**Charles R. Powell, MD**

Associate Professor of Urology

Indiana University School of Medicine

Department of Urology

535 Barnhill Dr. Suite 420

Indianapolis, IN 46202-5289

317 944-4622

crpowell@iupui.edu

**Fellowship in Female Pelvic Medicine and Reconstructive Surgery**

University of Iowa Hospitals and Clinics

Dr. Karl Kreder, Fellowship Director and Chair (319) 356-4649 Karl-Kreder@uiowa.edu

Department of Urology 200 Hawkins Dr. Iowa City, IA 52242-1089

August 1, 2008 to July 31, 2009

**Residency in Urology**

University of Illinois Medical Center, Department of Urology

Dr. Craig Niederberger, Program Director and Chair. (312) 996-2779 craignied@gmail.com

M/C 955 840 S. Wood St. Chicago, IL 60612

June 24, 2003 to June 13, 2008

**Internship in General Surgery**

University of Illinois Medical Center, Department of Surgery

Dr. Craig Niederberger, Program Director. (312) 996-2779 craignied@gmail.com

M/C 955 840 S. Wood St. Chicago, IL 60612

June 24, 2002 to June 23, 2003

**Medical School**

Indiana University School of Medicine

635 Barnhill Dr. MS 160 Indianapolis, IN 46202

August 26, 1998 to August 23, 2002

**Undergraduate Education**

B.S. Electrical Engineering:

Purdue University

West Lafayette, IN

August 17, 1992 to December 20, 1997

**Board Certification**

Female Pelvic Medicine and Reconstructive Surgery subspecialty certification 6/2015

American Board of Urology Board Certification 2/2011

Passed USMLE steps I, II, III on 6/00, 10/01, 3/05 respectively

**Academic Appointments**

2019-PRES IU Dept. Urology Service Line Leader – Suburban Practice

2019-PRES IU Health Access Champion

2012-2018 Faculty Development and Coordinating Committee, Indiana University School of Medicine

2012-2015 IU Health Physician Engagement Group (PEG)

2012- 2013 Leadership in Academic Medicine Program

2010-2011 Indiana University School of Medicine Curriculum Reform Committee

2009-2013 OR Safety Committee, IU Health West

**Indiana University Student Faculty Advisor**

Leo Song class of 2022

Luke Reinhart class of 2016

Evan West, class of 2013

Braxton Cordell Fritz, class of 2013

**Professional Organizations**

1. Indiana Urological Association representative to the North Central Section of American Urological Association Board level position– 2017-2020
2. Global Urology Committee North Central Section AUA 2019-PRES
3. Indiana Urological Association – Board Member At Large 2012-2017
4. American Board of Urology, Board Certified Member #17105 2011-Pres
5. Indiana Physician License #01066313A 2009-Pres
6. Society for Urodynamics and Female Urology, Member 2008-pres
7. Genitourinary Reconstructive Surgeons (GURS), Member, Outreach Committee 2008-pres
8. International Continence Society, Member 2008-pres
9. American Urological Association, Member 2002-pres
10. Tau Beta Pi National Engineering Honor Society 1999-pres

**Honors**

1. AUA Leadership Program Awardee, Class of 2020-2021
2. Best Basic Science Poster Award, Society for Urodynamics and Female Urology “Wireless Urodynamic Device Demonstrates Submucosal Sensor is Comparable to Urodynamic Catheter” Scottsdale, AZ 2015
3. Best Poster Laparoscopy/Pediatrics, North Central Section of the American Urological Association. “Should every patient undergo mid urethral sling at the time of sacral colpopexy?”. Naples, FL. November 7, 2013.
4. Alpha Omega Alpha Honor Medical Society Clinical Teaching Award, 4-16-2008.
5. Second Place 2007 Huggins Essay Contest - Award for best Clinical Research Paper among the Chicago urology residency programs. “Computational Models For Detection Of Endocrinopathy In Subfertile Males” **Powell** CR ; Desai RA; Makhlouf AA; Sigman M; Jarow JP; Ross LS; Niederberger CS 1-10-07
6. First Place 2006 Huggins Essay Contest - Award for best Clinical Research Paper among the Chicago urology residency programs. “A Comparative Study of Computational Models for Predicting Erectile Dysfunction Including American Urological Association Symptom Index Score : Results from the Prostate Cancer Awareness Week Data” **Powell** CR ; Makhlouf AA ; Kshirsagar A ; Barqawi A ; Meacham R ; Crawford ED ; Niederberger CS
7. 2nd place – 2005 TAP Debates. Open Radical Prostatectomy vs. Robotic Assisted Radical Prostatectomy. 9/20/05.
8. Recipient Mary Jean Yoder Award, a scholarship given by the Indiana University School of Medicine
9. Elected Vice President Indiana University School of Medicine class of 2002
10. Elected to Tau Beta Pi, national engineering honor society, lifetime member
11. Elected to Eta Kappa Nu, national electrical engineering honor society

