and Web Of Science

A PEER-REVIEWED QUARTERLY JOURNAL



# JURKISH JOURNAL OF UROLOGY

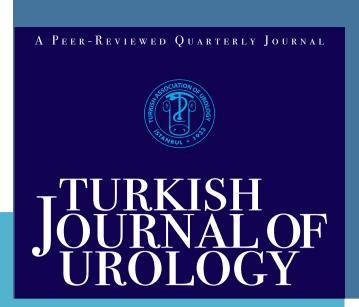


Emre Huri et al. The novel laparoscopic training 3D model in urology with surgical anatomic remarks: Fresh-frozen cadaveric tissue. Page: 228









#### **Owner**

### Ateş KADIOĞLU

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

#### **Editor in Chief**

#### Murat BOZLU

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

#### **Associate Editors**

#### Önder CANGÜVEN

Department of Urology, Hamad General Hospital, Weill Cornell Medical College in Qatar, Doha, Qatar

#### Fikret ERDEMİR

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

#### A. Rahmi ONUR

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

#### Y. Tarkan SOYGÜR

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

# Altuğ TUNCEL

Clinic of Urology, Ankara Numune Training and Research Hospital, Ankara, Turkey

#### **Biostatistical Editor**

# Halim İŞSEVER

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

English Language Advisor Urologist, and Medical Translator: Gürkan KAZANCI

Türk Üroloji Derneği adına sahibi ve Sorumlu Yazı İşleri Müdürü / Owner and Responsible Manager on behalf of the Turkish Association of Urology Turkey: Ateş Kadıoğlu • Yayın türü / Publication Type: Yerel süreli / Local periodical • Basım yeri / Printed at: Matsis Matbaa Hizmetleri San. ve Tic. Ltd. Şti. Tevfikbey Mah. Dr. Ali Demir Cad. No: 51 Sefaköy, İstanbul, Turkey (+90 212 624 21 11) • Basım tarihi / Printing Date: Kasım 2016 / November 2016 • Türk Üroloji Derneği tarafından yayınlanmaktadır / Published by Turkish Association of Urology of Turkey, Prof. Nurettin Oktem Sok. Lale Palas Apt. No: 18/2, 34382 Sisli, Istanbul (+90 212 232 46 89)



Publisher **İbrahim KARA** 

Publication Directo Ali ŞAHİN

Deputy Publication Directors Gökhan ÇİMEN Dilşad GÜNEY ÖZCAN

Publication Coordinators Esra GÖRGÜLÜ Betül ÇİMEN Zeynep YAKIŞIRER Aydın Baran GÜRPINAF Gizem KAYAN Melike Buse SENAY

Project Coordinator Hakan ERTEN

Project Assisstants Duygunur CAN Aylin ATALAY Sükrive YILMAZ Graphics Department Ünal ÖZER Neslihan YAMAN Deniz DURAN

Contact
Address: Büyükdere Cad.
No: 105/9 34394
Mecidiyeköy, Şişli-İstanbul, Turkey
Phone: +90 212 217 17 00
Fax: +90 212 217 22 92



#### International Editorial Board

#### Per-Ander ABRAHAMSSON

Department of Urology, School of Medicine, Malmö University, Malmö, Sweden

#### Ziya AKÇETİN

Gronau and Erlangen-Nürnberg University, Germany

#### **Peter ALKEN**

Department of Urology, Heidelberg Medical School, Ruprect Karls University, Mannhein, Germany

