

ALEXANDRA CAROLAN, M.D.

WORK HISTORY

University of Texas Southwestern Medical Center, Children's Health
Pediatric Urologist
Assistant Professor of Urology

Dallas, Texas
August 2024-present

EDUCATION AND TRAINING

PEDIATRIC UROLOGY FELLOWSHIP, UNIVERSITY OF TEXAS SOUTHWESTERN
July 2022-June 2024
Dallas, Texas

UROLOGY RESIDENCY, MAYO CLINIC SCHOOL OF GRADUATE MEDICAL EDUCATION
July 2018-June 2022
Phoenix, Arizona

PRELIMINARY GENERAL SURGERY, MAYO CLINIC SCHOOL OF GRADUATE MEDICAL ED.
July 2017-June 2018
Phoenix, Arizona

UNIVERSITY OF MINNESOTA MEDICAL SCHOOL
July 2013-May 2017
Minneapolis, Minnesota

WARTBURG COLLEGE, Bachelor of Arts, Biology
August 2009-May 2013
Waverly, Iowa

ALBERT LEA SENIOR HIGH SCHOOL
August 2005-June 2009
Albert Lea, Minnesota

PROFESSIONAL MEMBERSHIP

- American Urological Association
- Societies for Pediatric Urology

AWARDS

- Mayo Clinic Top Performing Provider Patient Experience Award: Achieved the 99th percentile rank in "Likelihood to Recommend your Provider" on patient surveys, 2022
- Finalist for Spirit of Mayo Clinic Award, 2022
- Junior Alpha Omega Alpha member, University of Minnesota Medical School, 2015
- Overall Year One Honors and Year Two Honors (Top 20%), University of Minnesota Medical School, 2015
- *Summa cum laude*, 4.0 GPA, Wartburg College, 2013
- Presidential Full Tuition Scholarship, Wartburg College, 2009-2013
- Valedictorian, 4.0 GPA, Albert Lea Senior High School, 2009

PUBLICATIONS

Dalela D, Batie S, **Carolán A**, Schlomer B, Collins R, Jacobs M. Renal Medullary Carcinoma: The Zebra Amongst the Horses. *Urology*. 2024 Mar 10:S0090-4295(24)00151-1. doi: 10.1016/j.urology.2024.02.048.

Dalela D, **Carolán A**, Jacobs M. Seeing double: A case of bladder and gastrointestinal duplications. *Dialogues in Pediatric Urology*. March 2024.

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Carolan A, Batie S, Rakheja D, Jacobs M, Peters C, Stanasel I. *Testicular relapse of acute lymphoblastic leukemia*. Urology Case Reports. 2023, 50. doi: <https://doi.org/10.1016/j.eucr.2023.102449>.

Carolan A, Peters C. *Posterior urethral valves with prenatal urinoma*. Dialogues in Pediatric Urology. December 2023.

Carolan A, Batie S, Peters C, Chan Y. *Crossed-fused ectopia with prenatal hydronephrosis*. Dialogues in Pediatric Urology. July 2023.

Carolan A, Batie S, Caldwell K, Singh V, Chan Y. *Urethral pyogenic granuloma in a pediatric patient*. Urology Case Reports. 2022 Nov; 45. doi: 10.1016/j.eucr.2022.102264.

Toma G, **Carolan A**, Buckner-Petty S, Vargas L, Wolter C, Khan A. *The role of in-person support groups in the management of urinary incontinence in women from a mixed-methods, randomized pilot study*. Archives of Gynecology and Obstetrics. 2022 Jun. doi: 10.1007/s00404-022-06633-x.

Carolan A, Parker K, Grimsby G. *Opioid Use After Pediatric Urologic Surgery: Is It Really Needed?* Journal of Urology. 2021 Dec; 158:184-188. doi: 10.1016/j.urology.2021.04.012.

Khan A, Zhang, **Carolan A**; Tay K; Wolter, C. *Evaluating the Prevalence of Pelvic Floor Disorders in Women in Nonmetropolitan Communities*. FPMRS. 2020 June; doi: 10.1097/SPV.0000000000000908

Sukumar S, Elliott S, Myers J, Voelzke B, Smith T, **Carolan A**, Madaa M, Vanni A, Breyer B, Erickson BA. *Multi-Institutional Outcomes of Endoscopic Management of Stricture Recurrence after Bulbar Urethroplasty*. Journal of Urology. 2018 Oct; 200(4): 837-842. doi: 10.1016/j.juro.2018.04.081.

