

CURRICULUM VITAE

August 12, 2023

Personal Information: Matthew Edward Nielsen

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Address of Clinical Investigation:

UNC Hospitals
The University of North Carolina at Chapel Hill
101 Manning Drive
Chapel Hill, NC 27599-7600

Education and Training:

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|-----------|---|
| 2019 | Advanced Training Program in Healthcare Delivery Improvement
(Accelerated version)
Intermountain Healthcare Delivery Institute
Murray, Utah |
| 2015-2017 | Postdoctoral Fellow
Mentored Training in Dissemination and Implementation Research
in Cancer (MT-DIRC; NCI Grant 1 R25 CA171994-01A1)
Washington University
St. Louis, Missouri |
| 2010-2012 | Master's of Science, Clinical Research
Department of Epidemiology
University of North Carolina Gillings School of Public Health
Chapel Hill, North Carolina |
| 2003-2008 | Resident, Brady Urological Institute
The Johns Hopkins Hospital
Baltimore, Maryland |
| 2002-2003 | Intern, Department of Surgery
The Johns Hopkins Hospital
Baltimore, Maryland |

- 1998-2002 M.D.
The Johns Hopkins University School of Medicine
Baltimore, Maryland
- 1993-1998 B.A., with Distinction
American Studies—Emphasis in Health Policy and Law
University of Kansas
Lawrence, Kansas

Professional Experience

Academic Appointments

- 2021-present John Sloan Rhodes and John Flint Rhodes Distinguished Professor
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2020-present Chair
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2020 Interim Chair (January-October 2020)
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2020-present Professor with Tenure
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2019-present Adjunct Associate Professor
Department of Health Policy and Management
UNC Chapel Hill Gillings School of Global Public Health
Chapel Hill, North Carolina
- 2015-2020 Associate Professor with Tenure
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2015-present Adjunct Associate Professor
Department of Epidemiology
UNC Chapel Hill Gillings School of Global Public Health
Chapel Hill, North Carolina

2014-2019	Adjunct Assistant Professor Department of Health Policy and Management UNC Chapel Hill Gillings School of Global Public Health Chapel Hill, North Carolina
2012-2015	Adjunct Assistant Professor Department of Epidemiology UNC Chapel Hill Gillings School of Global Public Health Chapel Hill, North Carolina
2013-2015	Assistant Professor Department of Urology UNC Chapel Hill School of Medicine Chapel Hill, North Carolina
2009-2013	Assistant Professor Department of Surgery, Division of Urology UNC Chapel Hill School of Medicine Chapel Hill, North Carolina
12/08-3/09	Visiting Assistant Professor Department of Surgery, Division of Urology UNC Chapel Hill School of Medicine Chapel Hill, North Carolina
06/08-12/08	Instructor James Buchanan Brady Urological Institute Johns Hopkins Medical Institutions Baltimore, Maryland

Additional Appointments—Extramural

2022-present	Chair, Science and Quality Council
2019-2022	Chair, Quality Improvement and Patient Safety Committee American Urological Association Linthicum, Maryland
2014-present	Clinical Investigator Kaiser Permanente Center for Health Research Health Care Systems Research Network Kaiser Permanente Northwest Portland, Oregon
2013-present	Consultant Urologist High Value Care Task Force American College of Physicians Philadelphia, Pennsylvania

Additional Appointments—Intramural

- 2022-present Physician Executive Lead: Digital/Virtual Transformation
Core Transformation Work Group
UNC Health Care System
- 2021-present Director of Quality
UNC Faculty Physicians
UNC School of Medicine
- 2019-2020 Vice Chair for Strategy and Academic Affairs
Department of Urology
UNC School of Medicine
- 2018-2021 Associate Director
2014-present Core Faculty Member
Institute for Healthcare Quality Improvement
UNC Health Care System
Chapel Hill, North Carolina
- 2013-2018 Director
Division of Urologic Oncology
Department of Urology
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina
- 2017-2021 Physician Lead for Surgical Services
Opioid Stewardship Initiative
UNC Health Care System
Chapel Hill, North Carolina
- 2016-present Faculty Preceptor
Cancer Control Education Program (Kurt Ribisl, PI)
National Institutes of Health Grant R25CA057726
UNC Lineberger Comprehensive Cancer Center
Chapel Hill, North Carolina
- 2009-2021 Physician Service Line Leader for Urology
Inpatient Patient Safety and Quality Improvement Program
UNC Memorial Hospital
Chapel Hill, North Carolina
- 2009-present Research Mentor / Program Faculty
Cancer Care Quality Training Program (Ethan Basch, PI)
National Institutes of Health Grant 1R25CA116339
Department of Health Policy and Management
UNC Chapel Hill Gillings School of Global Public Health