**Research Support**

1. StimGard Multisite RCT (Powell Local PI) $100,000

June 2020 to June 2021

“Multi-center, Prospective, Randomized, Controlled, Non-Inferiority, Clinical Trial of Chronic Afferent Nerve Stimulation (CAN-Stim) of the Tibial Nerve versus Sacral Nerve Stimulation (SNS) in the treatment of Urinary Urgency Incontinence resulting from Refractory Overactive Bladder (OAB) - “PROTECT” Study”

1. Astellas PLUS MultiSite RCT (Powell Local PI) $204,065

Jan 2017 to Jan 2019

“A Phase 4, Double-Blind, Randomized, Placebo-controlled, Multi-

Center Study to Evaluate the Efficacy, Safety, and Tolerability of

Mirabegron in Men with Overactive Bladder (OAB) Symptoms

While Taking the Alpha Blocker Tamsulosin Hydrochloride for

Lower Urinary Tract Symptoms (LUTS) due to Benign Prostatic

Hyperplasia (BPH)”

1. NIH / NIDDK DiaComp Pilot & Feasibility project, $100,000

10/2013 – 10/2014 13GHSU260 **(Powell, PI)**

"Progression of Diabetic Cystopathy in the Ossabaw Pig Using Bladder Monitor"

Goals: Demonstrate the effect of metabolic syndrome in the Ossabaw Pig animal model on bladder pressure using a novel, wireless bladder pressure sensor over 6 months. Validate the device operation over time in an ambulatory animal.

1. Indiana CTSI Project Development Team within the ICTSI $12,500

Project Name: Wireless Ambulatory Bladder Pressure Monitoring System (uPlink)

2011-2012. ***NIH/NCRR Grant Number RR025761***

**Powell, Charles MD** (Principal Investigator)

1. Indiana University Hendricks Family Trust $40,000

Project Name: Wireless Ambulatory Bladder Pressure Monitoring System (uPlink)

2011-2013.

**Powell, Charles MD** (PI) Ziaie, Babak PhD (co-PI)

Major Goals of Project: Develop the second generation wireless bladder pressure sensor (called UPLINK) and validate its deployment and operation in 150lb swine.

1. NIH $1,250,000

Project name: Initiation and Regulation of Chronic Autoimmune Prostate Inflammation NIH/NCRR Grant Number 2 R01 DK084454-03A1

2012-2017

Ratliff, Timothy PhD (PI), **Powell, Charles** (co-investigator)

Major Goals of Project: Chronic non-bacterial inflammation of the prostate is associated with multiple prostate diseases including chronic prostatitis-chronic pelvic pain syndrome (CP-CPPS), benign prostatic hyperplasia (BPH), and prostate cancer. There is data to suggest Myeloid Derived Suppressor Cells (MDSC) play a role in prostate inflammation. These data provide a foundation for the hypothesis that cytokine production and T cell regulation by MDSC are central to prostate inflammation and its regulation. Further, localization of MDSC function to the site of inflammation provides a basis for differentially identifying additional pathways linked to MDSC function. We hope to provide avenues for dissecting functional implications of MDSC in modulating prostate inflammation.

1. University of Iowa Clinical Center, NIDDK$2,400,000 Project name: ALTERNATIVE THERAPIES FOR BENIGN PROSTATE SYMPTOMS NIDDK / NIH 5U01DK063840-07

2008-2009

Karl J. Kreder, MD (Principal Investigator) **Powell, Charles MD** (Clinical

research coordinator)

Major Goals of Project :

The purpose of this consortium is to study the effect of phytotherapy using Serenoa repens (saw palmetto) and Pygeum africanum in men with BENIGN prostatic hyperplasia (BPH).

