

# Curriculum Vitae

Last Updated: 01/07/2019

## **PERSONAL DATA**

Name: James M. Hotaling

Citizenship: United States

## **EDUCATION**

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
1998 - 2002	B.A.	Dartmouth College (Biophysical Chemistry & History. Magna Cum Laude) Hanover, NH
2002 - 2006	M.D.	Duke University School of Medicine (Medicine) Durham, NC
2006 - 2007	Intern	University of Washington School of Medicine (Surgery) Seattle, Washington
2008 - 2012	Resident	University of Washington School of Medicine (Urology) Seattle, Washington
2009 - 2010	M.S.	University of Washington School of Public Health (Epidemiology) Seattle, WA
2012 - 2013	Fellow	University of Illinois at Chicago School of Medicine, Department of Urology (Andrology) Chicago, IL

## **BOARD CERTIFICATIONS**

02/28/2016 - Present American Board of Urology, Certified

## **CURRENT LICENSES/CERTIFICATIONS**

2011 - Present DEA Certificate  
2014 - Present European Committee of Sexual Medicine: Certification  
Description: Certified Specialist

## **ACADEMIC HISTORY**

### **Obstetrics/Gynecology (General OB/GYN), 05/17/2016 - Present**

05/17/2016 Hire, Adjunct Track, Adjunct Assistant Professor

### **Surgery (Urology), 09/15/2013 - Present**

09/15/2013 Hire, Tenure Track - Clinician Scholar, Assistant Professor

## **PROFESSIONAL EXPERIENCE**

### **Full-Time Positions**

2013 - Present Assistant Professor, University of Utah, Salt Lake City, UT

### **Editorial Experience**

2012 - Present Interactive Associate Editor for *Fertility & Sterility*, online forum  
2014 - Present Speciality Editor for *International Journal of Impotence Research*  
2014 - Present Section Editor, Ytube Videos for *Urology Times*

2016 - Present Section Editor, Male Infertility, *Urology Times*  
 2016 - Present Specialty Editor for *Fertility & Sterility*  
 2017 - Present Section Editor, Tech Talk With Steve & Jim, *Urology Times*  
 2017 - Present Associate editor for Journal of Assisted Reproduction and Genetics

### **Reviewer Experience**

Ad Hoc Reviewer for *Andrology*  
 Ad Hoc Reviewer for *Fertility & Sterility*  
 Ad Hoc Reviewer for *International Journal of Impotence Research*  
 Ad Hoc Reviewer for *Journal of Urology*  
 Ad Hoc Reviewer for *PLOS One Medicine*  
 Ad Hoc Reviewer for *Systems Biology in Reproductive Medicine*

### **SCHOLASTIC HONORS**

1998 - 1999 Citations in General Chemistry and Molecular Biology, obtained the highest grade in the class for a given course.  
 2000 Richter Research Grant of \$2100 to pursue research in chemistry. Dartmouth College.  
 2002 Honors in Chemistry graduate at Dartmouth College.  
 2002 Presidential Scholar Research Assistant. Dartmouth College.  
 2004 Duke Department of Orthopedics and General Surgery \$10,000 scholarship. Duke University School of Medicine.  
 2004 Received Gold Star for excellent patient care. Duke University School of Medicine.  
 2008 American Urologic Association Western Section Resident Scholarship. University of Washington Department of Urology.  
 2009 International Volunteers in Urology Scholarship: \$2500: to support travel to Uganda to work with Dr. Stephen Watya. University of Washington Department of Urology.  
 2009 Hirschler Prize for Innovative Urologic Research: \$2000 for: "Development of a prospective database to standardize and track trauma outcomes". University of Washington Department of Urology.  
 2010 Hirschler Prize for Innovative Urologic Research: \$4000 for: "Sperm Cryopreservation Oncological Databank". University of Washington Department of Urology.  
 2010 Summer Institute in Statistical Genetics Training Scholarship: \$2400. University of Washington Department of Urology.  
 2010 AUA Annual Meeting Abstract selected for Meet the Press: "Long-term use of supplemental vitamin C, vitamin D and vitamin E does not reduce the risk of urothelial cell carcinoma of the bladder in the VITamins and Lifestyle study." University of Washington Department of Urology.  
 2010 AUA Poster Selected as Best Poster in Session: "Isolated Teratospermia does not appear to predict clinical pregnancy following in vitro fertilization or in vitro fertilization with intracytoplasmic sperm injection: A systematic review and meta-analysis". University of Washington Department of Urology.  
 2010 Northwest Institute of Genetic Medicine (NWIGM) Resource Grant for: "A Study of the Genetic Predictors of Erectile Dysfunction". University of Washington Department of Urology.

- 2010 Warren Chapman Resident Research Award. University of Washington Department of Urology.
- 2011 SMRU Travelling Scholar \$1000.
- 2011 Hirschler Prize for Innovative Urologic Research: \$4000 for: "UWPNS360".
- 2013 AUA Poster selected as Best Poster In Session: "Validity and Reliability of a Smartphone Application of the Assessment of Penile Deformity in Peyronie's Disease."
- 2013 Award of \$5,000 from University of Illinois Enterprise Works for Sperm Dx Inc.
- 2013 Fertility & Sterility Reviewer of the Year Award
- 2014 Fertility and Sterility Reviewer of the Year Award
- 2014 AUA Poster selected as Best Poster in Session: "The Male Orgasm"
- 2015 StreamDx awarded 2nd place 2015 Utah Life Sciences Company of the Year, Utah Innovation Awards, Salt Lake City, Utah
- 2015 Trainee Merit Award, American Association of Andrology, 40th Annual Meeting
- 2015 Fertility and Sterility Reviewer of the Year Award
- 2015 The Effect of Spermatotoxic Medication Use on Semen Parameters of Subfertile Men - Best Poster at Western Sections American Urological Association
- 2016 Prize Abstract: Childhood Cancer Risk in the Siblings and Cousins of Men with Poor Semen Quality, 64th Annual Meeting of the Society for Pediatric Urology. San Diego, CA, May 6-8.
- 2017 2nd Place Prize for Best Poster "Population based semen analysis results and fertility among men with inflammatory bowel disease: results from the "SHARE Study" at the American College of Surgeons, Utah Chapter Meeting, Salt Lake City, May 11.
- 2017 Subfertility Health Assisted Reproduction and Environment (SHARE): Trans-generational impacts of male infertility. Early Career Investigator Showcase Selected for Oral Presentation. American Urologic Association Annual Meeting, Boston, May 12-16.

