

RYAN P. SMITH, MD
ASSISTANT PROFESSOR
UNIVERSITY OF VIRGINIA
DEPARTMENT OF UROLOGY

PO Box 800422
Charlottesville, VA 22908

Tel (434) 924-9560
rps2k@virginia.edu

EDUCATION

2012-2013 Fellowship, Male Reproductive Medicine and Surgery with Dr. Larry Lipshultz, Baylor College of Medicine, Houston, Texas
2008-2012 Urology Residency, University of Virginia Health System, Charlottesville, Virginia
2007-2008 Surgery Internship, University of Virginia Health System, Charlottesville, Virginia
2003-2007 M.D., University of Virginia School of Medicine, Charlottesville, Virginia
2000-2001 Study Abroad Program, University of Adelaide, Adelaide, Australia
1998-2002 B.S. Biology/Business minor with High Distinction, Indiana University, Bloomington, Indiana

ACADEMIC APPOINTMENTS

2013-present Assistant Professor, Department of Urology, University of Virginia, Charlottesville, VA

AWARDS AND HONORS

2012 Fundamentals of Microsurgery Course, Certificate in Microsurgery, Methodist Institute for Technology, Innovation, and Education, Methodist Hospital, Houston, TX
2012 Contributor to Society of Reproductive Surgeons Newsletter
2011 SMS/SUPS Resident Training Scholarship Program and Surgical Symposium
2011 SSMR and SMSNA Men's Health Traveling Fellow
2010 Society for Male Reproduction and Urology Traveling Scholar
2010 AUA Mid-Atlantic Howard Pollack Radiology Conference Winner
2010 Third Place Resident Prize Essay Contest at the AUA Mid-Atlantic 68th Annual Meeting
2010 Urological Prosthetic Surgery Course, sponsored by AMS, Ann Arbor, MI.
2007 Gold Humanism in Medicine Honor Society-University of Virginia
2002 Phi Beta Kappa-Indiana University
2001 Mortar Board Senior Honors Society-Indiana University
2000 National Society of Collegiate Scholars-Indiana University
1998 Dean's List-Indiana University
1998 Phi Eta Sigma National Honor Society-Indiana University
1998 Alpha Epsilon Delta Premedical Honor Society-Indiana University
1998 Indiana University Honors College

