Review Article
The Treatment of Genitoperineal Hidradenitis Suppurativa: A Review of the Literature 1
Chloe Michel, John Michael DiBianco, Vikram Sabarwal, and Daniel M. Stein

Grand Rounds
Proteinaceous Renal Stones in a Kidney Transplant Candidate Presenting as Bilateral Filling Defects Suspicious for Upper Urinary Tract Transitional Cell Carcinoma 6
Lee Baumgarten and Shaheen Alanee

Hypoglycemia in Renal Cell Carcinoma: A Rare Paraneoplastic Syndrome 10
Nicole DiIenno, Esther Han, Conrad Maitland, and Velji Kansara

Ambulatory and Office Urology
Symptom Duration in Patients With Urologic Chronic Pelvic Pain Syndrome is not Associated With Pain Severity, Nonurologic Syndromes and Mental Health Symptoms: A Multidisciplinary Approach to the Study of Chronic Pelvic Pain Network Study 14
Larissa V Rodríguez, Alisa J Stephens, J Quentin Clemens, Dedra Buchwald, Claire Yang, Henry H Lai, John N Krieger, Craig Newcomb, Cate S Bradley, and Bruce Naliboff, MAPP Research Network

Education
Factors Associated With the Highest and Lowest Cited Research Articles in Urology Journals 23
Carter J. Boyd, Zachary L. Gentry, Kimberly D. Martin, and Soroush Rais-Bahrami

Program Director Perceptions of Usefulness of the Accreditation Council for Graduate Medical Education Milestones System for Urology Resident Evaluation 28
Elisabeth M. Sebesta, Kimberly L. Cooper, and Gina M. Badalato

EDITORIAL COMMENT: 32
Byron D. Joyner

AUTHOR REPLY: 32
Elisabeth M. Sebesta, Kimberly L. Cooper, and Gina M. Badalato

Constructing and Pilot Testing a Novel Prostate Magnetic Resonance Imaging/ Ultrasound Fusion Biopsy Phantom 33
Brandon Caldwell, David Greenwald, Daniel Moreira, Rong-wen Tain, Christopher Coogan, Karen Xie, Winnie Mar, Peter Pfanner, and Michael Abern

Endourology and Stones
The Anatomic Structure of a Fused Renal Pyramid and Its Clinical Significance in the Establishment of Percutaneous Renal Access 38
Fangyou Lin, Weimin Yu, Ting Rao, Jinzhuo Ning, Yuan Ruan, Yuqi Xia, Peng Ye, Jingxiao Lu, Fan Cheng, and Stéphane Larré

Cover Photo: The LPCP test utilizes an automated machine vision process for biomarker measurements to rapidly assess primary prostate tissue, allowing machine learning algorithms to objectively analyze biomarker measurements. (A) The LPCP test process of rapidly culturing primary prostate tissue within 72 hours, imaging and quantification of both live and fixed cells, matching live and fixed cell measurements to be input into machine learning algorithms. (B) Live-cell biomarkers are measured via Differential Interference Contrast (DIC) time-course imaging of primary prostate cells rapidly derived from radical prostatectomy samples. (C) Examples of biomarkers measured during live cell analysis: tortuosity, cellular dynamics such as motility, and membrane dynamics that provide information about actin dynamics. Two different phenotypes are presented to show the possible range of phenotypes for tortuosity and cellular dynamics. (D) A representative field of view for label-based fixed-biomarker cell analysis. (E) Example of fixed-biomarker measurements: microtubule organization, protein intensity and modification state, and focal adhesion localization pattern. Two different phenotypes are shown for each example of fixed cell biomarkers. (F) Automated quantification by machine vision algorithms and statistics on cell population for example biomarkers. Abbreviations: DIC, differential interference contrast; LPCP, live primary-cell phenotypic. (Color version available online) (See Page 198).
Assessing the Influence of Irrigation Flows on Clearance of Calculi Fragments During Percutaneous Nephrolithotomy: A Numerical and Physical Model Study 46
Amir Paster, Sabrina Shlain, Yazeed Barghouthy, Alex Liberzon, Galit Aviram, and Mario Sofer

