

Innovative Research, Outstanding Care

# WISCONSIN UROLOGY

THE NEWSLETTER FOR ALUMNI AND FRIENDS OF THE UW UROLOGY PROGRAM



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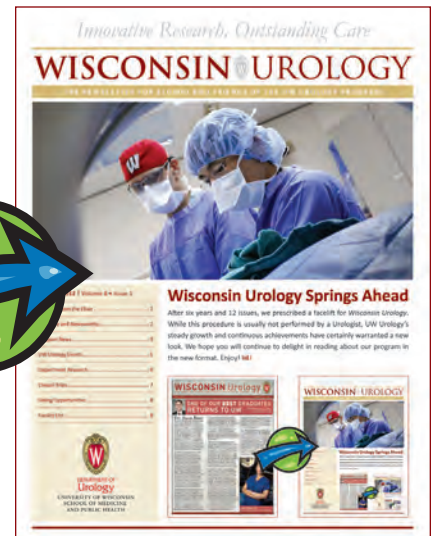
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DEPARTMENT OF  
**Urology**  
UNIVERSITY OF WISCONSIN  
SCHOOL OF MEDICINE  
AND PUBLIC HEALTH

## Wisconsin Urology Springs Ahead

After six years and 12 issues, we prescribed a facelift for *Wisconsin Urology*. While this procedure is usually not performed by a Urologist, UW Urology's steady growth and continuous achievements have certainly warranted a new look. We hope you will continue to delight in reading about our program in the new format. Enjoy! **WU**



## MESSAGE FROM THE CHAIRMAN



Stephen Y. Nakada, MD, FACS

I hope this message finds you enjoying our spring. Like the weather, things are warming up nicely in the department as well. We recently hosted the Charles and Margaret Lescrenier Visiting Professor, Dr. Bob Bahnson from Ohio State. His lectures were spectacular and I was particularly impressed with his work on renal cell carcinoma imaging. We look forward to the visit of Dr. Robert Uzzo from Fox Chase in

May, as our Robert and Dolores Schnoes Visiting Professor. Dr. Uzzo's interests in renal cancer will dovetail nicely with Dr. Bahnson's visit.

Regarding the 2012 AUA, I am happy to announce that we have a number of abstracts from various department members accepted this year (see the listing on page 5). I am delighted that Dr. Dan Williams and Dr. Kris Penniston are on the plenary program this year, and Dr. David Jarrard will give the "Take Home Messages" in Basic Research. In addition, Dr. Sara Best is teaching a course on Metabolic Stone Disease. Our former endourology fellow Patrick Lowry is heading up his course in stone disease along with Dr. Penniston for the second straight year. We look forward to seeing many of you at our Alumni Reception on Sunday, May 20. Look for further reception details in this issue.

Two of our most exciting milestones, which have occurred since our last issue, are the department's expansion into the third floor of the Centennial Building and we opened the Bruskevitz Conference Room. We are delighted that Reg made this room a reality for both himself and the Department (our only issue is getting Reg to sit still long enough to take his picture for the room portrait!).

Dr. Granville Lloyd, fresh off his robotic fellowship at the University of Rochester, has had immediate success as a robotic surgeon at the UWHC and 1 South Park campuses. Our second Da Vinci® robot is operational now

and Drs. Jarrard, Hedican, Downs, Best and Lloyd are actively using both instruments. It is terrific that we have expanded our procedure list to include renal reconstructive, extirpative, and bladder procedures including cystectomy and sacrocolpopexy. This list will soon include pediatric urological procedures.

I am most excited to announce the Department's recruitment of Patrick McKenna, MD to serve as Chair of the Division of Pediatric Urology and as Director of GME Programs in the new UW Health Clinical Simulation Center. Please refer to the article in this issue on Pat, his wife Linda and their family. I believe Dr. McKenna will take the department, the hospital and the medical school to new heights with his international reputation in Pediatric Urology and his record of accomplishment as an administrator and a program builder. Linda and Pat will bring so much to the future of UW Urology!

I look forward to seeing many of you at the AUA reception and in Madison for the Schnoes Professorship. In the meantime, on, Wisconsin! **WU**

A handwritten signature in black ink that reads "Stephen Y. Nakada". The signature is fluid and cursive.