Chapel Hill, North Carolina

2009-present Research Fellow
Cecil G. Sheps Center for Health Services Research
UNC Chapel Hill
Chapel Hill, North Carolina

2009-present Clinical Research Program Member
Lineberger Comprehensive Cancer Center
UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina

Honors and Awards

- H. Fleming Fuller Award, UNC Health Care, 2022
- Young Urologist of the Year, American Urological Association Young Urologists Committee, 2018
- Elected by peers for inclusion in Best Doctors in America[®], 2013-2021
- Castle Connolly Top Doctors, 2017-2023
- UNC Health Care Medical Friend of Nursing Award, 2017
- North Carolina's Best Doctors, *Business North Carolina* magazine, 2012-2023
- UNC Faculty Physicians Award for Carolina Care Excellence [top quartile nationally of Clinician and Group Consumer Assessment in Healthcare Providers and Systems (CG-CAHPS) survey], 2016-2018
- Vitals.com Patients' Choice and Compassionate Doctor Awards, 2015
- Urology Care Foundation / Astellas Rising Stars in Urology Research Award, 2013-2016
- Mentor for Surgical Outcomes Club Zinner Health Services Research Fellowship, 2015-16
- Best Video, BJU International Social Media Awards, 2015
- Urology Attending of the Year, presented by the UNC Department of Urology Residents, 2014
- American College of Surgeons Mentorship Program, 2013-14

- Who's Who in North American Education, 2012-13
- American Urological Association Leadership Program, 2012-13
- National Institutes of Health Loan Repayment Program, Competing Renewal 2012-2015
- Best Reviewer, Bladder and Kidney Cancer, *Journal of Urology*, 2012
- Fellow, American College of Surgeons, 2012
- Best Poster, Superficial bladder cancer moderated poster session II, 2012, American Urological Association National Meeting
- National Institutes of Health Loan Repayment Program Award, 2010-2012
- 3rd Prize, AUA / Gyrus ACMI Clinical Research Essay Contest, 2008, American Urological Association National Meeting
- American Society for Clinical Oncology (ASCO) Merit Award, 2007
- 1st Prize Podium Presentation, The Maryland Urological Meeting, Baltimore, Maryland, 2007
- 2nd Prize, Pfizer Resident Clinical Research Essay Competition, 2006, Mid-Atlantic Section of the American Urological Association
- Alpha Omega Alpha, 2002, Johns Hopkins University School of Medicine
- Student Research Scholar, 2001, American Foundation for Urologic Diseases
- Harold Lamport Medical Student Research Prize, 2001, Johns Hopkins University School of Medicine
- Phi Beta Kappa, 1998, University of Kansas
- J. Michael Young Undergraduate Research Award, 1997, University of Kansas Honors Program
- Summerfield Scholarship for Excellence in Biomedical Sciences, 1996, University of Kansas
- Kansas Health Institute Health Policy and Law Summer Scholar, 1996

PROFESSIONAL SERVICE

International Activities

- International Steering Committee, Transurethral Resection and Single instillation intra-vesical chemotherapy Evaluation in bladder Cancer Treatment (RESECT) Improvement Study. British Urology Registrars in Surgical Training (BURST) Collaborative, 2020-present
- United States National Coordinator, IDENTIFY (The Investigation and Detection of urological Neoplasia in patients referred for suspected urinary tract cancer: a multicenter analysis) Study. British Urology Researchers in Surgical Training (BURST), 2018-2021
- High Value Practice Academic Alliance (hypaa.org), 2017-present
 - Co-Director, National Dissemination of Opioid Stewardship (partnership with American Hospital Association), 2019-present
 - Co-Director, Cross-Institutional Quality Improvement Implementation Committee, 2018-present
 - UNC School of Medicine Faculty Representative, 2017-2020
- Member, Writing Committee, International Society of Geriatric Oncology (SIOG) Task Force on the Treatment of Bladder Cancer in Older Adults, 2016-2020