**Invited Book Chapters**

1. Blaivas, Jerry; Kreder, Karl A; **Powell, Charles R;** Round Table Discussion: Case Studies of Patients with Lower Urinary Tract Symptoms; Urologic Clinics of North America; Volume 36, Issue 4, November 2009, Pages 537-569.
2. **Powell, Charles;** Kreder, Karl. Treatment of Bladder Diverticula, Impaired Detrusor Contractility, and Low Bladder Compliance. Urologic Clinics of North America. Nov 2009. 36:4.
3. **Powell**, Charles R.; Kreder, Karl J. Effects of Stress on Male Voiding Function. Current Bladder Dysfunction Reports, Volume 4, Issue 3, 2009.
4. Sharp, Victoria; Takacs, Elizabeth; **Powell, CR**. Prostatitis. American Family Physician. Aug 2010. 82:4.
5. **Powell, CR.** Status of Tibial Nerve Stimulation for Overactive Bladder. Curr Bladder Dysfunct Rep. 11/30/11. DOI 10.1007/s11884-011-0113-8.
6. **Powell, Charles R**. (2013). "Neuromodulation for Neurogenic Bladder." Current Bladder Dysfunction Reports: 1-7. https://link.springer.com/article/10.1007/s11884-013-0199-2
7. **Powell C**. Is the Diabetic Bladder a Neurogenic Bladder? Evidence from the Literature. In: Sandhu J, editor. Current Bladder Dysfunction Reports. New York: Springer; 2014. p. 261-7. https://link.springer.com/article/10.1007/s11884-014-0255-6
8. **Powell CR**. Prostatitis. In: Bope ET, editor. Conn's Current Therapy 2014. 1st ed. Philadelphia, PA: Saunders, an Imprint of Elsevier, Inc. ; 2014. p. 974-6.
9. **Powell**, C., *Prostatitis*, in *Expert Consult Online- Conn's current therapy 2015*, E.T. Bope and R.D. Kellerman, Editors. 2015, Elsevier Saunders: Philadelphia
10. **Powell**, C., *Prostatitis*, in *Expert Consult Online- Conn's current therapy 2016*, E.T. Bope and R.D. Kellerman, Editors. 2016, Elsevier Saunders: Philadelphia
11. K Jaqua, CR Powell. Where Are We Headed with Neuromodulation for Overactive Bladder?. Current urology reports 18 (8), 59. 2017 PMID: 28656519
12. **Powell**, C., *Prostatitis*, in *Expert Consult Online- Conn's current therapy 2017*, E.T. Bope and R.D. Kellerman, Editors. 2017, Elsevier Saunders: Philadelphia
13. CR **Powell**. Neuromodulation for Non-obstructive Urinary Retention. Adult and Pediatric Neuromodulation, pp47-61. Springer. Gilleran, Alpert Eds. 2018. DOI https://doi.org/10.1007/978-3-319-73266-4\_4
14. **Powell**, C., *Prostatitis*, in *Expert Consult Online- Conn's current therapy 2018*, E.T. Bope and R.D. Kellerman, Editors. 2018, Elsevier Saunders: Philadelphia
15. **Powell**, C., *Prostatitis*, in *Expert Consult Online- Conn's current therapy 2019*, E.T. Bope and R.D. Kellerman, Editors. 2019, Elsevier Saunders: Philadelphia