## **ADMINISTRATIVE EXPERIENCE**

### **Professional Organization & Scientific Activities**

- 2013 Committee Member, International Consultation on Urological Diseases, American Society for Men's Health, International Consultation on Men's Health and Infertility, Committee on Epidemiology and Aging
- 2013 Contributing Member, International Consultation on Urological Diseases, American Society for Men's Health, International Consultation of Men's Health and Infertility, Committee on Infertility Treatment
- 2015 - 2021 Member, American Society for Reproductive Medicine, Video Committee
- 2015 - Present Committee Member, Societe Internationale d' Urologie, Content Development for SIU Academy - Infertility/Men's Health, sub-committee of Multimedia Learning Committee
- 2015 Co-Moderator, American Society for Reproductive Medicine, Male reproduction and urology: Traveling Scholars, Scientific Congress, Baltimore, MA, Oct 17-21
- 2015 Roundtable Moderator, American Society for Reproductive Medicine, Male infertility and comorbidities: Improving male health through proper evaluation. Scientific Congress, Baltimore, MA, Oct 17-21
- 2016 - 2019 Member, American Society for Reproductive Medicine, Research Committee

- 2016 Task Force Member, American Society for Reproductive Medicine, SMRU Task Force on the role of sexual dysfunction in the male during infertility treatment.
- 2016 Co-Moderator, American Society for Reproductive Medicine, Oral Abstracts, Male Reproduction and Urology: Clinical 2, at the 72nd American Society for Reproductive Medicine Scientific Congress & Expo, Oct 15-19, Salt Lake City, UT
- 2016 Abstract Reviewer, American Society for Reproductive Medicine, 72nd American Society for Reproductive Medicine 2016 Scientific Congress & Expo, Oct. 15-19, Salt Lake City, UT.
- 2016 Roundtable Moderator, American Society for Reproductive Medicine, Sexual Dysfunction and Male Infertility. 72nd American Society for Reproductive Medicine Scientific Congress & Expo, Oct 15-19, Salt Lake City, UT
- 2016 Co-Moderator, American Society for Reproductive Medicine, Video Session 2, 72nd American Society for Reproductive Medicine Scientific Congress & Expo, October 17, Salt Lake City, UT.
- 2016 Invited Moderator, American Urological Association - Western Section, Sexual Medicine, 92nd Annual Meeting, Kauai, HI, Oct. 23-28.
- 2017 - 2019 Officer at Large, Society for the Study of Male Reproduction, (SSMR) American Urological Association 2017-2019
- 2017 - Present Panel Member, American Urological Association, National Urology Research Agenda 2017 for male infertility, member of agenda panel for American Urological Association
- 2017 Roundtable Moderator, American Society for Reproductive Medicine, Update on culturing human spermatogonial stem cells for oncofertility. Scientific Congress, San Antonio, TX, Oct 28-Nov 1.
- 2017 Abstract Reviewer, American Society for Reproductive Medicine, Scientific Congress, San Antonio, TX, Oct 28-Nov 1.
- 2018 - 2021 Executive Board Member, American Society of Andrology, 2018-2021
- 2018 - 2021 Program Chair, American Urological Association - Western Section, Program Chair for Sexual Medicine/Andrology Content
- 2018 Conference Abstract Reviewer, American Society for Reproductive Medicine, 74th ASRM Scientific Congress & Expo, Denver, CO Oct. 6-10.
- 2018 Session Co-Moderator, American Society for Reproductive Medicine, Video Session 2, 74th ASRM Scientific Congress & Expo, Denver, CO, Oct 6-10

#### **Grant Review Committee/Study Section**

- 2016 Pregnancy Risk Assessment Monitoring ad hoc study section member, Center for Disease Control
- 2016 - 2018 ASRM Research Grant Reviewer

#### **PROFESSIONAL COMMUNITY ACTIVITIES**

- 2013 Interviewee, Clear Channel Radio, on hypogonadism
- 2014 Interviewee, KTVX TV, Good Things Utah appearance on Men's Health
- 2014 Interviewee, KUED, Male Infertility
- 2015 Interviewee, KUTV TV, Men's Health
- 2016 Interviewee, KUTV TV, Vas Madness
- 2017 Interviewee, Brides.com, Male Factor Infertility: What You Need to Know

2018 Interviewee, Furthermore from Equinox, Shortsleeve,C, Furthermore.equinox.com; Don't Overdo Ibuprofen New research shows the anti-inflammatory might negatively affect male fertility.

## **UNIVERSITY COMMUNITY ACTIVITIES**

### **University Level**

2013 Presenter, Utah Center for Reproductive Medicine, Testicular Sperm Extraction  
2014 - Present Member, Entrepreneurial Faculty Scholars  
2014 - Present Presenter & Member, Utah Center for Reproductive Medicine, Pathways to Pregnancy  
2014 Presenter, Utah Center for Reproductive Medicine, Fresh Vs. Frozen Sperm for IVF, Nov. 21

### **Health Sciences Level**

2014 - 2016 Co-Founder, Health Sciences Center, Men's Health Center  
2014 - Present Co-Medical Director, Fertility Integrated Practice Unit  
2016 - Present Member, Health Sciences Center, Men's Health Shared Governance Board

### **University Hospitals & Clinics**

2015 - 2016 Member, University of Utah Hospitals and Clinics, EPIC Urology Division update for SmartForms

### **Department Level**

2017 - Present Co-Director/Director, Surgery, Population Data Research Core

### **Programs, Centers & Institutes**

2015 - Present Member, Huntsman Cancer Institute, Genitourinary Disease Orientation Team