Stephen Y. Nakada, MD, FACS  
Chairman and The Uehling  
Professor of Urology

## Noteable & Newsworthy

- **Dr. Tracy Downs** and **Dr. David Jarrard** have been selected to participate in the UW Health Physician Leadership Development Program, which identifies and assists UW Medical Foundation's succession planning and search for future physician leaders.
  - **Dan Williams, MD** has been promoted to Associate Professor, effective July 1, 2012. Dr. Williams built a strong program in male factor infertility, including andrology, and has several publications in the area of men's health. In addition, he has led our residency program, as Program Director, since July 2011.
  - Kudos to **Dr. David Paolone** who was elected President of the Wisconsin Urological Society for 2012-2013 at the annual meeting, held March 30-April 1, 2012 in Milwaukee.
  - Two of our residents were presentation award winners at the Wisconsin Urological Society meeting. **Kelvin S. Wong, MD** took first place for his presentation, "Travel Distance to Radical Cystectomy Provider is Not a Barrier to Providing Care for Muscle Invasive Disease," and **John J. McGetrick Jr., MD** received second place for his presentation, "Using Symptomatic Pulmonary
- Embolism as a Surrogate Marker for Venous Thromboembolic Events in Major Urologic Cancer Surgery."
- **Crystal Dover, MD** received the John D. Silbar Award at the 2011 Meeting of the North Central Section of the AUA in October. The award is given to a Urology resident within the North Central Section who reflects outstanding qualities in clinical ability, high ethical and moral standards, compassion for patients, and exceptional bedside manner.
  - **Dr. William Ricke** and Dr. Fred vom Saal (University of Missouri), co-wrote a U01 grant, "BPA: Cellular and Epigenetic Effects on the Urethra," that was funded by the NIH this year. The grant is \$327,000 per year for four years and will evaluate environmental estrogens and their effects on the lower urinary tract. These factors are implicated in a number of urology related diseases including prostate cancer and lower urinary tract symptoms.
  - **Dr. Wade Bushman** spearheaded a P20 grant, "Urinary Biomarkers of Lower Urinary Tract Symptoms (LUTS) in Men," that was submitted to NIH for review earlier this year. Importantly, this is a diverse collaboration between colleagues in Pharmacy, Veterinary Medicine, Comparative Biology and Urology, merging basic and clinical sciences and approaches. **WU**

# New Chief of Pediatric Urology to Expand Program

- by Stephen Hall



**Patrick H. McKenna, MD,  
FACS, FAAP**

This summer, Patrick H. McKenna, MD will join our faculty as Chief of the Division of Pediatric Urology. For the past 10 years, Dr. McKenna has served as Chairman of Southern Illinois University's Division of Urology. Prior to that, he was Chief of Pediatric Urology at the University of Connecticut, where he helped establish the Connecticut Children's Medical Center. Dr. McKenna has been recognized as a "Best Doctor in America" since 2005.

Dr. McKenna graduated from George Washington University's School of Medicine and Health Sciences, and completed the Combined Urologic Residency Program at Portsmouth Naval Hospital and Eastern Virginia Medical School. He served as Head of Urology at Guam Naval Hospital for two years, then completed a Pediatric Urology Fellowship at the Hospital for Sick Children in Toronto. He returned to Portsmouth Naval Hospital to become Chief of Pediatric Urology, eventually earning the rank of Captain before retiring from military service.

Clinically, Dr. McKenna's special interests are complicated urologic reconstruction, Wilms' Tumor, antenatally detected urologic problems, disorders of sexual development, and minimally invasive treatments. His innovative use of computer games, and a conservative noninvasive approach to the management of pediatric urinary incontinence and urinary tract infections, have been widely adopted across the country. "New approaches to these problems have reduced the need for invasive testing, decreased the use of antibiotics, and almost completely eliminated the need for surgical treatment of vesicoureteral reflux," Dr. McKenna explains.

A leader in quality improvement for more than two decades, Dr. McKenna recently served on the Board Quality Committee of the Hospital Sisters Health System, which operates 13 hospitals across Illinois

and Wisconsin. "Quality in pediatric urology requires working in teams of specialists, standardization of care, and effective monitoring and improvement." Dr. McKenna looks forward to employing the advanced technological capabilities of UW Health and collaborating with the tremendous pediatric specialty talent at American Family Children's Hospital to cultivate quality initiatives.

Academically, Dr. McKenna has contributed more than 100 publications and presented around the world. "Success of an academic program requires robust clinical and basic science research," he says, "and reinvigorating pediatric urology research at UW will be a key ingredient to developing a top national program." Dr. McKenna brings acclaimed teaching techniques to the Department, and plans to initiate a pediatric urology fellowship here. His experience in surgical simulation training will bolster UW's advanced Clinical Simulation Program.