National Activities

- National Quality Forum Diagnostic Excellence Committee, 2023-present
- Reconsidering Race in Clinical Algorithms: Driving Equity through New Models in Research and Implementation (Invited Participant). National Academy of Medicine / Doris Duke Foundation / Gordon and Betty Moore Foundation / Council of Medical Specialty Societies. June 27, 2023
- Council of Medical Specialty Societies Registry Science and Research Initiative Workgroup, 2022-present
- American Urological Association
 - Chair, Science and Quality Council, 2022-present
 - Chair, Quality Improvement and Patient Safety Committee, 2019-2022
 - Ex Officio member, AUA Practice Guidelines Committee, 2019-present
 - Ex Officio member, AUA Data Committee, 2019-present
 - Chair, 2017 Quality Improvement Summit, Challenges and Opportunities for Stewardship of Urological Imaging
 - Regulatory Working Group, 2017-present
 - AQUA Qualified Clinical Data Registry Executive Workgroup, 2015-present

- Electronic Medical Records Decision Support and Telemedicine Integration Working Group, 2014-2019
- AUA Representative, Physicians' Electronic Health Record Consortium, 2014-2018
- AUA Representative, Alliance of Specialty Medicine Physician Policy Roundtable on Accountable Care Organizations and Alternative Payment Models, Washington, DC, October 31, 2013
- U.S. News & World Report Medical Editorial Review Board, 2021-present
- Association of Women Surgeons Coaching Program, 2020-2021
- #HeForShe Committee, Association of Women Surgeons, 2019-2022
- Technical Expert Panel, Centers for Medicare and Medicaid Services (CMS) Quality Measure Development Plan (MDP) and Quality Measure Index (QMI), 2019-2022
- American Urological Association Asymptomatic Microhematuria Guideline Panel Member, 2018-2020
- Technical Expert Panel (TEP), "Defining and Rewarding Computed Tomography Quality and Safety" (DR CTQS) Quality Measure Development, Center for Medicare and Medicaid Services, 2018-2021
- External Peer Reviewer, Michigan Urological Surgery Improvement Collaborative (MUSIC) Videos to Identify Developmental and Educational Opportunities (VIDEO) radical prostatectomy project, 2018-present
- American College of Physicians
 - Performance Measurement Committee, 2018-2020
 - Consultant Urologist, High Value Care Task Force, 2013-present
- National Cancer Institute, Surveillance, Epidemiology and End Results (SEER) Registry Bladder Cancer Workgroup, 2015-present
- Physician Consortium for Performance Improvement (PCPI), 2013-2019
 - Representative from the Council for Medical Specialty Societies (CMSS), 2015-2019
 - Member, Outcomes Ad Hoc Committee, 2013-2015
- Bladder Cancer Advocacy Network (BCAN), 2009-present
 - Chair, Think Tank Planning Committee, 2016-2017
 - Co-Chair, Think Tank Planning Committee, 2015-2016
 - Annual Think Tank Steering Committee, 2013-2017
 - Patient Centered Outcomes and Policy Working Group, 2012-2017

- Non-muscle-invasive bladder cancer working group, 2009-2012
- Scientific Advisory Board Member, 2009-2017
- Quality in Patient Care Subcommittee, American College of Surgeons Committee on Surgical Palliative Care. 2014-present
- External Reviewer, Localized Prostate Cancer: American Urological Association / Society of Urologic Oncology / American Society for Therapeutic Radiation in Oncology / American Society of Clinical Oncology (AUA/SUO/ASTRO/ASCO) Guideline, 2016
- External Advisory Board, University of Michigan Dow Division of Urological Health Services Research HSR Symposium, 2016
- External Reviewer, Diagnosis and Treatment of Non-metastatic Muscle-Invasive Bladder Cancer: AUA/SUO/ASTRO/ASCO Guideline, 2016
- External Reviewer, Diagnosis and Treatment of Non-Muscle Invasive Bladder Cancer: American Urological Association/Society of Urologic Oncology (AUA/SUO) Guideline, 2016
- Moderator, Socioeconomics, Health Services and Outcomes Research Moderated Poster session, American Urological Association meeting, May 16, 2014
- Society for Medical Decision Making, Membership Committee, 2013-2015
- Leadership Program, American Urological Association, 2012-2013
- Genitourinary Surgery Subcommittee, Cancer and Leukemia Group B (CALGB), 2009-2011

