

Official Journal of the Turkish Association of Urology

Volume 50 · Issue 3 · May 2024

UROLOGY RESEARCH &PRACTICE

Formerly Turkish Journal of Urology







Editor in Chief

Ates KADIOĞLU

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

Managing Editor

Ozan EFESOY D

University of Health Sciences, Hamidiye Faculty of Medicine, İstanbul, Türkiye

Department of Urology, Mersin City Training and Research Hospital, Mersin, Türkiye

Associate Editors Uro-Oncology

Juan Gómez RIVAS

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

Endourology

Lazaros TZELVES



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

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, Türkiye

Digital Media Editor

Tümay İPEKÇİ



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 ATES

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, 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

MAVES

General Manager

Ali ŞAHİN

Finance Coordinator

Sinem Fehime İLHAN

Journal Managers

Deniz KAYA Irmak BERBEROĞLU

Publications Coordinators

Alara ERGIN İrem ÖZMEN Derya AZER Nisanur ATICI Seref Mert GÜCÜN

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

Web Specialist

Erdem ERCİVAN

Project Assistant

Batuhan KARA

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





CONTENTS

D	F٧	/15	ΞV	JS.

Uro-oncology

Prognostic Value of TGF-β Expression in Bladder Cancer: A Systematic Review and Meta-analysis	148
Shima Kianmehr, Mohammad Vahabirad, Atefeh Seghatoleslam, Erfan Sadeghi,	
Roozbeh Kiani, Hadi Ghasemi	

General Urology

Reporting and Grading of Complications in Urological Surgery: Current Trends and Future Perspectives	154
Stamatios Katsimperis, Themistoklis Bellos, Ioannis Manolitsis, Ioannis Kyriazis, Panagiotis Angelopoulos,	
Panagiotis Neophytou, Sotirios Kapsalos, Nikolaos Kostakopoulos, Lazaros Tzelves, Ioannis Varkarakis,	
Athanasios Papatsoris, Andreas Skolarikos, Iraklis Mitsogiannis	

Uncovering the Evidence for Sustainability in Urology: A Scoping Review	160
Habeeb Abdulrasheed, Ayokunle Adenipekun, Waleed Elsayed, Mohamed S. Mohsin,	
Daniel Madarshahian, Humood Almedej, Banan Osman	

Female Urology

· ········ · · · · · · · · · · · · · ·	
The Psychosocial Impact of Urinary Dysfunction	167
Stephanie Gleicher, Elisabeth M. Sebesta, Roger R. Dmochowski	

ORIGINAL ARTICLES

Sexual Medicine and Male Infertility

Pelvic Floor Muscle Anatomy and its Contribution to Penile Erection in Olive Baboons	173
Roman Ovchinnikov, Ilya Pyatnitskiy	
A New Sperm Concentration Threshold for Y Chromosome Microdeletion Anglysis in Infertile Men-	

A New Sperm Concentration Threshold for T Chromosome Microdeletion Analysis in Infertile Men:	
Could It Be Azoopermia?	181
Ali Çift, Can Benlioğlu, Mehmet Özgür Yücel, Muhammer Özgür Çevik, Bedreddin Kalyenci,	
Alper Gök, Sait Sever, Hasan Sulhan, Haydar Bağış, Ali Ayyıldız	

Urooncology

Hounsfield Unit on Preoperative Computed Tomography as an Indicator of Prognosis in Patients with Liposarcoma	187
Ryo Andy Ogasawara, Shugo Yajima, Naoki Imasato, Kohei Hirose, Ken Sekiya, Madoka Kataoka,	
Yasukazu Nakanishi, Hitoshi Masuda	

Urinary Infact Urology

Scoring System to Personalize Management of Emphysematous Pyelonephritis	193
Ankur Mittal, Deepak Kumar, Vikas Kumar Panwar, Rohit Ranjan, Shiv Charan Navriya,	
Akshay Upadhyaya, Harshit Agarwal, Gautam Shubhankar, Arup Kumar Mandal	

General Urology

Urogenital Tuberculosis and Delayed Diagnosis: A Qualitative Study	198
Augusto de Azevedo Barreto, Humberto Elias Lopes,	
José Murillo Bastos Netto, André Avarese Figueiredo	

SURGICAL TECHNIQUE

Urooncology

"Minho Technique" for Laparoscopic Radical Cystectomy with Intracorporeal Ileal Conduit	203
Andreia Cardoso, Sara Anacleto, Catarina Laranjo Tinoco, Ana Sofia Araújo,	
Mariana Capinha, Luís Borges Pinto, Aparício Coutinho, Catarina Tavares,	
Vera Marques, Paulo Mota, Miguel Mendes, Carlos Oliveira,	
João Pimentel Torres, Emanuel Carvalho-Dias	