

CURRICULUM VITAE
Robert Matthew Coward, MD FACS

CONTACT INFORMATION

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EDUCATION AND TRAINING

Fellowship, Male Reproductive Medicine and Surgery Scott Department of Urology, Baylor College of Medicine, Houston, TX	2012 - 2013
Residency, Urology Department of Urology, University of North Carolina, Chapel Hill, NC	2008 - 2012
Internship, General Surgery Department of Surgery, University of North Carolina, Chapel Hill, NC	2007 - 2008
Doctor of Medicine with Distinction University of North Carolina School of Medicine, Chapel Hill, NC	2003 - 2007
Bachelor of Science in Biology with Highest Distinction University of North Carolina at Chapel Hill, Chapel Hill, NC	1999 - 2003

PROFESSIONAL EXPERIENCE

Academic Appointments:

- Fellowship Director, UNC Men's Health and Andrology Fellowship
UNC Department of Urology, UNC Healthcare, Chapel Hill, NC 2017 - present
- Director, Male Reproductive Medicine and Surgery
UNC Fertility, LLC, Raleigh, NC 2016 - present
- Clinical Associate Professor of Obstetrics and Gynecology
UNC School of Medicine, Chapel Hill, NC 2014 - present
- Associate Professor of Urology
UNC School of Medicine, Chapel Hill, NC 2013 - present

Hospital and Clinic Privileges:

- UNC Hospitals, Chapel Hill, NC 2013 - present
- UNC Fertility, LLC, Raleigh, NC 2013 - present

Certifications:

- AUA Urologic Ultrasound Certification 2018
- American Board of Urology – Board Certified, Certificate No. 18641 2015
- Fundamentals of Microsurgery, Methodist Institute for Technology Innovation, and Education, Methodist Hospital, Houston, TX 2012

Licensure:

- North Carolina Full Physician License #2013-00156 2013 - present
- Drug Enforcement Administration License 2013 - present
- National Provider Identifier (NPI) #1306047824 2007 - present
- Texas – Physician in Training Permit #BP10042349 2012 - 2013
- North Carolina – Residency Training License #140643 2007 - 2012
- United States Medical Licensing Examination, Parts I, II, and III (Passed) 2005 - 2007

AWARDS AND HONORS

- Star Reviewer, *Fertility and Sterility* 2018
- American Urological Association / Japanese Urological Association Academic Exchange Scholarship 2018
- UNC Health Care and Faculty Physicians Award for Carolina Care Excellence 2018
- Best Doctors in America 2017 - 2018
- Fellow, American College of Surgeons 2016
- Caregivers at Carolina Research Travel Award 2016
- UNC Health Care and Faculty Physicians Award for Carolina Care Excellence 2016
- Best Doctors in America 2015 - 2016
- Outstanding Reviewer, *Urology (Gold Journal)* 2015
- Academy of Educators, UNC School of Medicine 2015
- Kaiser Permanente Excellence in Teaching Award 2010
- UNC Urologic Surgery Scholar of the Year 2009
- Third Place, Case Report Presentation, NC Urology Residents Seminar 2008
- *Alpha Omega Alpha* Honor Medical Society 2006
- John B. Graham Research Society 2006
- Isaac Manning Medical Scholarship 2005 - 2006
- *Alpha Epsilon Lambda* Graduate Student’s Honor Society 2005
- Eugene S. Mayer Community Service Honor Society 2005
- Morehead Medical Scholarship 2003 - 2004
- Dean’s List, UNC Chapel Hill, All eight semesters 1999 - 2003
- *Phi Beta Kappa* Academic Honor Society 2002
- Sigma Delta Pi Spanish National Honor Society 2002
- National Society of Collegiate Scholars 2001

BIBLIOGRAPHY

Book Chapters:

1. Vukina J, McBride JA, Carson CC, and **Coward RM**. Premature Ejaculation. In Dahm and Dmochowski (eds): Evidence-Based Urology (2nd ed.). Wiley, New York, 2018. Pages 569-578.

2. Celigoj AF, **Coward RM**, Timberlake MD, and Smith RP. Anatomy and Physiology of Erection, Ejaculation, and Orgasm. In Lipshultz LI, Pastuszak AW, Goldstein AT, Giraldi A, Perelman M (eds): Management of Sexual Dysfunction in Men and Women: An Interdisciplinary Approach (1st ed.). Springer, New York, 2016. Pages 33-41.
3. **Coward RM** and Carson CC. Penile Prosthesis Implantation. In Graham SD and Keane TE (eds): Glenn's Urologic Surgery (8th ed.). Lippincott Williams & Wilkins, Philadelphia, 2015. Pages 610-619.
4. Smith RP, **Coward RM**, and Lipshultz LI. The Office Visit. In Niederberger C (ed): Urology Clinics of North America: Current Management of Male Infertility. Elsevier, Philadelphia, 2014 Feb; 41(1):19-37.

In Press/Submitted

5. McCormick B and **Coward RM**. Varicocele and Orchialgia. In Esteves S, Cho CL, Majzoub A, and Agarwal A (eds): Varicocele and Male Infertility: A Complete Guide. Springer Nature, New York, 2019. 24 typed pages.

Peer-Reviewed Original Research Publications:

1. Trussell JC, **Coward RM**, Santoro N, Stetter C, Kunselman A, Diamond MP, Hansen KR, Krawetz SA, Legro RS, Heisenleder D, Smith J, Steiner A, Wild R, Casson P, Coutifaris C, Alvero RR, Robinson RB, Christman G, Patrizio P, Zhang H, Lindgren MC; Reproductive Medicine Network. Association between testosterone, semen parameters, and live birth in men with unexplained infertility in an intrauterine insemination population. Fertil Steril. 2019. [Epub ahead of print]
2. **Coward RM**, Stetter C, Kunselman A, Trussell JC, Lindgren MC, Alvero RR, Casson P, Christman GM, Coutifaris C, Diamond MP, Hansen KR, Krawetz SA, Legro RS, Robinson RD, Smith JF, Steiner AZ, Wild RA, Zhang H, Santoro N, for the Reproductive Medicine Network. Fertility-Related Quality of Life, Gonadal Function, and Erectile Dysfunction in Male Partners of Couples with Unexplained Infertility. J Urol. 2019. [epub ahead of print]
3. Wittmann D, Mehta A, Northouse L, Dunn R, Braun T, Duby A, An L, Arab L, Bangs R, Bober S, Brandon J, **Coward M**, Dunn M, Galbraith M, Garcia M, Giblin J, Glode M, Koontz B, Lowe A, Mitchell S, Mulhall J, Nelson C, Paich K, Saigal C, Skolarus T, Stanford J, Walsh T, and Pollack CE. TrueNTH sexual recovery study protocol: a multi-institutional collaborative approach to developing and testing a web-based intervention for couples coping with the side-effects of prostate cancer treatment in a randomized controlled trial. BMC Cancer. 2017 Oct 2;17(1):664.
4. **Coward RM** and Mills JN. A Step-by-Step Guide to Office-Based Sperm Retrieval for Obstructive Azoospermia. Transl Androl Urol. 2017 Aug;6(4):730-744.
5. McBride JA, Carson CC, and **Coward RM**. Readability, credibility and quality of patient information for hypogonadism and testosterone replacement therapy on the Internet. Int J Impot Res. 2017 May;29(3):110-114.
6. Lyons M, Lentz AC, and **Coward RM**. Lisdexamfetamine Dimesylate (Vyvanse) for the Treatment of Neurogenic Anejaculation. Am J Mens Health. 2017 May;11(3):618-619.
7. Spencer ES, Hoff HS, Steiner AZ, and **Coward RM**. Immediate ureterovaginal fistula following oocyte retrieval: A case and systematic review of the literature. Urol Ann. 2017 Apr-Jun;9(2):125-130.
8. Kirby EW, Wiener LE, Rajanahally S, Crowell K, and **Coward RM**. Undergoing varicocele repair before assisted reproduction improves pregnancy rate and live birth rate in azoospermic and oligospermic men with a varicocele: a systematic review and meta-analysis. Fertil Steril. 2016 Nov;106(6):1338-1343.

