



Graham “Luke” Machen, M.D.
Reproductive Urologist

www.AustinFertility.com
www.AustinVasectomyCenter.com

ROUND ROCK LOCATION:
7700 Cat Hollow Dr., Ste 106
Round Rock, TX. 78681

EDUCATION

Undergraduate

8/2005-5/2009	University of North Carolina Chapel Hill, NC	Bachelor of Arts With Distinction	Major: Chemistry
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Graduate

8/2009-5/2013	Louisiana State University Health Sciences Center New Orleans, LA	Medical Doctorate
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Postgraduate

6/2013-6/2014	Baylor Scott and White Temple, TX	Internship General Surgery
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7/2014-6/2018	Baylor Scott and White Temple, TX	Residency Urology
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7/2018-6/2019	Medical College of Wisconsin Milwaukee, WI	Fellowship Reproductive Urology and Andrology
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Professional Development

2008	Technology Transfer Internship, National University of Singapore
2009	Chemistry 101 Lab Undergraduate Teaching Assistant
2017	Cleveland Clinic National Urology Resident Preceptorship in Adult and Pediatric Reconstructive and Prosthetic Urologic Surgery

CERTIFICATIONS and LICENSURE

Specialty certification:

2018 American Board of Urology Certifying Exam – Part I

Medical License:

2013-2018 Texas medical training license

2018-2019 Wisconsin medical license

2019-present Texas medical license

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2013-Present American Urological Association
2016-Present American Society of Andrology
2017-Present Society of Urologic Prosthetic Surgeons
2018-Present American Society for Reproductive Medicine
2018-Present Society for the Study of Male Reproduction
2018-Present Sexual Medicine Society of North America
2018-Present Society for Male Reproduction and Urology

HONORS

2009 Association of American Medical Colleges (AAMC) Student Representative
2012 LSU School of Medicine Alumni Scholarship
2016 Texas Transplantation Society Trinkle-Banowsky Case Presentation Competition Winner
2017 Sexual Medicine Society/Society for Urologic Prosthetic Surgeons Resident Training Scholarship Program and Symposium
2017 Baylor Scott & White High Score on In-Service Exam
2017 Baylor Scott & White Chief Resident
2018 Arnold P Gold Humanism in Medicine Honor Society
2018 Top Quintile, American Board of Urology Qualifying Exam Part I
2018 Peer Faculty for 2018 ASRM Resident Education Program
2018 Moderator for SMRU Traveling Scholars Oral Abstract Session ASRM 2018

PUBLICATIONS

Peer-reviewed Articles

1. Doersch KM, Thai KH, **Machen GL**, Bird ET, Reilly TP, El Tayeb MM. A comparison of clinical outcomes of operating room versus office-based ureteral stenting with the novel use of nitrous oxide sedation. *Urology*. July 2019
2. Krzastek SC, Sharma D, Abdullah N, Sultan M, **Machen GL**, Wenzel JL, Ells A, Chen X, Kavoussi M, Costabile RA, Smith RP, Kavoussi PK. Long term safety and efficacy of clomiphene citrate for the treatment of hypogonadism. *J Urol*. June 2019