Professionally, Dr. McKenna serves as President of the Society of University Urologists, Chairman of the Judicial and Ethics Committee of the American Urological Association (AUA), and Secretary of the North Central Section of the AUA. Other leadership roles involve the American Academy of Pediatrics, Society of Fetal Urology, National Kidney Foundation, Society of Pediatric Urology, and the American Association of Clinical Urologists. Active in local and global charities, Dr. McKenna is a founding Board member of Mission Outreach, which has distributed over \$24 million of medical equipment and supplies worldwide. "Physician leaders need to be involved in their communities because health is impacted significantly by community decisions," he asserts.

Dr. McKenna and his family enjoy raising Golden Retrievers and "most anything outdoors." "We are all looking forward to moving to Madison, which seems perfectly suited to our sports and outdoor interests," he exclaims. **WU**

## 2012 Residency Match Results

**Brett Johnson, MD**  
Baylor College of Medicine

**Ngii Tazeh, MD**  
University of Iowa



Above: UW Urologists and staff huddle up with Dr. Robert Bahnsen, MD, FACS, our 2012 Lescrenier guest lecturer.

## Dr. Granville Lloyd joined the Department of Urology in the summer of 2011

after completing a fellowship at the University of Rochester in robotic and minimally invasive surgery. A native of Colorado, he studied Molecular, Cellular and Developmental Biology at the University of Colorado at Boulder, received his MD from the combined Brown-Dartmouth Program, and completed his Urology residency at Northwestern University. Dr. Lloyd also was awarded a research fellowship in Urologic Oncology through the University of Washington's American Foundation for Urologic Disease scholarship.

Dr. Lloyd's clinical practice is focused on minimally invasive and robotic surgery for a wide range of urologic diseases, both benign and malignant.

"In 2012, we are really becoming able to reap the benefits of modern technology, particularly what's available here at the University of Wisconsin," said Dr. Lloyd.

"From no-scalpel vasectomy, to outpatient laser prostate surgery, to the entire range of major robotic cancer and reconstructive surgery, it's a great time to be a patient at an institution like this one. Many procedures that previously required hospital stays can now be done on an outpatient basis and with extremely rapid recovery."

Dr. Lloyd's clinical practice is based at the 1 South Park Street clinic, and he also provides a weekly outreach clinic in Portage. He primarily operates at Meriter Hospital, although he takes advantage of the technology available at UW Hospital and Clinics whenever necessary to provide the best care to his patients.

"UWHC recently added a second robot to the operating room, a state-of-the-art da Vinci® Si™ System, and it increases our ability to perform surgery with great accuracy, great outcomes, and minimal pain or bother to the patient."

Dr. Lloyd's research interests are focused on robotic surgery and include the optimization of outcomes after prostate surgery, and improving surgical education. He plans to collaborate with the University of Wisconsin Simulation Center and with other educators and specialties to develop a comprehensive surgical education program.

"There is so much incredible technology available to the patient today, as well as many new techniques available to improve the way that we teach the next generation of surgeons. The UW Simulation Center is a unique setting in which we can mimic all the features of the operating room with incredible realism, and create surgical teams that perform at the pinnacle in terms of outcomes, safety, satisfaction and all the ways that one might measure success," he said. "It's an incredibly exciting time to be in surgery and surgical education."

Please join us in welcoming Dr. Lloyd to the UW Urology team! [WU](#)



# UW Department of Urology Welcomes Granville Lloyd, MD

- by Dan Williams, MD

# UW Urology Events

By Tricia Maier

## UW UROLOGY AT THE AUA

### Annual UW Urology Alumni Reception

The UW Urology Alumni Reception will take place Sunday, May 20, 2012, 5:30-7:30 pm in the Lilac Suite (N6-North Tower), Omni Hotel at CNN Center. We enjoy seeing and catching up with all of our alumni and friends so please be sure to join us!

### UW Faculty at the 2012 AUA Meeting

**Daniel Williams, IV, MD** is a Plenary panelist for the Panel Discussion "Chronic Orchialgia: What is the Best Treatment Option Based on Etiology?" Dr. Williams will specifically discuss "Causes and Possible Medical Therapies" on Sunday May 20, 8:05-8:30 am.

**Stephen Nakada, MD** is an Educational Course Director for "Urolithiasis: Surgical Management, Percutaneous, Shock Wave Lithotripsy, and Ureteroscopy," Sunday, May 20, 6:00-8:00 am. Dr. Nakada's course will offer the practicing urologist a comprehensive, case-based review of the surgical management of urolithiasis.