HOSPITAL AND PROFESSIONAL COMMITTEES

2013-present Member, Department of Urology, Resident Research Curriculum Committee
2013-present Member, Clinical Competency Committee for Resident Education
2011-2013 Teaching Assistant-University of Virginia School of Medicine
Sessions in obstructive uropathy, male infertility, reproductive physiology and endocrinology.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Kovac, J., Gomez, L., **Smith, R.P.**, Coward, M., Gonzales, M., Khera, M., Lamb, D., Lipshultz, L. Measurement of Endothelial Dysfunction via Peripheral Arterial Tonometry Predicts Vasculogenic Erectile Dysfunction. Journal of Sexual Medicine. Submitted 2013.
2. Coward, R., Kovac, J., **Smith, R.P.**, Lipshultz, L. Fertility Preservation in Young Men Treated for Malignancies: Options for Pre-Cancer Treatment. Journal of Sexual Medicine Reviews. In Press 2013.
3. **Smith, R.P.**, Khanna, A., Badhiwala, N., Kovac, J., Coward, R., Lipshultz, L. The Significance of Sperm Heads and Tails Within the Vasal Fluid During Vasectomy Reversal. Indian Journal of Urology. In Press 2013.
4. Coward, R., Badhiwala, N., Kovac, J., **Smith, R.P.**, Lamb, D., Lipshultz, L. Impact of the 2012 AUA Vasectomy Guidelines on Post-Vasectomy Outcomes. Journal of Urology. August 2013.
5. Kovac, J., Addai, J., **Smith, R.P.**, Coward, M., Lamb, D., Lipshultz, L. The Effects of Advanced Paternal Age on Fertility. Asian Journal of Andrology. August 2013.
6. **Smith, R.P.**, Khanna, A., Coward, R., Rajanahally, S., Kovac, J., Gonzales, M., Lipshultz, L. Factors Influencing Patient Decisions to Initiate and Discontinue Testopel® Subcutaneous Testosterone Pellets for Treatment of Hypogonadism. Journal of Sexual Medicine. July 2013.
7. Kovac, J., **Smith, R.P.**, Lipshultz, L. The Relationship Between Advanced Paternal Age and Male Fertility Highlights an Impending Paradigm Shift in Reproductive Biology. Fertility and Sterility. July 2013.
8. Coward, M., Rajanahally, S., Kovac, J., **Smith, R.P.**, Lipshultz, L. Anabolic Steroid Induced Hypogonadism in Young Men. Journal of Urology. June 2013.
9. **Smith, R.P.**, Lipshultz, L. A Call for Institutional Policies on Postmortem Sperm Retrieval. Fertility and Sterility. September 2013.
10. **Smith, R.P.**, Coward, R., Kovac, J., Lipshultz, L. The Evidence for Seasonal Variations of Testosterone in Men. Maturitas. January 2013.
11. **Smith, R.P.**, Tracy, C.R., Kavoussi, P.K., Witmer, M.T., Costabile, R.A. The Impact of Color Doppler Ultrasound on Treatment Patterns of Epididymitis in a University-Based Healthcare System. Indian Journal of Urology. January 2013.
12. Lowe, G., **Smith, R.P.**, Costabile, R.A. A Catalog of Magnetic Resonance Imaging Compatibility of Penile Prostheses. Journal of Sexual Medicine. May 2012.
13. **Smith, R.P.**, Lowe, G., Kavoussi, P.K., Steers, W.D., Costabile, R.A., Herr, J.C., Shetty J., Lysiak, J.J. Confocal Fluorescence Microscopy in a Murine Model of Microdissection Testicular Sperm Extraction to Improve Sperm Retrieval. Journal of Urology. May 2012.
14. **Smith, R.P.**, Oliver, J.L., Peters, C.A. Robotic Extravesical Ureteral Reimplantation: a Comparison with Open Surgery. Journal of Urology. May 2011.

CURRENT PROJECTS

1. Oliver, J.L., Kavoussi, P.K., **Smith, R.P.**, Woodson, R.I., Corbett, S. T., Costabile, R.A., Palmer, L.A., Lysiak, J.J. The Role of Regulatory Proteins and S-Nitrosylation of Endothelial Nitric Oxide Synthase in the Human Clitoris: Implications for Female Sexual Function.
2. Kavoussi, P.K., Heberlein, K., Straub, A.C., **Smith, R.P.**, Lowe, G.J., Oliver, J.L., Steers, W.D., Annex, B.H., Isakson, B.E., Lysiak, J.J. Recombinant PAI-1 Therapy Restores Myoendothelial Junctions and Erectile Function in PAI-1 Deficient Mice.
3. Barbery, C. Celigoj, A., **Smith, R.P.**, Turner, T., Costabile, R.A., Lysiak, J.J. Role of miR-93 in a Mouse Model of Type II Diabetes-Induced Erectile Dysfunction and Investigation into Serum Biomarkers of Erectile Dysfunction in Humans

BOOK CHAPTERS

1. **Smith, R.P.**, Coward, R.M., Lipshultz, L. The Office Evaluation. In Niederberger, C. (ed): Current Management of Male Infertility. Urology Clinics of North America, In Press, 2013.
2. Peters, C.A., **Smith, R.P.** Robotic Ureteral Reimplant Surgery to Correct Reflux Disease. In Ost, M. (ed): Robotic and Laparoscopic Reconstructive Surgery in Children and Adults. 1st edition. Humana Press, New York, NY. November 2010.

