

CURRICULUM VITAE

Mathew C. Raynor, MD

Education

- University of North Carolina School of Medicine, Chapel Hill, NC
M.D. with Distinction, 8/2000-5/2004
- University of North Carolina, Chapel Hill, NC
B.S. with Honors, 8/1994-5/1998

Post-Graduate Training

- Fellowship, Endourology, Laparoscopy, Robotic Surgery,
University of North Carolina School of Medicine, Chapel Hill, NC
8/2009-7/2010
- Tulane University Health Sciences Center
Residency, Urology, 7/2005-6/2009
- Tulane University Health Sciences Center
Internship, General Surgery, 7/2004-6/2005

Honors & Awards

- Southeastern Section Representative, American Urological Association
Residents Committee, 2007-2009
- Gerald P. Murphy Scholar, American Urological Association, 2007, 2008
- Outstanding Urology Case Presentation, 2nd place. Annual North Carolina
Urology Residents Seminar, 2006.
- M.D. with Distinction, 2004
- Alpha Omega Alpha National Medical Honor Fraternity, 2004
- Sarah Kenan Medical Scholarship, 2000-2004
- B.S. with Honors, 1998
- Dean's List, 1996-1998

Appointments

- Assistant Professor, Division of Urology, University of North Carolina School of
Medicine/UNC Hospitals, 7/2010-present.
- Fellow/Clinical Instructor, Division of Urology, University of North Carolina School
of Medicine/UNC Hospitals, 8/2009-7/2010.
- Affiliate Staff, Durham Regional Hospital, Durham, NC, 10/2009-present.
- Affiliate Staff, Davis Ambulatory Surgical Center, Durham, NC, 2/2010-present.

License

- North Carolina Medical Board, Issued 2009
- Louisiana State Board of Medical Examiners, 2004-2009 (Inactive)

Professional Appointments

- Assistant Professor, University of North Carolina School of Medicine, Division of
Urology, 05/2011-present.
- Visiting Assistant Professor, University of North Carolina School of Medicine,
Division of Urology, 07/2010-04/2011

- Residency, Department of Urology
Tulane University Health Sciences Center, 2005-2009
- Visiting Resident, Division of Urology
The University of North Carolina School of Medicine, 2005-2007
- Internship, Department of General Surgery
Tulane University Health Sciences Center, 2004-2005
- Research Assistant
Duke University Sports Performance Laboratory
Division of Orthopaedic Surgery, Duke University Medical Center, 1999-2000
- Teaching Assistant
Department of Chemistry
The University of North Carolina at Chapel Hill, 1998
- Research Assistant
Laboratory of Cellular and Molecular Neurobiology
Departments of Pharmacology and Neurobiology
The University of North Carolina School of Medicine, 1997-1999
- Computer Drafter
RLS Arpentours, Surveyors and Engineers
Pinehurst, NC 1993-2000

Volunteer Activities

- Student Health Action Coalition, 2000-2002
- Jimmy V Cancer Foundation, 1999
- American Red Cross Local Chapter of Southern Pines, 1999

Memberships

- Endourological Society, 2009-present
- Sexual Medicine Society of North America, 2007-2009
- American Urological Association, 2004-present
- Alpha Omega Alpha, 2004-present
- American Medical Association, 2000-2004

Clinical Trials

- A Phase 3, Double-Blind, Randomized, Placebo- Controlled Study of the Safety and Effectiveness of AA4500 Administered Twice per Treatment Cycle for Up to Four Treatment Cycles (2 x 4) in Men With Peyronie's Disease. Carson CC (PI), **Raynor MC** (Sub-I), Vyas S (Coordinator). Sponsor: Auxilium Pharmaceuticals, Inc. Currently enrolling patients.
- A Randomized, Double-Blind, Placebo-Controlled Study of Dorsal Penile Nerve Block (DPNB) Prior to Penile Prosthesis implantation for Post-Operative Pain Control. Carson CC (PI), **Raynor MC** (Sub-I), Vyas S (Coordinator). Sponsor: none. Currently enrolling patients.
- Patient-Partner Health related Quality of Life (HRQOL) Evaluation After the Xenograft Implant Surgery for Correction of Peyronie's Disease (PD). Carson CC (PI), **Raynor MC** (Sub-I), Hellstrom WJ (Sub-I), Vyas S (Coordinator). Sponsor: Coloplast, Inc.

