

UROLOGY

History

- Medical Treatments of Peyronie's Disease: Past, Present, and Future** 1
Daan C.J. Mohede, Igle Jan de Jong, and Mels F. van Driel

Commentary

- New Perspectives Into Peyronie's Disease: Etiology, Management, and Prevention** 6
Drogo K. Montague

Review Article

- Germ Cell Testicular Tumors—Contemporary Diagnosis, Staging and Management of Localized and Advanced disease** 8
Hanan Goldberg, Zachary Klaassen, Thenappan Chandrasekar, Neil Fleshner, Robert J. Hamilton, and Michael A.S. Jewett

Grand Rounds

- Sarcomatoid Cancer of Penis in a 45 Year Old Male** 20
Abhishek Chandna, Kalpesh Parmar, Kirti Gupta, and T. Balamurugan

- Urologic Management of Priapism Secondary to Chronic Myeloid Leukemia** 24
Helen H. Sun, JJ Haijing Zhang, Molly DeWitt-Foy, Madeline Waldron, Sudipto Mukherjee, and Drogo K. Montague

Ambulatory, Office-based, and Geriatric Urology

- Variability of Retail Pricing of Generic Urologic Medications in a Major US Metropolitan Area** 29
Perry J. Xu, Justin M. Barnes, Emily M. Choe, Johar R. Syed, and Sameer A. Siddiqui
- EDITORIAL COMMENT: Lars M. Ellison** 33

Education

- Holmium Laser Enucleation of the Prostate Simulation: Analysis of Realism and Level of Difficulty by Holmium Laser Enucleation of the Prostate-naïve Urologists** 34

Alberto A. Antunes, Alexandre Iscaife, João Arthur B.A. Barbosa, Gabriel dos Anjos, William C. Nahas, and Miguel Srougi

- EDITORIAL COMMENT: Daniel Shapiro and Reginald Bruskewitz** 38

- AUTHOR REPLY: Alberto A. Antunes and João Arthur B.A. Barbosa** 39

Endourology and Stones

- Failure of Angiographic Management in Cases of Postrenal Intervention Bleed: Risk Factors and Management Approach** 40

Sanjoy K. Sureka, Kumar Madhavan, Pankaj Gaur, Rakesh Kapoor, Mohd. S. Ansari, Uday P. Singh, Aneesh Srivastava, and Hira Lal

- Radiation From Kidney-Ureter-Bladder Radiographs Is Not Trivial** 46
Joseph Kuebker, Jillian Shuman, Ryan S. Hsi, S. Duke Herrell, and Nicole L. Miller

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

- Efficacy and Safety of Noninvasive Intravesical Instillation of Onabotulinum Toxin-A for Overactive Bladder and Interstitial Cystitis/Bladder Pain Syndrome: Systematic Review and Meta-analysis** 50

Hyun Young Lee, Seung Whan Doo, Won Jae Yang, Yun Seob Song, Hwa Yeon Sun, Eli Jongchan Nho, Bora Lee, and Jae Heon Kim

continued on page A4

Cover Photo: 3D model of left kidney with lower pole accessory renal artery interpolar mass (See Page 93).

Effect of Radiation on Male Stress Urinary Incontinence and the Role of Urodynamic Assessment 58

Daniel Hoffman, Varun Vijay, Michelle Peng, Rachael D. Sussman, Nirit Rosenblum, Benjamin M. Brucker, Benoit Peyronnet, and Victor W. Nitti

Genomics in Urologic Health and Disease

Prostate Cancer Genomic Classifier Relates More Strongly to Gleason Grade Group Than Prostate Imaging Reporting and Data System Score in Multiparametric Prostate Magnetic Resonance Imaging-ultrasound Fusion Targeted Biopsies 64

Darryl T. Martin, Kamyar Ghabili, Angelique Levi, Peter A. Humphrey, and Preston C. Sprenkle

Health Services Research

From Prostate Health to Overactive Bladder: Developing a Crosswalk for the IPSS to OAB-V8 73