# Barış ALTAY

Department of Urology, School of Medicine, Ege University, Izmir, Turkey

# Haluk ANDER

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

#### **Dean ASSIMOS**

Department of Urology, School of Medicine, Alabama University, Alabama, USA

#### Ali ATAN

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

#### Gopal H. BADLANI

Long Island Jewish Medical Center, New York, USA

#### Derya BALBAY

Department of Urology, İstanbul Memorial Hospital, İstanbul, Turkey

#### Murad BAŞAR

Department of Urology, İstanbul Memorial Hospital, İstanbul, Turkey

#### Michael L. BLUTE

Department of Urology, Mayo Clinic, Minnesota, USA

#### **Guy BOGAERT**

Department of Urology, UZ Leuven University, Antwerp, Belgium

#### Selahittin ÇAYAN

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

#### Serdar DEĞER

Paracelsus Krankenhaus Ostfildern, Germany

#### **Collin P. DINNEY**

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

#### Michael E. DISANTO

Department of Urology, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY, USA

#### **Bob DJAVAN**

Department of Urology, NYU Langone Medical Center, New York, USA

#### **Shin EGAWA**

Department of Urology, Jikei University School of Medicine, Tokyo, Japan

#### Tibet ERDOĞRU

Department of Urology, Memorial Ataşehir Hospital, İstanbul, Turkey

#### **Bülent EROL**

İstanbul Medeniyet University Göztepe Training and Research Hospital, İstanbul, Turkey

#### Randy FAGIN

Texas Institute for Robotic Surgery, Texas, USA

#### John M. FITZPATRICK

Department of Urology, Mater Misericordiae University, Dublin, Ireland

# Rüştü Cankon GERMİYANOĞLU

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

#### Selcuk GÜVEN

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

#### H. Barton GROSSMAN

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

#### **Sender HERSCHORN**

Department of Urology, University of Toronto, Toronto, Ontario, Canada

#### **Didier JACQMIN**

Department of Urology, Hospital Civil, Strasbourg, France



#### Klaus Peter JUNEMANN

Department of Urology and Paediatric Urology, Keil Campus of University Hospital Schleswig-Holstein, Kiel, Germany

#### Ates KADIOĞLU

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

#### Muammer KENDİRCİ

Department of Urology, İstanbul LİV Hospital, İstanbul, Turkey

#### Alim KOSAR

Department of Urology, Isparta Medical Park Hospital, Isparta, Turkey

#### **Martin KOYLE**

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

#### Michael MARBERGER

Department of Urology, Vienna Medical University, Vienna, Austria

#### Ahmet Yaser MÜSLÜMANOĞLU

Department of Urology, Ministry Health Bağcılar Education and Research Hospital, Bağcılar, Turkey

#### **Oktav NAZLI**

Department of Urology, Ege University School of Medicine, İzmir, Turkey

#### **Victor NITTI**

Department of Urology, School of Medicine, New York University, New York, USA

# Yaşar ÖZGÖK

The Board of Trustees, Turkish Air Force, Ankara, Turkey

#### **Anup PATEL**

Nationwide Children's Hospital and The Ohio State University College of Medicine Columbus, OH, USA

#### Louis L. PISTERS

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

#### **Hein Van POPPEL**

Department of Urology, University Hospitals Leuven, Leuven, Belgium

#### Glenn PREMINGER

Division of Urologic Surgery, Duke University Medical Center, Durham, NC, USA

#### Berkan REŞORLU

Department of Urology, Çanakkale Onsekiz Mart University School of Medicine, Ankara, Turkey

#### Kemal SARICA

Department of Urology, Lütfi Kırdar Kartal Teaching and Research Hospital, İstanbul, Turkey

## **İlker SEÇKİNER**

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

#### Sena F. SEZEN

Department of Pharmacology, School of Medicine, Karadeniz Technical University, Trabzon, Turkey

#### Ajay K. SINGLA

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

#### **Andrea TASCA**

Department of Urology, San Bortolo Hospital, Vicenza, Italy

#### Ali İhsan TASCI

Department of Urology, Bakırköy Dr. Sadi Konuk Education Hospital, İstanbul, Turkey

