bahtiyar Demiralp MD.**

Private Practice, Orthopedic Surgeon

**Assoc. Prof. Demirhan Nihat Demirkıran MD.**

Kutahya University of Health Sciences,  
Orthopedics and Traumatology

**Prof. Gülden Diniz MD.**

Izmir Demokrasi University, Pathology

**Prof. Dr. Mahmut Nedim Doral MD.**

Ufuk University, Faculty of Medicine  
Orthopedics and Traumatology

**Assoc. Prof. Ömer Faruk Erkoçak**

Selçuk University Faculty of Medicine  
Orthopedics and Traumatology

**Prof. Ahmet Fırat MD.**

Health Sciences University Ankara City  
Hospital, Department of Orthopedic Surgery

**Prof. Dr. Murat Gökden, MD.**

University of Arkansas Medical Sciences,  
Pathology

**Mehmet Gökmen MD.**

H.S.U. Okmeydanı Training and Research  
Hospital, Orthopedics and Traumatology

**Prof. Dr. Berk Güçlü MD.**

Ufuk University, Faculty of Medicine  
Orthopedics and Traumatology



**Assoc. Prof. Cüneyd Günay MD.**

Eskisehir Osmangazi University,  
Orthopedics and Traumatology

**Prof. Hasan Hallaçeli MD.**

Hatay Mustafa Kemal University,  
Orthopedics

**Prof. Hasan Havitçioğlu MD**

Dokuz Eylül University  
Department of Orthopedic Surgery

**Prof. Mustafa İnan MD.**

Trakya University Faculty of Medicine,  
Pediatric Surgery

**Prof. Ulunay Kanatlı MD.**

Gazi University,  
Department Of Orthopedic Surgery

**Prof. Osman Karaoğlu MD.**

Dokuz Eylül University,  
Department Of Orthopedic Surgery

**Prof. Leyla İyilikçi Karaoğlu MD.**

Dokuz Eylül University, Department Of  
Anesthesiology and Reanimation

**Prof. Gamze Çapa Kaya MD.**

Dokuz Eylül University Faculty of Medicine,  
Department of Nuclear Medicine

**Prof. Kasım Kılıçarslan MD.**

University of Health Sciences, Ankara City  
Hospital Orthopedics and Traumatology

**Rob F. Laprade, MD,**

Twin Cities Orthopedics,  
Department of Orthopedic Surgery

**Prof. Dr. Veli Lök, MD.**

Private Practice, Orthopedic Surgeon

**Sanjeev Madan MD.**

Sheffield Children's Hospital and Doncaster  
and Bassetlaw Teaching Hospitals,  
Department of Orthopedic Surgery

**Dean Matsuda, MD.**

Marina del Ray Hospital,  
Department of Orthopedic Surgery

**A. Murat Mete PhD.**

İzmir Tinaztepe University,  
Department of Library and Documentation

**Assoc. Prof. Güzelali Özdemir MD.**

Health Sciences University  
Ankara City Hospital,  
Department of Orthopedic Surgery

**Prof. Dr. Ercan Özer MD.**

Dokuz Eylül University,  
Department of Neurosurgery

**Prof. Dr. Şermin Özkal MD.**

Dokuz Eylül University Faculty of Medicine,  
Medical Pathology

**Assoc. Prof. Ramadan Özmanevra MD.**

University of Kyrenia, Faculty of Medicine  
Orthopedics and Traumatology

**Assoc. Prof. Murad Pepe MD.**

Alanya Educational Research Hospital,  
Orthopedics and Traumatology

**Tanju Surmeli MD.**

Psychiatry

**Prof. Dr. Hasan Tatari, MD.**

Dokuz Eylül University  
Department of Orthopedic Surgery

**Prof. İbrahim Tuncay**

Bezmialem Vakıf University  
Faculty of Medicine,  
Department of Orthopedic Surgery

**Prof. Osman Yılmaz PhD.**

Dokuz Eylül University Faculty of Medicine,  
Department of Experimental Medicine

**Prof. Dr. Bülent Serhan Yurtlu, MD.**

Dokuz Eylül University, Department of  
Anesthesiology and Reanimation