

C U R R I C U L U M V I T A E

NAME: Phillip Paul Smith, M.D.

BUSINESS: Assistant Professor of Urology and Ob/Gyn
Department of Surgery
University of Connecticut Health Center
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EDUCATION:

1980 Bachelor of Arts in Chemistry with Honors, magna cum laude, Kenyon College, Gambier, Ohio
· Carl Djerassi Chemistry Award for liberally educated scientist
· Elected to Phi Beta Kappa and Sigma Xi

1984 Doctor of Medicine, University of Cincinnati College of Medicine, Cincinnati, Ohio

1985-1988 Residency in Obstetrics and Gynecology, including Chief Residency, University of Cincinnati Hospital, Cincinnati, Ohio.
· Received formal recognition for excellence in gynecologic surgery by the staff of The Christ Hospital, Cincinnati, Ohio, 1988

2004-2005 Fellowship training in Female Pelvic Medicine and Reconstructive Surgery, Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston TX

2005-2007 Fellowship in Voiding Dysfunction and Female Urology, Scott Department of Urology, Baylor College of Medicine, Houston TX

LICENSURE:

1985 - present Ohio License to practice medicine and surgery 3502552, without restriction

2004 - present Texas License to practice medicine L9488, without restriction

2007 – present Connecticut License to practice medicine, 03-507676, without restriction

1990 Diplomate, American Board of Obstetrics and Gynecology
renewed by examination 1999, valid through 2010

EMPLOYMENT HISTORY:

July 2007-present: University of Connecticut Health Center, Department of Surgery

July 2005-June 2007: Baylor College of Medicine, Scott Department of Urology, Fellow in

2004-2005: Female Urology and Voiding Dysfunction, Rodney A. Appell, Director.
Baylor College of Medicine, Department of Obstetrics and Gynecology,
Fellow in Female Pelvic Medicine and Reconstructive Surgery, Paul M.
Fine, Director.

1988-2004: Partner in Sycamore Medical Associates, Sycamore, Ohio
Adjunct Instructor in Biology, Heidelberg College, Tiffin, Ohio.

MEMBERSHIPS:

2007 - Member, Society for Urodynamics and Female Urology
2007 - Member, American Urogynecologic Society
1991 - Fellow, American College of Obstetricians and Gynecologists
2005-2007 Residency Review Committee, Baylor College of Medicine
1995-2004 Board Member of the Ohio State Health Network, a network of rural hospitals in
association with the Ohio State University Hospitals

PROFESSIONAL INTERESTS:

Neurophysiology and biomechanics of lower urinary tract control
Surgical techniques with graft materials in pelvic floor reconstructive surgery
Recurrent pelvic organ prolapse / urinary incontinence

PUBLICATIONS:

Smith PP, Appell RA, Pelvic organ prolapse and the lower urinary tract: the relationship of vaginal prolapse to stress urinary incontinence. *Curr Urol Rep*. 2005 Sep;6(5):340-7.

McCrery RJ, Smith PP, Appell, RA, The emergence of new drugs for overactive bladder. *Expert Opin Emerg Drugs*. 2006 Mar;11(1):125-36

Smith PP, Appell, RA, Functional Obstructed Voiding in the Neurologically Normal Patient. *Curr Urol Rep* 2006; 7; 346.

Smith PP, Lai HH, Appell RA, Darifenacin: Selective M3 Muscarinic Receptor Antagonist for the Treatment of Overactive Bladder. *Therapy* 2006; 3: 723-732.

Smith PP, Appell RA, Current Trends in Evaluation and Management of Female Urinary Incontinence, *CMAJ* 2006 Nov 7;175(10):1233-40.

Smith PP, Smith CP, Boone TB, Somogyi GT. Intact Bladder Efferent Function is Required for Normal Afferent Function in Rat Voiding Under Cystometric Conditions (abstract). *Int Urogyn J* 2006 17 (Suppl 2): S90.

Smith PP, Smith CP, Boone TB, Somogyi GT. Abdominal Wall Activity is Necessary for Normal Female Rat Voiding (abstract). *Int Urogyn J* 2006 17 (Suppl 2): S89.

Smith PP, Appell RA, Transobturator tape, bladder perforation, and paravaginal defect: a case report. *Int Urogynecol J Pelvic Floor Dysfunct*. 2007 18(1): 99-101

Smith PP, Smith CP, Boone TB, Somogyi GT. Is abdominal wall contraction important for normal voiding in the female rat? *BMC Urology* 2007 7:5

Smith PP, Appell RA. Does uroflow predict ISD? *Neurourol Urodyn*. 2008;27(1):40-4

Smith PP, Hurtado EA, Smith CP, Boone TB, Somogyi GT. Comparison of cystometric methods in female rats. *Neurourol Urodyn* 2008; 27(4); 324-9

Smith PP, Hurtado EA, Appell RA. Post hoc interpretation of urodynamic evaluation is qualitatively different than interpretation at the time of urodynamic study. *Neurourol Urodyn* 2009 online in advance of publication.