#### Hans-Göran TISELIUS

Department of Surgery, University Hospital, Linköping, Sweden

#### Murat TUNÇ

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

## **Burak TURNA**

Department of Urology, School of Medicine, Ege University, İzmir, Turkey

#### Kadir TÜRKÖLMEZ

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

#### Mustafa USTA

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

#### Ali ÜNSAL

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

#### Ayhan VERİT

Clinic of Urology, Fatih Sultan Mehmet Training and Research Hospital, İstanbul, Turkey

#### **Wolfgang WEIDNER**

Department of Urology, Justus Liebig University, Giessen, Germany

#### M. Önder YAMAN

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

#### Selçuk YÜCEL

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



# AIMS AND SCOPE

Turkish Journal of Urology (Turk J Urol) is the scientific, open access and official publication of the Turkish Association of Urology which is being published 4 issues per year; in March, June, September and December.

The aim of the Turkish Journal of Urology is to publish scientifically high-quality research articles. In addition, reviews, editorials, letters to the editor and case reports are also being accepted.

The Turkish Journal of Urology is an international journal, based on the independent and unbiased peer-review principles. The journal's publication language is English. Articles are being reviewed according to the 'double-blind' review system, in which, both the advisors and the authors are blinded. Accepted manuscripts are edited by American Journal Experts.

The target group of the Turkish Journal of Urology is the urology specialists, medical specialty fellows and other specialists and practitioners who are interested in the science of urology.

"Editorial Board Guidelines" including Turkish Journal of Urology's working system and principles is available on journal's website.

Turkish Journal of Urology is indexed in PubMed Central, Web of Science-Emerging Sources Citation Index, TUBITAK ULAKBIM TR Index, Scopus, DOAJ, HINARI, EBSCO, CINAHL, GALE and ProQuest.

#### Subscription

The annual printed material subscription cost of the Turkish Journal of Urology is 50 Euros, and is being distributed free to the members of the Turkish Association of Urology. The full texts of all the articles are being issued free online at www.turkishjournalofurology.com. Those who want to subscribe to the journal should apply to the Turkish Society of Urology.

Address: Prof. Nurettin Oktem Sok. Lale Palas Apt. No: 18/2, 34382 Sisli, Istanbul

Phone: +90 212 232 46 89 Fax: +90 212 233 98 04 E-mail: uroturk@uroturk.org.tr

#### **Permissions and Advertisements**

Applications for permissions and advertisements should be made to the Editorial Office.

#### Informations for the Authors

Instructions for authors are available on the pages of the journal and in the following link: www.turkishjournalofurology.com

#### Responsibility of the Authors

All opinions and reports within the articles that are published in the Turkish Journal of Urology are the personal opinions of author(s), not the opinions of editors, editorial board or the publisher. The Turkish Association of Urology, editor, editorial board and the publisher do not accept any responsibility for the articles. Acid-free paper is being used in the Turkish Journal of Urology.



# INFORMATION TO AUTHORS

Turkish Journal of Urology (Turk J Urol) is a peer-reviewed journal published by the Turkish Society of Urology. The Journal publishes original articles, case reports, reviews, editorial comments, letters to the editor, guidelines, visual urology (as DVD) and abstracts of materials presented at national urology meetings, pertaining to the field of urologic diseases. Turkish Journal of Urology is published four times a year and its publication language is English.

Manuscripts should be prepared in accordance with ICMJE-Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (updated in December 2015 - http://www.icmje.org/icmje-recommendations.pdf). A manuscript will be considered only with the understanding that it is an original contribution that has not been published elsewhere. Before the peer-review process, all submissions are first reviewed by the editor. At the final stage of publication, a comprehensive copy-editing is undertaken for accuracy and clarity, after which galley proofs are sent to the authors for approval.

Authors are responsible for the content of the submitted material. All authors should sign a written consent indicating that they have seen and approved the final version of the manuscript. At the time galley proofs are sent, the authors are required to fill in a form covering authorship contributions, whether any conflict of interest issue exists, and transfer of copyright to the Journal.

