

Official Journal of the Turkish Association of Urology

Volume 50 · Issue 4 · July 2024

UROLOGY RESEARCH &PRACTICE

Formerly Turkish Journal of Urology







Editor in Chief

Ates KADIOĞLU

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

Managing Editor

Mustafa KADIHASANOĞLU

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

Associate Editors Uro-Oncology

Juan Gómez RIVAS

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

Endourology

Giorgio BOZZINI

Director and Head Department of Urology, Deputy Director Division of Surgery, ASST Lariana (CO), Italy

Andrology (Sexual and Reproductive Medicine)

Ranjith RAMASAMY

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

Ashok AGARWAL

Global Andrology Forum, Moreland Hills, USA and Cleveland Cliniz, Ohio, 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, Türkiye

Digital Media Editor

Tümay İPEKCİ



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

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

Ashok AGARWAL

Cleveland Clinic American Center for Reproductive Medicine, Ohio, USA

Bülent AKDUMAN

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

Ali ATAN

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

Erhan ATEŞ

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

Derya BALBAY

Department of Urology, Koç University Hospital, İstanbul, Türkiye

Numan BAYDİLLİ

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





Ömer BAYRAK

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

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, Türkiye

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, Türkiye

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, Türkiye

Sakip ERTURHAN

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

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, Türkiye

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, Türkiye

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, Türkiye

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, Türkiye

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, Türkiye

Kemal SARICA

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

Kymora SCOTLAND

Ronald Reagan UCLA Medical Center, Los Angeles CA, USA

Mesrur Selçuk SILAY

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

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, ${\sf UK}$

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, Türkiye

IXVES G

General Manager

Ali ŞAHİN

Journal Managers

Deniz KAYA Irmak BERBEROĞLU **Publications Coordinators**

Derya AZER Nisanur ATICI Şeref Mert GÜCÜN Lütfiye ÇETİN Arzu ARI

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, Türkiye

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 VEERATTERAPİLLARY

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

M. Önder YAMAN

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

Jeremy YC TEOH

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

Selçuk YÜCEL

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

Emrah YÜRÜK

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

Run WANG

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

Publications Technologies Coordinator

Ayça Nur SEZEN

Project Assistant

Ozan ŞAHİN

Contact

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

Publishing Service: AVES

Address: Büyükdere Cad., 199/6 34394

Şişli, İstanbul, Türkiye 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, Türkiye

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, Türkiye

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





261

CONTENTS

		7	A
-	_ \	v I	ww

General Urology

Meta Analysis of Efficacy and Safety of Prostate Biopsy: A Comparison Between Transperineal and Transrectal Approach
Syah Mirsya Warli, Stivano Rizky Valentino Torry, Dhirajaya Dharma Kadar, Ginanda Putra Siregar, Fauriski Febrian Prapiska

ORIGINAL ARTICLES

Comparison of Temperature Changes Between Holmium-YAG Laser and Thulium Fiber Laser in an In Vitro Setting

Vaibhavkumar Patel, Kshitij Raghuvanshi, Krushnadevsinh Jadeja, Rajeev Chaudhari

Transplantation

Factors Affecting the Presence of Renal Cortical Cysts in Kidney Donors

Sevim Nuran Kuşlu Çiçek, Amil Huseynov

225

General Urology

Vesicoureteral Reflux in Children with Accidental Diagnosis of Unilateral Small Size Kidney

Mohsen Mohammadi, Khadijeh Ebrahimi, Soraya Khafri, Maryam Nikpour, Hadi Sorkhi

Interim Results of Rigicon Penile Prosthesis Implantation in a Single Center: The Largest Series in Türkiye

234

Pediatric Urology

Muhammet İhsan Karaman, Rasim Güzel, Duygu Kirkik, Orhan Koca

Population Kinetics and Protein Profiles of Co-Cultured Adult and Fetus Rabbit Bladder Smooth Muscle Cells

Hayrunisa Kahraman Esen, Burcu Biltekin, Mevlit Korkmaz, B. Haluk Güvenç

General Urology

The Impact of Levothyroxine and Testosterone Administration on Bladder Contractility in the Rat Model of
Propylthiouracil-Induced Hypothyroidism
247
Didem Yılmaz Oral, Berna Güven Ciloğlu, Serap Gür

Andrology

Quality of Chatbot Responses to the Most Popular Questions Regarding Erectile Dysfunction 253 İrfan Şafak Barlas, Lütfi Tunç

General Urology

The Effect of St. John's Wort Oil on Urethral Stricture: An Experimental Study in Rat Model
Kazım Yelsel, Ergün Alma, Ömer Yüceer, Zeynel Abidin Taş, Berna Totan Ateş, Murat Kobaner, Halil Esimek,
Adem Altunkol, Umut Ünal, Ali Ayyıldız

VIDEO ARTICLE

Urooncology

Concurrent Renorrhaphy During Renal Mass Excision in Laparoscopic Nephron-Sparing Surgery:

A Novel Surgical Technique

Nurullah Hamidi, Tuncel Uzel