**Invited Speaker/Panelist/Moderator**

1. North Central Section, AUA, Chicago, IL Moderator “Patient Safety and Quality Improvement Podium Session” Sept 12, 2019
2. North Central Section, AUA, Chicago, IL State of the Art Lecture “Volunteering in Urology” Sept 12, 2019
3. AUA Visiting Scholar, Dhaka, Bangladesh Aug 19-21, 2019
4. AUA Visiting Scholar, Hyderabad, India Aug 13-18, 2019
5. Visiting Professor, University of Sao Paulo, Sao Paulo, Brazil. July 24-26, 2019
6. US Department of Health and Human Services Office of Population Affairs, Expert Workgroup Meeting on Men’s Family Planning Services in the United States, April 11-12, 2019. Washington, DC
7. Visiting Professor, University of Texas Southwestern, Dallas, TX. Sept 19-20, 2017
8. Female Pelvic Prolapse 101 for Physician Assistants. Indiana University, Indianapolis, IN. 7/20/17.
9. Urogynecologic Services for Inpatient Care. Eskenazi Hospital Grand Rounds. 7/5/17.
10. Evidence for Mesh in Pelvic Prolapse Surgery. Invited Speaker, Indiana Urologic Association, Indianapolis, IN. Feb 27, 2016
11. Moderator. Incontinence/Infertility/Sexcual Dysfunction/Trauma/Transplant Poster Session. 89th Annual Meeting of the North Central Section of the AUA, Nov 12, 2015.
12. The Mess with Mesh: Evidence for use of Mesh in the Literature. Iowa Urologic Society, 100th Anniversary University of Iowa Urology. Invited Speaker. Iowa City, IA Sept 24-25, 2015.
13. Moderator. Incontinence/Infertility/Sexual Dysfunction Poster Session, 87th Annual Meeting of the North Central Section of the AUA, Oct 10, 2013.
14. The Future of Urge Urinary Incontinence. Indiana University School of Medicine OB/GYN Grand Rounds Guest Lecturer. November 14, 2012.
15. What Will My Specialty Look Like in 20 Years? 86th Annual Meeting of the North Central Section, American Urological Association. Chicago, IL. Oct 12, 2012.
16. Health Issues Affecting Men with Spina Bifida. 39th Annual National meeting of the Spina Bifida Association. Indianapolis, IN. June 31, 2012
17. Teen Talk - Health Issues Affecting Teenage Boys with Spina Bifida. 39th Annual National meeting of the Spina Bifida Association. Indianapolis, IN. June 31, 2012
18. Urethral Reconstruction / Penis / Trauma Podium. 84th Annual Meeting of the North Central Section of the American Urological Association. Saturday, October 2, 2010
19. Point-Counterpoint: Everyday Controversies in Female Urology. 83rd Annual Meeting of the North Central Section of the American Urological Association. Saturday, November 11, 2009

**Section Editor for the Following Journals**

1. Current Bladder Dysfunction Reports 2020
2. Current Bladder Dysfunction Reports 2019
3. Current Bladder Dysfunction Reports 2018
4. Current Bladder Dysfunction Reports 2017
5. Current Bladder Dysfunction Reports 2016
6. Current Bladder Dysfunction Reports 2015
7. Current Bladder Dysfunction Reports 2014

**Reviewer for the Following Funding Mechanisms**

1. Indiana Traumatic Spinal Cord and Brain Injury Research RFA 2020

**Reviewer for the Following Annual Meetings**

1. NCS of AUA 2020 reviewer
2. SUFU 2020 abstract reviewer
3. NCS of AUA 2019 reviewer
4. SUFU 2019 abstract reviewer
5. NCS of AUA 2018 abstract reviewer
6. SUFU 2018 abstract reviewer
7. SUFU 2017 abstract reviewer
8. SUFU 2016 abstract reviewer