**Kristina Penniston, PhD, RD** is a Plenary panelist for the Panel Discussion "Influence of Vitamin D and Calcium Supplements on Stone Risk," Monday, May 21, 10:55-11:30 am.

**Stephen Nakada, MD** has been asked to moderate the Podium Session "Technology & Instruments: Surgical Education & Skills Assessment/Ureteroscopy I," Monday, May 21, 8:00-10:00 am.

**Sara Best, MD** is a presenter for the Educational Course "Urolithiasis: Metabolic Evaluation and Medical Treatment," Tuesday, May 22, 3:15-6:30 pm. This course reviews the pathophysiology of stone disease with a focus on the metabolic and environmental risk factors that lead to stone formation.

**Kristina Penniston, PhD, RD** is a presenter for the Educational Course "Nutrition Counseling for the Prevention of Urolithiasis," Tuesday, May 22, 6:00-8:00 am. This course will review the different stone-forming mechanisms as they pertain to dietary management. Specifically, methods for prevention of different stone types by nutritional counseling will be presented at this course.

**David Jarrard, MD** will serve as a Take Home Messages presenter for the session "Basic Science" during the Plenary Program 7:30-12:00 pm on Wednesday, May 23.

## AUA Abstract Podium and Poster Presentations

***Rising from the Ashes of Atrocities in Human Research: The Development of Institutional Review Boards***—Sutchin R Patel, Stephen Y Nakada

***Dietary Hydroxyproline Induces Nephrolithiasis in the Adult Porcine Model***—Sutchin R Patel, Kristina L Penniston, Thomas D Crenshaw, Stephen Y Nakada

***Does 24-H Urinary Excretion of Sodium Accurately Predict Sodium Intake?***—Kristina L Penniston, Katrina F Wojciechowski, Stephen Y Nakada

***The "Dash Diet" for Stone Prevention: How Difficult is Compliance?***—Kristina L Penniston, Bridget M Stroup, Stephen Y Nakada

***Office-based Ureteral Stent Placement is Feasible and Effective for Acute, Obstructing Ureteral Calculi***—Sri Sivalingam, Inge Tamm-Daniels, Stephen Y Nakada

***Symptomatic Pulmonary Embolism in Major Urologic Cancer Surgery***—John J McGetrick, Tracy M Downs, Martins Sado, E Jason Abel

***Non-clear Cell Subtype Increases Risk for Recurrence in Non-metastatic RCC Patients with Venous Thrombus***—E Jason Abel, Alonso Carrasco, Daniel Zainfeld, Andrea Chan, Joseph Ifokwe, Scott Delacroix, Jose Karam, Ara A Vaporciyan, and Christopher G Wood

***Postoperative Complications After Radical Nephrectomy with IVC Thrombectomy: Experience with 265 Consecutive Patients***—Saad Aldousari, Alonso Carrasco (Rochester, MN), Graciela M Noguera Gonzalez, Ara A Vaporciyan, Jose A Karam, Christopher G Wood, E Jason Abel

***Predictors of Urological Procedures in Men Dying from Prostate Cancer Using a Population-Based Approach***—Matthew Truong, Kara Babaian, Jeremy Cetnar, Deanna S Cross, Fangfang Shi, Mark A Ritter, David F Jarrard

***Even-Skipped Homeobox 1 (Evx1) Is Frequently Hypermethylated in Prostate Cancer and Predicts PSA Recurrence***—Matthew Truong, Bing Yang, Jennifer Wagner, Yuya Kobayashi, James Brooks, David Jarrard

***Risks of Robotic-assisted Laparoscopic Prostatectomy as Presented on Hospital Websites***—David R Paolone, Daniel H Williams IV

***Estrogen Receptors Mediate Stromal-epithelial Interactions in BPH***—William Ricke

***Escherichia coli Strains from Chronic Prostatitis Patients Invade Prostate Epithelial Cells and Induce Secretion of Inflammatory Mediators***—Li-Lin Cheng, Laura E Goeser, Alexandra E Burleigh, Justin J Lemke, Rodney A Welch, Walter J Hopkins

***Complication Rates of Single Incision Slings—Meta-analysis of the World Literature***—Crystal Dover, Glenn Levenson, Sarah McAchran

## 2012 CHARLES AND MARGARET LESCRENIER LECTURESHIP

March 15, 2012

**Robert R. Bahnson, MD, FACS**

The Department of Urology held its 2nd annual Lescrenier Lectureship on March 15. Dr. Robert Bahnson from the Department of Urology at The Ohio State University was our guest lecturer. Dr. Bahnson's lecture was titled, "Multicenter Phase III REDECT trial with 124I-girentuximab-PET/CT for the pre-surgical detection of clear cell Renal Cell Carcinoma (ccRCC)."