Regional Activities

- Physician Advisory Panel for Oncology Alternative Payment Model, Blue Cross Blue Shield of North Carolina, 2019-2021
- North Carolina Advisory Committee on Cancer Control and Coordination (appointed by Governor Roy Cooper), 2018-2021
- North Carolina Hospital Association Coalition for Model Opioid Practices, Prevention Workgroup, 2017-2020
- American Urological Association Southeastern Section, Board of Directors, North Carolina Alternate Representative, 2013-2020

- Medical Advisor and co-Founder, Triangle Bladder Cancer Support Group (monthly), Chapel Hill, North Carolina, September 2010-present
- Urology Physician Advisory Panel for Specialty Tiering Product, Blue Cross Blue Shield of North Carolina, 2019
- Co-Chair, North Carolina Kidney Cancer Association Patient Forum, Chapel Hill, NC, December 12, 2015
- Medical Advisor, Prostate Cancer Coalition of North Carolina, 2009-2013
- North Carolina Oncology Association, At-Large Executive Board Member, 2010-2012
- Program Planning Committee Member, North Carolina Oncology Association Membership Meeting, August 12-13, 2011.
- Faculty Chair, Bladder Cancer Advocacy Network Patient Forum, Chapel Hill, North Carolina, May 15, 2010.

Institutional Activities

- UNC Medical Center Integrated Planning Team, Physician Executive Lead for Quality and Safety, 2022-present
- UNC Health Care System Core Transformation Workgroup, Physician Executive Lead for Digital Transformation, 2022-present
- UNC Health Care System Enterprise Risk Management, Physician Executive Sponsor for Radiological Incidental Findings Improvement Initiative, 2021-present
- UNC Faculty Physicians
 - Advanced Practice Provider Steering Committee, 2022-present
 - Executive Team, Director of Quality and Patient Safety, 2021-present
 - Clinical Department Chairs' Liaison to the UNC Medical Center Improvement Council, 2021-present
 - Executive Committee, 2021-present
 - Compensation Committee, 2021-present
 - Clinical Chair Representative, UNC School of Medicine Nominating Committee, 2021-present
- UNC Lineberger Comprehensive Cancer Center Team Science Initiative Working Group, 2021-present

- Surgical Services Physician Lead, Blood Product Optimization Program, UNC Health Care System Care Redesign Initiative, 2020-present
- UNC Health COVID Vaccine Implementation Team, UNC Faculty Practice Chair Representative, 2020-2021
- Dean's Advisory Committee, UNC School of Medicine, 2020-present
- UNC Faculty Physicians Board, 2020-present
- UNC Hospitals Medical Staff Executive Committee, 2020-present
- Search Committee, Associate Dean for Leadership Development, UNC School of Medicine, 2020
- UNC School of Medicine COVID Surge Planning Provider Redeployment Core Team, March-July 2020
- Associate Director, Institute for Healthcare Quality Improvement, UNC Health Care System, 2018-2021
- Cancer Care Quality and Value Council, UNC Health Care System, 2018-present
- Surgical Services Physician Lead, Systemwide Opioid Stewardship Project, UNC Health Care System, 2018-present
- Professionalism and Patient Complaint Monitoring Committee, UNC Health Care System, 2018-present
- Physician Faculty, UNC Health Care System Improvement Leaders Program, 2018-2020
- Surgical Services Physician Lead, Opioid Stewardship Project, UNC Medical Center, 2017-present
- Performance Metrics and Quality Committee Member, UNC Health Alliance, 2016-present
- Physician Executive Sponsor, Catheter-associated Urinary Tract Infection (CAUTI) Improvement Initiative, UNC Health Care System, 2015-present
27% reduction in CAUTI from CY2015-CY2016 (exceeded target of 5% reduction; 1.52 CAUTI / 1000 catheter-days)
- Survivorship Program Advisory Board Member (quarterly), UNC Lineberger Comprehensive Cancer Center, 2014-present