Stone-free Outcomes of Flexible Ureteroscopy for Renal Calculi Utilizing Computed Tomography Imaging 52
Nadya E. York, Mengmeng Zheng, Hazem M. Elmansy, Marcelino E. Rivera, Amy E. Krambeck, and James E. Lingeman

Impact of Statin Intake on Kidney Stone Formation 57
Andrew J. Cohen, Melanie A. Adamsky, Charles U. Nottingham, Jaclyn Pruitt, Brittany Lapin, Chi H. Wang, and Sangtga Park

Genomics in Urologic Health and Disease

CDC73 Germline Mutation in a Family With Mixed Epithelial and Stromal Tumors 91
Cathy D. Vocke, Christopher J. Ricketts, Mark W. Ball, Laura S. Schmidt, Adam R. Metwalli, Lindsay A. Middleton, J. Keith Killian, Javed Khan, Paul S. Meltzer, William F. Simonds, Maria J. Merino, and W. Marston Linehan

Health Services Research

Association Between Prostate Magnetic Resonance Imaging and Observation for Low-risk Prostate Cancer 98
Michael S. Leapman, Rong Wang, Henry S. Park, James B. Yu, Jeffrey C. Weinreb, Cary P. Gross, and Xiaomei Ma

EDITORIAL COMMENT: 105
Parth K. Modi

AUTHOR REPLY: 106
Michael S. Leapman, Rong Wang, Henry S. Park, James B. Yu, Jeffrey C. Weinreb, Cary P. Gross, and Xiaomei Ma

Perioperative Intravesical Chemotherapy for Patients With Non–Muscle-invasive Bladder Cancer: Understanding the Extent of and Sources of Variation in Guideline-recommended Use 107
Devon K. Check, David S. Aaronson, Matthew E. Nielsen, Valerie S. Lee, Isaac J. Ergas, Janise M. Roh, Lawrence H. Kushi, Li Tang, and Marilyn L. Kwan

Unscheduled Clinical Encounters in the Postoperative Period After Adult and Pediatric Urologic Surgery 113
Nicholas C. Arpey, Matthew J. Sloan, Amy E. Hahn, Philip M. Polgreen, and Bradley A. Erickson

Utilization of Bacillus Calmette-Guerin for Nonmuscle Invasive Bladder Cancer in an Era of Bacillus Calmette-Guerin Supply Shortages 120
Abhinav Khanna, Nitin Yerram, Hui Zhu, Simon Kim, and Robert Abouassaly

EDITORIAL COMMENT: 125
Jathin Bandari, Avinash Maganty, and Benjamin J. Davies

AUTHOR REPLY: 126
Abhinav Khanna and Robert Abouassaly
Infertility

Medical Treatments for Hypogonadism do not Significantly Increase the Risk of Deep Vein Thrombosis Over General Population Risk

An Infertile Couple’s Long and Expensive Path to Varicocele Repair
Adithya Balasubramanian, Nannan Thirumavalavan, Jason M. Scovell, Jonathan Lo, Byung Ji, Elizabeth L. Godfrey, Alexander W. Pastuszak, and Larry I. Lipshultz

Semen Parameters Among Transgender Women With a History of Hormonal Treatment
Amanda J. Adeleye, Garrett Reid, Chia-Ning Kao, Evelyn Mok-Lin, and James F. Smith

Laparoscopy and Robotics

The Association of the Mayo Adhesive Probability (MAP) Score With Total Operative Time in Patients Undergoing Hand-assisted Laparoscopic Donor Nephrectomy
Katherine J Cockerill, Stacy Young, Colleen T. Ball, Kaitlynn Custer, C. Burcin Taner, Dana K Perry, and David D. Thiel