**Reviewer for the Following Journals**

1. Journal of Urology
2. Urology
3. Neurourology and Urodynamics
4. The Journal of Endourology
5. Neuromodulation

**Publications and Presentations**

1. **CR Powell,** Albert Kim, Joshua Roth, James Byrd, Khalid Mohammad, Mouhamad Alloosh, Babak Ziaie, Ragini Vittal, Michael Sturek. DETRUSOR UNDERACTIVITY IS ASSOCIATED WITH OXIDATIVE STRESS AND DETRUSOR FIBROSIS IN METABOLIC SYNDROME. SUFU, Scottsdale, AZ, USA Feb 25-29, 2020. Poster #BS33
2. **CR Powell**, Mouhamad Alloosh, Michael Sturek GLUCAGON LIKE PROTEIN 1 (GLP-1) ELICITS MORE PROFOUND CALCIUM DISCHARGE AND SARCOPLASMIC RETICULUM CALCIUM ATPASE (SERCA) RESPONSE IN OSSABAW PIG DETRUSOR SMOOTH MUSCLE THAN CAFFEINE. SUFU, Scottsdale, AZ, USA Feb 25-29, 2020 Poster #BS61
3. **Powell CR**, Tachibana I, Eckrich B, Rothenberg J, Hathaway J. Securing Mesh with Delayed Absorbable Suture Does Not Increase Risk of Prolapse Recurrence Following Robotic Sacral Colpopexy. J Endourol. 2020 Feb 10. doi: 10.1089/end.2018.0029. PMID:32037875
4. **Powell CR**. Editorial Comment. J Urol. 2020 Feb;203(2):390. doi: 10.1097/01.JU.0000614972.83182.46. Epub 2019 Nov 14. PMID:31721678
5. **POWELL** C. ROBOTIC URETHRAL DIVERTICULECTOMY. Abstract #249. International Continence Society 2019, Gothenberg, Sweden. https://www.ics.org/2019/abstract/249.
6. MONN M, MCNARY G, FERGUSON E, **POWELL** C. POSTERIOR VAGINAL COMPARTMENT DESCENT AFTER ISOLATED ANTERIOR COMPARTMENT REPAIR. Abstract #11. International Continence Society 2019, Gothenberg, Sweden. https://www.ics.org/2019/abstract/11.
7. Isamu Tachibana, Mark Pickhardt, **C.R. Powell.** Robotic Sacral Colpopexy with Fascia Lata for Pelvic Organ Prolapse. Videourology VOL. 33, NO. 3. Published Online: 4 Jun 2019 https://doi.org/10.1089/vid.2019.0007
8. Gabrielle McNary, BS and **CR Powell**, MD. ANTERIOR VAGINAL WALL SUSPENSION AS ALTERNATIVE TO MESH BASED REPAIR AND CAN BE REPLICATED OUTSIDE OF ORIGINATING INSTITUTION. North Central Section of the American Urological Association Annual Meeting. Abstract#154. Chicago, IL, USA. Sept 5-8, 2018
9. Gabrielle McNary, BS and **CR Powell**, MD. EFFECTIVENESS OF TWO VALIDATED QUESTIONNAIRES TO REMOTELY ASSESS OUTCOMES OF ANTERIOR VAGINAL WALL SUSPENSION WITHOUT CLINIC VISIT. North Central Section of the American Urological Association Annual Meeting. Abstract#160. Chicago, IL, USA. Sept 5-8, 2018
10. **Powell CR**. Troubleshooting Interstim Sacral Neuromodulation Generators to Recover Function. Curr Urol Rep. 2018 Aug 20;19(10):86. doi: 10.1007/s11934-018-0837-5. Review.