3. **Machen GL**, Mahmoud AM, Kleinguetl CE, Chen W, Harris SE, Bird ET. Vasectomy reversal utilizing fibrin glue. *Proc(Bayl Univ Med Cent)*. 2019 Mar; 32(2): 196-198
4. Kavoussi PK, **Machen GL**, Wenzel JL, Ellis AM, Kavoussi M, Kavoussi KM, Kavoussi SK. Medical treatments for hypogonadism do not significantly increase the risk of deep vein thrombosis over general population risk. *Urology*. 2019 Feb; 124-127-130
5. Kavoussi PK, Gilkey MS, Hunn C, **Machen GL**, Chen SH, Wininger JD, Kavoussi KM, Kavoussi SK. Ibuprofen does not have an adverse impact on semen parameters. *J Assist Reprod Genet*. 2018 Dec; 35(12): 2201-2204.
6. Doersch K, **Machen GL**, Thai KH, Sung J, El Tayeb MM. Feasibility and clinical outcomes of ureteral stenting in the office procedural suite. *Can J Urol*. 2018 Dec; 25(6): 9596-9600.
7. **Machen GL**, Bird ET, Kavoussi PK. Analysis of Rural vs Urban Vasectomy Demographics. *Trans Androl Urol*. 2018 Dec; 7(6):931-934.
8. Doersch KM, Hart KD, Elmekresh A, Milburn PA, **Machen GL**, El Tayeb MM. Comparison of utilization of pressurized automated versus manual hand irrigation during ureteroscopy in the absence of ureteral access sheath. *Proc (Bayl Univ Med Cent)*. 2018 Oct; 31(4):432-435
9. Doersch KM, Elmekresh A, **Machen GL**, El Tayeb, MM. The use of string with a stent for self-removal following ureteroscopy: a safe practice to remain. *Arab J Urol*. 2018 Jun; 16(4): 435-440.
10. **Machen GL**, Bird ET, Brown M, Ingalsbe D, Reyes M, Kuehl T. Utilization rates of cryopreserved sperm based on the indication for storage. *Investig Clin Urol*. 2018 May; 59(3): 177-181.
11. **Machen GL**, Brown ML, Ingalsbe DA, East MM, Reyes M, Kuehl TJ. Time trends for bacterial species and resistance patterns in semen of patients evaluated for infertility. *Proc (Bayl Univ Med Cent)*. 2018 Mar; 31(2): 165-167
12. Mukhopadhyay D, Wiggins-Dohlvik KC, MrDutt MM, Hamaker JS, **Machen GL**, Davis ML, Regner J, Smith RW, Ciceri DP, Shake JG. Implementation of a standardized handoff protocol for post-operative admissions to the surgical intensive care unit. *Am J Surg*. 2018 Jan; 215(1):28-36.
13. **Machen GL**, Rajab, H, Pruszynski J, Coffield KS. Phosphodiesterase type 5 inhibitors usage and prostate cancer: a match-paired analysis. *Trans Androl Urol*. 2017 Oct; 6(5):879-882
14. **Machen GL**, Lowry PS, Doherty DK, Lappin JA, El Tayeb MM. Ex-vivo Ureteroscopy in deceased donor kidneys. *Can Urol Assoc J*. 2017 Aug; 11(8): 251-253.
15. **Machen GL**, Chiles LR, Joyce J, Wagner KR. Robotic repair of vesicovaginal fistulas utilizing fibrin sealant. *Can J Urol*. 2017 Apr; 24(2): 8740-8743

16. Jhavar S, Swanson G, Deb N, Pruszynski J, **Machen GL**, Milburn PA, Bird ET. Durability of artificial urinary sphincter with prior radiation therapy. *Clin Genitourinary Cancer*. 2017 Apr; 15(2): e175-e180
17. Berlanga GA, **Machen GL**, Lowry PS, Brust KB. Management of a renal fungal bezoar caused by multi-drug resistant *Candida Glabrata*. *Proc (Bayl Univ Med Cent)*. 2016 Oct 1; 29(4): 416-417
18. Wiczer BM, Lobo S, **Machen GL**, Graves LM, Bernlohr DA. FATP1 mediates fatty-acid induced activation of AMPK in 3T3-L1 Adipocytes. *Biochem Biophys Res Commun*. 2009 Sep 18; 387(2): 234-8.

Reviews, Invited Published Papers, Proceedings, Monographs, Book Chapters, and Other Publications

1. **Machen GL**, Sandlow JI. Extended Indications for Varicocele: Summary of Current Literature. *F1000*. In press
2. **Machen GL**, Sandlow JI. Causes of Male Infertility. *Male Infertility: Contemporary Clinical Approaches, Andrology, ART, and Antioxidants*. 2nd Edition. Springer. In press
3. **Machen GL**, Sandlow JI. Alternative Indications for Varicocele. *AUANews*. August 2019
4. Smith-Harrison L, Piotrowski J, **Machen GL**, Guise A. Acquired buried penis in adults: A review of surgical management. *Sex Med Rev*. May 2019.
5. **Machen GL**, Harris SE. "Empiric Medical Treatment." *Encyclopedia of Reproduction*. 2nd Edition. Cambridge: Academic Press. August 2018.