9. McBride JA, Carson CC, and **Coward RM**. The Availability and Acquisition of Illicit Anabolic Androgenic Steroids and Testosterone Preparations on the Internet. *Am J Mens Health*. 2018 Sep;12(5):1352-1357.
10. Stephens JR, **Coward RM**, and Viprakasit DP. Protease Inhibitor-Induced Nephrolithiasis. *Consultant*. 2016;56(1):68-70.
11. Kovac JR, Scovell J, Ramasamy R, Rajanahally S, **Coward RM**, Smith RP, and Lipshultz LI. Men regret anabolic steroid use due to a lack of comprehension regarding the consequences on future fertility. *Andrologia*. 2015 Oct;47(8):872-8.
12. Lyons MD, Carson CC, and **Coward RM**. Special considerations for placement of an inflatable penile prosthesis for the patient with Peyronie's Disease: Techniques and patient preference. *Med Devices*. 2015 Jul 27;8:331-40.
13. Kirby EW, Carson CC, and **Coward RM**. Tramadol for the Management of Premature Ejaculation: A Timely Systematic Review. *Int J Impot Res*. 2015 Jul;27(4):121-7.
14. Smith R, Fantus J, Doerge EJ, Lipshultz LI, Kovac JR, and **Coward RM**. Baseline FSH Predicts Semen Parameter Response in Infertile Men on Clomiphene Citrate. *Journal of Men's Health*. 2015 May; 11(5): 22-29.
15. Kirby EW, Verges D, Matthews J, Carson CC, and **Coward RM**. Low testosterone has a similar prevalence among men with sexual dysfunction due to either Peyronie's disease or erectile dysfunction and does not correlate with Peyronie's disease severity. *J Sex Med*. 2015 Mar;12(3):690-6.
16. **Coward RM**, Mata DA, Smith RP, Kovac JR, and Lipshultz LI. Vasectomy Reversal Outcomes in Men Previously on Testosterone Supplementation Therapy. *Urology*. 2014 Dec;84(6):1335-40.
17. Kovac JR, Gomez L, Smith RP, **Coward RM**, Gonzales MA, Khera M, Lamb DJ, and Lipshultz LI. Measurement of endothelial dysfunction via peripheral arterial tonometry predicts vasculogenic erectile dysfunction. *Int J Impot Res*. 2014 Nov-Dec;26(6):218-22.
18. Smith RP, Khanna A, Kovac JR, Badhiwala N, **Coward RM**, and Lipshultz LI. The significance of sperm heads and tails within the vasal fluid during vasectomy reversal. *Indian J Urol*. 2014 Apr;30(2):164-8.
19. Hakky TS, **Coward RM**, Smith RP, Kovac JR, and Lipshultz LI. Vasovasostomy: a step-by-step surgical technique video. *Fertil Steril*. 2014 Mar;101(3):e14.
20. Kovac JR, Rajanahally S, Smith RP, **Coward RM**, Lamb DJ, and Lipshultz LI. Patient Satisfaction with Testosterone Replacement Therapies: The Reasons Behind the Choices. *J Sex Med*. 2014 Feb;11(2):553-62.
21. **Coward RM**, Badhiwala N, Kovac JR, Smith RP, Lamb DJ, and Lipshultz LI. Impact of the 2012 AUA Vasectomy Guidelines on post-vasectomy outcomes. *J Urol*. 2014 Jan;191(1):169-174.
22. **Coward RM**, Rajanahally S, Kovac JR, Smith RP, Pastuszak AW, and Lipshultz LI. Anabolic steroid induced hypogonadism in young men. *J Urol*. 2013 Dec;190(6):2200-5.
23. Smith RP, Khanna A, **Coward RM**, Rajanahally S, Gonzalez MA, Kovac JR, and Lipshultz LI. Factors influencing patient decisions to initiate and discontinue subcutaneous testosterone pellets (Testopel®) for treatment of hypogonadism. *J Sex Med*. 2013 Sep;10(9):2326-33.
24. **Coward RM**, Smith A, Raynor M, Nielsen M, Wallen EM, and Pruthi RS. Feasibility and outcomes of robotic-assisted laparoscopic radical cystectomy for bladder cancer in older patients. *Urology* 2011; 77(5): 1111-4.

25. **Coward RM**, Simhan J, and Carson CC. Racial differences in hypogonadal improvement and prostate-specific antigen levels in hypogonadal men treated with testosterone replacement therapy. *Int Braz J Urol* 2010; 36: 700-709.
26. **Coward RM**, Simhan J, and Carson CC. Prostate-specific antigen changes and prostate cancer in hypogonadal men treated with testosterone replacement therapy. *BJU Int* 2009; 103: 1179-1183.

Other Peer-Reviewed Publications:

1. Ehlers M, McCormick B, **Coward RM**, Figler BD. Innovating Incrementally: Development of the Modern Inflatable Penile Prosthesis. *Curr Urol Rep*. 2019 Mar 7;20(4):17.
2. Sukhu T, Ross S, **Coward RM**. Urological Survivorship Issues Among Adolescent Boys and Young Men Who Are Cancer Survivors. *Sex Med Rev*. 2018 Jul; 6(3): 396-409.
3. Macey MR, Owen RC, Ross SS, **Coward RM**. Best practice in the diagnosis and treatment of varicocele in children and adolescents. *Ther Adv Urol*. 2018 Jun; 10(9): 273-282.
4. Practice Committee of the American Society for Reproductive Medicine in collaboration with the Society for Male Reproduction and Urology: Hwang K, Smith JF, **Coward RM**, Penzias A, Bendikson K, Butts S, Coutifaris C, Falcone T, Fossum G, Gitlin S, Gracia C, Hansen K, Jindal S, La Barbera A, Mersereau J, Odem R, Paulson R, Pfeifer S, Pisarska M, Rebar R, Reindollar R, Rosen M, Sandlow J, Stovall D, Vernon M. Evaluation of the Azoospermic Male: A Committee Opinion. *Fertil Steril*. 2018 May; 109(5): 777-782.
5. Narang GL, Figler BD, and **Coward RM**. Preoperative Counseling and Expectation Management for Inflatable Penile Prosthesis Implantation. *Transl Androl Urol*. 2017 Nov;6(Suppl 5):S869-S880.
6. Owen RC, McCormick BJ, Figler, BD, and **Coward RM**. A review of varicocele repair for pain. *Transl Androl Urol*. 2017 May;6(Suppl 1):S20-S29.
7. Lomboy J and **Coward RM**. The Varicocele: Clinical Presentation, Evaluation, and Surgical Management. *Semin Intervent Radiol*. 2016 Sep;33(3):163-9.
8. Sukhu T, Carson CC, and **Coward RM**. Distal extrusion and impending cylinder erosion of the penile prosthesis: A clinical challenge for the urologist. *Current Sexual Health Reports*. 2016; 8:86-90.
9. McBride JA and **Coward RM**. Recovery of Spermatogenesis Following Testosterone Replacement Therapy or Anabolic Androgenic Steroid Use. *Asian J Androl*. 2016 May-Jun;18(3):373-80.
10. McBride JA, Carson CC, and **Coward RM**. Testosterone Supplementation in the Aging Male. *Ther Adv Urol*. 2016, Vol. 8(1) 47–60.
11. McBride JA, Carson CC, and **Coward RM**. Diagnosis and Management of Testosterone Deficiency. *Asian J Androl* 2015 Mar-Apr;17(2):177-86.
12. Vukina J, Lentz AC, Smith RP, Lipshultz LI, Carson CC, and **Coward RM**. Medical Management of Peyronie’s Disease: A 2014 Update. *Current Sexual Health Reports*. 2014 Sept; 6(3): 155-163.
13. **Coward RM**, Kovac JR, Smith RP, and Lipshultz LI. Fertility preservation in young men treated for malignancies: options for pre-cancer treatment. *Sex Med Rev* 2013;1:123–134.
14. Kovac JR, Addai J, Smith RP, **Coward RM**, Lamb DJ, and Lipshultz LI. The effects of advanced paternal age on fertility. *Asian J Androl*. 2013 Nov;15(6):723-8.