PMID: 30128939

1. **Charles R Powell**, Volitional Voiding of the Bladder after Spinal Cord Injury: Validation of Bilateral Lower Extremity Motor Function as a Key Predictor EDITORIAL COMMENT. JOURNAL OF UROLOGY 200 (1), 160-160
2. DE Thomas, HZ Kaimakliotis, KR Rice, JA Pereira, P Johnston, ML Moore, A Reed, DM Cregar, C Franklin, RL Loman, MO Koch, R Bihrle, RS Foster, TA Masterson, TA Gardner, CP Sundaram, **CR Powell**, SDW Beck, DJ Grignon, L Cheng, C Albany, NM Hahn. Commentary on “Prognostic effect of carcinoma in situ in muscle-invasive urothelial carcinoma patients receiving neoadjuvant chemotherapy.” Urologic Oncology: Seminars and Original Investigations.  Oncology: Seminars and and Original Investigations 2018 – Elsevier
3. **CR Powell**, I Tachibana, B Eckrich, J Rothenberg, J Hathaway. Robotic Sacral Colpopexy. Journal of endourology. 32 (S1), S-111-S-116. 2018.
4. **CR Powell**, I Tachibana, B Eckrich, J Rothenberg, T Gardner. OBESITY DOES NOT INCREASE RISK OF PROLAPSE RECURRENCE FOLLOWING SACRAL COLPOPEXY. NEUROUROLOGY AND URODYNAMICS 37, S678-S679. 2018
5. Derek E Thomas, Hristos Z Kaimakliotis, Kevin R Rice, Jose A Pereira, Paul Johnston, Marietta L Moore, Angela Reed, Dylan M Cregar, Cindy Franklin, Rhoda L Loman, Michael O Koch, Richard Bihrle, Richard S Foster, Timothy A Masterson, Thomas A Gardner, Chandru P Sundaram, **Charles R Powell**, Stephen DW Beck, David J Grignon, Liang Cheng, Costantine Albany, Noah M Hahn. Prognostic effect of carcinoma in situ in muscle-invasive urothelial carcinoma patients receiving neoadjuvant chemotherapy. Clinical genitourinary cancer. Clinical genitourinary cancer 15 (4), 479-486. 2017.
6. CR Powell II, D Daniels. Dorsal Onlay Buccal Urethroplasty in the Female is Associated with High Quality of Life Using Validated Lower Urinary Tract Symptom Instruments. Urology Practice 4 (1), 48-53. 2017
7. **Charles Powell**, Bridget Eckrich, Jeffrey Rothenberg, Thomas Gardner . Obesity Does Not Worsen Urinary Incontinence Following Sacral Colpopexy. American Urological Association Annual Meeting 2017. Boston, MA. The Journal of Urology, Vol. 197, Issue 4, e979–e980. Abstract PD50-02. May 12, 2017
8. **Charles Powell**, Bridget Eckrich, Jeffrey Rothenberg, Thomas Gardner. Preventative Concomitant Sling For De-Novo Stress Urinary Incontinence After Robotic Sacral Colpopexy Does Not Improve Long Term Continence Or Satisfaction. American Urological Association Annual Meeting 2017. Boston, MA. The Journal of Urology, Vol. 197, Issue 4, e53–e54. Abstract PD02-08. May 15, 2017
9. **CR Powell** MD¹, Bridget Eckrich BS², Jeffrey Rothenberg MD³ and Thomas Gardner MD. PREVENTATIVE CONCOMITANT SLING FOR DE-NOVO STRESS URINARY INCONTINENCE AFTER ROBOTIC SACRAL COLPOPEXY DOES NOT IMPROVE LONG TERM CONTINENCE OR SATISFACTION. SUFU, Feb 28-Mar 3, 2017, Scottsdale, AZ. Poster #M14.
10. **CR Powell MD**¹, Bridget Eckrich BS², Jeffrey Rothenberg MD³ and Thomas Gardn er MD. OBESITY DOES NOT WORSEN URINARY INCONTINENCE FOLLOWING SACRAL COLPOPEXY. SUFU, Feb 28-Mar 3, 2017, Scottsdale, AZ. Poster #NM34.
11. Kim A, **Powell CR**, Ziaie B. An Universal packaging technique for low-drift implantable pressure sensors. Biomed Microdevices. 2016 Apr;18(2):32. doi: 10.1007/s10544-016-0058-y. PMID: 26945864
12. **Powell CR.** *Not all neurogenic bladders are the same: a proposal for a new neurogenic bladder classification system.* Transl Androl Urol. 2016 Feb;5(1):12-21. doi: 10.3978/j.issn.2223-4683.2016.01.02. Review.PMID:26904408
13. **Powell CR**. Conditional Electrical Stimulation in Animal and Human Models for Neurogenic Bladder: Working Toward a Neuroprosthesis. Curr Bladder Dysfunct Rep. 2016;11:379-85.
