

Stanford



Amy Dobberfuhr

Instructor, Urology

CLINICAL OFFICES

- **Urology Clinic**

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Bio

ACADEMIC APPOINTMENTS

- Instructor, Urology

ADMINISTRATIVE APPOINTMENTS

- Member, Education Committee, International Continence Society, (2016- present)

HONORS AND AWARDS

- Best in Category Prize (S23 Podium #443 Large Capacity Bladder after Prolapse Repair), ICS 2018 Annual Meeting, Philadelphia, PA (2018 (08/30))

1 OF 16

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Western Section American Urological Association (2018 - present)
- Member, American Urological Association (2011 - present)

1 OF 7

PROFESSIONAL EDUCATION

- Master of Science, Stanford University Division of Epidemiology (2018)

1 OF 6

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Amy Dobberfuhr, received a B.S. in Mechanical Engineering from North Carolina State University in 2004 and her M.D. from the University of North Carolina at Chapel Hill School of Medicine in 2010. She completed her residency training in Urology at Albany Medical College in New York in 2015. She then completed an ACGME fellowship in FPMRS (Neurourology & Voiding Dysfunction) in the Department of Urology at Stanford University in 2017, and completed her M.S. in

Epidemiology and Clinical Research from Stanford University in 2018. Following fellowship Dr. Dobberfuhr was appointed the faculty research position of Instructor in the Department of Urology 7/1/2017 and her practice includes both a clinical and research focus.

Dr. Dobberfuhr's current clinical practice includes: Pelvic Reconstruction, Neurourology, and Voiding Dysfunction.

Dr. Dobberfuhr's current research focus includes: basic science, clinical and translational research in overactive / underactive bladder and radiation cystitis; urine biomarkers of compensated and decompensated detrusor dysfunction; animal models of voiding and pelvic floor dysfunction; pharmacologic modulation of lower urinary tract function and fibrosis. Dr. Dobberfuhr's past basic science and clinical research interests have included: animal models of voiding and pelvic floor dysfunction (mouse, rat, rabbit); renal fibrosis and molecular cell signaling inflammatory pathways; pelvic floor ischemia; neuroanatomy and bladder tissue mechanics.

Dr. Dobberfuhr's basic science and clinical translational research efforts for 2016-2018 were supported by the Stanford Clinical and Translation Science Award to Spectrum (NIH KL2 TR 001083). To complement her KL2 sponsored research activities and translational research goals, she obtained an M.S. in Epidemiology and Clinical Research. Recent projects have included a CIRM grant (PI: Bertha Chen, MD), to investigate a novel iPSC pSMC stem cell therapy for the treatment of radiation cystitis; "Prevention of the Late Stage Adverse Effects of Radiation on the Bladder using Human Induced Pluripotent Stem Cells in a Rat Model of Radiation Cystitis". Through a SUFU grant, Dr. Dobberfuhr's research has explored the physiologic effect of the various onabotulinumtoxinA chemodenervation injection patterns in use today, project titled "Localization of OnabotulinumtoxinA and Cystometric Response Following Single versus Multiple Injections for the Treatment of Overactive Bladder in a Rat Model". Upcoming activities include a patient oriented research proposal to investigate the basic science mechanisms of underactive bladder and the creation of a benign urologic urine bio-repository for the identification of urine biomarkers of compensated and decompensated detrusor dysfunction. In collaboration with her basic science colleagues Dr. Bertha Chen (Urogynecology) and Dr. Edward Diaz (Pediatric Urology), Dr. Dobberfuhr's additional laboratory activities include exploring novel pharmacologic targets which may modulate lower urinary tract function and fibrosis. Currently funded projects and collaborators include the following:

1. WSDM Grant (PD/Co-PI Amy Dobberfuhr, Co-PI Elizabeth Kidd, Co-I Bertha Chen): "Sex Differences in Lower Urinary Tract Function after Pelvic Radiation"
2. M.S. Epi-CR / Spectrum KL2 (PI/PD Amy Dobberfuhr, Co-I Steven Goodman, Bertha Chen) "Correction of Partial Bladder Outlet Obstruction in Women with Prolapse (2009-2015)"
3. SUFU Grant (Fellow PI Raveen Syan, Faculty PI Amy Dobberfuhr, Co-I Craig Comiter): "Transvaginal OnabotulinumtoxinA Chemodenervation of the Trigone for the Third Line Treatment of Overactive Bladder"
4. SUFU Grant (Fellow PI Shannon Wallace, Faculty PI Bertha Chen, Faculty co-I Amy Dobberfuhr): "Optogenetic Neuromodulation in of Diabetic Cystopathy"
5. CIRM Grant (PI/PD Bertha Chen, Co-I Amy Dobberfuhr): "Human Induced Pluripotent Stem Cells in a Rat Model of Radiation Cystitis"

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Epidemiology (Masters Program)

Publications

PUBLICATIONS

- **Urodynamic factors associated with the large capacity bladder and incomplete emptying after prolapse repair (2009-2015).** *Neurourology and urodynamics*
Dobberfuhr, A. D., Shaffer, R. K., Goodman, S. N., Chen, B. H.
2019

1 OF 19