Manuscripts reporting the results of experimental studies on human subjects must include a statement that the study protocol was approved by the ethics committee of the institution and informed consent of the subjects was obtained after the nature of the procedure(s) had been fully explained. The authors are strongly requested to send the approval of the ethics committee together with the manuscript. In addition, manuscripts on animal studies should describe procedures indicating the steps taken to eliminate pain and suffering. Authors are advised to comply with internati-

onally accepted guidelines including the Helsinki Declaration, and guidelines for Good Clinical Practice and Good Laboratory Practice and state such compliance in their manuscripts.

Manuscripts should not exceed word limits set by the Journal (including abstract, material and methods, results, and discussion; excluding references, tables/ figures, and legends), that is, 3000 words for original articles, 1500 words for case reports reports, and 5000 words for reviews. The maximum number of tables and figures (total) should be 6 regardless of type of manuscript. Abstracts should not exceed 250 words. Author(s), the title of the paper and subtitles should be in Times New Roman, bold, 12 pt. Body text should be in Times New Roman, 12 pt. Authorship should be based only on substantial contributions that meet the authorship criteria.

#### Manuscript submission

All manuscripts should be submitted via the on-line system of the Journal at http://www.journalagent.com/uroloji/. Instructions for submissions can be found at http://www.journalagent.com/uroloji/.

#### Manuscript preparation

Manuscripts should be typeset on a standard A4 page layout, with 2.5 cm (1 inch) margins on each side of the page, with double-line spacing and each page numbered consecutively.

Parts of the manuscript should be arranged in the following order: (i) The title is in English (and alsoTurkish for Turkish authors), (full names of the authors, institution address (Authors' affiliations must be the institutions where the research presented in the article took place), telephone and fax numbers, and e-mail address will be submitted at steps 3, 4 and 5 of Journal Agent webpage, should NOT be written in main text); (ii) English (and also Turkish for Turkish authors) abstracts; (iii) Introduction; (iv) Material and methods; (v) Results; (vi) Discussion; (vii) References. Any footnote concerning previous presentations or funding of the manuscript should be placed on the title page.



Although *Turkish Journal of Urology* does not specifically limit the number of authors in original articles (except for review and case report articles that number of authors should be limited to 2 and 4, respectively), articles submitted with an unusual number (more than 6) of authors invite scrutiny by editors and reviewers for clear justification for the presence of each person on the authorship list. If the number authors is more than six, correspondent author should upload an 'Authorship Contribution Letter' for the contribution of each author.

The body of the text can be appropriately subtitled. Case reports should be presented under the titles Introduction, Case report, and Discussion. To facilitate reading, reviews can be appropriately subtitled.

**Abstracts:** Abstracts should have the following structure: Objectives, Material and methods, Results, and Conclusion. Abstracts for case reports and reviews should be unstructured.

**Keywords:** Three to five keywords (in alphabetical order) can be submitted. Index Medicus Medical Subjects Headings (MeSH) can be used for this purpose (web page: http://www.ncbi.nlm.nih.gov/pubmed/).

Material and methods: This section should give information with adequate details on the institution the study was conducted, dates for the study period, patients' characteristics, methods, and how patients were selected. A clear description of the statistical methods should also be given.

**Results:** This section should give findings in detail, supported by illustrations and tables. The authors should avoid repeating data in the text that are already presented in tables and illustrations.

**Discussion:** It should mainly rely on the conclusions derived from the results of the study, with appropriate citations from the most recent research. At the end of the Discussion, any contribution that is not related to authorship can be mentioned under the title Acknowledgements.

Use of abbreviations should be limited to the most standard ones.

Figures and tables: Illustrations and tables accompanying the text should be uploaded on-line. The format of illustration files can be JPEG or TIFF. Tables and figure legends should be double-spaced on separate pages. Both tables and illustrations should be numbered with arabic numerals in the order in which they appear in the text. Microscopic photographs should include information on staining and magnification. Full terms for abbreviations should be listed under tables and figures.