14. Joshua Roth, Albert Kim, Mouhamad Alloosh, Babak Ziaie, Michael Sturek, **CR Powell**. Wireless Urodynamic Device Demonstrates Submucosal Sensor is Comparable to Urodynamic Catheter. American Urological Association Annual Meeting, Urodynamics/Lower Urinary Tract Dysfunction/Female Pelvic Medicine: Basic Research & Pathophysiology I . MP 60-11. May 9, 2016. http://www.aua2016.org/abstracts/files/session\_UrodynamicsLowerUrinaryTractDysfunctionFemalePelvicMedicineBasicResearchPathophysiologyI.cfm
15. Joshua Roth, Albert Kim, Mouhamad Alloosh, Babak Ziaie, Michael Sturek, **CR Powell**. Detrusor Underactivity is Seen in an Animal Model for Metabolic Syndrome. American Urological Association Annual Meeting, Urodynamics/Lower Urinary Tract Dysfunction/Female Pelvic Medicine: Basic Research & Pathophysiology I . MP 60-12. May 9, 2016. http://www.aua2016.org/abstracts/files/session\_UrodynamicsLowerUrinaryTractDysfunctionFemalePelvicMedicineBasicResearchPathophysiologyI.cfm
16. Albert Kim, **Charles. R. Powell**, Babak Ziaie. An Universal packaging technique for low-drift implantable pressure sensors. Biomedical Microdevices. April 2016, 18:32. DOI 10.1007/s10544-016-0058-y
17. **Powell**, CR; Zabell, Joseph ; Takacs, Elizabeth B. ; Kreder,Karl J. , *Reduction of Nocturia after Sacral Neuromodulation Therapy for Overactive Bladder.* Journal of Urology and Research, 2015. **1**(2): p. 1020.
18. **CR Powell MD**, Albert Kim MS, Mouhamad Alloosh MD, Babak Ziaie PhD, Mike Sturek PhD. OSSABAW PIG AS A LARGE ANIMAL MODEL FOR HYPOACTIVE DETRUSOR IN METABOLIC SYNDROME PILOT STUDY. 89th Annual Meeting of the North Central Section of the AUA, 11/10/2015 - 11/14/2015. Amelia Island, FL, USA. Moderated Podium Abstract #67.
19. **Powell C**, Kim A, Alloosh M, Ziaie B, Sturek M; Ossabaw Pig as a Large Animal Model for Detrusor Underactivity in Metabolic Syndrome Pilot Study. International Continence Society, Montreal, Canada, 2015. Abstract #662. http://www.ics.org/2015/programme/abstract/662
20. Flack Chandra M.D., **Powell** C M.D., *The Worldwide Economic Impact of Neurogenic Bladder.* Curr Bladder Dysfunct Rep. 2015 Dec; 10(4): 350–354. Published online 2015 Oct 5. doi:  10.1007/s11884-015-0323-6 PMCID: PMC4707967
21. Flack CK, Monn MF, Patel NB, Gardner TA, **Powell CR**. National Trends in the Performance of Robot-Assisted Sacral Colpopexy. Journal of endourology / Endourological Society. 2015. Epub 2015/02/06. doi: 10.1089/end.2014.0710. PubMed PMID: 25654587.
22. **CR Powell** MD, Albert Kim MS, Mouhamad Alloosh MD MS, Mike Sturek PhD Babak Ziaie PhD; WIRELESS URODYNAMIC DEVICE DEMONSTRATES SUBMUCOSAL SENSOR IS COMPARABLE TO URODYNAMIC CATHETER. NEUROUROLOGY AND URODYNAMICS 2015. Vol. 34, S6-S6. DOI: 10.1002/nau.22738
23. **Powell C** , Daniels D. Dorsal Onlay Buccal Urethoplasty (DOBU) in the Female is Durable and Is Not Associated with Incontinence Using LUTS Instruments Validated in Females. 2014 International Continence Society, Rio De Janiero. Oct 20,2014. Abstract #332.
24. A. Kim, **C. R. Powell,** and B. Ziaie. “An Implantable Pressure Sensing System with Electromechanical Interrogation Scheme,” Biomedical Engineering Journal. Biomedical Engineering, IEEE Transactions. Vol. 61, Issue: 7, pp 2209-2217. April 2014
25. W. Lee, A. Kim, **C. R. Powell**, B. Ziaie, V. Raghunatha. “Up-Link: an Ultra-Low Power Implantable Wireless System for Long-Term Ambulatory Urodynamics,” Biomedical Circuits and Systems Conference, Oct. 2014
26. Nick W. Liu, Jeromy T. Hackney, Thomas A. Gardner and **Charles R. Powell**. MODIFIABLE RISK FACTORS FOR MESH EXPOSURE IN PATIENTS UNDERGOING ROBOTIC-ASSISTED SACRAL COLPOPEXY. Annual Meeting of the American Urological Association. Orlando, FL. May 20, 2014.