15. Smith RP, **Coward RM**, Kovac JR, and Lipshultz LI. The evidence for seasonal variations of testosterone in men. *Maturitas* 2013; 74:208-212.
16. **Coward RM** and Carson CC. Testosterone replacement therapy after prostate cancer. *Trends in Urology and Men's Health* 2011; 2(1): 22-26.
17. **Coward RM** and Carson CC. Testosterone replacement therapy after prostate cancer: the emergence of a new concept in current urologic practice. *Urol List* 2010; 8(4): 32-34.
18. **Coward RM** and Carson CC. Tadalafil in the treatment of erectile dysfunction. *Ther Clin Risk Manag* 2008; 4: 1315-30.

Editorials:

1. **Coward RM**. Editorial Comment on "Sexual Function in a Nationwide Cohort of 2,260 Survivors of Testicular Cancer after 17 Years of Followup". *J Urol*. 2018 Oct;200(4):799-800.
2. **Coward RM**. Evolving role of varicocele repair in the era of assisted reproduction. *Fertil Steril*. 2017 Oct;108(4):596-597.
3. **Coward RM**. Editorial Comment on "The Interplay Between Premature Ejaculation and Erectile Dysfunction: A Systematic Review and Meta-Analysis." *J Sex Med*. 2015 Dec;12(12):2301.
4. **Coward RM**, Mata DA, Smith RP, Kovac JR, and Lipshultz LI. Reply. *Urology*. 2014 Dec;84(6):1341.
5. **Coward RM** and Lipshultz LI. Editorial Comment: Varicocelectomy is associated with increases in serum testosterone independent of clinical grade. *Urology*. 2013 Jun;81(6):1217-8.

Published Peer-Reviewed Abstracts:

Moderated Podium Presentations

1. Gan Z, Ehlers M, Lin FC, Wright S, Figler B, **Coward RM**. Systematic Review and Meta-Analysis of Cycling and Erectile Dysfunction. *AUA 2019*. Chicago, IL. May 5, 2019.
2. McBride JA, Kohn T, Campbell S, Gondokusomo J, Tatem A, Beilan J, Mazur S, Lipshultz LI, **Coward RM**. Sperm Retrieval and Intracytoplasmic Sperm Injection (ICSI) Outcomes in Men with Cystic Fibrosis (CF) Disease Versus Congenital Bilateral Absence of the Vas Deferens (CBAVD). *AUA 2019*. Chicago, IL. May 4, 2019.
3. Steiner A, Hansen K, Diamond M, Coutifaris C, Cedars M, Legro R, Usadi R, Baker V, **Coward R**, Santoro N, Eisenberg E, Zhang H. Antioxidants in the treatment of male factor infertility: Results from the double blind, multi-center, randomized controlled Males, Antioxidants, and Infertility (MOXI) trial. *European Society of Human Reproduction and Embryology Annual Meeting*. Barcelona, Spain. July 2, 2018.
4. Kohn TP, Kohn JR, Owen RC, and **Coward RM**. The Prevalence of Y-Chromosome Microdeletions in Oligospermic Men Stratified by Sperm Concentration: A Systematic Review and Meta-Analysis. *AUA 2018*. San Francisco, CA. May 18, 2018.
5. Lindgren MC, Stetter C, Kunselman A, **Coward RM**, Diamond MP, Hansen K, Krawetz S, Legro R, Smith J, Steiner A, Patrizio P, Wild R, Eisenberg E, Zhang H, Santoro N, Trussell JC, for the NICHD's Reproductive Medicine Network. Metabolic Dysfunction and Hypogonadism in a Cohort of Young, Healthy Men. *AUA 2018*. San Francisco, CA. May 20, 2018.

6. Hansen KR, **Coward RM**, Trussell JC, Chen S, Wild RA for the NICHD'S Reproductive Medicine Network. Semen Parameters and Intrauterine Insemination (IUI) Performance Characteristics: Relation to Live-Birth Rate in Ovarian Stimulation (OS)-IUI Treatments in a Multicenter Trial. 73rd American Society for Reproductive Medicine Scientific Congress & Expo. San Antonio, TX. November 1, 2017.
7. Kirby EW, Rajanahally S, Crowell K, **Coward RM**. The role of varicocele repair prior to assisted reproductive technology. AUA 2014, Orlando, FL. May 19, 2014.
8. Badhiwala N, **Coward RM**, Smith RP, Kovac JR, Hsieh TC, McIntyre M, Murthy L, Lamb DJ, Lipshultz LI. Impact of the 2012 AUA Vasectomy Guidelines on Post-Vasectomy Outcomes. AUA 2013, San Diego, CA. May 8, 2013.
9. Rajanahally S, **Coward RM**, Smith RP, Kovac JR, Pastuszak AW, Lipshultz LI. The prevalence of prior use of anabolic androgenic steroids in young hypogonadal men. AUA 2013, San Diego, CA. May 6, 2013.
10. Smith AM, **Coward RM**, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic radical cystectomy: Evaluation of the learning curve. American College of Surgeons Clinical Congress 2009, Chicago, IL. October 13, 2009.
11. **Coward RM**, Smith AM, Simhan J, Nielsen ME, Wallen EM, Pruthi RS, Carson CC. Racial differences in prostate-specific antigen in hypogonadal men treated with testosterone replacement therapy. American College of Surgeons Clinical Congress 2009, Chicago, IL. October 12, 2009.
12. **Coward RM**, Smith AM, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Impact of marital status in patients undergoing radical cystectomy for bladder cancer. American College of Surgeons Clinical Congress 2009, Chicago, IL. October 12, 2009.
13. **Coward RM**, Smith AM, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. The impact of a multidisciplinary approach in the management of urologic malignancies: Does it influence diagnostic and treatment decisions? American College of Surgeons Clinical Congress 2009, Chicago, IL. October 12, 2009.
14. Smith AM, **Coward RM**, Kim W, Nielsen ME, Wallen EM, Pruthi RS. A phase II study of neoadjuvant erlotinib (Tarceva) in patients with muscle-invasive bladder cancer undergoing radical cystectomy: Preliminary results. American College of Surgeons Clinical Congress 2009, Chicago, IL. October 12, 2009.
15. **Coward RM**, Smith AM, Belsante J, Kurpad R, Schultz H, Nix J, Nielsen ME, Wallen EM, Pruthi RS. Clinical outcomes of a stapled ileal neobladder after radical cystectomy for bladder cancer. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
16. Nix J, **Coward RM**, Smith AM, Kurpad R, Schultz H, Nielsen ME, Wallen EM, Pruthi RS. Prospective randomized trial of open versus robotic-assisted laparoscopic radical cystectomy for bladder cancer: Interim results. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
17. **Coward RM**, Smith AM, Belsante J, Kurpad R, Schultz H, Nix J, Nielsen ME, Wallen EM, Pruthi RS. Clinical outcomes of a stapled ileal neobladder after radical cystectomy for bladder cancer. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
18. Nix J, **Coward RM**, Smith AM, Kurpad R, Schultz H, Nielsen ME, Wallen EM, Pruthi RS. Prospective randomized trial of open versus robotic-assisted laparoscopic radical cystectomy for bladder cancer: Interim results. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
19. Johnson D, Kelly D, Smith AM, **Coward RM**, Pruthi RS, Wallen EM. Impact of hospital type on surgical treatment for kidney cancer: Recent trends. AUA 2009 National Meeting, Chicago, IL. April 26, 2009.