Benjamin Tremblais, Inès Dominique, Jean-Etienne Terrier, René Écochard, Hélène Hacquard, Alain Ruffion, and Philippe Paparel

Oncology

Effect of the Need for Preoperative Dialysis on Perioperative Outcomes on Patients Undergoing Laparoscopic Nephrectomy: An Analysis of the National Surgical Quality Improvement Program Database
Danica May, Dunia Khaled, Marc R. Matrana, Stephen F. Bardot, Kathleen Lata-Arias, and Daniel Canter

Comparison of RENAL, PADUA, CSA, and PAVP Nephrometry Scores in Predicting Functional Outcomes After Partial Nephrectomy
Ruchir Gupta, Marco Tori, Stephen K. Babitz, Conrad M. Tobert, John G. Anema, Sabrina L. Noyes, and Brian R. Lane

EDITORIAL COMMENT:
Shreyas S. Joshi and Robert G. Uzzo

Immunogenic Heterogeneity of Renal Cell Carcinoma With Venous Tumor Thrombus
Michael A. Liss, Yidong Chen, Ronald Rodriguez, Deepak Pruthi, Teresa Johnson-Pais, Hanzhang Wang, Ahmed Mansour, and Dharam Kaushik

Surgical Management of Patients with Advanced Germ Cell Tumors Following Salvage Chemotherapy: Memorial Sloan Kettering Cancer Center (MSKCC) Experience.
Mariam Imnadze Miller, Andrew Feifer, Darren R. Feldman, Brett S. Carver, George J. Bosl, Robert J. Motzer, Dean F. Bajorin, and Joel Sheinfeld

Reduced Recurrence of Low-grade Papillary Bladder Tumors Associated With Asymptomatic Bacteriuria
Harry Herr and Machele Donat

Long-term Outcomes and Patterns of Failure Following Trimodality Treatment With Bladder Preservation for Invasive Bladder Cancer
David Büchser, Almudena Zapatero, Jacobo Rogado, Marisol Talaya, Carmen Martín de Vidales, Ramón Arellano, Gloria Bocardo, Alfonso Cruz Conde, Leopoldo Pérez, and María T. Murillo

EDITORIAL COMMENT:
Trevor J. Royce and Jason A. Efstathiou

AUTHOR REPLY:
D. Büchser, A. Zapatero, and R. Arellano

Rate and Determinants of Completing Neoadjuvant Chemotherapy in Medicare Beneficiaries With Bladder Cancer: A SEER-Medicare Analysis
Lee A. Hugar, Jonathan G. Yabes, Robert M. Turner II, Mina M. Fam, Leonard J. Appleman, Benjamin J. Davies, and Bruce L. Jacobs

continued on page A6
Clinical Proof-of-concept of a Novel Platform Utilizing Biopsy-derived Live Single Cells, Phenotypic Biomarkers, and Machine Learning Toward a Precision Risk Stratification Test for Prostate Cancer Grade Groups 1 and 2 (Gleason 3 + 3 and 3 + 4) 198
David Albala, Michael S. Manak, Jonathan S. Varsanik, Hani H. Rashid, Vladimir Mouraviev, Stephen M. Zappala, Ene Ette, Naveen Kella, Kimberly M. Rieger-Christ, Grannum R. Sant, and Ashok C. Chander

Prostatic Diseases and Male Voiding Dysfunction

Can the Penile Cuff Test Predict the Outcome of Holmium Laser Enucleation of the Prostate for Benign Prostatic Obstruction? 207
Kwang Jin Ko, Jun Phil Na, Munjae Lee, Gyu Ha Ryu, and Kyu-Sung Lee

Predictors of Postoperative Urinary Incontinence After Holmium Laser Enucleation of the Prostate: 12 Months Follow-Up 213
Laura B. Cornwell, Garrett E. Smith, and Jessica E. Paonessa

