

Official Journal of the Turkish Association of Urology

Volume 50 · Issue 1 · January 2024

# UROLOGY RESEARCH &PRACTICE

Formerly Turkish Journal of Urology







#### **Editor in Chief**

# Ates KADIOĞLU

Department of Urology, İstanbul University İstanbul School of Medicine, İstanbul, Turkey

# Managing Editor

# Mazhar ORTAÇ

Department of Urology, İstanbul University İstanbul School of Medicine, İstanbul, Turkey

# **Associate Editors Uro-Oncology**

# Juan Gómez RIVAS 🕩

Department of Urology, Hospital Clínico San Carlos, Madrid, Spain

## Endourology

# Thomas KNOLL

Department of Urology, Sindelfingen Medical Center, University of Tuebingen, Tuebingen, Germany

# Andrology (Sexual and Reproductive Medicine)

# Ranjith RAMASAMY



Department of Urology, University of Miami Miller School of Medicine, Miami, USA

# Female Urology & Neurourology

# Roger Roman DMOCHOWSKI



Department of Urology, Vanderbilt University Medical Center, Nashville, USA

# Pediatric Urology

# Walid FARHAT



Department of Urology, University of Wisconsin, Madison, WI, USA; Division of Urology, Hospital for Sick Children and Department of Surgery, University of Toronto, Toronto, Ontario, Canada

## **Biostatistical Editor**

# Meryem Merve ÖREN



Department of Public Health, İstanbul University İstanbul School of Medicine, İstanbul, Turkey

# Digital Media Editor

## Tümay İPEKÇİ



Department of Urology, VM Medical Park Maltepe Hospital, İstanbul, Turkey

## Section Editors

#### Sachit ANAND

Department of Pediatric Surgery, All India Institute of Medical Sciences, New Delhi, India

## Mario ÁLVAREZ-MAESTRO

Department of Urology, University La Paz Madrid, Madrid, Spain

#### Emad IBRAHIM

Department of Urology, University of Miami, Miller School of Medicine, Florida, USA

#### Fardod O'KELLY

Department of Surgical Affairs, Royal College of Surgeons in Ireland, Dublin, Ireland

University College Dublin, Dublin, Ireland

Department of Paediatric Urology, Beacon Hospital, Dublin, Ireland

## Amelia PIETROPAOLO

Department of Urological Surgery, University Hospital Southampton NHS Foundation Trust, Southampton, UK

#### Pawel RAJVA

Department of Urology, Comprehensive Cancer Center, Medical University of Vienna, Vienna, Austria

Department of Urology, Medical University of Silesia, Zabrze, Poland

## **Editorial Board**

## Omar ABOUMARZOUK

Department of Surgery, Hamad General Hospital, Hamad Medical Corporation, Doha, Qatar

## Bülent AKDUMAN

Department of Urology, Zonguldak Bülent Ecevit University School of Medicine, Zonguldak, Turkey

## Ali ATAN

Department of Urology, Gazi University, School of Medicine, Ankara, Turkey

## Erhan ATEŞ

Department of Urology, Aydın Adnan Menderes University School of Medicine, Aydın, Turkey

## Derya BALBAY

Department of Urology, Koç University Hospital, İstanbul, Turkey

# Numan BAYDİLLİ

Department of Urology, Erciyes University School of Medicine, Kayseri, Turkey

# Ömer BAYRAK

Department of Urology, Gaziantep University School of Medicine, Gaziantep, Turkey





## Naeem BHOJANI

Department of surgery, University of Montreal, Montreal, Quebec, Canada

## Michael L. BLUTE

Department of Urology, Mayo Clinic, Minnesota, USA

## **Guy BOGAERT**

Department of Urology, UZ Leuven University, Antwerp, Belgium

## Marco BORGHESI

Department of Urology, University of Genova, Italy

#### Murat BOZLU

Department of Urology, Mersin University School of Medicine, Mersin, Turkey

## Giovanni CACCIAMANI

USC Institute of Urology and Catherine and Joseph Aresty Department of Urology, University of Southern California, Los Angeles, California, USA

## Eric CHUNG

Department of Urology, University of Queensland and Princess Alexandra Hospital, Woolloongabba, Australia

#### Selahittin ÇAYAN

Department of Urology, Mersin University School of Medicine, Mersin, Turkey

## Vincent DE CONINCK

Department of Urology, Augustijnslei, Brasschaat, Belgium

## Alex DIGESU

Department of Urogynaecology, St. Mary's Hospital, Imperial College London, London, UK