20. **Coward RM**, Smith AM, Kelly D, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. An analysis of the impact of race on bladder cancer treatment and mortality. AUA 2009 National Meeting, Chicago, IL. April 25, 2009.

Moderated Video Presentations

1. Spencer ES, Hakky TS, Langille G, **Coward RM**, Lipshultz LI. Epididymovasostomy: A Two-Suture Intussusception Approach. American College of Surgeons. October 6, 2015. Chicago, IL.

Moderated Poster Presentations

1. **Coward RM**, Ehlers M, Lin FC, Wright S, Figler B, Gan Z. Systematic Review and Meta-Analysis of Cycling and Erectile Dysfunction. Japanese Urological Association Annual Meeting 2019. Nagoya, Japan. April 19, 2019.
2. **Coward RM**, McBride JA, Kohn T, Mazur S, Lipshultz LI. Sperm Retrieval and Intracytoplasmic Sperm Injection (ICSI) Outcomes in Men with Cystic Fibrosis (CF) Disease Versus Congenital Bilateral Absence of the Vas Deferens (CBAVD). Japanese Urological Association Annual Meeting 2019. Nagoya, Japan. April 19, 2019.
3. Trussell JC, **Coward RM**, Santoro N, Stetter CM, Kunselman A, Diamond M, Hansen K, Krawetz S, Legro R, Smith J, Steiner AZ, Wild R, Zhang H, and Lindgren M. Defining Hypogonadism in Male Partners of Couples with Unexplained Infertility. ASRM 2018. Denver, CO. October 10, 2018.
4. Stanhiser J, Mersereau JE, Dock D, Boylan C, Connerney M, Caprell H, **Coward RM**, Berger DS, and Fritz MA. Sperm Morphology from the Actual Inseminated Sample Does Not Predict Clinical Pregnancy Following Intrauterine Insemination Regardless of the Presence or Severity of Teratospermia. ASRM 2018. Denver, CO. October 9, 2018.
5. **Coward RM**, Stetter C, Kunselman A, Trussell JC, Lindgren M, Diamond M, Hansen K, Krawetz S, Legro R, Patrizio P, Smith J, Steiner A, Wild R, Eisenberg E, Zhang H, Santoro N for the NICHD's Reproductive Medicine Network. Fertility-Related Quality of Life, Gonadal Function, and Erectile Dysfunction in Male Partners of Couples with Unexplained Infertility. AUA 2018. San Francisco, CA. May 18, 2018.
6. Trussell JC, **Coward RM**, Santoro N, Stetter C, Kunselman A, Diamond M, Hansen K, Krawetz S, Legro R, Smith J, Steiner A, Patrizio P, Wild R, Eisenberg E, Zhang H, Lindgren M, for the NICHD's Reproductive Medicine Network. Hypogonadism is Associated with Lower Sperm Morphology and Lower Live Birth Rates in Men with Unexplained Infertility. AUA 2018. San Francisco, CA. May 20, 2018.
7. Owen RC, Gray JE, Fritz MA, Boylan CF, **Coward RM**. Office-Based Minimally Invasive Epididymal Sperm Aspiration (MIESA) For Obstructive Azoospermia (OA) Results in High Quality Cryopreserved Samples and Excellent In Vitro Fertilization (IVF) Outcomes. 73rd American Society for Reproductive Medicine Scientific Congress & Expo. San Antonio, TX. November 1, 2017.
8. Sukhu T, Lyons M, Lentz AC, and **Coward RM**. Lisdexamfetamine Dimesylate (Vyvanse) for the Treatment of Neurogenic Anejaculation. Sexual Medicine Society of North America Fall Meeting, 2016. November 4, 2016.
9. McBride JA, Lyons MD, Vukina J, Carson CC, **Coward RM**. A Critical Evaluation of the Readability, Credibility, and Quality of High Ranking Websites Proclaiming to Provide Patient Centered Information on Hypogonadism. Sexual Medicine Society of North America Fall Meeting, 2015. November 21, 2015.
10. McBride JA, Vukina J, Lyons MD, Carson CC, **Coward RM**. The Ubiquitous Availability and Easy Acquisition of Illicit Anabolic Androgenic Steroids and Testosterone Preparations on the Internet. Sexual Medicine Society of North America Fall Meeting, 2015. November 21, 2015.