## **CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Diabetes Association  
American Society for Reproductive Medicine  
American Society of Andrology  
American Urological Association  
European Association for the Study of Diabetes  
European Society for Sexual Medicine  
Northwest Urological Society  
Society for Male Reproduction and Urology  
Society for the Study of Male Reproduction  
World Professional Association for Transgender Health

## **FUNDING**

### **Active Grants**

09/10/14 - 05/30/19 Genomics of spermatogenic impairment. (1R01HD78641)  
Principal Investigator: Kenneth I. Aston  
Direct Costs: \$2,354,426 Total Costs: \$3,508,095  
National Institute of Child Health and Human Development  
Role: Co-Investigator

02/24/15 - 01/31/18 Transgenerational effects of smoking-induced changes to Sperm DNA.  
(1R01HD082062)  
Direct Costs: \$415,000 Total Costs: \$618,350  
National Institute of Child Health and Human Development  
Role: Co-Investigator

07/01/15 - 06/30/18 Impact of diet, exercise and lifestyle on fertility: The IDEAL fertility study.  
(N275201500001C)  
Direct Costs: \$2,039,544 Total Costs: \$3,038,921  
National Institute of Child Health and Human Development  
Role: Co-Investigator

07/01/16 - 06/30/19 Susceptibility Genes for Erectile Dysfunction ED eMERGE (1R01DK104764)  
Principal Investigator: James M. Hotaling  
Direct Costs: \$450,000 Total Costs: \$670,500  
National Institute of Diabetes and Digestive and Kidney Diseases  
Role: Co-Principal Investigator

04/03/17 - 03/31/19 Stream Dx: accurate and efficient, point-of-care uroflometry for improved  
diagnosis, monitoring, and post-treatment evaluation of LUTS  
Principal Investigator: James M. Hotaling  
Direct Costs: \$1,111,171 Total Costs: \$1,493,493  
SBIR NIKKDK  
Role: Principal Investigator

12/01/17 - 11/30/19 Sperm Epigenetic Profiling & Embryonic Competence  
Direct Costs: \$450,000 Total Costs: \$450,000  
Foundation for Embryonic Competence  
Role: Principal- Investigator

04/20/18 - 04/20/20 Sperm sample preparation for point of care applications  
Direct Costs: \$1,225,000 Total Costs: \$1,225,000  
National Institute of Child Health and Human Development  
Role: co-Investigator

**Pending Grants**

04/01/18 - 03/31/19 MiOXSYS  
Principal Investigator: James M. Hotaling  
AYTU BioScience, Inc.  
Role: Principal Investigator

02/01/19 - 07/31/21 Sbir Nanonc Sept2018  
Principal Investigator: James M. Hotaling  
Nanonc Inc  
Role: Principal Investigator

07/01/19 - 06/30/24 Chime Collabr01 Hotaling  
Principal Investigator: James M. Hotaling  
National Institutes of Health  
Role: Principal Investigator

**Past Grants**

01/01/09 - 12/31/09 NIH T-32 Training Grant, University of Washington  
Direct Costs: \$55,000 Total Costs: \$55,000  
National Institutes of Health  
Role: Recipient

07/01/09 - 07/01/10 Genome wide association search identifies potential loci for risk of erectile dysfunction in type 1 Diabetes using the epidemiology of Diabetes interventions and complications study cohort.  
National Institute of Diabetes and Digestive and Kidney Diseases  
Role: Investigator

01/01/10 - 12/31/10 Institute for Translational Health Research (ITHS) Grant: "Development and Validation of a Rapid, Sutureless Circumcision Device to facilitate Dissemination of Safe Adult Male Circumcision to reduce HIV Infection Rates in Africa."  
Principal Investigator: James M. Hotaling  
Direct Costs: \$10,000 Total Costs: \$10,000  
University of Washington  
Role: Co-Principal Investigator

10/01/10 - 10/01/11 Novel single nucleotide polymorphisms may predict ED: Data from the Group Health Adult Changes in Thought Study  
Northwest Institute of Genetic Medicine  
Role: Co Principal Investigator

04/01/11 - 04/01/12 Development and validation of a rapid, sutureless circumcision device to facilitate dissemination of safe adult male circumcision to reduce HIV infection rates in Africa  
University of Washington Institute of Translational Health Sciences  
Role: Co Principal Investigator

08/01/13 - 07/31/15 URO-EDICII: Risk and Progression of Urologic Complications in Type 1 - Diabetes  
Principal Investigator(s): Aruaa Sarma; Hunter Wessells  
Direct Costs: \$37,813 Total Costs: \$56,340  
University of Washington  
Role: Consultant

09/01/14 - 01/01/15 StreamDX  
Principal Investigator: James M. Hotaling  
Direct Costs: \$10,000 Total Costs: \$10,000  
University of Utah Engine Funding Program  
Role: Principal Investigator

12/01/14 - 12/01/15 StreamDX  
Principal Investigator: James M. Hotaling  
Direct Costs: \$50,000 Total Costs: \$50,000  
University of Utah Technology Commercialization Office  
Role: Principal Investigator

01/01/15 - 12/31/15 Development of a novel microfluidics device to optimize sperm retrieval and storage from micro dissection testicular sperm extraction mTESE  
Principal Investigator: James M. Hotaling  
Direct Costs: \$35,000 Total Costs: \$35,000  
University of Utah Research Foundation Seed Grant  
Role: Principal Investigator

01/01/15 - 12/31/15 Testosterone Concentrations and Cardiovascular Disease in Men with Type 1 Diabetes. DiaComp Pilot & Feasibility Project  
Principal Investigator: Aruna Sarma  
Georgia Regents University DiaComp Coordinating and Bioinformatics Unit  
Role: Consultant

04/30/15 - 04/30/16 StreamDx  
Principal Investigator: James M. Hotaling  
Direct Costs: \$6,500 Total Costs: \$6,500  
University of Utah Entrepreneurship Club  
Role: Principal Investigator