## Collin P. DINNEY

Department of Urology, University of Texas MD Anderson Cancer Center, Houston, Texas, USA

## Jose Lous DOMINGUEZ

Jefe de Servicio de Urología, Instituto Valenciano de Oncología, Valencia, Spain

## Michael Louis EISENBERG

Department of Urology, Stanford University Medical Center, Stanford, CA, USA

## **Dmitry ENIKEEV**

Institute for Urology and Reproductive Health, Sechenov University, Moscow, Russia

## Fikret ERDEMİR

Department of Urology, Gaziosmanpaşa University School of Medicine, Tokat, Turkey

## Sakip ERTURHAN

Department of Urology, Gaziantep University, School of Medicine, Gaziantep, Turkey

## Luciano Alves FAVORITO

Unidade de Pesquisa Urogenital Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brasil

## Rüştü Cankon GERMİYANOĞLU

Department of Urology, Ondokuz Mayıs University School of Medicine, Samsun, Turkey

## Ali Serdar GÖZEN

SLK-Kliniken, Department of Urology, Heidelberg University Teaching Hospital, Heilbronn, Germany

## Tamsin GREENWELL

University College London Hospitals, UK

## H. Barton GROSSMAN

Department of Urology, University of Texas M. D. Anderson Cancer Center, Houston, TX, USA

## Rizwan HAMID

Department of Urology, University College London Hospitals & London Spinal Injures Unit, Stanmore, London, UK

#### Hashim HASHIM

Bristol Urological Institute, Southmead Hospital, North Bristol NHS Trust, Bristol, UK

#### Didier JACQMIN

Department of Urology, Hospital Civil, Strasbourg, France

## Patrick JONES

Haukeland University Hospital, Bergen, Norway

## Panagiotis KALLIDONIS

Department of Urology, University of Patras, Patras, Greece

# Guido KAMPHUIS

Department Urology, Amsterdam University Medical Centre, Amsterdam, The Netherlands

## Muammer KENDİRCİ

Department of Urology, İstinye University School of Medicine, Liv Hospital Ulus, İstanbul, Turkey

## Martin KOYLE

Division of Urology, Seattle Children's Hospital, Seattle, WA, USA

# Sanjay Balwant KULKARNI

Kulkarni School of Urethral Surgery, Pune, India

## Pilar LAGUNA

Department of Urology, Medipol University School of Medicine, İstanbul, Turkey

## Brian R. MATLAGA

Brady Urological Institute, Johns Hopkins University School of Medicine, Baltimore, MD, USA

## Suks MINHAS

Imperial College Healthcare NHS Trust, Honorary Senior Lecturer, Imperial College, London, UK

## Jeremy OCKRIM

Consultant Urological Surgeon, University College Hospital London, London, UK

## A. Rahmi ONUR

Department of Urology, Marmara University School of Medicine, İstanbul, Turkey





## Athanasios PAPATSORIS

Department of Urology, National and Kapodistrian University of Athens, School of Medicine, Sismanoglio Hospital, Athens, Greece

## Louis L. PISTERS

Department of Urology, MD Anderson Cancer Center, Houston, Texas, USA

#### Jean de la ROSETTE

Department of Urology, Bağcılar Medipol Mega University Hospital, İstanul, Turkey

#### Kemal SARICA

Department of Urology, Biruni University School of Medicine, İstanbul, Turkev

## Kymora SCOTLAND

Ronald Reagan UCLA Medical Center, Los Angeles CA, USA

## Mesrur Selçuk SILAY

Clinic of Pediatric Urology, İstanbul Gelişim University, Memorial Hospital, İstanbul, Turkey

## Ajay K. SINGLA

Department of Urology, School of Medicine, Toledo University, Ohio, USA

## Andreas SKOLARIKOS

Department of Urology, National and Kapodistrian University of Athens, Sismanogleio Hospital, Athens, Greece

## Bhaskar K. SOMANI

Urological Surgery Department, University Hospital Southampton NHS Trust, Southampton, UK

## Prasanna SOORIAKUMARAN

Department of Urology, University College London Hospitals, London, UK

## Tarkan SOYGÜR

Department of Urology, Division of Paediatric Urology, Faculty of Medicine, University of Ankara

## Mehmet Giray SÖNMEZ

Department of Urology, Necmettin Erbakan University Meram School of Medicine, Konya, Turkey

# Anne Françoise SPINOIT

Department of Urology, Ghent University Hospital, Ghent, Belgium

## Theodoras TOKAS

Department of Urology and Andrology, General Hospital Hall in Tirol, Tirol, Austria