11. Gessner RC, Baumgarten LR, Dayton PA, **Coward RM**. Developing a prototype for an automated, low-cost 3D ultrasound scanner for dedicated urological applications. AUA 2015, New Orleans, LA. May 16, 2015.
12. Kovac JR, Rajanahally S, Smith RP, **Coward RM**, Lamb DJ, Lipshultz LI. Patient satisfaction with testosterone replacement therapies: the reasons behind the choices. Sexual Medicine Society of North America, 19th Annual Fall Scientific Meeting, New Orleans, LA. November 24, 2013.
13. Rajanahally S, Kovac JR, Smith RP, **Coward RM**, Lamb DJ, Lipshultz LI. Embarrassment and altered body image in hypogonadal men on testosterone replacement therapy (TRT). Sexual Medicine Society of North America, 19th Annual Fall Scientific Meeting, New Orleans, LA. November 24, 2013.
14. Mata DA, **Coward RM**, Smith RP, Kovac JR, Lipshultz LI. Vasectomy reversal outcomes in men previously on testosterone replacement therapy. Sexual Medicine Society of North America, 19th Annual Fall Scientific Meeting, New Orleans, LA. November 23, 2013.
15. Doerge EJ, Fantus J, Smith RP, Kovac JR, **Coward RM**, Lipshultz LI. The effect of clomiphene citrate on infertile males. Sexual Medicine Society of North America, 19th Annual Fall Scientific Meeting, New Orleans, LA. November 23, 2013.
16. Kovac JR, Gomez L, Smith RP, **Coward RM**, Gonzales M, Khera M, Lamb DJ, Lipshultz LI. Measurement of endothelial dysfunction via peripheral arterial tonometry predicts vasculogenic erectile dysfunction. Sexual Medicine Society of North America, 19th Annual Fall Scientific Meeting, New Orleans, LA. November 22, 2013.
17. Khanna A, Rajanahally S, Smith RP, **Coward RM**, Kovac JR, Gonzales M, Lipshultz LI. Factors Influencing Patient Decisions to Initiate and Discontinue Testopel Subcutaneous Testosterone Pellets for Treatment of Hypogonadism. AUA 2013, San Diego, CA. May 7, 2013.
18. **Coward RM**, Verges D, Smith AM, Carson CC. Testosterone deficiency is similarly prevalent among men presenting with either Peyronie's disease or erectile dysfunction. Sexual Medicine Society of North America, 17th Annual Fall Scientific Meeting, Las Vegas, NV. November 11, 2011.
19. **Coward RM**, Raynor M, Vyas S, Smith AM, Carson CC. A randomized, double-blind, placebo-controlled study of dorsal penile nerve block (DPNB) prior to penile prosthesis implantation for post-operative pain control. Sexual Medicine Society of North America, 17th Annual Fall Scientific Meeting, Las Vegas, NV. November 11, 2011.
20. **Coward RM**, Simhan J, Pruthi RS, Carson CC. Racial differences in hypogonadal improvement and prostate-specific antigen levels in hypogonadal men treated with testosterone replacement therapy. Sexual Medicine Society of North America, 15th Annual Fall Scientific Meeting, San Diego, CA. November 20, 2009.
21. **Coward RM**, Simhan J, Pruthi RS, Carson CC. Racial differences in hypogonadal improvement and prostate-specific antigen levels in hypogonadal men treated with testosterone replacement therapy. 6th World Congress of Men's Health, Vienna, Austria. October 10, 2009.
22. Smith AM, **Coward RM**, Doak H, Kurpad R, Nix J, Nielsen ME, Schultz H, Wallen EM, Pruthi RS. Outcomes and implications of follow-up biopsies of men on active surveillance for low-risk prostate cancer. AUA 2009 National Meeting, Chicago, IL. April 28, 2009.
23. **Coward RM**, Smith AM, Kurpad R, Nix J, Schultz H, Nielsen ME, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic radical cystectomy for bladder cancer: Peri-operative outcomes in 94 patients and comparison to an open cohort. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.

24. **Coward RM**, Smith AM, Nix J, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Feasibility and outcomes of robotic-assisted laparoscopic radical cystectomy for bladder cancer in the elderly. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
25. Smith AM, **Coward RM**, Lal A, Kurpad R, Nix J, Nielsen ME, Wallen EM, Pruthi RS. Analgesic use in open versus robotic-assisted laparoscopic radical prostatectomy. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
26. Smith AM, **Coward RM**, Lal A, Kurpad R, Nix J, Nielsen ME, Wallen EM, Pruthi RS. Analgesic use in men undergoing robotic-assisted laparoscopic radical prostatectomy: A detailed analysis of demographic, clinical, and operative, influences. AUA 2009 National Meeting, Chicago, IL. April 27, 2009.
27. **Coward RM**, Simhan J, Carson CC. PSA and lipid dynamics in hypogonadal men treated with testosterone replacement therapy. AUA 2007 National Meeting, Anaheim, CA. May 21, 2007.

Unpublished Peer-Reviewed Abstracts:

Moderated Podium Presentations

1. **Coward RM**, Mata D, Smith RP, Kovac JR, Lipshultz LI. Vasectomy reversal outcomes in men previously on testosterone replacement therapy. Southeastern Section of the AUA 2014, Hollywood, FL. March 23, 2014.
2. **Coward RM** and Carson CC. Racial differences in hypogonadal improvement and prostate-specific antigen levels in hypogonadal men treated with testosterone replacement therapy. Ninth Annual North Carolina Urology Residents Symposium, Greensboro, NC. September 26, 2009.
3. Smith AM, Johnson D, Kelly D, **Coward RM**, Pruthi RS, Wallen EM. Impact of hospital type on surgical treatment for kidney cancer: Recent trends. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
4. Wallen EM, **Coward RM**, Smith AM, Kurpad R, Nielsen ME, Pruthi RS. Robotic-assisted laparoscopic radical cystectomy for bladder cancer: experience in 85 patients and comparison to an open cohort. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
5. Smith AM, **Coward RM**, Lal A, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Cost analysis of robotic-assisted laparoscopic radical cystectomy for bladder cancer. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
6. **Coward RM**, Kelley D, Smith AM, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. An analysis of the impact of race on bladder cancer treatment and mortality. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
7. Pruthi RS, Smith AM, **Coward RM**, Kim W, Grigson G, Kurpad R, Wallen EM, Nielsen ME. A phase II study of neoadjuvant erlotinib (Tarceva) in patients with muscle-invasive bladder cancer undergoing radical cystectomy: Preliminary results. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
8. Miller J, **Coward RM**, Smith AM, Belsante J, Kurpad R, Wallen EM, Pruthi RS. Preliminary experience with prostate-sparing cystectomy for urothelial carcinoma of the bladder. Southeastern Section of the AUA 2009, Mobile, AL. March 27, 2009.
9. Smith AM, **Coward RM**, Doak H, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Outcomes and implications of follow-up biopsies of men on active surveillance for low-risk prostate cancer. Southeastern Section of the AUA 2009, Mobile, AL. March 26, 2009.

10. Smith AM, **Coward RM**, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Does the time of day or day of the week affect outcomes after robotic-assisted laparoscopic radical prostatectomy? Southeastern Section of the AUA 2009, Mobile, AL. March 26, 2009.

Moderated Video Presentations

1. **Coward RM**, Hakky TS, Smith RP, Kovac JR, Lipshultz LI. Vasovasostomy: A step by step surgical approach. 78th Annual Meeting of the Southeastern Section of the AUA, Hollywood, FL. March 23, 2014.

Moderated Poster Presentations

1. **Coward RM**. Issues surrounding fertility and sexual function for families or individuals affected by CHARGE syndrome. 13th International CHARGE Syndrome Conference. Orlando, FL. July 28, 2017.
2. McBride JA, Vukina J, Lyons MD, Carson CC, **Coward RM**. The Ubiquitous Availability and Easy Acquisition of Illicit Anabolic Androgenic Steroids and Testosterone Preparations on the Internet. Southeastern Section of the AUA. March 18, 2016.
3. Hardisty E, Vargo D, Vora N, **Coward RM**. CHARGE syndrome due to subchromosomal deletions: A case series illustrating the importance of the use of chromosomal microarray analysis in prenatal diagnosis. International Conference on Prenatal Diagnosis and Therapy, Washington, DC. July 12, 2015.
4. **Coward RM**, Smith RP, Kovac JR, Khanna A, Badhiwala N, Lipshultz LI. The significance of sperm heads with short tails in the vasal fluid during vasectomy reversal. 78th Annual Meeting of the Southeastern Section of the AUA, Hollywood, Florida. March 20, 2014.
5. Kovac JR, Khanna A, Smith RP, **Coward RM**, Badhiwala N, Lamb DJ, Lipshultz LI. The significance of sperm heads and tails in the vasal fluid during vasectomy reversal. Men's Health World Congress 2013, Washington DC. December 8, 2013.
6. Kovac JR, Badhiwala N, Khanna A, Smith RP, **Coward RM**, Murthy L, Hsieh TC, McIntyre M, Lamb DJ, Lipshultz LI. Does clinical evidence support the WHO decision to focus on strict morphology rather than light microscopy in assessment of sperm morphology? Men's Health World Congress 2013, Washington DC. December 8, 2013.
7. Khanna A, Kovac JR, Smith RP, **Coward RM**, Lamb DJ, Lipshultz LI. Clear intravasal fluid obtained at time of vasectomy reversal predicts patency regardless of time from vasectomy. Men's Health World Congress 2013, Washington DC. December 8, 2013.
8. **Coward RM**, Simhan J, Carson CC. Racial differences in prostate-specific antigen in hypogonadal men treated with testosterone replacement therapy. Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.
9. **Coward RM**, Smith AM, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Achieving complete success after robotic radical prostatectomy: Is the trifecta in reach? Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.
10. Smith AM, **Coward RM**, Belsante J, Kurpad R, Wallen EM, Pruthi RS. Clinical outcomes of a stapled ileal neobladder after radical cystectomy for bladder cancer. Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.
11. Smith AM, **Coward RM**, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. The impact of a multidisciplinary approach in the management of bladder cancer. Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.