NON PEER-REVIEWED PUBLICATIONS

1. **Smith, R.P.**, Hwang K. An Update on Fertility Preservation in Male Children. Society of Reproductive Surgeons. Summer 2012 Newsletter.
2. **Smith, R.P.**, Hwang K. Investigative Techniques for Intraoperative Detection of Spermatozoa During Micro-TESE. Society of Reproductive Surgeons. Spring 2013 Newsletter.
3. **Smith, R.P.**, Lipshultz, L. Beyond the Abstract: Commentary on ‘The Evidence for Seasonal Variations of Testosterone in Men.’ UroToday Online.

ABSTRACTS/PRESENTATIONS

1. Doerge, E., Fantus, J., **Smith, R.P.**, Kovac, J., Coward, R., Lipshultz, L. The Effect of Clomiphene Citrate on Infertile Males. Submitted to Sexual Medicine Society Annual Meeting (2013).
2. Kovac, J., Badhiwala, N., **Smith, R.P.**, Coward, R., Murthy, L., Hsieh, T.C., McIntyre, M., Lamb, D., Lipshultz, L. Does Clinical Evidence Support the WHO Decision to Focus on Strict Morphology Rather than Light Microscopy in Assessment of Sperm Morphology? Submitted to Men’s Health World Congress (2013).
3. Khanna, A., Kovac, J., **Smith, R.P.**, Coward, R. Lamb, D., Lipshultz, L. Clear Intravasal Fluid Obtained at Time of Vasectomy Reversal Predicts Patency Regardless of Time Since Vasectomy. Submitted to Men’s Health World Congress (2013).
4. Kovac, J., Khanna, A., **Smith, R.P.**, Coward, R. Badhiwala, N., Lamb, D., Lipshultz, L. The Significance of Sperm Heads and Tails in the Vasal Fluid During Vasectomy Reversal. Submitted to Men’s Health World Congress (2013).

5. Kovac, J., Badhiwala, N., **Smith, R.P.**, Coward, R., Hsieh, T.C., McIntyre, M., Murthy, L., Lamb, D., Lipshultz, L. The Relationship Between Semen Quality, Serum Testosterone, and Age in the Infertile Male. Submitted to Men's Health World Congress (2013).
6. Mata, D., Coward, M., **Smith, R.P.**, Kovac, J., Lipshultz, L. Outcomes of Vasectomy Reversal in Men on Testosterone Supplementation. Submitted to Sexual Medicine Society Annual Meeting (2013).
7. Kovac, J., Addai, J., **Smith, R.P.**, Coward, M., Lamb, D., Lipshultz, L. Measurement of Endothelial Dysfunction via Peripheral Arterial Tonometry (PAT) Predicts Vasculogenic Erectile Dysfunction (ED). CUA (Canadian Urological Association) Annual Meeting (2013).
8. Badhiwala, N., Coward, M., **Smith, R.P.**, Kovac, J., Hsieh, T.C., McIntyre, M., Murthy, L., Lamb, D., Lipshultz, L. Impact of the 2012 AUA Vasectomy Guidelines on Post-Vasectomy Outcomes. AUA Annual Meeting (2013).
9. Coward, R., Rajanahally, S., **Smith, R.P.**, Kovac, J., Lipshultz, L. The Prevalence of Prior Use of Anabolic Androgenic Steroids in Young Hypogonadal Men. AUA Annual Meeting (2013).
10. Rajanahally, S., Khanna, A., **Smith, R.P.**, Coward, R., Kovac, J., Gonzales, M., Lipshultz, L. Factors Influencing Patient Decisions to Initiate and Discontinue Testopel® Subcutaneous Testosterone Pellets for Treatment of Hypogonadism. AUA Annual Meeting (2013).
11. Mason, M., Nunnally, B., **Smith, R.P.**, Floyd, T. Hammett, J., Schenkman, N. The Dual-Console Surgical Robot System: Does It Provide Residents More Operative Experience? Kimbrough Urological Seminar Annual Meeting (2013).
12. Steele, M., **Smith, R.P.**, Zhang, J., Choe, J., Lysiak, J.J. Impaired Clearance of Apoptotic Germ Cells Causes Impaired Spermatogenesis Associated with Leydig Cell Hyperplasia and Increased Testosterone Levels. AUA Annual Meeting (2012).
13. Lowe, G., **Smith, R.P.**, Costabile, R.A. A Compendium of Magnetic Resonance Imaging Compatibility of Penile Prostheses. Sexual Medicine Society Fall Meeting (2011). Kimbrough Urological Seminar Annual Meeting (2012).
14. **Smith, R.P.**, Lowe, G. Kavoussi, P.K., Steers, W.D., Costabile, R.A., Herr, J.C., Shetty J., Lysiak, J.J. Confocal Fluorescence Microscopy in a Murine Model of Microdissection Testicular Sperm Extraction to Improve Sperm Retrieval. American Society of Reproductive Medicine Annual Meeting (2010). AUA National Meeting (2010).
15. **Smith, R.P.**, Oliver, J.L., Peters, C.A. Robotic Extravesical Ureteral Reimplantation: a Comparison with Open Surgery. AUA Mid-Atlantic 68th Annual Meeting (2010). Kimbrough Urological Seminar Annual Meeting (2010). Virginia Urological Society Annual Meeting (2010).
16. El-Zawahry, A., Eskridge, M., Rodgers, A., **Smith, R.P.**, Babanoury, A., Rovner, E. Is Minimally Invasive Management Justified for Treatment of High-Risk Emphysematous Pyelonephritis? AUA Southeastern Section Annual Meeting (2007).