Suskind A, Smith PP. A New Look at Detrusor Underactivity: Impaired Contractility vs. Afferent Dysfunction. *Curr Urol Rep* 2009, in press.

Smith PP. Aging and the underactive detrusor: A failure of activity or activation? *Neurourol Urodyn* 2009, in press.

CHAPTERS:

Phillip P. Smith and Christopher P. Smith, **Botulinum Toxin in the Treatment of Chronic Pelvic Pain Syndromes**, in *Botulinum and Other Neurotoxins: Translating Science into Therapeutic Applications*, J. Jankovic et al., Editors, Elsevier Publishers, 2009

Smith PP, Smith CP: **Urinary tract infections**. In *Urology and the Primary Care Practitioner*, 3rd Edition, Chapter 4. Edited by LI Lipshultz, M Khera, DT Atwal DT. 2008 (in press).

Smith PP, Kuchel G : **Aging of the Urinary Tract**. In *Brocklehurst's Textbook of Geriatrics and Clinical Gerontology*, 7th edition. Edited by Raymond Tallis, Howard M. Fillit, Ken Rockwood. Elsevier Publishers 2009 (in press).

ABSTRACTS:

The Rectus Abdominus Visceromotor Reflex Is A Normal Feature of the Voiding Reflex in Rats. Phillip P. Smith, Christopher P. Smith, Timothy Boone, George Somogyi, presented at Society for Urodynamics and Female Urology Scientific Meeting, February 2006.

Visceromotor Reflex In the Rectus Abdominus During Voiding Requires Intact Efferent Ganglionic Function. Phillip P. Smith, Rebecca J. McCrery, Christopher P. Smith, Timothy B. Boone, George T. Somogyi, Scott Department of Urology, Baylor College of Medicine. American Urologic Association Scientific Meeting, May 2006.

Intact Bladder Efferent Function is Required for Normal Afferent Function in Rat Voiding Under Cystometric Conditions. Phillip P. Smith, Christopher P. Smith, Timothy B. Boone, George T. Somogyi; Scott Department of Urology. , Baylor College of Medicine

- 31st Annual Meeting of the International Urogynecological Association, Athens, Greece, Sept 6-9, 2006
- 2006 NIDDK Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis, Bethesda MD, October 2006

Abdominal Wall Activity is Necessary for Normal Female Rat Voiding. Phillip P. Smith, Christopher P. Smith, Timothy B. Boone, George T. Somogyi; Scott Department of Urology, Baylor College of Medicine

- 31st Annual Meeting of the International Urogynecological Association, Athens, Greece, Sept 6-9, 2006
- 2006 NIDDK Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis, Bethesda MD, October 2006
- 2006 American Urogynecologic Association Scientific Meeting, Palm Springs CA, October 16-19, 2006.

The Urethra as Sensor: Characterization of Voiding-Associated Abdominal Wall Activity in the Rat and Its Role in Normal Voiding. Phillip P. Smith, Christopher P. Smith, Timothy B. Boone, George T. Somogyi; Scott Department of Urology, Baylor College of Medicine

- 2006 NIDDK Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis, Bethesda MD, October 2006
- 2007 Society for Urodynamics and Female Urology Scientific Meeting, February 2007

Comparison of Cystometric Methods in Female Rats. Phillip P. Smith, Eric A. Hurtado, Christopher P. Smith, Timothy B. Boone, George T. Somogyi; Scott Department of Urology, Baylor College of Medicine

- 2007 Society for Urodynamics and Female Urology Annual Meeting, San Diego CA

Pressurization of the Mid-urethra activates the external urethral sphincter in rats.

Hurtado E, Smith PP, Boone TB, Smith CP, Somogyi GT. 2007 American Urogynecologic Society Annual Scientific Meeting. Hollywood FL

Does uroflow predict ISD? Smith PP, Appell RA.