12. Kurpad R, **Coward RM**, Smith AM, Shingleton B, Nielsen ME, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic radical cystectomy: evaluation of the learning curve. Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.
13. **Coward RM**, Smith AM, Kurpad R, Nielsen ME, Wallen EM, Pruthi RS. Impact of obesity and adiposity on outcomes of patients undergoing radical cystectomy for bladder cancer. Southeastern Section of the AUA 2009, Mobile, AL. March 29, 2009.
14. **Coward RM**, Smith AM, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic radical cystectomy: Medium-term clinical and oncologic follow-up. Society of Urologic Oncology, Bethesda, MD. Dec 5, 2008.
15. **Coward RM**, Smith AM, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic anterior pelvic exenteration for bladder cancer in the female. Society of Urologic Oncology, Bethesda, MD. Dec 5, 2008.
16. **Coward RM**, Smith AM, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. Impact of obesity and adiposity on outcomes of patients undergoing radical cystectomy for bladder cancer. Society of Urologic Oncology, Bethesda, MD. Dec 5, 2008.
17. **Coward RM**, Smith AM, Pearson MD, Kurpad R, Kim W, Nielsen M, Wallen EM, Pruthi RS. A phase II study of neoadjuvant erlotinib (Tarceva) in patients with muscle-invasive bladder cancer undergoing radical cystectomy: Preliminary results. Society of Urologic Oncology, Bethesda, MD. Dec 5, 2008.
18. Smith AM, **Coward RM**, Kelly D, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. An analysis of the impact of race on bladder cancer treatment and mortality. Society of Urologic Oncology, Bethesda, MD. Dec 5, 2008
19. Doak H, Smith AM, **Coward RM**, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. Outcomes and implications of follow-up biopsies of men on active surveillance for low-risk prostate cancer. Society of Urologic Oncology, Bethesda, MD. Dec 4, 2008.
20. Smith AM, **Coward RM**, Kelly D, Nielsen M, Wallen EM, Pruthi RS. Evaluation of the incidence of a second urologic malignancy (bladder cancer and kidney cancer) in men with a diagnosis of prostate cancer. Society of Urologic Oncology, Bethesda, MD. Dec 4, 2008.
21. Smith AM, **Coward RM**, Kurpad R, Nielsen M, Wallen EM, Pruthi RS. The impact of a multidisciplinary approach in the management of urologic malignancies: Does it influence diagnostic and treatment decisions? Society of Urologic Oncology, Bethesda, MD. Dec 4, 2008.
22. **Coward RM**, Miller J, Carson CC, Lavelle J, Marson L. The effect of botulinum toxin A on rat vaginal tissue. 8th Annual Women's Health Research Day, Chapel Hill, NC. April 4, 2007.
23. **Coward RM**, Simhan J, Pruthi RS, Carson CC. Prostate cancer in hypogonadal men on testosterone replacement therapy. Southeastern Section of the AUA 2007, Orlando, FL. March 9, 2007.

Non-Peer-Reviewed Publications:

1. **Coward RM** and Carson CC. Testosterone replacement after prostate cancer. *AUANews*. November, 2009.
2. **Coward RM** and Carson CC. Beyond the Abstract - Tadalafil in the treatment of erectile dysfunction. *Urotoday.com*. May 28, 2009.
3. **Coward RM** and Carson CC. Beyond the Abstract - Prostate-specific antigen changes and prostate cancer in hypogonadal men treated with testosterone replacement therapy. *Urotoday.com*. March 16, 2009.

Invited Oral Presentations:

International

1. Novel Approaches to the Evaluation and Management of Azoospermia. Japanese Urological Association Annual Meeting 2019. Nagoya, Japan. April 19, 2019.
2. Evaluación Contemporáneo de Infertilidad Masculina y Una Discusión del Impacto del Virus del Zika. Hospital Regional de Loreto, Iquitos, Perú. September 8, 2017.
3. Evaluación Contemporáneo de Infertilidad Masculina y Una Discusión del Impacto del Virus del Zika. Universidad Nacional Autónoma De Nicaragua (UNAN), León, Nicaragua. September 5, 2017.
4. A discussion on sexual development and function for individuals affected by CHARGE syndrome. 13th International CHARGE Syndrome Conference. Orlando, FL. July 28, 2017.

National

1. Men's Health: Erectile Dysfunction or Low T? Things are Looking Up. Taking Control of Your Diabetes. Raleigh, NC. May 11, 2019.
2. Erectile Dysfunction after Radical Pelvic Surgery. American College of Surgeons. Boston, MA. October 22, 2018.
3. When to Consider Donor Sperm in the Setting of Severe Male Factor. 73rd American Society for Reproductive Medicine Scientific Congress & Expo. San Antonio, TX. October 31, 2017.
4. Step-by-Step Guide to Placement of a Testicular Prosthesis. Society of Urologic Prosthetic Surgeons. San Antonio, TX. October 27, 2017.
5. The Contemporary Evaluation and Treatment of Male Factor Infertility. Advances in Andrology: The Basic Science Behind Fertility. National Institute of Environmental Health Sciences – National Institutes of Health. Durham, NC. October 13, 2017.
6. Physician-Level Barriers in Providing Reproductive Care. Society for the Study of Male Reproduction at the 112th Annual Meeting of the American Urological Association. Boston, MA. May 14, 2017.
7. Fertility Preservation in Children with Cancer. 81st Annual Meeting of the Southeastern Section of the AUA. Austin, Texas. March 24, 2017.
8. History of Male Contraception & Vasectomy. Society for the Study of Male Reproduction. San Diego, CA. May 8, 2016.
9. Contemporary Evaluation and Treatment of Male Factor Infertility. Council of Physicians and Scientists. Austin, TX. May 5, 2016.
10. Fertility preservation options for young men before or after cancer treatment. Special Symposium, Leukemia and Lymphoma Society. Raleigh, NC. November 15, 2014.
11. Racial Differences in Hypogonadal Improvement and PSA Levels in Hypogonadal Men Treated with Testosterone Replacement Therapy. Texas Association of Genitourinary Surgeons Annual Meeting. April 17, 2010.