Correlation of Ultrasonically Determined Bladder Wall Thickness and Prostatic Calcification With the Urinary, Psychosocial Dysfunction, Organ Specific, Infection and Neurological/Systemic Symptoms, and Tenderness Scoring System 218
Ersan Arda, Basri Cakiroglu, Esra Akdeniz, Hakan Akdere, Ilkan Yuksel, and Aykut B. Senturk

Extreme Price Variation for Generic Benign Prostatic Hyperplasia Medications 223
Katherine M. Theisen, Seo Young Park, Kwonho Jeong, Liam C. Macleod, Jathin Bandari, Omar Ayyash, Anobel Y. Odisho, Bruce L. Jacobs, and Benjamin J. Davies

EDITORIAL COMMENT: 228
Parth K. Modi

Pediatric Case Reports

Delayed Return of Ejaculatory Function in Adolescent Males Treated With Retroperitoneal Lymph Node Dissection and Adjuvant Therapy for Paratesticular Rhabdomyosarcoma 254
James T. Rague, Briony K. Varda, Andrew A. Wagner, and Richard S. Lee

Management of High-grade, Nonmuscle Invasive Urothelial Carcinoma in a Prepubertal Patient With TURBT and Intravesical BCG 257
James T. Rague and Richard S. Lee

Reconstructive Urology

Urethral Trauma Following Pelvic Fracture From Horseback Saddle Horn Injury Versus Other Mechanisms of Pelvic Trauma 260
Chad A. Service, Rachel A. Moses, Sarah D. Majercik, James M. Hotaling, Sorena Keihani, David Rothberg, and Jeremy B. Myers

Combined Placement of Artificial Urinary Sphincter and Inflatable Penile Prosthesis Does Not Increase Risk of Perioperative Complications or Impact Long-term Device Survival 264
William R. Boysen, Andrew J. Cohen, Kristine Kuchta, Sangtae Park, and Jaclyn Milose
Nonclinical Barriers to Care for Neurogenic Patients Undergoing Complex Urologic Reconstruction
Rachel Sosland, Casey A. Kowalik, Josh A. Cohn, Doug F. Milam, Melissa R. Kaufman, Roger R. Dmochowski, and W. Stuart Reynolds

EDITORIAL COMMENT:
Hadley M. Wood

AUTHOR REPLY:
Rachel Sosland, Casey A. Kowalik, Josh A. Cohn, Doug F. Milam, Melissa R. Kaufman, Roger R. Dmochowski, and W. Stuart Reynolds

Patient Decision-making and Predictors of Genital Satisfaction Associated With Testicular Prostheses After Radical Orchiectomy: A Questionnaire-based Study of Men With Germ Cell Tumors of the Testicle
Paige E. Nichols, Kelly T. Harris, Aaron Brant, Madeleine G. Manka, Nora Haney, Michael H. Johnson, Amin Herati, Mohamed E. Allaf, and Phillip M. Pierorazio

Surgical Techniques in UROLOGY

Pure Single-Site Robot-Assisted Partial Nephrectomy Using the SP Surgical System: Initial Clinical Experience
Jihad Kaouk, Juan Garisto, Mohamed Eltemamy, and Riccardo Bertolo

Laparoscopic Radical Cystectomy With Extracorporeal Neobladder: Our Initial Experience
Peng Hong, Guang-Pu Ding, Han Hao, Kun-Lin Yang, Li-Yan Zhuang, Lin Cai, Zhong-Yuan Zhang, Shu-Bo Fan, Lei Zhang, Qi Tang, Xue-Song Li, and Li-Qun Zhou

Surgeon's Workshop

Robot-assisted Placement of Pelvic Tissue Expander for Radiation After Prostatectomy and Cystectomy for Treatment of Prostate Cancer Biochemical Recurrence
Scott O. Quarry, Jubin E. Matloubieh, and Guan Wu

Technology and Engineering

Multi-institutional Evaluation of Producing and Testing a Novel 3D-Printed Laparoscopic Trainer