PROFESSIONAL ACTIVITIES: WORKSHOPS, SEMINARS, LECTURES

Local Presentations

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| 2015 | “Successfully Treated Genitourinary Fungal Bezoar.” Scott and White Internal Medicine Research Conference |
| 2015 | “Ex-vivo ureteroscopy in deceased donor kidneys.” Texas Transplantation Society Annual Conference |
| 2019 | “Sub-fertility and its psychological impact on men.” Wisconsin Urological Society Annual Meeting |
| 2019 | “Frequency of fertility preservation discussion in cancer patient varies based on age.” Wisconsin Urological Society Annual Meeting |
| 2019 | “Testosterone and cardiovascular risk: Fact vs Fiction.” Medical College of Wisconsin Grand Rounds. |

Regional, National, and International Presentations

- 2013 “Analysis of Disbanding a Multidisciplinary Spina Bifida Clinic for Children in Post-Hurricane Katrina New Orleans.” South Eastern Section of the American Urological Association Annual Meeting. March 2013
- 2015 “Modification of Port Placement in Robot Assisted Laparoscopic Prostatectomy in Patients who have Undergone a Large Ventral Hernia Repair.” World Congress of Endourology. October 2015
- 2015 “The Effect of Radiation Therapy on Outcomes After Artificial Urinary Sphincter.” South Central Section of the American Urological Association. October 2015
- 2016 “Vesicovaginal Fistula Repair using Fibrin Sealant.” Society of Urodynamics, Female Pelvic Medicine and Urogenital Reconstruction Winter Meeting. February 2016
- 2016 “Four Ring Circus: A Case of Penile Incarceration.” American Society of Andrology Annual Conference. April 2016
- 2016 “Predictors of ED Visits Following Ureteroscopy.” South Central Section of the American Urological Association. September 2016
- 2016 “Vesicovaginal Fistula Repair using Fibrin Sealant.” World Congress of Endourology. November 2016
- 2016 “Predictors of ED Visits Following Ureteroscopy.” World Congress of Endourology. November 2016
- 2017 “Utilization of pressurized vs non-pressurized irrigation during ureteroscopy in the absence of a ureteral access sheath.” American Urological Association Annual Meeting. May 2017
- 2017 “Effect of different postoperative pain medications on return for unplanned care after ureteroscopy.” American Urological Association Annual Meeting. May 2017
- 2017 “Predictors of ED Visits Following Ureteroscopy.” American Urological Association Annual Meeting. May 2017
- 2017 “Utilization rates of cryopreserved sperm based on the indication for storage.” American Urological Association Annual Meeting. May 2017
- 2017 “Sequential balloon dilation vs direct access sheath insertion pre-flexible ureteroscopy in non-pretended patients: a retrospective comparative study.” South Central Section of the American Urological Association. November 2017
- 2017 “Ureteral stent placement in clinic using nitrous oxide analgesia: one institution’s experience.” South Central Section of the American Urological Association. November 2017
- 2018 “Vasectomy Reversal Utilizing Fibrin Sealant.” American Society of Andrology Annual Conference. April 2018
- 2018 “Analysis of Urban vs Rural Vasectomy Demographics.” American Society for Reproductive Medicine Scientific Expo. October 2018
- 2018 “Descriptive outcomes of patients undergoing Urolift for extended indications.” Sexual Medicine Society of North America Annual Fall Meeting. November 2018
- 2019 “Varicocele Size Relates to Degree of Semen Improvement.” American Urological Association Annual Meeting. May 2019
- 2019 “Prednisone after Vasectomy Reversal May Improve Semen Parameters.” American Urological Association Annual Meeting. May 2019

2019

“The Risk of Deep Vein Thrombosis Associated with Treatments for Hypogonadism.” American Urological Association Annual Meeting. May 2019

PROFESSIONAL ACTIVITIES: RESEARCH

Grant Support

Title	Source	Primary Investigator	Amount	Years Inclusive
Urodynamic Evaluation of Men with ED and Stress Incontinence s/p Insertion of IPP with Mini-Jupette	Sexual Medicine Society of North America	Luke Machen, MD	\$7,500	6/2019-5/2020