Regional

1. Novel Approaches to the Evaluation and Management of Azoospermia. 16th Annual Floyd A. Fried Advances in Urology Symposium. June 23, 2018.
2. Fertility Preservation in Male Oncology Patients. Oncology Core Nurse Training. UNC Cancer Hospital. Chapel Hill, NC. Recurring quarterly, 2015 – present.
3. Challenging Cases in Hypogonadism. 14th Annual Floyd A. Fried Advances in Urology Conference, Chapel Hill, NC. June 24, 2016.
4. Fertility preservation for young men with cancer. 13th Annual Floyd A. Fried Advances in Urology Conference, Chapel Hill, NC. June 20, 2015.
5. Fertility Preservation in Male Oncology Patients. UNC Cancer Network Telehealth Lecture Series. March 25, 2015.
6. The Male Fertility Office Evaluation: A 2014 Update. 12th Annual Floyd A. Fried Advances in Urology Conference, Chapel Hill, NC. June 20, 2014.
7. How would you manage this case of Bilateral Staghorn Calculi? Carolinas Medical Center Visiting Professor Symposium. June 3, 2011.
8. Evaluation and Management of Urethral Trauma. Carolinas Medical Center, Urology Grand Rounds. February 18, 2011.
9. Bilateral Renal Cysts with Renal Mass. Carolinas Medical Center Visiting Professor Symposium. June 18, 2010.
10. A Bump and a Grind: A Case of a Malfunctioning Inflatable Penile Prosthesis. 7th Annual Landes Symposium: Advances in Urology. Chapel Hill, NC. June 19, 2009.

TEACHING RECORD

Course Director:

1. Contemporary Issues and Controversies in Men's Health (Course PS132). American College of Surgeons. Boston, MA. October 22, 2018.
2. 14th Annual Floyd A. Fried Advances in Urology Conference. University of North Carolina Continuing Medical Education Programs, June 24-25, 2016.

Lecture / Classroom Instruction:

1. Fertility Preservation in Male Oncology Patients. North Carolina Cancer Hospital, Oncology Nurse Orientation/Training. Three times annually, 2015 to present.
2. REI Fellows' Lecture: Interpretation of the Semen Analysis. December 12, 2018.
3. Andrology I: Male Reproduction, Andrology II: Erectile Dysfunction, Male Infertility. UNC School of Medicine MSII Reproduction Block. November 21, 2018.

4. Andrology I: Male Reproduction, Andrology II: Erectile Dysfunction, Male Infertility. UNC School of Medicine MSII Reproduction Block. September 15, 2017.
5. REI Fellows' Lecture: Contemporary Evaluation and Treatment of Male Factor Infertility. February 24, 2017.
6. Andrology I: Male Reproduction, Andrology II: Erectile Dysfunction, Male Infertility. UNC School of Medicine MSII Reproduction Block. September 16, 2016.
7. Andrology I: Male Reproduction, Andrology II: Erectile Dysfunction, Male Infertility. UNC School of Medicine MSII Reproduction Block. September 18, 2015.
8. Erectile Dysfunction. UNC School of Medicine MSII Renal/Urinary Block. December 6, 2013.
9. Director of Weekly Urology Resident / Student Didactic Lecture Series, UNC Urology. 2011 - 2012

Institutional Grand Rounds:

1. Opioid-Induced Hypogonadism: Yet Another Complication of the Opioid Epidemic. UNC Department of Urology Grand Rounds. August 15, 2018.
2. Cystic Fibrosis and the Curious Intersection of Male Reproduction, Genetics, and Pulmonology. UNC Division of Pediatric Pulmonology Grand Rounds. January 22, 2018.
3. Fertility Preservation in Male Pediatric Patients with Cancer. UNC Department of Pediatrics Grand Rounds. June 1, 2017.
4. Contemporary Management of Male Hypogonadotropic Hypogonadism: Preserving Fertility in the Testosterone Era. UNC Pediatric Endocrinology Grand Rounds. April 20, 2017.
5. Contemporary Evaluation and Treatment of Male Factor Infertility. Alliance Urology Grand Rounds. Greensboro, NC. February 22, 2017.
6. The Male Fertility Evaluation: "Nuts and Bolts" For the Reproductive Endocrinologist. UNC Fertility Grand Rounds. April 6, 2016.
7. Testosterone: Nuts and Bolts. UNC Department of Urology, Grand Rounds. December 9, 2015.
8. Fertility Preservation for Male Pediatric Oncology Patients. UNC Department of Pediatrics, Division of Hematology Oncology, Grand Rounds. November 5, 2015.
9. Fertility Preservation for Male Oncology Patients. UNC Department of Urology, Grand Rounds. December 10, 2014.
10. Preserving Fertility in the Hypogonadal Patient. UNC Endocrinology Grand Rounds. January 16, 2014.
11. Urologic Problems in College-Aged Men. UNC Student Health Grand Rounds. January 18, 2012.
12. Complete Transection of a Supernumerary Kidney Presenting as a Large Retroperitoneal Hematoma after Blunt Force Trauma in a Child. UNC and Duke Pediatric Urology Grand Rounds. October 23, 2008.
13. Hypogonadism, Metabolic Syndrome, and a New Role for Testosterone Replacement. UNC Urology Grand Rounds. July 20, 2006.

Research Mentorship:

- Medical Students: Saneal Rajanahally, 2012; Niraj Badhiwala, 2012; Douglas Mata, 2013; Keith Ballantine, 2014; Taylor Kohn, 2017
- Resident Physicians: E. Will Kirby, 2013; Josip Vukina, 2013; J. Abram McBride, 2014; Matthew Lyons, 2014; E. Sophie Spencer, 2015; Troy Sukhu, 2015; Jason Lomboy, 2016; Matthew Macey 2017; Gopal Narang, 2017; Solomon Hayon, 2018
- Fellow Physicians: Ryan C. Owen, 2017

Attending on Clinical Service:

- Fellowship Faculty, Reproductive Endocrinology and Infertility 2014 - present
Department of Obstetrics and Gynecology, UNC School of Medicine, Chapel Hill, NC
- Assistant Professor of Urology 2013 - present
Department of Urology, UNC School of Medicine, Chapel Hill, NC
- Clinical Instructor, Male Reproductive Medicine and Surgery 2012 - 2013
Scott Department of Urology, Baylor College of Medicine, Houston, TX

GRANTS

Active

1. Caregivers at Carolina Coward (PI) 7/1/2017 – 6/30/2019
The Effect of Zika Virus Infection on Male Fertility
\$80,000
Role: Principal Investigator
5% effort in Year 1, 8% effort in Year 2
2. Carolina for the Kids Ross (PI) 7/1/2017 – 6/30/2018
The North Carolina Children’s Hospital Fertility Preservation Program for Children
\$10,000
Role: Co-Investigator
0% effort
3. U10HD077844 Steiner (PI) 9/24/2013 - 6/30/2018
NIH/NICHD Cooperative Multicenter Reproductive Medicine Network UNC Clinical Site
\$1,157,540 (direct)
Role: Co-Investigator
10% effort

Completed

4. UNC Innovation Pilot Award Coward (PI) 6/01/2014 - 1/31/2016
Building a low cost dedicated urological ultrasound scanner: A proof of feasibility study
\$49,554
Role: Principal Investigator
0% effort
5. UNC Cancer Hospital Endowment Fund Award Coward (PI) 3/25/2014 - 3/24/2015
Development of an Oncofertility Program directed at adolescent males with a new diagnosis of cancer

