

# UROLOGY

## Review Articles

### Evolution of the Liquid Biopsy in Metastatic Prostate Cancer 1

Jose G. Moreno, and Leonard G. Gomella

### Indocyanine Green (ICG) in Urologic Surgery 10

Elie Kaplan-Marans, Juan Fulla, Nir Tomer, Khawaja Bilal, and Michael Palese

## Grand Rounds

### Pan-Urethral Condylomata Acuminata in an Immunocompromised Patient 18

Aleksandra Walasek, Frank A. Myers, John F. Sullivan, Curran Emeruwa, John M. Shields, and Andrew G. Winer

### Functional Recovery From Prolonged Warm Ischemia: Compelling Case Scenarios 22

Rebecca A. Campbell, Molly E. DeWitt-Foy, Hajime Tanaka, Yun-Lin Ye, Yanbo Wang, Jeffrey Reese, Venkatesh Krishnamurthi, Wen Dong, and Steven C. Campbell

### [<sup>18</sup>F]Fluciclovine-PET Guided Salvage Lymph Node Dissection Following Radical Prostatectomy 28

Samuel J. Galgano, Carli E. Calderone, Jeffrey W. Nix, and Soroush Rais-Bahrami

### Atypical Presentation of Seminoma in the Prostate – Case Report 33

Zehra Kazmi, Nasir Sulaiman, Mazhar Shaukat, Ahsan Rafi, Zubair Ahmed, and M. Hammad Ather

## Ambulatory, Office-based, and Geriatric Urology

### A Comparison of Clinical Outcomes of Operating Room Versus Office-based Ureteral Stenting With the Novel Use of Nitrous Oxide Sedation 37

Karen M. Doersch, Kim H. Thai, G. Luke Machen, Erin T. Bird, Thomas P. Reilly, and Marawan M. El Tayeb

## Education

### Impact of Urology Resident Involvement on Intraoperative, Long-Term Oncologic and Functional Outcomes of Robotic Assisted Laparoscopic Radical Prostatectomy 43

Jacob Baber, Ilene Staff, Tara McLaughlin, Joseph Tortora, Alison Champagne, Akshay Gangakhedkar, Kevin Pinto, and Joseph Wagner

### EDITORIAL COMMENT: John Z. Benton, Atul Lodh, Christopher J.D. Wallis, and Zachary Klaassen 47

### Resident Impact on Patient & Surgeon Satisfaction and Outcomes: Evidence for Health System Support for Urology Education 49

Bradley C. Holland, Neil Patel, Randy Sulaver, Bradford Stevenson, Jessica Healey, William Severino, Thomas Baron, David Lieber, David Roszhart, Kevin T. McVary, and Tobias S. Köhler

### EDITORIAL COMMENTARY: Margaret M. Higgins, and John Roger Bell 53

### AUTHOR REPLY: Bradley C. Holland, and Tobias S. Köhler 54

continued on page A4

**Cover Photo:** Circos plot with the analysis of 2417 kidney stone patients from the entire Vanderbilt HER using StoneX. Patients with missing stone composition subtype percentages were excluded. In the plot, each ring represents a specific analysis and each sector corresponds to one stone type. From innermost to outermost: the center of the plot shows a visual representation of stone type link. Each link width is proportional to the percent of patients with the corresponding stone types. The width of the sector area with no links represents the proportion of patients with only the corresponding stone composition. For example, a large proportion of calcium oxalate monohydrate stones also had calcium oxalate dihydrate, and vice versa. A large proportion of calcium oxalate monohydrate stones were 100% pure. Moving outward, the next 4 colored rings from outer to inner show distributions by stone composition, surgical procedures (none, one, multiple), sex, and race. Further outward shows histograms with proportions of stones with respective percent compositions.

## Endourology and Stones

### Performance of a Natural Language Processing Method to Extract Stone Composition From the Electronic Health Record 56

Cosmin A. Bejan, Daniel J. Lee, Yaomin Xu, and Ryan S. Hsi

### Size is Not Everything That Matters: Preoperative CT Predictors of Stone Free After RIRS 63

Alexandre Danilovic, Bruno Aragão Rocha, Fabio Cesar Miranda Torricelli, Giovanni Scala Marchini, Carlos Batagello, Fabio Carvalho Vicentini, Olivier Traxer, Publio Cesar Cavalcante Viana, Miguel Srougi, William C. Nahas, and Eduardo Mazzucchi

### Upper Tract Urothelial Carcinoma Grade Prediction Based on the Ureteroscopic Appearance: Caution Should be Taken 69

Jan Erik Freund, Jaap D. Legemate, Joyce Baard, Kasra Saeb-Parsy, Oliver Wiseman, Steeve Doizi, Esteban Emiliani, Alberto Breda, Bart J. Boodt, Ernst P. van Haarst, Mariska M.G. Leeflang, and Guido M. Kamphuis