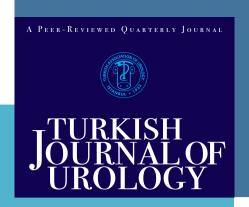
**References:** References should be numbered as superscript number in the order in which they are mentioned in the text (e.g. "... technique described by Burnett et al.<sup>[1]</sup> "). Unpublished data or personal communications should not be used. Direct use of references is strongly recommended and the author may be asked to provide full-text of cited references. Journal titles should be abbreviated according to the Index Medicus; otherwise, the full tittle of the journal should be given. All authors if six or fewer should be listed; otherwise, the first six and "et al." should be written. The style and punctuation should follow the formats outlined below:

**Journal:** Sezen SF, Lagoda G, Burnett AL. Role of immunophilins in recovery of erectile function after cavernous nevre injury. J Sex Med 2009;6:340-6.

**Book:** Kratz AR. Physiology of the kidney. 3rd ed. Philadelphia:Lippincott Williams & Wilkins; 2000.

**Chapter in a book:** Anderson JL, Muhlestein JB. The role of infection. In: Theodor P, editor. Extracorporeal ureteric stenting during laparoscopic pyeloplasty. Philadelphia: W. B. Saunders; 2003. p. 88-107.

When necessary, manuscripts submitted will be edited and corrected by the Editorial Board without altering the original content. Reprints are not provided after the publication.



# **CONTENTS**

# **REVIEWS**

Andrology	
Nonsurgical treatment options in Peyronie's Disease: 2016 update Raidh A. Talib, Mohammed Abdulkareem Ibrahim, Önder Cangüven	217
Laparoscopy	
The novel laparoscopic training 3D model in urology with surgical anatomic remarks: Fresh-frozen cadaveric tissue Emre Huri, Mehmet Ezer, Eddie Chan	224
ORIGINAL ARTICLES	
Andrology	
Long-acting liposomal bupivacaine decreases inpatient narcotic requirements in men undergoing	230
penile prosthesis implantation Brittney H. Cotta, Charles Welliver, Anand Brahmamdam, Cynthia L. Bednarchik, Danuta Dynda, Tobias S. Köhler	
The histopathological evaluation of healing effects of vitamin C administered before methotrexate therapy on testicular injury induced by methotrexate Aysun Sayılmaz, Yasemin Yuyucu Karabulut, Aydan Özgörgülü	235
Urooncology	
Is extended pelvic lymph node dissection for prostate cancer the only recommended option? A systematic	240
over-view of the literature Thomas Rees, Nicholas Raison, Mohammed Iqbal Sheikh, Zahra Jaffry, Sanjeev Madaan, Ben Challacombe, Kamran Ahmed, Prokar Dasgupta	
Diagnostic value of microRNAs in prostate cancer patients with prostate specific antigen (PSA) levels between 2, and 10 ng/mL Serin Akbayır, Necati Muşlu, Sema Erden, Murat Bozlu	247
Clinico-pathological outcomes of post- primary and salvage chemotherapy retroperitoneal lymph node dissection for mixed germ cell tumors, King Hussein Cancer Center experience Kholoud Alqasem, Ibrahim Abukhiran, Judy Jasser, Tamer Bisharat, Riyad T. Ellati, Jakub Khzouz, Ibrahim Al-Saidi, Ali Al-Daghamin	256
Endourology	

261

The role of ultra-mini percutaneous nephrolithotomy in the treatment of kidney stones Abdulkadir Tepeler, İsmail Başıbüyük, Muhammed Tosun, Abdullah Armağan