Dr. Bahnson has held faculty positions in urologic surgery at Washington University, The University of Pittsburgh, and Ohio State where he currently occupies The Dave Longaberger Endowed Chair in Urology and serves as the Chairman of the Department of Urology.

## UPCOMING LECTURESHIPS

**Robert F. Schnoes Lecture Series**

May 31, 2012

**Robert G. Uzzo, MD, FACS**



Dr. Uzzo is currently the Deputy Chief Clinical Officer; President, Fox Chase Physician's Corporation, Inc.; Chairman of the Department of Surgical Oncology; and a Professor of Urological Oncology at Fox Chase Cancer Center/Temple University. He maintains an active, funded laboratory investigating kidney and prostate cancer. His clinical interests include minimally invasive urological oncology and renal malignancies.

**2012 Uehling Lecture**

November 9, 2012

**Margaret S. Pearle, MD, PhD, FACS**

Dr. Margaret Pearle is a Professor with joint appointments in the Department of Urology and the Mineral Metabolism Center at the University of Texas Southwestern. Dr. Pearle is holder of the Ralph C. Smith Distinguished Chair in Urologic Education. Her research interests include evaluation of dietary and medical therapies for kidney stone prevention, assessment of outcomes for minimally invasive surgical treatments, and development and assessment of resident teaching tools. Clinically, Dr. Pearle specializes in medical and surgical treatments for kidney stones and surgical treatment of cancers of the upper urinary tract. **WU**



## Urology Trek “The Next Generation”

by Will Ricke, PhD, *Director of Research*

In a time when obtaining federal and private research funding is tenuous, research in the Department of Urology remains strong. Many reasons account for our success as a department including: leadership, teamwork, infrastructure, advocates, ideas, and expertise. Another integral part of our research success is the aspiring scientists who perform much of the hands-on work and experimental design. Due to limited funds and extremely competitive funding pay lines at organizations like the National Institutes of Health and Department of Defense, our trainees are asked to do more than just the scientific experiments needed to progress in their careers. In particular, they need to acquire skills that will allow them to obtain external funding. Thus, many of our trainees within the Department of Urology are seeking education in grantsmanship as well as training in the scientific method. It is important to recognize our talented young researchers who have embarked on this voyage. After all, it is the scientist of tomorrow who will provide cures for society's diseases.

As the Director of Research, I would like to acknowledge some of the Department's next generation of scientists who are performing outstanding research and soliciting funding from federal and private sources.

**Sara Colopy, DVM:** Dr. Colopy's research bridges two disciplines: veterinary sciences and urology. She is working with Drs. Wade Bushman and Dale Bjorling on the role of interleukins in bladder cell proliferation. She has recently received the UW Institute for Clinical and Translational Research (ICTR) KL2 Scholars Award. Research performed

by Dr. Colopy will elucidate the role of interleukins in the development of bacterial cystitis, interstitial cystitis, and bladder cancer.

**Jin-Hee Lee, PhD:** Dr. Lee is working closely with Dr. David Jarrard on the epigenetic alterations associated with ccctc-binding factor (ctcf) deregulation in prostate cancer. Dr. Lee's postdoctoral work is supported by the Department of Defense. The purpose of his research is to determine the effects of decreased ctcf expression in the deregulation of growth regulatory genes in human prostate epithelial cells and prostate cancer cells. Additionally, whether the loss of ctcf expression level affects local and/or global methylation changes will be investigated. The proposed study will also answer important questions on the clinical outcome of prostate cancer progression by determining ctcf expression and its competitor protein boris in prostate cancer specimens and apply this correlation toward prognostic markers for prostate cancer patients. Overall, this project aims to identify the epigenetic basis for ctcf expression and apply it as a potential target for prognostic and diagnostic applications in prostate cancer.

**Tristan Nicholson, MS:** Ms. Nicholson is an MD/PhD student in the prestigious Medical Science Training Program developing new models of benign prostatic hyperplasia and therapeutic strategies to prevent and treat lower urinary tract symptoms (LUTS). She is mentored by Drs. Richard Peterson (Pharmaceutical Sciences) and William Ricke. She is submitting a funding application to the National Institutes of Health titled "Estrogen receptors in benign prostatic hyperplasia." Her research will elucidate the mechanism of estrogens in development of benign prostatic hyperplasia and provide evidence that therapeutically targeting the estrogen pathway may prevent disease progression.