- 2007 Society for Urodynamics and Female Urology Annual Meeting, San Diego CA
- 2007 American Urogynecologic Society Annual Scientific Meeting. Hollywood FL

Long-term durability of a non-surgical transurethral radiofrequency treatment for female stress urinary incontinence: a retrospective analysis, Smith PP, Appell RA, Northeast Section American Urological Association Annual Meeting, Rochester NY, 2007

Video-urodynamic evaluation of a nonsurgical transurethral radiofrequency collagen remodelling treatment of stress urinary incontinence Smith PP, Appell RA, Cline K, , Northeast Section American Urological Association Annual Meeting, Rochester NY, 2007

Post hoc interpretation of urodynamic evaluation is qualitatively different than interpretation at the time of urodynamic study Smith PP, Hurtado EA, Appell RA, 2009 Society for Urodynamics and Female Urology Annual Scientific Meeting, Las Vegas NV.

Oophorectomy may impair detrusor contractility in a murine model. Smith PP, Zvara P, Heppner TJ, Nelson MT, Kuchel GK. 2009 American Geriatrics Society annual scientific meeting, Chicago IL

PRESENTATIONS:

What's New in Overactive Bladder?

Invited presentation, 2007 American Urogynecologic Society annual scientific meeting, Ft. Lauderdale FL

Urogynecologic Office Evaluation

- Grand Rounds, Scott Department of Urology, Baylor College of Medicine, Houston TX, January 2005

Aspects of Voiding Dysfunction, Human and Animal

- Grand Rounds, Scott Department of Urology, Baylor College of Medicine, Houston TX, January 2006.

Functional Voiding Obstruction

- Grand Rounds, Department of Obstetrics and Gynecology, Albany Medical Center, Albany NY, June 2006

The Evolving Role of Botulinum Toxin: Rationale, Application, and Techniques in the Management of Voiding Dysfunctions,

- State of the Art lecture, 54th Annual James C. Kimbrough Urological Seminar, January 17 2007, Houston TX
- Grand Rounds, Division of Urology, University of Connecticut Health Center, September 13, 2007

Urinary Incontinence and Pelvic Organ Prolapse

- Grand Rounds, Department of Obstetrics and Gynecology, University of Connecticut Health Center, January 16, 2008.
- Unicorn Series (multiple Ob/Gyn Grand Rounds at twelve referring hospitals), coordinated by Department of Obstetrics and Gynecology, University of Connecticut Health Center, February 2008

Evaluation of the Female Patient

- Grand Rounds, Division of Urology, University of Connecticut Health Center, November 6, 2008

Fundamentals of the Evaluation of Urinary Incontinence

- Invited Resident lecture, Bridgeport Hospital, March 12, 2009

Update on Overactive Bladder

- Grand Rounds, Bridgeport St Vincent Hospital, October 22, 2008
- Grand Rounds, Department of Internal Medicine, University of Connecticut Health Center, January 8, 2009
- Grand Rounds, Ob/Gyn, Bridgeport Hospital, March 12, 2009

REVIEWER:

Neurourology and Urodynamics
Journal of Urology
Canadian Medical Association Journal

FUNDING:

Urethral sensory contributions to lower urinary tract function in old age, Dennis W. Jahnigen Career Development Award, John Hartford Foundation, American Geriatrics Society

Phillip P. Smith MD, PI; George Kuchel MD primary mentor

Project Period 7/1/09-6/30/11

Changes in urethral afferent activity attributable to aging and concurrent disease may be important contributors to lower urinary tract dysfunction in older adults. The aims of this research are to define normative morphologic and physiologic characteristics of the bladder neck and urethra in a well-established animal model of aging, and establish a methodology permitting investigation of the bladder neck and urethral neurosensory and biomechanical functions and their role in storage and micturition. Use of the murine

model system permits genetic manipulation as a tool for the investigation of the role of individual molecules, in addition to histological, immunohistochemical and cystometric evaluation. The establishment of these fundamentals in the murine model will enable access to the molecular biology of this aspect of lower urinary tract control in research which will build upon these fundamentals. The award funds 50% protected time for this research.

Role: Principle Investigator

Pathogenesis of Detrusor Underactivity and Urinary Retention in the Frail Elderly, NIH 5R01AG028657-02,

George Kuchel MD, PI

Project Period 4/15/2007-3/31/2012

The goal of this project is to define the pathogenesis of detrusor underactivity in the frail elderly by focusing on a shared pathway by which three different risk factors (bladder stretch, lack of estrogen, aging) promote bladder muscle loss, fibrosis and axonal degeneration. Studies using genetically-modified mice and tissue culture systems will: 1) implicate MIF, an abundant urothelial cytokine, in the pathways by which all three risk factors contribute to detrusor underactivity AND 2) perform pre-clinical testing of ISO-1, a newly identified MIF inhibitor, offering targeted, mechanism-driven therapy for this complex multifactorial geriatric syndrome.

Role: Co-Investigator