Urologic Congenitalism

Partially Obstructed Longitudinal Vaginal Septum Presenting in Adulthood With Complaint of Urinary Incontinence
Ariana L. Smith, Thomas F. Kolon, Douglas A. Canning, and Steven J. Weissbart

Show Me How Video

Ambulatory Tubeless Mini-Percutaneous Nephrolithotomy Using Moses Technology and Dusting Technique

En Bloc Thulium Laser Enucleation of the Prostate: A Step-by-Step Guide to Improve Enucleation Time and Efficiency for Endoscopic Enucleation of Prostatic Adenoma
Andrea Pacchetti, Giacomo Maria Pirola, Lorenzo Berti, Mara Palumbo, Giuseppe lettuce, Giulio Carcano, Carlo Terrone, and Giovanni Saredi

Vapoenucleation of the Prostate Using 180 W GreenLight Laser
Enrique Rijo, Vincent Misrai, and Fernando Gomez-Sancha

Single-Port Robot-Assisted Radical Prostatectomy: First Clinical Experience Using The SP Surgical System
Jihad Kaouk, Riccardo Bertolo, Mohamed Eltemamy, and Juan Garisto

Basic and Translational Science

Long Noncoding RNA IGF2AS is Acting as an Epigenetic Tumor Suppressor in Human Prostate Cancer
Qiang Chen, Ting Sun, Fang Wang, Binbin Gong, Wenjie Xie, Ming Ma, and Xiaorong Yang

continued on page A8
The Effect of Calcium and Vitamin B6 Supplementation on Oxalate Excretion in a Rodent Gastric Bypass Model of Enteric Hyperoxaluria

Pedro Espino-Grosso, Christopher Monsour, and Benjamin K. Canales

EDITORIAL COMMENT:

Robert B. Nadler

Images in Clinical Urology

Obstructing Nephrolithiasis in an 84-year-old Patient With a Diaphragmatic Herniated Ureter

Leah E. Beland, Mark A. Henry, Tania Solomon, and Kenneth Ogan

The DACRON Ureter: A Case of Ureter to Aorto-Femoral Dacron Graft Fistulization

Jerad A.K. Harris, Gregory Michael Amend, and Jennifer Rothschild

Renal Replacement Lipomatosis: From Conception to Birth

Spyridon Kampantais, Anthony Young, and Sidath H. Liyanage

Rare Images of Urethral Hemangioma and its Management

Swarnendu Mandal, Prasant Nayak, Suvendu Purkait, Manoj Das, and Rajesh Mahalingam

Letters to the Editor

Comment on “Low-intensity Extracorporeal Shock Wave Therapy for Erectile Dysfunction: A Systematic Review and Meta-analysis”

Jiamin Wang, Shankun Zhao, and ZhiGang Zhao

Reply to Letter to the Editor Comment on "Low-intensity Extracorporeal Shock Wave Therapy for Erectile Dysfunction: A Systematic Review and Meta-analysis"

Guizhong Li and Libo Man

"Re: Direct Vision Internal Urethrotomy for Short Anterior Urethral strictures and Beyond: Success Rates, Predictors of Treatment Failure, and Recurrence Management”

Hüseyin Aydemir

Reply: Letter-to-the-editor: Direct Vision Internal Urethrotomy for Short Anterior Urethral Strictures and Beyond: Success Rates, Predictors of Treatment Failure and Recurrence Management (Urology2018;XXX:XX-XX)

Clemens M. Rosenbaum, Malte W. Vetterlein, and Luis A. Kluth


Vara Prasad Pilli, Malav Anand Modi, Kaushal Goyal, Venkata Chaitanya Singamsetti, Ravi Jineshkumar Jain, and Syed Rimzi Rizvi


Xiaolin Deng, Donghua Xie, Jianrong Huang, and Leming Song

Corrigendum


Chendrimada Madhu, Hashim Hashim, Doyo Enki, Musaab Yassin, and Marcus Drake

Events Calendar

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