Robert Trafford Crump, Anika Sehgal, Ian Wright, Kevin Carlson, and Richard Baverstock

How Have Hospital Pricing Practices for Surgical Episodes of Care Responded to Affordable Care Act-Related Medicaid Expansion? 79

Tyler R McClintock, Ye Wang, Mahek A Shah, Benjamin I Chung, and Steven L Chang

Real-World Impact of Minimally Invasive Versus Open Radical Cystectomy on Perioperative Outcomes and Spending 86

Parth K. Modi, Brent K. Hollenbeck, Mary Oerline, Alon Z. Weizer, Jeffrey S. Montgomery, Samuel D. Kaffenberger, Andrew M. Ryan, and Chad Ellimoottil

Laproscopy and Robotics

The Use of 3-Dimensional, Virtual Reality Models for Surgical Planning of Robotic Partial Nephrectomy 92

Joseph D. Shirk, Lorna Kwan, and Christopher Saigal

Application of a Functional 3-dimensional Perfusion Model in Laparoscopic Partial Nephrectomy With Precise Segmental Renal Artery Clamping 98

Shaobo Zhang, Guanyu Yang, Lijun Tang, Qiang Lv, Jie Li, Yi Xu, Xiaomei Zhu, Pu Li, Pengfei Shao, and Zengjun Wang

The 3-D Volumetric Measurement Including Resected Specimen for Predicting Renal Function After Robot-assisted Partial Nephrectomy 104

Yosuke Mitsui, Takuya Sadahira, Motoo Araki, Yuki Maruyama, Shingo Nishimura, Koichiro Wada, Yasuyuki Kobayashi, Masami Watanabe, Toyohiko Watanabe, and Yasutomo Nasu

Outcomes after Robotic-assisted Pyeloplasty in Patients Presenting with Pain Versus Nonpain Presenting Symptoms 111

Andrew W. Stamm, Sydney Akapame, Sharon Durfy, Chris C. Du, and Paul M. Kozlowski

EDITORIAL COMMENT: Peter Alken 116

AUTHOR REPLY: Andrew W. Stamm, Sydney Akapame, Sharon Durfy, Chris C. Du, and Paul M. Kozlowski 117

Oncology

Focal Ablative Therapy for Renal Cell Carcinoma in Transplant Allograft Kidneys 118

Zeynep G. Gul, John J. Griffith, Colton Welch, Aaron Fischman, Michael A. Palese, Ketan K. Badani, and Reza Mehrazin

Using Aorta-Lesion-Attenuation Difference on Preoperative Contrast-enhanced Computed Tomography Scan to Differentiate Between Malignant and Benign Renal Tumors 123

Joseph R. Grajo, Russell S. Terry, Justin Ruoss, Blake J. Noennig, Jonathan G. Pavlinec, Shahab Bozorgmehri, Paul L. Crispen, and Li-Ming Su

The Perioperative Morbidity of Transurethral Resection of Bladder Tumor: Implications for Quality Improvement 131

Jorge Francisco Pereira, Gyan Pareek, Catrina Mueller-Leonhard, Zheng Zhang, Ali Amin, Anthony Mega, Christopher Tucci, Dragan Golijanin, and Boris Gershman

The Feasibility and Safety of Reproductive Organ Preserving Radical Cystectomy for Elderly Female Patients With Muscle-Invasive Bladder Cancer: A Retrospective Propensity Score-matched Study 138

Song Bai, Zichuan Yao, Xianqing Zhu, Zidong Li, Yunzhong Jiang, Rongzhi Wang, and Ning Wen

Nonmuscle Invasive Bladder Cancer Influences Physical Health Related Quality of Life and Urinary Incontinence 146

Wayne G. Brisbane, Sarah K. Holt, Brian R. Winters, John L. Gore, Thomas J. Walsh, Jonathan L. Wright, and George R. Schade

EDITORIAL COMMENT: Scott M. Gilbert 152

AUTHOR REPLY: Wayne G. Brisbane and George R. Schade 153

Impact of Staging ⁶⁸Ga-PSMA-11 PET Scans on Radiation Treatment Plans in Patients With Prostate Cancer 154