05/12/15 - 12/31/15 Raman Spectrometer for Novel Microfluidics Applications  
Principal Investigator: James M. Hotaling  
Direct Costs: \$35,000 Total Costs: \$35,000  
University of Utah Research Instrumentation Fund  
Role: Principal Investigator

07/01/16 - 06/30/17 Development of a Novel Microfluidics Device to Optimize Sperm Retrieval and Storage from Microsurgical Testicular Sperm Extraction. NANONC Inc. STTR Phase I (NSF 1549659)  
Principal Investigator: James M. Hotaling  
Direct Costs: \$225,000 Total Costs: \$225,000  
National Science Foundation  
Role: Principal Investigator

## **TEACHING RESPONSIBILITIES/ASSIGNMENTS**

### **Course Lectures**

2014 Instructor, MS2: Lecture "Men's Health 101", University of Utah  
2014 Instructor, MS2: Lecture "The GU History and Physical", University of Utah  
2015 Instructor, MS2: Lecture "Men's Health 101", University of Utah  
2015 Instructor, MS2: Lecture "The GU History and Physical", University of Utah

### **Clinical Teaching**

2015 - Present Developed Male Infertility Clinical Program for Reproductive Endocrinology Fellows  
2015 - Present Co-director of Reconstructive Urology Fellowship

### **Small Group Teaching**

2014 - 2016 Microsurgical Course, Urology, University of Utah School of Medicine, Residents

### **Trainee Supervision**

Fellow

2013 - 2014	Supervisor, Kristin Murphy, University of Utah. Male infertility/genetics
2013 - 2015	Supervisor, Monis Bilal Shamsi, University of Utah. Male infertility/genetics
2013 - 2014	Supervisor, Jeff Redshaw, University of Utah. Urology Research Fellow
2014 - Present	Supervisor, Raheel Samuel, University of Utah
2014 - 2015	Supervisor, Darshan Patel, University of Utah
2015 - 2016	Supervisor, Jason Chandrapal, University of Utah
2016 - 2017	Supervisor, James Craig, University of Utah
2016 - Present	Supervisor, Soren Keiheui, University of Utah

PhD/Doctorate

2014 - 2017	Supervisor, Jiyoung Son, University of Utah. Mechanical Engineering
2014 - Present	Supervisor, Jingtuo Guo, University of Utah

MD, PhD

2013 - 2014	Supervisor, John Gannon, University of Utah. Urology Resident
2014 - Present	Supervisor, Jeff Redshaw, University of Utah
2015 - Present	Supervisor, Darshan Patel, University of Utah
2015 - Present	Supervisor, Ross Anderson, University of Utah
2015 - 2017	Supervisor, Vera Trofemenko, University of Utah

**Educational Lectures**

Didactic Lectures

2013	Pathways to Pregnancy with Dr. Ahmad Hammoud
2014	Microscopy skills with Urology Residents
2014	Pathways to Pregnancy with Dr. Andrew Moore
2014	Chemotherapy and Spermatogenesis, presented to HCI Oncologists
2014	Erectile dysfunction and male infertility, 2nd year med students, University of Utah
2015	Erectile dysfunction and male infertility, 2nd year med students, University of Utah

**Continuing Education**

CE Courses Developed

2013 - Present	Surgical Management for Male Infertility. American Urological Association Core Curriculum.
2016	Trofimenko V, Jenkins TG, Carrell DT, Hotaling JM. Genetics in Urology: A Urologists Guide. American Urological Association Update Series, Vol 35.
2017	Developing A Men's Health Center Post Graduate Course, American Urological Association, May 12, Boston.

CE Courses Taught

2016	Value-based Care of the Infertile Male, 49th Annual Pre-Congress Program, 72nd American Society for Reproductive Medicine Scientific Congress & Expo, October 15-19, Salt Lake City, UT
2017	Developing A Men's Health Center Post Graduate Course, AUA May 12, 2017 Boston.