# CONTENTS

failure patient? A prospective randomized controlled trial  Bimalesh Purkait, Manoj Kumar, Ankur Bansal, Ashok Kumar Sokhal, Satya Narayan Sankhwar, Kawaljit Singh	267
Laparoscopy Impact of robotic partial nephrectomy with and without ischemia on renal functions: experience in 34 cases Kemal Ener, Abdullah Erdem Canda, Serkan Altınova, Ali Fuat Atmaca, Erdal Alkan, Erem Asil, Muhammet Fuat Özcan, Ziya Akbulut, Mevlana Derya Balbay	272
Pediatric Urology The effectiveness of biofeedback therapy in children with monosymptomatic enuresis resistant to desmopressin treatment Eyüp Burak Sancak, Alpaslan Akbaş, Ömer Kurt, Cabir Alan, Ahmet Reşit Ersay	278
Distribution of interstitial cells of Cajal in the bladders of fetal rats with retinoic acid induced myelomeningocele Ali Tekin, Osman Zeki Karakuş, Gülce Hakgüder, Oğuz Ateş, Erdener Özer, Mustafa Olguner, Feza Miraç Akgür	285
Urinary Infection  For reliable urine cultures in the detection of complicated urinary tract infection, do we use urine specimens obtained with urethral catheter or a nephrostomy tube?  Gülay Dede, Özcan Deveci, Onur Dede, Mazhar Utanğac, Mansur Dağgulli, Necmettin Penbegül, Namık Kemal Hatipoğlu	290
<b>Transplantation</b> Robotic kidney transplantation: The Bakırköy experience Volkan Tuğcu, Nevzat Can Şener, Selçuk Şahin, Abdullah Hızır Yavuzsan, Fatih Gökhan Akbay, Süheyla Apaydın	295
CASE REPORTS	
<b>Urooncology</b> Metastasis of prostate adenocarcinoma to the frontal and ethmoid sinus Fatih Akdemir, Mustafa Aldemir, Hasan Çakar, Gülnur Güler	299
Pediatric Urology Recurrence of childhood nephrogenic adenoma in urinary bladder developed four years after previous surgery despite intravesical sodium hyaluronate therapy Burak Özçift, Ayper Kaçar, Hüseyin Tuğrul Tiryaki	303
REVIEWER LIST	307
MEETINGS & CONGRESSES	308



# **EDITORIAL**

#### Dear Colleagues;

As we are entering winter season we are saying "hello" to you with the last issue of the year 2016. Our December 2016 issue contains two reviews, and 12 original articles, and 2 case reports. Since our journal is accessible via. PubMed Central, and Emerging Sources Citation Index (ESCI), which is a new version of Web of Science (WoS), studies of both nationally, and internationally esteemed researchers have taken place in this issue of our journal.

Organ transplantation, and especially renal transplantation is a critically important issue. Especially in recent years we are reading about limited number of robotic renal transplantation series. In Turkey for the first time in December 2015, robotic renal transplantation was realized in Bakırköy, Dr Sadi Konuk Training and Research Hospital. In this issue, we believe that you will read data of 15 cases of robotic renal transplantation performed by Volkan Tuğcu, and his team from the same center with great interest. We are congratulating them, and wish them continued success with their accomplishments.

Review articles in our December 2016 issue emphasize the importance of fresh frozen cadaver model in laparoscopy training and 2016 update of nonsurgical treatment options of Peyronie's disease. First review article written by Huri, Ezer, and Chan provides us important information about the role of 3D simulation models in laparoscopic training with fresh frozen cadavers. Second review article was written by Talib et al. We thank them for the contribution to our journal.

We think that original articles, and case reports contained in uro-oncology, andrology, endourology, laparoscopy, and pediatric urology sections of this issue will make serious contributions to urology literature, and we also express our gratitude to the authors.

As you know, 25<sup>th</sup> National Congress of Urology, and 14<sup>th</sup> International Prostate Forum were realized between 6-9 October, 2016 in Girne City of Turkish Republic of Northern Cyprus. The sessions, and workshops of the congress were realized successfully with the contribution of nationally, and internationally renown, and outstanding authorities in the field of urology. We look forward to publishing your highly qualified scientific studies presented at this congress.

With Deep Respect,

In the name of the Editorial Board of the Turkish Journal of Urology Prof. Murat Bozlu Editor