Susan Y. Wu, Lauren Boreta, Katsuto Shinohara, Hao Nguyen, Alexander R. Gottschalk, I-Chow Hsu, Mack Roach III, Antonio C. Westphalen, Felix Y. Feng, Peter R. Carroll, Albert J. Chang, and Thomas A. Hope

EDITORIAL COMMENT: Axel Heidenreich 160

AUTHOR REPLY: Susan Y. Wu, Felix Y. Feng, and Thomas A. Hope 161

Prostatic Diseases and Male Voiding Dysfunction

Physical Activity as a Protective Factor for Lower Urinary Tract Symptoms in Male Patients: A Prospective Cohort Analysis 163

Cosimo De Nunzio, Antonio Nacchia, Antonio Cicione, Luca Cindolo, Mauro Gacci, Fabiana Cancrini, Pietro Castellan, Riccardo Lombardo, Simone D'Annunzio, Luca Sarchi, Alberto Trucchi, Luigi Schips, and Andrea Tubaro

Randomized Controlled Trial of Aquablation versus Transurethral Resection of the Prostate in Benign Prostatic Hyperplasia: One-year Outcomes 169

Peter J. Gilling, Neil Barber, Mohamed Bidair, Paul Anderson, Mark Sutton, Tev Aho, Eugene Kramolowsky, Andrew Thomas, Barrett Cowan, and Claus Roehrborn

Endoscopic Transvesical Adenectomy of the Prostate, a New Minimal Invasive Approach for Large Benign Prostate Hyperplasia. A Description of the Technique and the Results of the First 40 Patients 174

Wouter M.H. van der Sanden, Laurent M.C.L. Fossion, and Kevin de Laet

Pediatric Urology

A Contemporary Analysis of Pediatric Urology Surgical Volume at a Tertiary Care Center 179

Taylor A. Goodstein, Nicholas G. Cost, Jeffrey B. Campbell, Vijaya Vemulakonda, Duncan Wilcox, and Amanda F. Saltzman

Variante Presentations of the Exstrophy-Epispadias Complex: A 40-Year Experience 184

Mahir Maruf, Karl Benz, John Jayman, Matthew Kasprenski, Jason Michaud, Heather N. Di, and John P. Gearhart

EDITORIAL COMMENT: Richard N. Schluskel 190

AUTHOR REPLY: Mahir Maruf and John P. Gearhart 190

Uroflowmetry Before and After Meatotomy in Boys with Symptomatic Meatal Stenosis Following Neonatal Circumcision — A Long-term Prospective Study 191

Amos Neheman, Yishai H. Rappaport, Abd E. Darawsha, Ilan Leibovitch, and Itay A. Sternberg

Pediatric Partial Nephrectomy for Upper Urinary Tract Duplication Anomalies: A Comparison Between Different Surgical Approaches and Techniques 196

Amos Neheman, Eyal Kord, Andrew C. Strine, Brian A. VanderBrink, Eugene A. Minevich, William R. DeFoor, Pramod P. Reddy, and Paul H. Noh

Pediatric Case Reports

Testicular Torsion Postorchiopexy: A Case of Twisted Hammock 202

Michael Wang, Laura Bukavina, Kirtishri Mishra, Lynn Woo, Jonathan Ross, and Ehud Gnessin

Herlyn-Werner-Wunderlich Syndrome: Report of a Prenatally Recognised Case and Review of the Literature 205

Tiago Tuna, José Estevão-Costa, Carla Ramalho, and Ana Catarina Fragoso

Traumatic Penile Pseudoaneurysm After Straddle Injury Presenting With Life Threatening Anemia: A Unique Case and a Diagnostic Challenge 210

Muhannad Alsyouf, Phillip Stokes, Jason Smith, Akin Amasyali, and David Chamberlin

Reconstructive Urology

Nonclosure Versus Closure of Buccal Mucosal Graft Harvest Site: A Systematic Review and Meta-Analysis of Patient-Reported