## **PEER-REVIEWED JOURNAL ARTICLES**

1. **Hotaling J**, Mulhall JP (1999). Chronology of venous leak development following radical prostatectomy. *J Urol*, 16(4), 1055A.
2. Mulhall JP, Slovick R, **Hotaling J**, Aviv N, Valenzuela R, Waters WB, Flanigan RC (2002). Erectile dysfunction after radical prostatectomy: hemodynamic profiles and their correlation with the recovery of erectile function. *J Urol*, 167(3), 1371-5.
3. Moul JW, Sun L, **Hotaling JM**, Fitzsimons NJ, Polascik TJ, Robertson CN, Dahm P, Anscher MS, Mouraviev V, Pappas PA, Albala DM (2007). Age adjusted prostate specific antigen and prostate specific antigen velocity cut points in prostate cancer screening. *J Urol*, 177(2), 499-503; discussion 503-4.
4. Sun L, Moul JW, **Hotaling JM**, Rampersaud E, Dahm P, Robertson C, Fitzsimons N, Albala D, Polascik TJ (2007). Prostate-specific antigen (PSA) and PSA velocity for prostate cancer detection in men aged <50 years. *BJU Int*, 99(4), 753-7.
5. Freedland SJ, **Hotaling JM**, Fitzsimons NJ, Presti JC Jr, Kane CJ, Terris MK, Aronson WJ, Amling CL (2008). PSA in the new millennium: a powerful predictor of prostate cancer prognosis and radical prostatectomy outcomes--results from the SEARCH database. *Eur Urol*, 53(4), 758-64; discussion 765-6.
6. Wright JL, **Hotaling J**, Porter MP (2009). Predictors of Upper Tract Urothelial Cell Carcinoma after Primary Bladder Cancer: A Population Based Analysis. *J Urol*, 181(3), 1035-1039.
7. **Hotaling JM**, Shear S, Lendvay TS (2009). 14-gauge angiocatheter: the assist port. *J Laparoendosc Adv Surg Tech A*, 19(5), 699-701.
8. Wright JL, Risk MC, **Hotaling J**, Lin DW (2009). Effect of collecting duct histology on renal cell cancer outcome. *J Urol*, 182(6), 2595-9.
9. **Hotaling JM**, Sorensen MD, Smith TG 3rd, Rivara FP, Wessells H, Voelzke BB (2011). Analysis of diagnostic angiography and angioembolization in the acute management of renal trauma using a national data set. *J Urol*, 185(4), 1316-20.
10. **Hotaling JM**, Wright JL, Pocobelli G, Bhatti P, Porter MP, White E (2011). Long-term use of supplemental vitamins and minerals does not reduce the risk of urothelial cell carcinoma of the bladder in the VITamins And Lifestyle study. *J Urol*, 185(4), 1210-5.
11. **Hotaling JM**, Davenport MT, Eisenberg ML, VanDenEeden SK, Walsh TJ (2012). Men who seek infertility care may not represent the general U.S. population: data from the National Survey of Family Growth. *Urology*, 79(1), 123-7.
12. Vanni AJ, **Hotaling J**, Hamlat C, Jurkovich GJ, Voelzke BB (2012). Do inclusive trauma systems improve outcomes after renal trauma? *J Trauma Acute Care Surg*, 72(2), 385-9.
13. **Hotaling JM**, Wang J, Sorensen MD, Rivara FP, Gore JL, Jurkovich J, McClung CD, Wessells H, Voelzke BB (2012). A national study of trauma level designation and renal trauma outcomes. *J Urol*, 187(2), 536-41.
14. Anawalt BD, **Hotaling JM**, Walsh TJ, Matsumoto AM (2012). Performance of total testosterone measurement to predict free testosterone for the biochemical evaluation of male hypogonadism. *J Urol*, 187(4), 1369-73.
15. Jacobs MA, **Hotaling JM**, Mueller BA, Koyle M, Rivara F, Voelzke BB (2012). Conservative management vs early surgery for high grade pediatric renal trauma--do nephrectomy rates differ? *J Urol*, 187(5), 1817-22.
16. **Hotaling JM**, Walsh TJ, Macleod LC, Heckbert S, Pocobelli G, Wessells H, White E (2012). Erectile dysfunction is not independently associated with cardiovascular death: data from the vitamins and lifestyle (VITAL) study. *J Sex Med*, 9(8), 2104-2110.

17. **Hotaling JM**, Walsh TJ, Macleod LC, Heckbert S, Pocobelli G, Wessells H, White E (2012). Erectile dysfunction is not independently associated with cardiovascular death: data from the vitamins and lifestyle (VITAL) study. *J Sex Med*, 9(8), 2104-10.
18. **Hotaling JM**, Waggott DR, Goldberg J, Jarvik G, Paterson AD, Cleary PA, Lachin J, Sarma A, Wessells H (2012). Pilot genome-wide association search identifies potential loci for risk of erectile dysfunction in type 1 diabetes using the DCCT/EDIC study cohort. *J Urol*, 188(2), 514-20.
19. **Hotaling JM**, Lopushnyan NA, Davenport M, Christensen H, Pagel ER, Muller CH, Walsh TJ (2013). Raw and test-thaw semen parameters after cryopreservation among men with newly diagnosed cancer. *Fertil Steril*, 99(2), 464-9.
20. Walsh TJ, **Hotaling JM**, Lue TF, Smith JF (2013). How curved is too curved? The severity of penile deformity may predict sexual disability among men with Peyronie's disease. *Int J Impot Res*, 25(3), 109-12.
21. Macleod L, **Hotaling J**, Wright JL, Gore JL, Harper J, White E (2013). Risk factors for renal cell carcinoma in the VITAL study. *Urol Oncol*, 190(5), 1657-1661.
22. Hsi RS, **Hotaling JM**, Moore TN, Joyner BD (2013). Publication misrepresentation among urology residency applicants. *World J Urol*, 31(3), 697-702.
23. Hsi RS, **Hotaling JM**, Hartzler AL, Holt SK, Walsh TJ (2013). Validity and reliability of a smartphone application for the assessment of penile deformity in Peyronie's disease. *J Sex Med*, 10(7), 1867-1873.
24. McClung C, **Hotaling J**, Wang J, Wessells H, Voelzke B (2013). Contemporary trends in the immediate surgical management of renal trauma using a national database. *J Trauma Acute Care Surg*, 75(4), 602-606.
25. Shih C, **Hotaling JM**, Wright JL, White E (2013). Long-term NSAID use and incident urothelial cell carcinoma in the VITamins and Lifestyle (VITAL) study. *Urol Oncol*, 31(8), 1689-95.
26. Walsh TJ, **Hotaling JM**, Smith A, Saigal C, Wessells H (2014). Men with diabetes may require more aggressive treatment for erectile dysfunction. *Int J Impot Res*, May-Jun;26(3), 112-115.
27. Welty CJ, Wright JL, **Hotaling JM**, Bhatti P, Porter MP, White E (2014). Persistence of urothelial carcinoma of the bladder risk among former smokers: results from a contemporary, prospective cohort study. *Urol Oncol*, 32(1), 25.e21-5.
28. Holt S, Lopushnyan N, **Hotaling J**, Sarma A, Wessells H (2014). Prevalence of Androgen Deficiency and Predisposing Risk Factors in Men with Type I Diabetes Mellitus: Findings from the DCCT/EDIC. *J Clin Endocrinol Metab*.
29. Kosova G, **Hotaling JM**, Ohlander S, Niederberger C, Prins GS, Ober C (2014). Variants in DPF3 and DSCAML1 are associated with sperm morphology. *J Assist Reprod Genet*, 31(2), 131-7.
30. Ohlander S, **Hotaling J**, Kirshenbaum E, Niederberger C, Eisenberg ML (2014). Impact of fresh versus cryopreserved testicular sperm upon intracytoplasmic sperm injection pregnancy outcomes in men with azoospermia due to spermatogenic dysfunction: a meta-analysis. *Fertil Steril*, 101(2), 344-9.
31. **Hotaling J**, Carrell DT (2014). Clinical genetic testing for male factor infertility: current applications and future directions. *Andrology*, 2(3), 339-50.
32. Simon L, Liu L, Murphy K, Ge S, **Hotaling J**, Aston KI, Emery B, Carrell DT (2014). Comparative analysis of three sperm DNA damage assays and sperm nuclear protein content in couples undergoing assisted reproduction treatment. *Hum Reprod*, 29(5), 904-17.
33. **Hotaling JM**, Leddy LS, Haider MA, Mossanen M, Bailey MR, MacConaghy B, Olson F, Krieger JN (2014). Simple circumcision device: proof of concept for a single-visit, adjustable device to facilitate safe adult male circumcision. *Fertil Steril*, 101(5), 1266-70.