- Wound, Ostomy, and Continence Committee; Surgical Services, UNC Health Care System (quarterly), 2013-present
- Medical Student Career Goals Advisor for Urology, UNC School of Medicine, 2012-present
- Physician Service Leader for Institutional Performance Improvement (weekly), UNC Urology service, 2009-2021
- Five-year Review Committee, Anesthesia Department Chair, UNC School of Medicine, 2018
- Physician Advisor for Clinical Documentation Integrity Project, UNC Health Care System Surgical Services, (weekly) 2012-2018
- Alpha Omega Alpha Honor Medical Society Admissions Committee member (annual), UNC Chapel Hill School of Medicine, 2013-2016
- Integrated Cancer Information and Surveillance System (ICISS) Steering Committee, Carolina Cancer Outcomes Research Program, UNC Lineberger Comprehensive Cancer Center (quarterly), 2013-2016
- Search Committee Chair, Open Rank Permanent Faculty position, UNC Department of Urology, 2015
- Search Committee Member, Director of Division of Abdominal Imaging, UNC Department of Radiology, 2015
- EPIC Electronic Medical Record Transition Physician Advisory Council, UNC Health Care System, (bi-weekly), 2013-2014
- ICD-10 Implementation Task Force Leadership Team, UNC Health Care System, (monthly), 2013-2014
- Peer Review Committee (quarterly), UNC Department of Surgery 2011-2013
- Oncology Protocol Review Committee (quarterly), Lineberger Comprehensive Cancer Center, UNC Chapel Hill School of Medicine, 2009-2016
- Judge, Graduate student poster contest, Translational Medicine Symposium, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC, April 17, 2013
- Project Leader for Urology Medical Student Recruitment, Education and Curriculum Development Initiative, supported by the Lester Persky Endowment for Urology Research, Johns Hopkins Hospital, 2006-2008

- Resident Representative for Urology Department Faculty Meeting, Johns Hopkins Hospital, 2006-2008
- Urology Department Project Leader for Electronic Provider Order Entry (POE) implementation, Johns Hopkins Hospital, 2006
- Urology Department Representative, Johns Hopkins Hospital House Staff Council, 2005-2006
- Resident Representative, Johns Hopkins Hospital Radiation Oncology Internal Program Review, 2005
- Student Representative, Johns Hopkins University School of Medicine Admissions Committee, 2001-2002

BIBLIOGRAPHY

[*asterisk denotes mentee first author (resident/fellow/graduate student/junior faculty)]

Clinical Guidelines:

1. Barocas DA, Boorjian SA, Alvarez RD, Downs TM, Gross CP, Hamilton BD, Kobashi KC, Lipman RR, Lotan Y, Ng CK, **Nielsen ME**, Peterson AC, Raman JD, Smith-Bindman R, and Souter LH (2020). Microhematuria: American Urological Association Guideline. *J Urol*, 204(4): 778-786. PMID: 32698717
2. Mottet N, Ribal MJ, Boyle H, De Santis M, Caillet P, Choudhury A, Garg T, **Nielsen M**, Wuthrich P, Gust KM, Shariat SF, Gakis G, and Jocaille L (2020). Management of bladder cancer in older patients: position paper of a SIOG task force. *J Geriatric Oncology* 11(7): 1043-1053 PMID 32057720
3. **Nielsen ME**, Qaseem A; High Value Care Task Force of the American College of Physicians (2016). Hematuria as a marker of occult urinary tract malignancy: Advice for High Value Care from the American College of Physicians. *Annals Int Med*. 164(7): 488-97. PMID: 26810935

Peer-Reviewed Original Research

Scopus Author ID: 9234222100 | ORCID 0000-0002-7853-9095

H-index 42, i10-index 62 | Total citations 6032 (via Google Scholar <http://ow.ly/oVWt30rsjfb> 1/2023)

1. Gallagher K*, Bhatt N, Clement K, Zimmerman E, Khadhour S, MacLennan S, Kulkarni M, Gaba F, Anbarasan T, Asif A, Light A, Chan V, Nathan A, Cooper D, Aucott L, Marcq G, Teoh JY, Hensley P, Duncan E, Goulao B, O'Brien T, **Nielsen M**, Mariappan P, and Kasivisvanathan V (2023). Audit, feedback, and education to improve quality and outcomes in nonmuscle invasive bladder cancer treatment: Protocol for a multicenter international observational study with an embedded cluster randomized trial. *JMIR Res Protoc* 12:242254. PMID: 37318875