Outcomes 213

Michael E. Chua, Jan Michael A. Silangcruz, Jessica M. Ming, Esther May Sarino, Jessica DeLong, Ramon Virasoro, Jeremy Tonkin, and Kurt A. McCammon

Factors That Influence Selection of Urinary Diversion Among Bladder Cancer Patients in 3 Community-based Integrated Health Care Systems

222

Marilyn L. Kwan, Michael C. Leo, Kim N. Danforth, Sheila Weinmann, Valerie S. Lee, Julie R. Munneke, Joanna E. Bulkley, Maureen O'Keeffe Rosetti, David K. Yi, Matthew P. Banegas, Matthew D. Wagner, Stephen G. Williams, David S. Aaronson, Marcia Grant, Robert S. Krouse, Scott M. Gilbert, and Carmit K. McMullen

EDITORIAL COMMENT: Danica May and Daniel J. Canter 228

AUTHOR REPLY: Marilyn L. Kwan, Kim N. Danforth, David S. Aaronson, Matthew D. Wagner, Stephen G. Williams, and Carmit K. McMullen 229

Robotic-assisted Proximal Perineal Urethroplasty: Improving Visualization and Ergonomics

230

Stephen H. Unterberg, Sunil H. Patel, Thomas W. Fuller, and Jill C. Buckley

Excision and Primary Anastomosis Reconstruction for Traumatic Strictures of the Pendulous Urethra

234

Nabeel A. Shakir, Joceline S. Fuchs, Nora Haney, Boyd R. Viers, Billy H. Cordon, Maxim McKibben, Jeremy Scott, Noel A. Armenakas, and Allen F. Morey

EDITORIAL COMMENT: Kyle Scarberry and Jonathan E. Kiechle 238

Surgical Techniques in Urology

Comparison of Recurrence and Postoperative Complications Between 3 Different Techniques for Surgical Repair of Idiopathic Hydrocele

239

Lawrence Tsai, Preston A. Milburn, Charles L. Cecil IV, Patrick S. Lowry, and Michael R. Hermans

Surgeon's Workshop

Methylene Blue Injection via Percutaneous Renal Cyst Puncture Used in Flexible Ureteroscope for Treatment of Parapelvic Cysts: A Modified Method for Easily Locating Cystic Wall

243

Zhixian Wang, Xiaoyong Zeng, Chong Chen, Tao Wang, Ruibao Chen, and Jihong Liu

Technology and Engineering

Selective Castration-resistant Prostate Cancer Photothermal Ablation With Copper Sulfide Nanoplates

248

Jun Chen, Zhaojie Wang, Kai-le Zhang, Yan-jun Xu, Zhi-gang Chen, and Xiao-yong Hu

Urologic Congenitalism

Management of Recurrent Pelvic Fluid Collections in Adult Male Bladder Exstrophy Patients With Maintenance of Erectile Function

256

Vincent Wong, Davide P. Cina, Olga Alexeeva, Robert Brannigan, Robert B. Nadler, John C. Hairston, Stephanie Kielb, and Matthias D. Hofer

EDITORIAL COMMENT: Robert R. Bahnson 259

AUTHOR COMMENT: Matthias D. Hofer 259

Show Me How Video

The Use of the da Vinci SP System for Retzius-sparing Radical Prostatectomy in Cadaveric Model

260

Chi-Fai Ng, Eddie S.Y. Chan, and Jeremy Y.C. Teoh

Images in Clinical Urology

An Isolated Ureteropelvic Junction Injury Following a Low-impact Mechanical Fall

e1

Timothy Baloda, Scott Greenberg, and Paula Bellin

Letters to the Editor

Concerns With “New Evidence for the Benefits of Prostate-specific Antigen Screening: Data from 400,887 Kaiser Permanente Patients” **261**

Michael J. Arnold

Reply by Author: “New Evidence for the Benefits of Prostate-Specific Antigen Screening”

Paul F Alpert

261

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.