34. Kadlec AO, Ohlander S, **Hotaling J**, Hannick J, Niederberger C, Turk TM (2014). Nonlinear logistic regression model for outcomes after endourologic procedures: a novel predictor. *Urolithiasis*, 42(4), 323-7.
35. Holt SK, Lopushnyan N, **Hotaling J**, Sarma AV, Dunn RL, Cleary PA, Braffett BH, Gatcomb P, Martin C, Herman WH, Wessells H (2014). Prevalence of low testosterone and predisposing risk factors in men with type 1 diabetes mellitus: findings from the DCCT/EDIC. *J Clin Endocrinol Metab*, 99(9), E1655-60.
36. Myers JB, **Hotaling JM**, Brant WO (2014). Editorial comment. *Urology*, 84(4), 933.
37. Grimsby GM, Voelzke B, **Hotaling J**, Sorensen MD, Koyle M, Jacobs MA (2014). Demographics of pediatric renal trauma. *J Urol*, 192(5), 1498-502.
38. Simon L, Murphy K, Shamsi MB, Liu L, Emery B, Aston KI, **Hotaling J**, Carrell DT (2014). Paternal influence of sperm DNA integrity on early embryonic development. *Hum Reprod*, 29(11), 2402-12.
39. **Hotaling JM**, Cohen AL, Shiffrin RM, Busemeyer JR (2015). The Dilution Effect and Information Integration in Perceptual Decision Making. *PLoS One*, 10(9), e0138481.
40. Parthiban S, **Hotaling JM**, Kathrins M, Baftiri AP, Freels S, Niederberger CS (2015). A novel method to determine perineal artery occlusion among male bicyclists. *PeerJ*, 3, e1477.
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### **BOOK CHAPTERS**

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## **OTHER (Commentary/Letters/Editorials/Case Reports/Video/Film)**

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46. Teigs AW, Landis J, Garrido N, Scott R, **Hotaling JM** (2018). *Total Motile Sperm Count Trend Over Time Across Two Continents: Evaluation of Semen Analyses From 119,972 Infertile Men. Presented at the 74th American Society for Reproductive Medicine Scientific Congress & Expo, Denver, CO, Oct 6-10* [Abstract].
47. Guo J, Grow EJ, Carrell DT, **Hotaling JM**, Cairns B (2018). *The Adult Human Testis Cell Atlas Via Single Cell RNA Sequencing* [Abstract].
48. Slade A, Keihani S, Brant WO, **Hotaling JM** (2018). *Stretched Penile Length and Infertility, A New Association. Presented at the 74th American Society for Reproductive Medicine Scientific Congress & Expo, Denver, CO, Oct 6-10* [Abstract].

49. Hanson B, Hawkins C, Stark L, **Hotaling JM**, Mehta A (2018). *Qualitative Analysis of Male Partner Needs In Infertile Couples*. Presented at the 74th American Society of Reproductive Medicine Scientific Congress & Expo, Denver, CO Oct 6-10 [Abstract].

### **UNPUBLISHED POSTER PRESENTATIONS**

1. Craig JR, Foss W, **Hotaling JM**, Brant WO (2016). *Use Of Dehydrated Amniotic Membrane Allograft At The Time Of Microscopic Denervation Of The Spermatic Cord For Chronic Orchalgia Improves Outcomes*. Poster session presented at 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov 3-6.
2. Basilius J, Redshaw J, Foss W, Craig J, **Hotaling JM**, Myers JB, Brant WO (2016). *Scrotal Pain After Microsurgical Denervation Of The Spermatic Cord: Patient Reported Quality Of Life Outcomes*. Poster session presented at 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov. 3-6.
3. Anderson RE, **Hotaling JM**, Myers JB, Brant WO (2016). *Surgical Management And Outcomes Of Congenital Chordee In Adults*. Poster session presented at 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov. 3-6.
4. Martin L, Peche W, Peterson K, Chan S, Morton R, Wan Y, Emery B, Aston KI, Jenkins T, Presson A, Zhang C, Carrell D, **Hotaling J** (2017). *Population-based semen analysis results and fertility among men with inflammatory bowel disease: Results from Subfertility Health Assisted Reproduction and the Environment (SHARE) study*. Poster session presented at Utah Chapter Meeting of the American College of Surgeons, Salt Lake City, May 11.
5. Alder, N, Keihani, S, Myers, J, Hotaling, J (October 2017). *Outcomes of Combination Therapy with Clomiphene and Anastrozole in Subfertile Hypoandrogenic Men*. Poster session presented at 18th Annual Fall Scientific Meeting of SMSNA, San Antonio.
6. Rachel A. Moses MD, MPH, Sorena Keihani MD, Sarah Majercik\* MD, Frank N. Burks MD, SeanP. Elliott MD, Kaushik Mukherjee\* MD, Bradley A. Erickson MD, Richard A. Santucci MD, BrianP. Smith\* MD, Christopher M. Dodgion\* MD, MPH, Scott A. Zakaluzny\* MD, Benjamin N. BreyerMD, James M. Hotaling MD, Raminder Nirula\* MD, MPH, Jeremy B. Myers MD (09/28/2018). *Current Management Of Extraperitoneal Traumatic Bladder Injuries: Results From The American Association For The Surgery of Trauma (AAST) Genitourinary Trauma Study*. Poster session presented at AAST Annual Fall Meeting, San Diego, CA..
7. Sorena Keihani MD, Douglas M. Rogers MD, Bryn E. Putbrese MD, Kaushik Mukherjee\* MD, Sarah Majercik\* MD, Christopher M. Dodgion\* MD, MPH, Scott A. Zakaluzny\* MD, Brian P. Smith\* MD, Jurek F. Kocik\* MD, MatthewM. Carrick\* MD, Reza Askari\* MD, Angela P. Presson Ph.D., James M. Hotaling MD, Raminder Nirula\* MD, MPH, Jeremy B. Myers M (09/28/2018). *A NOMOGRAM PREDICTING THE NEED FOR BLEEDING INTERVENTIONS AFTER HIGH-GRADE RENAL TRAUMA: RESULTS FROM THE AMERICAN ASSOCIATION FOR THE SURGERY OF TRAUMA (AAST GENITOURINARY TRAUMA STUDY)*. Poster session presented at AAST Annual Fall Meeting, San Diego, CA.