2. Birken SA, Matulewicz R, Pathak R, Wagi CR, Peluso AG, Bundy R, Witek L, Krol B, Parchman ML, **Nielsen ME**, and Dharod A (2023). Toward the de-implementation of computed tomography urogram for patients with low- to intermediate-risk microscopic hematuria: A mixed-method study of factors influencing continued use. *Urology Practice* Online ahead of print. PMID: 37318875
3. Entzel P*, **Nielsen M**, Weiss S, Park Y, Lu R, Baskin-Miller J, Hutchinson B, Obioma P, An X, and Balfanz G (2023). How do I reduce variation in red blood cell transfusion practices in a large integrated health care system? *Transfusion* 63(6): 1113-1121. PMID: 37190781
4. Chadwick SJ*, Dave O, Frisbie J, Scales CD, **Nielsen ME**, and Friedlander DF (2023). Incidence and cost of potentially avoidable emergency department visits for renal colic. *Am J Managed Care* (in press). 16 typed pages
5. Tan HJ*, Chung AE, Gotz D, Deal AM, Heiling HM, Teal R, Vu M, Meeks WD, Fang R, Bennett AV, **Nielsen ME**, and Basch EM. (2023) Electronic health record use and perceptions among urologic surgeons. *Applied Clinical Informatics*. 14: 279-289. PMID: 37044288
6. Song L, Keyserling T, Chen R, Ma C, Xu S, Shieh K, Fuller G, **Nielsen ME**, Northouse L, Tan X, and Rini C (2023). Role, race, and place: Prostate cancer disparities in patients' and partners' health outcomes and psychosocial factors. Online ahead of print, *Cancer Medicine*. PMID: 36748581
7. Khadouri S*, Gallagher KM, MacKenzie KR, Shah TT, Gao C, Moore S, Zimmerman EF, Edison E, Jefferies M, Nambiar A, Anbarsan T, Mannas MP, Lee T, Marra G, Gomez Rivas J, Marcq G, Assmus MA, Ucar T, Claps F, Boltri M, La Montagna G, Burnhope T, Nkwam N, Austin T, Boxall NE, Downey AP, Sukhu TA*, Anton-Juanilla M, Rai S, Chin YF, Moore M, Drake T, Green JSA, Goulao B, MacLennan G, **Nielsen M**, McGrath JS, Kasivisvanathan V; IDENTIFY Study group (2022). Developing a diagnostic multivariable prediction model for urinary tract cancer in patients referred with haematuria: Results from the IDENTIFY Collaborative Study. *Eur Urol Focus*, S2405-4569(22)00129-8. PMID 35760722
8. Hwang S*, Birken SA, **Nielsen ME**, Elston-Lafata J, Wheeler SB, and Spees LP (2022). Understanding the multilevel determinants of clinicians' imaging decision-making: Setting the stage for de-implementation of low-value imaging. *BMC Health Services Research*. 22(1): 1232. PMID 36199082 PMCID PMC9535949
9. Jung A*, Crandell J, **Nielsen M**, Smith S, Bryant A, and Mayer D (2022). Relationships among uncertainty, post-traumatic stress disorder symptoms, and quality of life in non-muscle invasive bladder cancer survivors. *Supportive Care in Cancer*, 30(7): 6175-6185. PMID: 35437672
10. Oseni T, Bridget K, Pei K, **Nielsen M**, Erdahl L, Pitt SC, Diego E, Mouawad N, and Stein S (2022). Diversity efforts in surgery: Are we there yet? *Am J Surgery*, 224(1 Pt B): 259-263 PMID 35131086