### EDITORIAL COMMENT: Lambros Stamatakis, and Surena F. Matin 74

## Female Urology, Urodynamics, Incontinence, and Pelvic Floor Reconstructive Surgery

### Domain Comparison Between 6 Validated Questionnaires Administered to Women With Urinary Incontinence 75

Rena D. Malik, Deborah S. Hess, Alana Christie, Maude E. Carmel, and Philippe E. Zimmern

### Bladder Hydrodistention Does Not Result in a Significant Change in Bladder Capacity for Interstitial Cystitis/Bladder Pain Syndrome Patients 81

Stephen J. Walker, Andre Plair, Kshipra Hemal, Carl D. Langefeld, Catherine Matthews, Gopal Badlani, Joao Zambon, Heather Heath, and Robert J. Evans

## Health Services Research

### “A National Study Demonstrating the Need for Improved Frailty Indices for Preoperative Risk Assessment of Common Urologic Procedures” 87

Katherine A. Amin, Una J. Lee, Chengshi Jin, John Boscardin, Andrew R. Medendorp, Jennifer T. Anger, and Anne M. Suskind

### Evaluation of Implementation Outcomes After Initiation of a Shared Decision-making Program for Men With Prostate Cancer 94

Adam Peña, Zhiyu Qian, Sylvia Lambrechts, John N. Cabri, Casey Weiser, Hui Liu, Lorna Kwan, and Christopher S. Saigal

### Shorter Hospital Stay and Fewer Hospitalizations in Patients With Visible Hematuria on Direct Oral Anticoagulants Compared to on Vitamin K Antagonists 101

Martin Müller, Flavio Bosshard, Michael Nagler, Beat Roth, Aristomenis K. Exadaktylos, and Thomas C. Sauter

## Infertility

### Total Motile Sperm Count Trend Over Time: Evaluation of Semen Analyses From 119,972 Men From Subfertile Couples 109

Ashley W. Tiegs, Jessica Landis, Nicolás Garrido, Richard T. Scott Jr., and James M. Hotaling

### EDITORIAL COMMENT: Sarah C. Krzastek, and Ryan P. Smith 116

### AUTHOR REPLY: Ashley W. Tiegs 116

### Effects of Estrogen on Spermatogenesis in Transgender Women 117

Da David Jiang, Erica Swenson, Malachi Mason, Kevin R. Turner, Daniel D. Dugi, Jason C. Hedges, and Sarah L. Hecht

### EDITORIAL COMMENT: Stanton C. Honig 121

### AUTHOR REPLY: Da David Jiang, Erica Swenson, Malachi Mason, Kevin R. Turner, Daniel D. Dugi, Jason C. Hedges, and Sarah L. Hecht 121

## Laparoscopy and Robotics

### Use of a Novel Articulating Laparoscopic Needle Driver for Partial nephrectomy: An Initial Experience 123

Hari T. Vigneswaran, Ryan W. Dobbs, Jason Huang, Laurel A. Sofer, Whitney R. Halgrimson, and Simone Crivellaro

### EDITORIAL COMMENT: Mohammad Hajiha, and D. Duane Baldwin 127

### AUTHOR REPLY: Hari T. Vigneswaran, Ryan W. Dobbs, and Simone Crivellaro 128

**Reducing Pseudoaneurysm and Urine Leak After Robotic Partial Nephrectomy: Results Using the Early Unclamping Technique 130**

Joan C. Delto, Peter Chang, Sara Hyde, Kyle McAnally, Catrina Crociani, and Andrew A. Wagner

**EDITORIAL COMMENT:** David Canes, and Alison Levy 135

**AUTHOR REPLY:** Joan C. Delto, Peter Chang, Sara Hyde, Kyle McAnally, Catrina Crociani, and Andrew A. Wagner 135

**Oncology**

**Evolving Trends for Selected Treatments of T1a Renal Cell Carcinoma 136**

Johnathan Doolittle, Joshua Piotrowski, Keegan Zuk, Kenneth Jacobsohn, Peter Langenstroer, William See, and Scott Johnson

**Survival Benefit Persists With Delayed Initiation of Adjuvant Chemotherapy Following Radical Cystectomy for Locally Advanced Bladder Cancer 143**

Christopher J. Corbett, Leilei Xia, Ronac Mamtani, Stanley Bruce Malkowicz, and Thomas J. Guzzo

**Compliance With American Urological Association Guidelines for Nonmuscle Invasive Bladder Cancer Remains Poor: Assessing Factors Associated With Noncompliance and Survival in a Rural State 150**

Conrad M. Tobert, Kenneth G. Nepple, Bradley D. McDowell, Mary E. Charlton, Sarah L. Mott, Thomas S. Gruca, Laura Quast, and Bradley A. Erickson

**Nerves in the Areas Posterior to the Prostate Base Contribute to Erectile Function: An Intraoperative Electrical Stimulation Assessment 156**

Yasuhiro Kaiho, Jun Ito, Hiromichi Iwamura, Go Anan, Akito Kuromoto, Tomohiro Kudo, and Makoto Sato