TEACHING/RESEARCH EMPLOYMENT

- 2004 Medical Student Summer Research Program-University of Virginia Department of Pediatrics
Investigation into patient perceptions of healthcare provider communication in regards to sexual health.
- 2003 Clinical Research Technician-Duke University Center for Human Genetics
Acknowledged for contributions on publication: Scott, W.K., et al. Family-based case-control study of cigarette smoking and Parkinson's disease. Neurology. February 2005.
- 2002 Undergraduate Teaching Intern in Biology-Indiana University

COMMUNITY SERVICE/VOLUNTEERISM

- 2007-2013 Annual Prostate Cancer Screening Day-University of Virginia
- 2006-2012 Urology Medical Student Interest Group
- 2006-2007 UVA Medical Reserve Corps
- 2004-2007 Charlottesville Free Clinic Nurse
- 2004-2005 Kids Enjoy Exercise Now (KEEN)-University of Virginia Kluge Rehabilitation Hospital
- 2001-2002 Mortar Board Community Action Committee-Organized fundraiser for Riley Hospital for Children.
- 1998-2002 Tutor for Crestmont Elementary-Bloomington, Indiana
- 1998-1999 Emergency room volunteer, St. Vincent's Hospital, Indianapolis, Indiana

ACTIVITIES

- 2007-2012 Annual Men's 4-miler to benefit prostate cancer research
- 2007-2012 Department of Urology Softball Team Co-Captain
- 2003-2009 UVA School of Medicine Men's Club Soccer team
- 2003-2010 Christian Medical and Dental Association-Resident member and participant.

SOCIETY MEMBERSHIPS

- 2013-2014 Baylor College of Reproductive Medicine
- 2013-2014 Albemarle County Medical Society
- 2013-2014 American Medical Association
- 2013-2014 International Society of Sexual Medicine
- 2013-2014 American Society of Andrology
- 2012-2013 Sexual Medicine Society of North America
- 2010-2013 American Society of Reproductive Medicine
- 2010-2013 Society for the Study of Male Reproduction
- 2010-2013 Society for Male Reproduction and Urology
- 2010-2012 Virginia Urological Society
- 2008-2012 Endourological Society
- 2007-2013 American Urological Association

LICENSES AND CERTIFICATIONS

- 2012 ABU Certifying Exam-Part 1
- 2008 USMLE Step 3
- 2006 USMLE Step 2
- 2005 USMLE Step 1