11. Song L, **Nielsen ME**, Chen RC, Rini C, Keyserling TC, Idiagbonya E, Fuller GP, Northouse L, Palmer MH & Tan XM. (2022). Testing the Efficacy of a Couple-Focused, Tailored eHealth Intervention for Symptom Self-Management Among Men with Prostate Cancer and Their Partners: The Study Protocol. *Trials*. 23(1):12. PMID 34983621
12. Rose TL, Harrison M, Deal AM, Ramalingam S, Whang YE, Brower B, Dunn MW, Osterman CK, Heiling HM, Bjurlin MA, Smith AB, **Nielsen ME**, Tan HJ, Wallen EM, Woods ME, George D, Zhang T, Drier A, Kim WY, and Milowsky MI (2021). Phase II study of gemcitabine and split-dose cisplatin plus pembrolizumab as neoadjuvant therapy prior to radical cystectomy in patients with muscle-invasive bladder cancer. *J Clin Oncol* 39(28): 3140-3148. PMID: 34428076
13. Garg T*, Johns A, Young AJ, **Nielsen ME**, Tan HJ, McMullen CK, Cohen H, Johns AM, Kirchner HL, Cohen H, and Murphy T (2021). Geriatric conditions and treatment burden following diagnosis of non-muscle-invasive bladder cancer in older adults: A population-based analysis. *J Geri Oncology*, 12(7): 1022-1030. PMID 33972184
14. Khadouri S*, Gallagher KM, MacKenzie KR, Shah TT, Gao C, Moore S, Zimmerman EF, Edison E, Jefferies M, Nambiar A, Mannas MP, Lee T, Marra G, Lillaz B, Gomez Rivas J, Olivier J, Assmus MA, Ucar T, Claps F, Boltri M, Burnhope T, Nkwam N, Tanasescu G, Boxall NE, Downey AP, Lal AA, Anton-Juanilla M, Clarke H, Hw Lau D, Gillams K, Crockett M, **Nielsen M**, Takwongi Y, Chuchu N, O'Rourke J, MacLennan G, McGrath JS, Kasivisvanathan V; IDENTIFY Study group (2021). The IDENTIFY Study: The investigation and detection of urological neoplasia in patients referred with suspected urinary tract cancer—a multicentre observational study. *BJU Int* 128(4): 440-450. PMID: 33991045
15. Rose TL, Weir WH, Mayhew GM, Shibata Y, Eulitt P, Uronis JM, Zhou M, **Nielsen M**, Smith AB, Woods M, Hayward MC, Salazar AH, Milowsky MI, Wobker SE, McGinty K, Millburn MV, Eisner JR and Kim WY (2021). Fibroblast growth factor receptor 3 alterations and response to immune checkpoint inhibition in metastatic urothelial carcinoma: A real world experience. *Br J Cancer*, 125(9): 1251-1260. PMID: 34294892
16. Noone AM, Lam CJK, Smith AB, **Nielsen ME**, Boyd E, Mariotto AB, and Banerjee M (2021). Machine learning methods to identify missing cases of bladder cancer in population-based registries. *JCO Clinical Informatics* 5:641-653 PMID: 34097440
17. Damrauer JS, Roell K, Smith MA, Sun X, Kirk EL, Hoadley KA, Benefield HC, Iyer G, Solit DB, Milowsky MI, Kim WY, **Nielsen ME**, Wobker SE, Dalbagni G, Al-Ahmadie HA, Olshan A, Bochner BH, Furberg H, Troester MA, and Pietzak EJ (2021). Identification of a novel inflamed tumor microenvironment signature as a predictive biomarker of bacillus Calmette-Guerin immunotherapy in non-muscle invasive bladder cancer. *Clin Cancer Res* 27(16): 4599-4609. PMID: 34117034