Lizalek J, McKenna T, Huegel K, Marsh S, **Carolan A**, Kobliska A, Heying E, Gardner N, Miller G, Kotecki A, Henningsen M, Lundt A, Farley J, Ellerbroek SM. *Lysophosphatidic acid stimulates urokinase receptor (uPAR/CD87) in ovarian epithelial cancer cells*. Anticancer Research. 2015. 35(10):5263-70. PMID: 26408685.

NATIONAL AND REGIONAL PRESENTATIONS AND ABSTRACTS

Ashbrook C, **Carolan A**, Schlomer B. Management of infants with duplex ectopic ureters: initial ureteroureterostomy versus initial cutaneous ureterostomy. Moderated poster presentation at the American Urological Association Meeting, May 2024, San Antonio, Texas.

Carolan A, Batie S. Congenital Adrenal Hyperplasia: Infant Genital Surgery versus Possible Surgery at Age of Consent or Assent. Debate at the Paul C. Peters Urology Symposium. February 2024. Dallas, Texas.

Dalela D, **Carolan A**, Jacobs M. Seeing double: A case of bladder and gastrointestinal duplications. Podium presentation at the Society for Fetal Urology session at the Societies for Pediatric Urology Fall Congress, September 2023, Houston, Texas.

Dalela D, Batie S, **Carolan A**, Collins R, Jacobs M. Renal mass: The zebra amongst the horses. Podium presentation at the Pediatric Urologic Oncology Working Group session at the Societies for Pediatric Urology Fall Congress, September 2023, Houston, Texas.

Carolan A, Batie S, Chan Y, Jacobs M, Schlomer B. *Bladder Outlet Procedures Without Augmentation Cystoplasty: Extended Long-Term Outcomes and Risks Associated with Preoperative Bladder Compliance*. Podium presentation at the American Urological Association Meeting, April 2023, Chicago, Illinois.

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Carolan A, Batie S, Gold S, Ali S, Wong D, Karra N, Amado N, Gattineni J, Schlomer B, Chan Y, Baker L. Renal Function by eGFR Calculators in Prune Belly Syndrome and Posterior Urethral Valves. Moderated poster presentation at the American Urological Association Meeting, April 2023, Chicago, Illinois.

Carolan A, Peters C. *Posterior urethral valves with prenatal urinoma*. Podium presentation at the Society for Fetal Urology session at the American Urological Association Meeting, April 2023, Chicago, Illinois.

Carolan A, Batie S, Peters C, Chan Y. Crossed-fused ectopia with prenatal hydronephrosis. Podium case presentation at the Society for Fetal Urology session of the Societies for Pediatric Urology Fall Congress 2022. Presentation made by Dr. Batie.

Carolan A, Parker K, Grimsby G. *Opioid Use After Pediatric Urologic Surgery: Is It Really Needed?* Poster presentation at the Western Section of the American Urological Association Annual Meeting. October 2020, virtual meeting.

Carolan A, Moore J, Stern K. *Extensive Uric Acid Nephrolithiasis Associated with Uterine Leiomyosarcoma: A Case Report*. Round table presentation at the Western Section of the American Urological Association Annual Meeting. October 2020, virtual meeting.

Carolan A, Grimsby G. *A case report defining a novel symptom of enterovesical fistula*. Round table presentation at the Western Section of the American Urological Association Annual Meeting. October 2020, virtual meeting.

Carolan A, Moore J, Stern K. *Percutaneous Nephrolithotomy with Rendezvous Ureteroscopy for Treatment of Extensive Uric Acid Nephrolithiasis*. Video presentation at the Western Section of the American Urological Association Annual Meeting. October 2020, virtual meeting.

Carolan A, Arora K, Wolter C. *Transvaginal Mesh: Long Term Outcomes*. Poster at the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction meeting. February 2020. Scottsdale, Arizona.

Toma G, **Carolan A**, Buckner-Petty S, Vargas L, Wolter C, Khan A. *The Role of Support Groups in the Management of Urinary Incontinence in Women*. Poster at the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction meeting. February 2020. Scottsdale, Arizona.