**Ashleigh Theberge, PhD:** Dr. Theberge is bridging the broad disciplines of chemistry, bioengineering, urology, and environmental toxicology to better understand endocrine/

endocrine disrupting factors in their role in manifesting prostate cancer and benign urological diseases. She is working with Drs. David Beebe (Biomedical Engineering), Wade Bushman and William Ricke. Her research proposal to the National Institutes of Health evaluates the role of estrogens in prostate cell signaling. Her research incorporates the use of microchannels which allows for the careful dissection of estrogen signaling across multiple concentrations, interactions with other estrogenic ligands, and a combination thereof. Ultimately, her research will allow for a better understanding of how natural estrogens, endocrine disrupting chemicals, as well as therapeutic drugs promote receptor signaling in normal biology and pathogenesis.

**Conrad Valdez, PhD:** Dr. Valdez is working with Dr. William Ricke on exploring the role of environmental endocrine disruptors, namely phthalates, which may alter steroid receptor signaling to promote proliferation and carcinogenesis in the prostate. His overall goal is to determine how androgen signaling pathways are altered in prostate cancer progression and develop therapies to treat urological cancers, especially prostate cancer. He is soliciting funds from National Institutes of Health, Department of Defense, and private foundations.

Our research program continues to grow and thrive. With the success of our trainees, we will continue to provide cutting edge research and provide the research leaders of tomorrow. For all those in Urology Research...

“live long  
and  
prosper.”

WU

# Clinical Research Update

- Kristina Penniston, PhD, RD

Department of Urology (DOU) faculty and staff have been prolific lately with respect to clinical and translational research, as confirmed by the list of accepted abstracts, courses, and lectures featured at the upcoming meeting of the American Urological Association. Faculty and staff also contribute to other meetings, such as the Wisconsin Urological Society, the American Institute for Cancer Research, and specialty societies such as the Society for Basic Urologic Research and the Research on Calculus Kinetics Society. This year, the DOU is represented at Experimental Biology, an annual life sciences research meeting of nearly 14,000 scientists representing six sponsoring societies and 30 guest societies. **Walt Hopkins, PhD**, senior scientist, and his research group will present a study entitled, “Cranberry proanthocyanidins for prevention of urinary tract infections and modification of intestinal E. coli flora in UTI-susceptible women.”

## **Peer-reviewed, clinical publications by DOU faculty and staff within the last three months:**

**Abel EJ**, Carrasco A, Sulp SH et al: Limitations of preoperative biopsy in patients with metastatic renal cell carcinoma: comparison to surgical pathology in 405 cases. *BJU Int*, in press.

**Abel EJ**, Culp S, Tannir N et al: Early primary tumor size reduction is an independent predictor of improved overall survival in metastatic renal cell carcinoma patients treated with sunitinib. *Eur Urol* 2011;60: 1273-9.

**Best SL**, Park SK, Yaacoub RF et al: Long-term outcomes of renal tumor radio frequency ablation stratified by tumor diameter: size matters. *J Urol* 2012 [Epub ahead of print].

**Best SL**, Bergs R, Scott DJ et al: Solo surgeon laparo-endoscopic single site nephrectomy facilitated by new generation magnetically anchored and guided systems camera. *J Endourol* 2012;26: 214-8.

**Patel SR**, Hinshaw JL, Lubner MG, Lee FT, Nakada SY, Hedican SP. Hydrodissection Utilizing an Iodinated Contrast Medium During Percutaneous Renal Cryoablation. *Journal of Endourology / Endourological Society* 2012 Feb 14.

**Patel SR**, McLaren ID, Nakada SY. The ureteroscope as a safety wire for ureteronephroscopy. *J Endourol* 2012 Apr; 26(4):351-4.

**Patel SR**, Stanton P, Zelinski N, Borman EJ, Pozniak MA, Nakada SY, Pickhardt PJ. Automated renal stone volume measurement by noncontrast computerized tomography is more reproducible than manual linear size measurement. *J Urol* 2011 Dec; 186(6):2275-9.

**Patel SR**, Hedican SP, Bishoff JT, Shichman SJ, Link RE, Wolf JS, Nakada SY. Skill based mentored laparoscopy course participation leads to laparoscopic practice expansion and assists in transition to robotic surgery. *J Urol* 2011 Nov; 186(5):1997-2000. **WU**

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