Publications

- Ferguson J, Goyal R, **Raynor MC**, Nielsen ME, Pruthi RS, Brown P, Wallen EM. Real-world cost analysis of robot-assisted versus laparoscopic versus open partial nephrectomy. J Urol. Submitted.
- Smith AB, **Raynor MC**, Pruthi RS. Perioperative and postoperative outcomes of robotic cystectomy. BJU. Submitted.
- **Raynor MC**, Carson CC. Urinary infections in men. Med Clin North Am. 2011 Jan;95(1):43-54.
- Boylu U, Oommen M, **Raynor MC**, Lee BR, Blank B, Thomas R. Ureteroenteric anastomotic stricture: novel use of a cutting balloon dilator. J Endourol. 2010 Jul;24(7):1175-8.
- **Raynor MC**, Hellstrom WJ. Words of wisdom. Re: Erectile dysfunction in type 2 diabetic men: relationship to exercise fitness and cardiovascular risk factors in the Look AHEAD trial. Eur Urol. 2010 Jan;57(1):172-3.
- Pruthi RS, Nix J, McRackan D, Hickerson A, Nielsen ME, **Raynor M**, Wallen EM. Robotic-assisted laparoscopic intracorporeal urinary diversion. Eur Urol. 2010 Jun;57(6):1013-21.
- Boylu U, Oommen M, **Raynor M**, Lee BR, Thomas R. Robot-assisted laparoscopic radical prostatectomy in patients with previous abdominal surgery: a novel laparoscopic adhesiolysis technique. J Endourol. 2009 Dec 29 (epub).
- **Raynor MC**, Davis R, Hellstrom WJ. Robot-assisted vessel harvesting for penile revascularization. J Sex Med. 2010 Jan;7 (1 Pt 1):293-7. Epub 2009 Sep 25.
- **Raynor MC**, Hellstrom WJ. Peyronie's Disease: A clinical update. Medscape Urology (www.medscape.com). 2008.
- Gurkan L, **Raynor MC**, Hellstrom WJG. Sex and the infertile male. Semin Reprod Med. 2009 Mar;27(2):186-190.
- **Raynor MC**, Carson CC, Pearson MD, Nix JW. Androgen deficiency in the aging male: A guide to diagnosis and testosterone replacement therapy. Can J Urol. 2007 Dec;14(1) Suppl:63-8.
- **Raynor MC**, Carson CC. Androgen deficiency in the aging male: A guide to diagnosis and testosterone replacement therapy. Issues in Urology. 2006 Jul/Aug;18(4):159-66.
- **Raynor MC**, Pietrobon R, Guller U, Higgins LD. Cryotherapy after ACL reconstruction: a meta-analysis. J Knee Surg. 2005 Apr;18(2):123-9.
- Chin LS, **Raynor MC**, Wei X, Chen HQ, Li L. Hrs interacts with sorting nexin 1 and regulates degradation of epidermal growth factor receptor. J Biol Chem. 2001 Mar 9;276(10):7069-78.
- Chin LS, Nugent RD, **Raynor MC**, Vavalle JP, Li L. SNIP, a novel SNAP-25-interacting protein implicated in regulated exocytosis. J Biol Chem. 2000 Jan 14;275(2):1191-200.

Chapters

- **Raynor MC**, Pinsky MR, Chawla A, Hellstrom WJG. "Androgen Deficiency". In Cancer and Sexual Medicine. Mulhall J. 2011.
- **Raynor MC**, Hellstrom WJ. "Treatment of Erectile Dysfunction". In Handbook of Andrology, 2nd Edition. Robaire B, Chan P. 2008.
- **Raynor MC**, Lee BR. "Urolithiasis", "Urolithiasis – Staghorn", and "Ureteral Trauma". In 5-minute Urology Consult. Gomella L. 2008.

- Gurkan L, **Raynor MC**, Hellstrom WJG. "Surgery for Erectile Dysfunction". In Clinical Andrology: EAU/ESAU course guidelines. Weidner W, et al. In print.