**EDITORIAL COMMENT:** Bradley C. Gill 159

**Pediatric Case Reports**

**Fibroepithelial Vaginal Polyps in a Newborn Female 161**

Valerie A. Smart, Elizabeth I. Roger, Robert L. Ricca, Trimble L. Spitzer, and Janelle A. Fox

**Prostatic Diseases and Male Voiding Dysfunction**

**Vaporization of Prostate by 160W GreenLight Laser on Postoperative Erectile Function—A Single Center Report 164**

Bo Wu, Xiaobin Yuan, Nan Yin, Bin Zhang, Xiaoming Cao, and Dongwen Wang

**Are Outcomes of Thulium Laser Enucleation of the Prostate Different in Men Aged 75 and Over? A Propensity Score Analysis 170**

Daniele Castellani, Giacomo Maria Pirola, Luca Gasparri, Michele Pucci, Mirko Di Rosa, Giulio Carcano, Giovanni Saredi, and Marco Dellabella

**Factors Influencing Intraoperative Blood Loss in Patients Undergoing Holmium Laser Enucleation of the Prostate (HoLEP) for Benign Prostatic Hyperplasia: A Large Multicenter Analysis 177**

Javier Romero-Otero, Lucía García-González, Borja García-Gómez, Juan Justo-Quintas, Esther García-Rojo, Daniel Antonio González-Padilla, Raquel Sopena-Sutil, Jose Manuel Duarte-Ojeda, and Alfredo Rodríguez-Antolín

**Optimized Clinical Decision-making: A Configurable Markov Model for Benign Prostatic Hyperplasia Treatment 183**

Simone Crivellaro, Laurel Sofer, Whitney R. Halgrimson, Ryan W. Dobbs, and Paolo Serafini

**Reconstructive Urology**

**Urethral Stricture is Frequently a Morbid Condition: Incidence and Factors Associated With Complications Related to Urethral Stricture 189**

Christopher King, and Keith F. Rourke

**A Retrospective Cohort Study on Surgical Outcomes of Penile Prosthesis Implantation Surgery in Transgender Men After Phalloplasty 195**

Wouter B. van der Sluis, Garry L.S. Pigot, Muhammed Al-Tamimi, Brechje L. Ronkes, Kristin B. de Haseth, Mijde Özer, Jan Maerten Smit, Marlon E. Buncamper, and Mark-Bram Bouman

**Presenting Complications to a Reconstructive Urologist After Masculinizing Genital Reconstructive Surgery** 202

Geolani W. Dy, Michael A. Granieri, Benjamin C. Fu, Alex J. Vanni, Bryan Voelzke, Keith F. Rourke, Sean P. Elliott, Dmitriy Nikolavsky, and Lee C. Zhao

**EDITORIAL COMMENT:** Roger Dmochowski 206

**Book Review**

**Book Review** 207

Andrei S. Puryško

**Images in Clinical Urology**

**Laparoscopic Repair of Bochdalek Hernia, Presenting as a Renal Colic** e1

Cristian Alliende, Sebastian Oporto, Felipe Mandujano, Ivan D. Sáez, and Fernando Coz

**Prostatic Stromal Tumors of Uncertain Malignant Potential** e3

Joon Yau Leong, Thenappan Chandrasekar, Christopher Sebastiano, Hamza Rshaidat, James E. Steward, and Edouard J. Trabulsi

**Scrotal Hydrocele in Acute Pancreatitis** e5

Justin Loloï, and Joseph Y. Clark

**Letter to the Editor**

**Vasectomy Litigation in Spain. The Importance of Post-vasectomy Pregnancy** 208

César Vargas-Blasco, Carles Martin-Fumadó, Esperanza L. Gómez-Durán, and Josef P. Arimany-Manso

**AUTHOR REPLY:** Andrew J Blazek, Joshua Belle, Michael P Deibert, and Christopher M Deibert 208

**Video Articles**

**Intravesical Electromotive Botulinum Toxin Type A (Dysport) Administration in Children With Myelomeningocele** 210

Lida Sharifi-Rad, Seyedeh-Sanam Ladi-Seyedian, Behnam Nabavizadeh, Maryam Alijani, and Abdol-Mohammad Kajbafzadeh

**Holmium Laser Enucleation of the Prostate After Failed UroLift: Surgical Considerations for the Management of Nonabsorbable Implants** 212

Kevin A. Parikh, and Chandler D. Dora

**Transvaginal Cystolithotomy: A Novel Approach** 213

JJ H. Zhang, Jessica C. Lloyd, Juan M. Guzman-Negron, and Howard B. Goldman

**Proprietary Names**

Many of the words appearing in UROLOGY are proprietary names although no reference to this fact is made in the text. Any name appearing without designation as a proprietary is, therefore, not to be regarded as a representation by the editorial board or publisher that it is not the subject of proprietary rights.