### **ORAL PRESENTATIONS**

#### **Meeting Presentations (Not Published Abstracts and Not Unpublished Posters)**

##### **National**

2014

An Update on Epididymovasostomy Indications and Technique. American Society for Reproductive Medicine Annual Meeting Lunch With The Experts, Honolulu HI, Oct 17-23.

- 2015 Male Infertility and Comorbidities: Improving Male Health Through Proper Evaluation. American Society for Reproductive Medicine Annual Meeting, Lunch With The Experts, Baltimore MD, Oct 17-23.
- 2015 Moderator, State of Urology 2015 poster session, American Urological Association Annual Meeting, New Orleans LA, May .
- 2016 Post-Vasectomy Pain Syndrome: Epidemiology, Evaluation and Treatment. Annual Meeting of the American Urological Association Society for the Study of Male Reproduction (SSMR), San Diego CA, May 8.
- 2016 Invited Moderator: Erectile Dysfunction Epidemiology and Medical. 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov 3-6.
- 2016 Moderator: Sexual Medicine. 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov 3-6.
- 2016 Biomarkers of Erectile Dysfunction. 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov 3-6.
- 2016 Oncofertility. 2016 Annual Fall Scientific Meeting of the Sexual Medicine Society of North America, Scottsdale, AZ, Nov 3-6.
- 2017 Subfertility Health Assisted Reproduction and the Environment (SHARE): Trans-generational impacts of male infertility. Presented for the Rising Star Award at the Annual Meeting of the American Urologic Association, Boston MA, May 12-16.
- 2017 Profiling of human adult spermatogonial stem cells reveals transcription and signaling programs for self renewal and differentiation. Presented at the Annual Meeting of the American Urologic Association, Boston, MA, May 12-16.
- 2017 Creating a successful men's health center - an evidence based approach. Presented at the Annual Meeting of the American Urological Association, Boston MA, May 12-16.
- 2017 Results of a North American survey on the characteristics of men being assessed in male infertility clinics: the Andrology Research Consortium. Presented at the Annual Meeting of the American Urologic Association, Boston, MA, May 12-16.
- 2017 Erectile Dysfunction Genomics (EDGE): A GWAS of Erectile Dysfunction in the Kaiser Permanente of Northern California (KPNC) Genetic Epidemiology Research on Aging (GERA) Cohort. 18th Annual Fall Scientific Meeting of SMSNA. San Antonio, TX, Oct. 26-29.
- 2017 Round table moderator: Update on Culturing Human Spermatogonial Stem Cells for Oncofertility. Annual meeting of the American Society for Reproductive Medicine. San Antonio, TX. Oct 30.
- 2017 Oral abstract session: Male Reproduction and Urology. Annual meeting of the American Society of Reproductive Medicine. San Antonio,TX, Oct. 30
- Local/Regional
- 2016 Recent Exogenous Testosterone Use Among Men Presenting For Infertility Evaluation. Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.
- 2016 Use of Amniotic Membrane in Benign Urology: A Novel Solution For Optimal Wound Healing. Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.

- 2016 Use Of Continent Catheterizable Ileal Cecocystoplasty For The Treatment Of Devastated Lower Urinary Tract Outlet. Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.
- 2016 Seasonal Variation In Male Fertility Measures And Corresponding Birth Patterns. Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.
- 2016 Treatment of Urethral Stricture Disease With Direct Vision Internal Urethrotomy And Pentoxifylline Injection. Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.
- 2016 Prostate Cancer: How And When Does Geography Matter? Western Section of the American Urologic Association, Kauai, HI, Oct. 23-28.
- 2017 StreamDx Urine Flowmeter. University of Utah Translational Medicine Symposium 2017, Salt Lake City, UT, Feb. 27.
- 2017 "Male Infertility: Counseling & Referral for the REI" at the Pacific Coast Reproductive Society, Palm Springs, CA, March 21-25
- 2017 "Male Infertility" at the Pacific Coast Reproductive Society, Palm Springs, CA, March 21-25
- 2017 Male Infertility- A Comprehensive Update. 65th Annual Meeting of the Pacific Coast Reproductive Society, Indian Wells CA, March 22-26.
- 2017 The Medical Treatment of Idiopathic Oligospermia and Unexplained Male Infertility Update. 65th Annual Meeting of the Pacific Coast Reproductive Society, Indian Wells CA, March 22-26.

### **Invited/Visiting Professor Presentations**

#### International

- 2018 Male Infertility & Somatic Health: Nature or Nurture? UAE Reproductive Symposium Fertility Forward 2018. Dubai, March 23-24.