Presentations/Abstracts

- Langston J, Selph JP, Manvar A, Ferguson J, Sawh S, Smith AB, **Raynor MC**, Nielsen ME, Carson CC, Pruthi RS. Clinical and pathologic differences between patients undergoing TURBT for newly-diagnosed versus recurrent bladder lesions detected by cystoscopy. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- Selph JP, Langston J, Martin A, Smith AB, Sawh S, **Raynor MC**, Nielsen ME, Wallen EM, Castle EP, Pruthi RS. Robotic radical cystectomy: medium-term oncologic follow-up. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- Langston J, Selph JP, Ferguson J, Manvar A, Smith AB, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Robotic-assisted laparoscopic prostatectomy: evaluation of the functional and oncologic learning curve. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- Langston J, Selph JP, Ferguson J, Manvar A, Smith AB, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. The evaluation of the learning curve associated with robotic radical cystectomy: initial 100 cases. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- Selph JP, Langston J, Martin A, Smith AB, Sawh S, **Raynor MC**, Nielsen ME, Wallen EM, Castle EP, Pruthi RS. Oncologic outcomes for node-positive patients undergoing robotic radical cystectomy. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- Langston J, Selph JP, Ferguson J, Manvar A, Sawh S, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Cost analysis of robot-assisted versus laparoscopic versus open partial nephrectomy. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- **Raynor MC**, McKim S, Nielsen ME, Wallen EM, Pruthi RS. Elimination of bowel preparation in patients undergoing cystectomy and urinary diversion. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- **Raynor MC**, Dray E, Smith A, McKim S, Nielsen ME, Wallen EM, Pruthi RS. The impact of radical cystectomy on renal function: an analysis of variance based on age, gender, race, and diversion technique. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- **Raynor MC**, Smith A, Amling C, Busby JE, Castle EP, Davis R, Nielsen ME, Thomas R, Wallen EM, Pruthi RS. Complications associated with robot-assisted radical cystectomy for bladder cancer: a multi-institutional analysis. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- Sawh S, **Raynor MC**, McKim S, Nielsen ME, Wallen EM, Pruthi RS. Does robot-assisted radical cystectomy for bladder cancer affect long-term health-related quality of life? American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- Sawh S, McKim S, Smith A, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Robot-assisted laparoscopic radical prostatectomy: evaluation of the functional and oncologic learning curve. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.

- Sawh S, McKim S, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Evaluation of the learning curve associated with robotic radical cystectomy: initial 100 cases. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- McKim S, Smith A, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Does the time of year affect outcomes after robot-assisted radical prostatectomy? American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- McKim S, Smith A, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Does the time of day or day of the week affect outcomes after robot-assisted radical prostatectomy? American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- McKim S, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Robot-assisted laparoscopic intracorporeal urinary diversion. American College of Surgeons Annual Clinical Congress. Washington, DC. 2010.
- **Raynor MC**, McKim S, Nielsen ME, Wallen EM, Pruthi RS. Feasibility and outcomes of robot-assisted laparoscopic radical cystectomy for bladder cancer in the elderly. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- **Raynor MC**, Smith A, Amling C, Busby JE, Castle EP, Davis R, Nielsen ME, Thomas R, Wallen EM, Pruthi RS. Multi-institutional analysis of robot-assisted radical cystectomy for bladder cancer: perioperative outcomes in 227 patients. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- **Raynor MC**, Smith A, Amling C, Busby JE, Castle EP, Davis R, Nielsen ME, Thomas R, Wallen EM, Pruthi RS. Does obesity impact patient outcomes in patients undergoing robot-assisted radical cystectomy for bladder cancer: a multi-institutional analysis. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- McKim S, Belsante J, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Preliminary experience with prostate-sparing cystectomy for urothelial carcinoma of the bladder. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- McKim S, Smith A, **Raynor MC**, Nielsen ME, Wallen EM, Pruthi RS. Robot-assisted laparoscopic intracorporeal urinary diversion. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- Dray E, **Raynor MC**, Smith A, McKim S, Nielsen ME, Wallen EM, Pruthi RS. The impact of radical cystectomy on renal function: an analysis of variance based on age, gender, race, and diversion technique. American Urological Association Annual Meeting. San Francisco, CA. 2010.
- **Raynor MC**, McKim S, Smith A, Nielsen ME, Wallen EM, Pruthi RS. Robot-assisted laparoscopic intracorporeal urinary diversion. Southeastern Section, American Urological Association Annual Meeting. Miami, FL. 2010.
- **Raynor MC**, McKim S, Nielsen ME, Wallen EM, Pruthi RS. Feasibility and outcomes of robot-assisted laparoscopic radical cystectomy for bladder cancer in the elderly. Southeastern Section, American Urological Association Annual Meeting. Miami, FL. 2010.
- **Raynor MC**, Lavien G, Simopoulos E, McKim S, Nielsen M, Wallen EM, Pruthi RS. "Elimination of bowel preparation in patients undergoing cystectomy and urinary diversion". Society of Urologic Oncology. Bethesda, MD. 2009.
- **Raynor MC**, Smith A, Amling CL, Busby JE, Castle EP, Davis R, Nielsen M, Thomas R, Wallen EM, Pruthi RS. "Multi-institutional analysis of robot-assisted