\$5,000
Role: Principal Investigator
0% effort

PROFESSIONAL SERVICE

Leadership Activities and Committees:

National

- Chair of the Website Committee, Society for Male Reproduction and Urology 2018 – present
- Coding Committee, American Society for Reproductive Medicine 2017 – 2020
- Social Media Sub-Committee of the Young Clinicians Committee
Sexual Medicine Society of North America 2017 – present
- Men’s Health Emerging Leaders Advisory Board 2015 – present
- Movember Foundation: A Survivorship Action Partnership (ASAP USA) 2014 – present

Regional

- Board of Directors for the Family Support Network of the Greater Triangle 2018 – present
- Board of Directors for the Ronald McDonald House of Chapel Hill 2017 – present

Institutional / Departmental

- Course Director, Floyd A. Fried Advances in Urology Symposium 2016
- Academy of Educators, UNC School of Medicine 2015 – present
- Residency Program Evaluation Committee, UNC Urology 2014 – present
- Passing the Torch: Fostering Medical Humanism Through Faculty Role Models 2014 – 2015
- UNC Urology Chief Resident 2011 – 2012
- UNC Pediatric Urology Chief Resident 2010 – 2011
- UNC School of Medicine Charity Golf Classic, Director 2006
- President, UNC Spanish-speakers Assisting Latinos Student Association 2003 – 2005
- UNC International Health Forum, President 2004 – 2005
- Honduran Health Alliance 2004

Ad Hoc Editorial Review Activities:

- JAMA 2018 - present
- Fertility and Sterility 2016 - present
- Human Reproduction 2015 - present
- Journal of Sexual Medicine 2015 - present
- Asian Journal of Urology 2014 - present
- Journal of Urology 2014 - present
- Sexual Medicine Reviews 2013 - present
- Journal of Andrology 2011 - present
- Urology 2011 - present

Professional Society Memberships:

- Society of Urologic Prosthetic Surgeons 2015 - present
- Southeastern Section of the American Urological Association 2014 - present
- Society for the Study of Male Reproduction 2012 - present
- Society for Male Reproduction and Urology 2012 - present
- American Society for Reproductive Medicine 2012 - present
- International Society of Sexual Medicine 2009 - present
- Sexual Medicine Society of North America 2009 - present
- American Urologic Association 2009 - present

RESEARCH STATEMENT

My area of expertise is in the urologic subspecialty of Male Reproductive Medicine and Surgery. Early in my career, I was exposed to opportunities to conduct clinical research as well as teaching opportunities, all of which catapulted my interest toward an academic and research career. The men's health, sexual dysfunction, and prosthetic urology training and mentorship I received under Dr. Culley Carson contributed the initial groundwork for my career interests. After residency, I pursued subspecialty training at the Baylor College of Medicine in Male Reproductive Medicine and Surgery with Dr. Larry Lipshultz, a world-renowned infertility specialist and microsurgeon. I am continually grateful for finding this career, as my patients comprise a unique subset of urology patients who are genuinely appreciative for their care, which is almost always focused on family, happiness, and quality of life.

My contributions to science broadly include clinical studies on optimization of male factor infertility in the era of assisted reproduction, the further characterization of our understanding of male hypogonadism, the evaluation and treatment of male erectile and ejaculatory disorders, the assessment of outcomes of vasectomy and vasectomy reversal, and urologic technology and imaging. My current research interests primarily involve clinical trials in reproductive medicine, fertility preservation, and the effect of Zika virus on male fertility. Upon starting my independent academic career in 2013, I partnered with Dr. Anne Steiner at UNC Fertility to be a study site for the Reproductive Medicine Network (RMN; U10HD077844). As an RMN co-investigator (10% effort from 2013-2018), I co-authored a multi-centered, randomized, controlled trial called the Males, Antioxidants, and Infertility (MOXI) Trial which was based at our institution (Steiner PI; clinicaltrials.gov NCT02421887). MOXI was the first male fertility trial for the RMN since its inception in 1989. In addition to co-authoring the trial, I assisted in all phases of trial implementation including recruitment. The dissemination of the results for MOXI is under ongoing progress, and in the interim I have applied to be a site Principal Investigator in the next phase of the RMN with Dr. Karl Hansen at the University of Oklahoma for the PREtreatment Empiric Medical or Placebo Therapy for idiopathic male infertility (PREEMPT) Trial. In addition to my work at the RMN, we have developed a fertility preservation program at UNC for young, male cancer patients through pilot grant funding, a project that is finally gaining considerable traction. Lastly, another current project which is incredibly exciting is a project funded by the Doris Duke Foundation to study the effect of the Zika virus on the male reproductive tract. Partnered with Dr. Natalie Bowman in the UNC Division of Infectious Diseases and two institutions in Nicaragua and Peru, we have begun collecting data on semen quality and Zika status in order to better characterize the effect of the virus on male fertility.

The goals I have for my research career as an academic physician-scientist are to answer clinically relevant questions which make lasting contributions to my field, ultimately allowing my colleagues and I to provide the best care possible for patients with male factor infertility. My research goals more specifically over the coming years include continuing the important work we are doing at the RMN with new clinical trials in reproductive medicine, further developing our fertility preservation program at UNC, and answering the question as to whether the Zika virus has a lasting detrimental effect on male reproductive potential.

TEACHING STATEMENT

Now with some hindsight well over a decade after starting my own medical education, among the strongest influences for my decision to pursue a career in academic medicine were its teaching and mentorship aspects. Mentoring students and residents requires dedication, patience, and passion. My philosophy is to empower the next generation of doctors with the tools needed to flourish in whatever specialty or career type they choose. I am driven not only to provide the best patient care to my ability, but to inspire medical students and residents in the same way that I was inspired by my mentors that lead me onto my own career path.

I have been fully engaged in didactic as well as hand-on teaching of medical students, resident physicians, and fellow physicians. Additionally, I have mentored learners in both research projects and career decisions. I meet with junior medical students during the urology and reproduction portions of the medical school curriculum and educate through lectures, small group sessions, and individual instruction. Clinical instruction and hands-on learning occur in my clinic and operating room with senior medical students. I have provided career mentorship and research guidance for numerous medical students interested in a career in urology. With an active role in our current educational program for the urology residency, I feel that one of my most important roles in my position is to train the next generation of leaders in urology. Resident physicians in the UNC Urology residency program accompany me to my clinic and operating room. Some of my proudest achievements in my teaching career have been the successful pursuit of fellowship training toward in a career in male reproductive medicine for four former resident physicians. To combine our teaching mission with the charges to provide the most comprehensive men's healthcare and to become a national leader in men's health, I started the UNC Men's Health and Andrology fellowship at UNC in 2017. We have currently only had one subspecialty physician complete our training program, but our fellowship program has quickly become known as a premier destination to train in the field of Male Reproductive Medicine and Surgery.

For my own continued development as an educator, I completed a year-long junior faculty development course called Passing the Torch: Fostering Medical Humanism Through Faculty Role Models, as well as having been active in the Academy of Educators at UNC. I am passionate and committed to the educational mission of our medical school, and I am dedicated to my own ongoing improvement as an educator in this sector of academic medicine that is of paramount importance in general medical education. The teaching mission ultimately comes back to providing exceptional healthcare to the patients of North Carolina. I strive to be an outstanding medical educator, which in many ways directly aligns with my goal of providing outstanding health care.