#### National

- 2013 Hotaling J, Eisenberg M, Rao P, Ross L. Use of a novel electronic medical record to study male infertility. Invited Presentation to the Center for Disease Control (CDC) Working Group on Men's Health, Atlanta, GA, August
- 2016 The Spermatogonial Stem Cell: A biomarker of male infertility & Somatic Health. RAMANJ January 21
- 2016 Male Infertility: A biomarker for cancer risk? Rutgers University, Camden, NJ, January 21
- 2017 Male Infertility. At Frontiers in Reproductive Endocrinology. Arlington, VA, March 2-5.
- 2017 "Breakout Session I: Transitioning From Residency to Fellowship" at the Society for Reproductive Endocrinology & Infertility (SREI) Annual Fellow Retreat, Park City, UT, Aug 10
- 2017 "Breakout Session II: Developing Your Own Priorities for Fellowship" at the Society for Reproductive Endocrinology & Infertility (SREI) Annual Fellow Retreat, Park City, UT, Aug 10
- 2017 Male Infertility: Counseling & Referral for the REI" at the Society for Reproductive Endocrinology & Infertility (SREI) Annual Fellow Retreat, Park City, UT, Aug 10

- 2017 Efficiency & Academic Success: Educational Tools" at the Society for Reproductive Endocrinology & Infertility (SREI) Annual Fellow Retreat, Park City, UT, Aug 11
- 2017 "Breakout Session V: Your Research and Thesis" at the Society for Reproductive Endocrinology & Infertility (SREI) Annual Fellow Retreat, Park City, UT, Aug 12
- 2017 Health Risks & Male Infertility: Towards an Ideal Database" NIH Symposium on Andrology, Rockville, MD, Aug 25
- 2017 "Male Infertility for Epidemiologists" NIH Symposium on Andrology, Rockville, MD, Aug 25

Local/Regional

- 2017 Male Infertility for the IVF RN. Presented at Reproductive Medical Associates of New Jersey, Basking Ridge, NJ, March 7.
- 2017 Male Factor Infertility: Where Do We Go From Here. Utah Infertility Conference, Sandy, Utah, Oct. 7.

**Grand Rounds Presentations**

- 2014 - 2015 Presenter. Hypogonadism. University of Utah Urology Grand Round, Salt Lake City, Utah
- 2014 - Present Presenter. Fertility Overview. University of Utah Urology Grand Rounds, Salt Lake City, Utah
- 2015 Presenter. Men's Health for the Patient and the Provider. Grand Rounds, Elko Nevada Regional Health Center, Elko, NV
- 2017 "Male Factor Infertility In The Setting of IVF Failure: Diagnosis & Treatment at Reproductive Medicine Associates of New Jersey, Basking Ridge, NJ, Sept 5
- 2017 Presenter. The Other half: Male Infertility & The Sins of our Fathers. Grand Rounds OBGYN. University of Utah, Salt Lake City, Utah
- 2018 Presenter. Erectile Dysfunction Management. University of Utah Urology Grand Round, Salt Lake City, Utah
- 2018 Presenter. Male Infertility: A Window Into Men's Health. Grand Rounds, Lakeview Hospital, Salt Lake City, Utah.

**Outreach Presentations**

- 2013 Presenter, Utah Fertility Center, Men's Health for the Patient and the Provider.
- 2013 Presenter, Granger Medical West Jordan, Men's Health for the Patient and the Provider.
- 2013 Presenter, Riverton Hospital, Men's Health for the Patient and the Provider.
- 2014 Presenter, Utah Valley University, Student Health Center, "5 Myths of Male Infertility"
- 2014 Presenter, Utah Infertility Awareness, Men's Health for the Patient and the Provider.
- 2014 Presenter, South Valley Women's Health Care, Men's Health for the Patient and the Provider.
- 2014 Presenter, Villas at Jordan Landing, Men's Health for the Patient and the Provider.
- 2014 Presenter, St. Mark's Hospital, Men's Health for the Patient and the Provider.
- 2014 Presenter, Jordan Meadows Medical Center, Men's Health for the Patient and the Provider.
- 2014 Presenter, Wade Family Medicine, Men's Health for the Patient and the Provider.

2014	Presenter, Lakeview Hospital, Lakeview OB/GYN
2014	Presenter, Intermountain Medical Center, Intermountain OB/GYN Outreach
2014	Presenter, Salt Lake Regional Medical Center, Men's Health for the Patient and the Provider.
2014	Presenter, Cottonwood Hospital, Cottonwood OB/GYN Outreach Talk
2014	Presenter, University of Utah Health Care, Marketing and Outreach for Male Infertility
2014	Presenter, Central Utah Clinic, Central Utah Clinic Women's center Outreach Talk
2015	Presenter, Utah Department of Health, Erectile dysfunction in diabetes
2015	Presenter, Reproductive Care Center, Utah Infertility Journal Club Outreach Talk
2015	Presenter, Rocky Mountain Women's Health Center, Men's Health for the Patient and the Provider.
2015	Presenter, Tanner Clinic, Men's Health for the Patient and the Provider.
2015	Presenter, Brigham Young University, Student Health Center, "5 Myths of Male Infertility"
2015	Presenter, University of Utah Health Care, Men's Health for the Patient and the Provider.
2018	Presenter, University Health Care System, Erectile Dysfunction Causes and Treatments

## **OTHER SCHOLARLY ACTIVITIES**

### **Other Scholarly Activities**

2012 - Present	Andro360, Salt Lake City, Utah. Co-founder of a medical device company making a non-invasive wearable ring to monitor penile erectile function. Company has one issued patent, has been through multiple incubators and is raising a SEED round as well as moving forward with a clinical trial.
2013 - Present	StreamDx Inc. Established (co-founder) a start up company that resulted from work in the bioinnovate project from 2013-2014. The company, StreamDx, now has 2 patents, 4 full time employees, has raised over \$700,000 in capital and will likely have an FDA approved novel uroflow meter for clinical and home use on the market by the end of 2018. StreamDx awarded second place for 2015 Utah Life Sciences company of the year by the Utah innovation Awards and received a SBIR Phase II \$1.7M grant in 2017
2016 - Present	NANONC Inc., Salt Lake City, Utah. Co-founder of a microfluidic sperm sorting company with Bruce Gale, Doug Carrell, Tim Jenkins, Ki Aston and Raheel Samuel. Company has received a SSTR grant, had a funded SBIR grant that was declined due to overlap with SSTR grant and has one full time and four part time employees. We have two pending patents and received a Fast Track Phase I/II NIH SBIR funding at \$1.6M in 2017.