- radical cystectomy for bladder cancer: perioperative outcomes in 227 patients". Society of Urologic Oncology. Bethesda, MD. 2009.
- Bowen A, Lee BR, Oommen M, **Raynor MC**, Boyle U. "Robotic partial nephrectomy for complex and hilar lesions". World Congress of Endourology. Munich, Germany. 2009. (Video)
 - Bowen A, **Raynor MC**, Boyle U, Lee BR. "Risky business? Determination of Satinsky clamp safety zone to robotic arm during robotic partial nephrectomy". World Congress of Endourology. Munich, Germany. 2009. (Video)
 - **Raynor MC**, Bejma J, Gurkan L, Davis R, Hellstrom WJG. "Penile revascularization: A minimally-invasive approach to vessel harvesting". Southeastern Section, American Urological Association Annual Meeting. San Diego, CA. 2008.
 - Castle EP, Desai P, Andrews PE, Woods M, **Raynor MC**, Thomas R. "Tips and recommendations for deep cortical tumors during partial nephrectomy". Southeastern Section, American Urological Association Annual Meeting. San Diego, CA. 2008.
 - Castle EP, Desai P, Andrews PE, Woods M, Matern R, **Raynor MC**, Thomas R, Davis R. " Robot assisted radical cystectomy: Technical considerations to improve early outcomes and operative times with RARC, lessons learned after 30 patients". Southeastern Section, American Urological Association Annual Meeting. San Diego, CA. 2008.
 - **Raynor MC**, Woods M, Davis R, Thomas R. "Laparoscopic adrenalectomy for large tumors". Southeastern Section, American Urological Association Annual Meeting. San Diego, CA. 2008.
 - **Raynor MC**, Bejma J, Gurkan L, Davis R, Hellstrom WJG. "Penile revascularization: A minimally-invasive approach to vessel harvesting". Sexual Medicine Society of North America Annual Meeting. Chicago, IL. 2007.
 - Gurkan L, Dorsey P, **Raynor MC**, Hellstrom WJG. "Erectile dysfunction therapies after radical prostatectomy: A cost-effectiveness analysis". Sexual Medicine Society of North America Annual Meeting. Chicago, IL. 2007.
 - Cockerham YR, Gurkan L, **Raynor MC**, Hellstrom WJG. "Nursing practice: A primary care approach to intralesional injection therapy for Peyronie's disease". Sexual Medicine Society of North America Annual Meeting. Chicago, IL. 2007.
 - "Robotic pyeloplasty: A step by step approach". Louisiana State Urological Society Annual Meeting. Lafayette, LA. 2007.
 - "Establishing Peyronie's Disease in your clinical practice". Louisiana State Urological Society Annual Meeting. Lafayette, LA. 2007.
 - "Atypical scrotal mass". North Carolina Urology Residents Seminar. Winston-Salem, NC. 2006.
 - "Cryotherapy after ACL reconstruction". Centers for Excellence in Surgical Outcomes. Duke University Medical Center. 2000.
 - "Novel proteins involved in synaptic transmission". Honors Thesis. Department of Chemistry, University of North Carolina. 1998.

Lectures

- "Male Infertility". Urology Grand Rounds. March 30, 2011.
- Moderator, Bladder Cancer Podium Session. Southeastern Section, American Urological Association Annual Meeting. New Orleans, LA. 2011.
- "Management of small renal masses." General Surgery Grand Rounds. March 9, 2011.

- “Urologic Oncology”. MS3 Surgery Clerkship Lecture. October 2010.
- “Robot-assisted radical cystectomy for bladder cancer: a multi-institutional analysis. The 8th Annual Landes Symposium: Advances in Urology (UNC Continuing Medical Education). June 2010.