## Olivier TRAXER

Director of the Minimally Invasive Surgery Center Urology, Tenon University Hospital, Paris, France

#### Barıs TÜRKBEY

Molecular Imaging Program, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA

#### Mustafa USTA

Department of Urology, Akdeniz University School of Medicine, Antalya, Turkey

#### Nikhil VASDEV

Hertfordshire and Bedfordshire Urological Cancer Centre, Lister Hospital (East and North Herts NHS Trust), Watford General Hospital (West Herts NHS Trust), UK

# Rajas VEERATTERAPILLARY

Department of Urology, Freeman Hospital, Newcastle Upon Tyne, Newcastle, UK

## M. Önder YAMAN

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

## Jeremy YC TEOH

S.H. Ho Urology Centre, Department of Surgery, Prince of Wales Hospital, The Chinese University of Hong Kong, Hong Kong

## Selcuk YÜCEL

Department of Urology, Marmara University School of Medicine, İstanbul, Turkey

# Emrah YÜRÜK

BHT Clinic, İstanbul Tema Hospital, İstanbul, Turkey Department of Urology, İstanbul Yeni Yüzyıl University School of Medicine, İstanbul, Turkey

## Run WANG

University of Texas McGovern Medical School at Houston and MD Anderson Cancer Center, Houston, TX, USA



## Founder

İbrahim KARA

# General Manager

Ali SAHİN

# Finance Coordinator

Sinem Fehime İLHAN

# Journal Managers

Deniz KAYA Irmak BERBEROĞLU Arzu ARI

# **Publications Coordinators**

Alara ERGIN İrem ÖZMEN Derya AZER Beril TEKAY Nisanur ATICI Şeref Mert GÜCÜN

## Web Specialists

Frdem FRCİVAN Doğan ORUÇ

# Project Assistant

Batuhan KARA

## Contact

Address: Büyükdere Cad. 199/6, 34394, Şişli, İstanbul, Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com

Publishing Service: AVES

Address: Büyükdere Cad., 199/6 34394

Şişli, İstanbul, Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Webpage: www.avesyayincilik.com





## **ABOUT**

## About the Urology Research and Practice

Urology Research and Practice (Urol Res Pract) is a peer-reviewed, open access, online-only journal published by the Turkish Association of Urology.

Urology Research and Practice is a bimonthly journal that is published in English in January, March, May, July, September, and November.

Journal History

As of 2023, the journal has changed its title to Urology Research and Practice.

Current Title (2023 - ...)

Urology Research and Practice

EISSN: 2980-1478

Previous Title (2011 - 2022) Turkish Journal of Urology EISSN: 1300-5804

Previous Title (1976 – 2011) Türk Üroloji Dergisi

EISSN: 1300-5804

## Abstracting and indexing

Urology Research and Practice is covered in the following abstracting and indexing databases;

- PubMed Central
- Web of Science-Emerging Sources Citation Index
- CNK
- TUBITAK ULAKBIM TR Index
- Scopus
- HINARI
- EBSCO
- CINAHL
- GALE
- ProQuest
- DOAJ

All content published in the journal is permanently archived in Portico.

# Aims, Scope, and Audience

Urology Research and Practice aims to publish studies of the highest scientific and clinical value and encourages the submission of high-quality research that advances the understanding and treatment of urological disease.

Urology Research and Practice covers a wide range of topics related to basic and translational science, education and simulation, endourology and stones, female urology and Pelvic Floor Reconstruction, urological infections, laparoscopy and robotics, andrology and infertility, prostatic diseases, reconstructive urology, oncology, and pediatric urology. The journal is interested in publishing original research that addresses important clinical questions and advances the understanding and treatment of these conditions. This may include studies on the effectiveness of different treatments, new diagnostic tools or techniques, and novel approaches to preventing or managing adult and pediatric urological conditions.

Urology Research and Practice publishes clinical and basic research articles, case reports, clinical and technical notes, systematic reviews and meta-analyses and letters to the editor. Conference proceedings may also be considered for publication.





## Open Access and Copyright Policy

The Urology Research and Practice 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 urologyresearchandpractice.org. Authors retain the copyright of their published work in The Urology Research and Practice. The journal's content is licensed under a Creative Commons Attribution (CC BY) 4.0 International License which permits third parties to share and adapt the content for any purpose by giving the appropriate credit to the original work.

From January 2022 onwards, content is licensed under a Creative Commons CC BY 4.0 license. The journal's back content was published under a traditional copyright license however the archive is available for free access.

The target audience of the journal includes urology specialists, medical specialty fellows and other specialists and practitioners who are interested in the field of urology.