Carolan A, Zell M, Rose K, Arora K, Faraj K, Wolter C. *Same-Day Artificial Urinary Sphincter and Inflatable Penile Prosthesis Placement: Comparable Perioperative Outcomes*. Moderated poster at the Sexual Medicine Society of North America meeting. October 2019. Nashville, Tennessee.

Carolan A, Zhang N, Tay K, Wolter C, Khan A. *Prevalence of pelvic floor disorders between women in metropolitan vs non-metropolitan communities*. Poster at the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction meeting. March 2019. Miami, Florida.

Rose K, Olson K, Faraj K, **Carolan A**, Girardo M, Wolter C, Aqsa K. *Environmental factors affecting patient comfort during urodynamic testing: A randomized controlled trial of 160 patients*. Moderated poster at the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction meeting. March 2019. Miami, Florida.

Carolan A. *78-year old female with renal abscess*. Case presentation at the Arizona Urological Society meeting. July 2018. Tucson, Arizona.

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Rose K, Faraj K, **Carolan A**, Khan A, Wolter C. *Continence and pain outcomes in eighty-one consecutive urethrolisis patients: A single center experience*. Poster at SUFU Winter Meeting, February 2018.

Levy ME, **Carolan A**, Pathak P, Myers JB, Elliott S. *Surgical Outcomes of the Continent Catheterizable Ileal Cecocystoplasty*. Poster presentation at the Western Section of the American Urological Association Annual Meeting. Koloa, Hawaii. October 2016.

Ciota (Carolan) A, Marsh S, Kobliska A, Ellerbroek S. *Lysophosphatidic acid regulates uPAR expression and localization*. Poster presentation at the Experimental Biology Conference. Boston, Massachusetts. *The FASEB Journal*. 2013. 27:1b187.

RESEARCH LAB EXPERIENCES

Wartburg College Biochemistry Lab

Principal investigator Shawn Ellerbroek, Ph.D.

2011-2013

- Maintained cell culture lines and performed experiments on ovarian cancer cell cultures utilizing immunofluorescence and RT-PCR

Mayo Clinic Motion Analysis Laboratory

Summers 2010 and 2011

Principal investigator Kenton Kaufman, Ph.D.

Summer Undergraduate Research Fellowship

- Rewrote and expanded the functionality of the in-house clinical software utilized to generate graphical representations of gait analysis data using Matlab, a computer programming platform

Undergraduate Research Employment Program

- Created a subject specific musculoskeletal model capable of yielding descriptions of moment arms for the shoulder with the eventual goal of improving patient outcomes following brachial plexus injuries through the use of a validated model's computationally derived predictions of novel surgical interventions

QUALITY IMPROVEMENT

Newborn Spina Bifida Protocol

May 2023

- Drafted a protocol for management, workup, and follow up of newborns with spina bifida in the neonatal intensive unit at Children's Health Dallas

LEADERSHIP

Alpha Omega Alpha: Robert J. Glaser Distinguished Teacher Award Coordinator

2016-2017

Coordinate nomination, selection and application to honor a faculty member who is dedicated to and passionate about medical student education

Women in Medicine: Education Chair

2014-2015

Organized the Sexual Assault Fundamentals Education (SAFE) Conference and educational lecture series for health care professional students

Orthopedic Surgery Interest Group: Vice President

2014-2015

Organized panel lectures and skills nights for medical students

Wartburg College Dance Team: Captain and team member

2009-2013

Planned and led team rehearsals and choreographed performance routines

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TEACHING

- Chief Resident in Urology** 2021-2022
Taught and supervised junior residents in the operating room and on call. Coordinated and presented at multiple teaching conferences on a weekly basis.
- Medical Student Enrichment Program: Second-year peer mentor** 2014-2015
Assisted in the planning and implementation of a pilot pre-orientation program designed to ease the transition to medical school for first-year students. Met with peer mentees weekly to discuss progress and challenges.
- University of Minnesota Medical Education Office: Tutor** 2014-2015
Led group content review sessions for first-year students and tutored one-on-one
- Wartburg College Pathways Center: Supplemental Instructor** 2011-2013
Led weekly group review sessions for students taking Mammalian Anatomy & Physiology and Biology I
- Wartburg College Departments of Biology and Chemistry: Tutor and Lecture Assistant** 2011-2013
Facilitated in-class group work and held office hours for Organic Chemistry students. One-on-one tutoring for genetics content.