27. **Powell, Charles R**, Daniels, David. Dorsal Onlay Buccal Urethoplasty (DOBU) in the Female Durable and Is Not Associated with Incontinence, Fistula Formation, or Clitoral Complications. Annual Meeting of the American Urological Association. Orlando, FL. May 20, 2014.
28. **Powell C**, Woodman P, Kasturi S, Schoon P, Haas D, Abernathy M P, Learman L; Teaching Retropubic Midurethral Sling Procedure on a Surgical Simulation Model; International Continence Society, Barcelona, Spain; PODIUM VIDEO #268. Aug 30, 2013.
29. Woodman PJ, Schoon PG**, Powell CR**, Hass DM, Abernathy MP, Lerman LA. Training the Trainer: A Pre-Test Faculty Training Video. 2013 CREOG & APGO Annual Meeting. Feb 22-Mar 2, 2013. Phoenix, AZ.
30. **CR Powell MD**, Nick Liu MD, Jeromy Hackney MD, Braxton Fritz BS, Thomas Gardner MD. SHOULD EVERY PATIENT UNDERGO MID URETHRAL SLING AT THE TIME OF ROBOTIC SACRAL COLPOPEXY? 2013 American Urological Association North Central Section. Naples, FL. Oct 8-12, 2013. Abstract #196.
31. Seung Seob Lee, Albert Kim, Girish Chitnis, **Charles R. Powell**, and Babak Ziaie. A Modular Embedded System Design For Implantable Wireless Bladder Pressure Sensing. 7th International Conference on Microtechnologies in Medicine and Biology. Marina Del Rey, CA. April 10-12, 2013.
32. Nick W. Liu, Jeromy T. Hackney, Braxton C. Fritz, Thomas A. Gardner and **Charles R. Powell;** Modifiable Risk Factors for Mesh Erosion in Patients Undergoing Robotic-Assisted Sacral Colpopexy; Society for Urodynamics and Female Pelvic Medicine and Reconstructive Surgery. Feb 26-Mar 2, 2013; Poster #M35.
33. **Powell, CR.** Robotic Sacral Colpopexy Tips and Tricks for Difficult Situations. Video. Society for Urodynamics and Female Urology. Video Abstract #138. New Orleans, LA Feb 28,2012.
34. **CR Powell,MD**, Joseph Zabell MD, Elizabeth B. Takacs MD, Karl J. Kreder MD. Nocturia Treated with Sacral Neuromodulation. Society for Urodynamics and Female Urology. Mar 3, 2011. Moderated Podium Presentation #23
35. Henry M. Rosevear, MD; Andrew J. Lightfoot, MD; **Charles R. Powell, MD.** “Not If Done Correctly.” Urethral Stricture In A 10-Year-Old Boy Associated With Bull Riding. North Central Section of the American Urological Association. Oct 2011. Abstract 143.
36. Henry M. Rosevear, Andrew J. Lightfoot, **Charles R. Powell**. Voiding Difficulty in a 10-year-old. Pediatrics in Review. 32;10. Oct 2011
37. Patrick J. WOODMAN, **Charles R. POWELL**, Paul G. SCHOON, David M. HAAS, Peter M. KNAPP, Lee A. LEARMAN. Objective Structured Assessment of Technical Skills for Retropubic Suburethral Sling and Cystourethroscopy. CREOG and APGO annual meeting, JW Marriott San Antonio Hill Country, March 9-12, 2011. Abstract # 1167.
38. Arlen AM, **Powell** CR, Kreder KJ. Sacral neuromodulation for refractory urge incontinence is less effective following spinal surgery. ScientificWorldJournal. 2011 Jan 18;11:142-6.
39. **Powell** C, Gardner T. Robotic assisted laparoscopic re-do vesicovaginal fistula repair. Video presentation - Presented 40th Annual International Continence Society Sept. 2010. Abstract 138.
40. Bockholt, Nathan A.; Nepple, Kenneth G.; **Powell, Charles R**.; Kreder, Karl J. Traumatic Urethral Injury without Pelvic Fracture in an Adult Female. TheScientificWorldJOURNAL Urology. Feb 17, 2010. Pp. 308-310.
41. Arlen AM, **Powell CR**, Hoffman HT, Kreder KJ. Buccal mucosal graft urethroplasty in the treatment of urethral strictures: experience using the two-surgeon technique. ScientificWorldJournal. 2010 Jan 8;10:74-9.
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