#### Disclaimer

The statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the views of the editors, editorial board, and/or publisher. The editors, editorial board, and publisher are not responsible for the content of the manuscripts and do not necessarily endorse the views expressed in them. It is the responsibility of the authors to ensure that their work is accurate and well-researched, and the views expressed in their manuscripts are their own. The editors, editorial board, and publisher simply provide a platform for the authors to share their work with the scientific community.

All published content is available online, free of charge at www.urologyresearchandpractice.org.

Turkish Association of Urology holds the international copyright of all the content published in the journal.



Editor in Chief: Ateş Kadıoğlu

Address: İstanbul Üniversitesi İstanbul Tıp Fakültesi, Üroloji Anabilim Dalı, İstanbul, Turkey

**Phone:** +90 212 232 46 89 **Fax:** +90 212 233 98 04

E-mail: info@turkishjournalofurology.com

Publisher: AVES

Address: Büyükdere Cad., 105/9 34394 Mecidiyeköy, Şişli, İstanbul, Turkey

Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Web page: avesyayincilik.com





# **CONTENTS**

SYST	ΈΜΔΤ	IC RE	VIEWS
			* ! = * ! ~

# Urooncology

Orosinosiogy		
A Systematic Review and Meta-Analysis of the Cancer-Related and Functional Outcomes of High-Intensity Focused Ultrasound, Open Radical Prostatectomy, Robot Assisted Radical Prostatectomy, and External Beam Radiation Therapy in Primary Treatment of Localized Low- or Intermediate-Risk Prostate Cancer Bassem Toeama, Emmanuel Papadimitropoulos, Nathan Perlis, Paul Grootendorst, Bassem Hamandi	1	
Role of Neoadjuvant Chemotherapy on Pathological, Functional, and Survival Outcomes of Upper Tract Urothelial Carcinoma Patients: A Systematic Review and Meta-Analysis  Abdalla Ali Deb, Pragnitha Chitteti, Naufal Naushad, Wael Asaad, Steve Leung, Alice Hartley, Hosam Serag		
Neurourology		
Management Modalities of Primary Bladder Neck Obstruction in Young Adult Men: A Systematic Review and Meta-analysis Ankur Mittal, Gurpremjit Singh, Vikas Kumar Panwar, Sanjay Sinha, Arup Kumar Mandal	25	
REVIEW		
Urooncology		
Robot-Assisted Urological Oncology Procedures, Outcomes, and Safety in Frail Patients: A Narrative Review of Available Studies		
Nikolaos Kostakopoulos, Themistoklis Bellos, Evangelos Malovrouvas, Stamatios Katsimperis, Athanasios Kostakopoulos		
ORIGINAL ARTICLES		
Endourology		
A Prospective, Randomized Study Comparing the Outcome After Thulium Laser Enucleation of the Prostate with Conventional Monopolar TURP for the Treatment of Symptomatic Benign Prostatic Hyperplasia  Ajaykumar Dhirubhai Tadha, Debansu Sarkar, Dilip Kumar Pal	42	
Holmium Laser Enucleation of Prostate: Is novel En Bloc Enucleation Technique Better Than the Traditional 2-Lobe Technique—A Prospective Randomized Study Abhay Dinkar Mahajan, Arpit Rajendra Sharma, Martand G Patil	47	
Female Urology		
A Pilot Study of Functional Brain Magnetic Resonance Imaging in BPS/IC Patients: Evidence of Central Sensitization Pedro Abreu-Mendes, Diogo Dias, Francisca Magno, Guilherme Silva, José Rodrigues-Fonseca, Paulo Dinis, Francisco Cruz, Rui Almeida Pinto	53	
Comparative Analysis Between Laparoscopic Extravesical Repair and Laparoscopic O'Connor Repair for Supratrigonal Vesicovaginal Fistula	58	
Yash Manharlal Tilala, Sabyasachi Panda, Amiya Shankar Paul, Pramod Kumar Mohanty, Sanjay Choudhuri, Samir Swain		
LETTER TO THE EDITORS		
Endourology		
Risk Related to Increasing Indications for Retrograde Intrarenal Surgery  Guglielmo Mantica, Francesca Ambrosini, Rafaela Malinaric, Alessandro Calarco, Carlo Terrone	66	
Editorial letter to: Incidence of Ureteric Strictures Following Ureteroscopic Laser Lithotripsy: Holmium: YAG Versus Thulium Fiber Laser  Mariela Corrales, Aideen Madden, Olivier Traxer	68	

# **ACKNOWLEDGEMENT OF REVIEWERS**

Acknowledgement of Reviewers 70