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19. Garg T*, McMullen CK, Leo MC, O’Keefe-Rosetti M, Weinmann S, and **Nielsen ME** (2021). Predicting risk of multiple levels of recurrence and progression after initial diagnosis of non-muscle-invasive bladder cancer in a multi-site, community-based cohort. *Cancer*. 127(4): 520-7. PMID: 33146913
20. McMahon S*, Basak R, Zhou X, Smith AB, Song L, Pruthi RS, Wallen EM, **Nielsen ME**, and Tan HJ (2021). Patient-reported health status, comorbidity burden, and prostate cancer treatment. *Urology* 149: 103-109. PMID: 33352164 PMCID: PMC7940590
21. Jung A*, Crandell J, **Nielsen ME**, Smith SK and Mayer DK (2021). Post-traumatic stress disorder symptoms in non-muscle-invasive bladder cancer survivors: A population-based study. *Urol Oncol*. 39(4): 237.e7-237.e14. PMID: 33308978
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23. Wallis CJD*, Sayyid R, Manyevitch R, Perlis N, Lokeshwar VB, Fleshner NE, Terris MK, **Nielsen ME**, and Klaassen Z (2021). Diagnostic utility of axial imaging in the evaluation of hematuria: A systematic review and critical appraisal of the literature. *Can Urol Assoc J*, 15(2): 48-55. PMID: 32745004
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4. Ferguson J*, **Nielsen ME**, Wallen EM and Pruthi RS (2013). Racial disparities and the global picture, in *Prostate Cancer: A Comprehensive Perspective*, Tewari A (Ed.), Springer, Chapter 24, 17 typed pages. ISBN 978-1-4471-2864-9
5. Nix J*, **Nielsen ME**, Wallen EM and Pruthi RS (2011). Robotic anterior exenteration in females: Technique, current status and outcomes, in *Robotics in Genitourinary Surgery*, Menon M and Hemal A (Eds.), Springer, pp. 511-522. ISBN 978-1-84882-114-9
6. Schaeffer EM, **Nielsen ME**, Gonzalgo ML and Schoenberg MP (2006): Nerve-sparing radical cystoprostatectomy, in *Bladder Cancer: Diagnosis, Therapeutics and Management*, Lee CT and Wood DP (Eds.), Humana Press. pp. 169-77. ISBN 978-1-59745-417-9
7. **Nielsen ME** and Partin AW (2005): The role of complexed PSA (cPSA) in prostate cancer screening, in *Prostate Biopsy: Indications, Techniques and Complications*, Klein EA, ed. Contemporary Clinical Urology Series, Humana Press. pp. 29-41. ISBN 978-1-60327-078-6.
8. **Nielsen ME** (2005): Genitourinary trauma, in *The Brady Urology Manual*, Parsons JK and Wright EJ, eds. Taylor and Francis Books. pp. 263-272. ISBN: 1841844810
9. **Nielsen ME** and Wright EJ (2005): Neurourology, urodynamics and urogynecology, in *The Brady Urology Manual*, Parsons JK and Wright EJ, eds. Taylor and Francis Books. pp. 63-70. ISBN: 1841844810

10. Miles-Thomas JU, **Nielsen ME** and Nelson CP (2005): Pediatric genitourinary oncology, in *The Brady Urology Manual*, Parsons JK and Wright EJ, eds. Taylor and Francis Books. pp. 245-56 ISBN: 1841844810
11. **Nielsen ME** (2005): Interstitial cystitis and chronic pelvic pain, in *The Brady Urology Manual*, Parsons JK and Wright EJ, eds. Taylor and Francis Books. pp. 85-93. ISBN: 1841844810

Performance Measure Recommendations from The American College of Physicians Performance Measurement Committee

Writing Committee: Nick Fitterman, MD (Chair); J. Thomas Cross, MD, MPH (Vice Chair); Steven M. Asch, MD, MPH; Eileen Barrett, MD, MPH; Peter Basch, MD; Robert Centor, MD; Catherine MacLean, MD, PhD; **Matthew E. Nielsen, MD, MS**; Robert Pendleton, MD; Laura A. Petersen, MD, MPH; Sameer D. Saini, MD, MS; Paul Shekelle, MD, MPH, PhD; Sandeep Vijan, MD, MS; Sarah J. Dinwiddie, RN, MSN, and Amir Qaseem, MD, PhD

1. Centers for Medicare and Medicaid Services 2019 Merit-Based Incentive Payment System: A Review of the Performance Measures on Cancer Screening, Coronary Artery Disease, Inflammatory Bowel Disease, Diabetes, HIV, Ischemic Vascular Disease, Obstructive Sleep Apnea, Osteoporosis, Pain Assessment/Management, Psoriasis, Schizophrenia, and Vaccination by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/pmc-recommendations-nov18.pdf
2. Care Coordination: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-care-coordination-review-2018.pdf
3. Hospital Acquired Infections: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-hospital-acquired-infections.pdf
4. Hypertension: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-hypertension-2018.pdf
5. Heart Failure: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-heart-failure-2018.pdf
6. Sepsis: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians

https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-sepsis.pdf

7. Substance Use: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-substance-use-review.pdf
8. Venous Thromboembolism: Review of the Performance Measures by the Performance Measurement Committee of the American College of Physicians
https://www.acponline.org/system/files/documents/clinical_information/performance_measurement/measures/preventive-care-vte-review.pdf

No presentations below were sponsored by outside entities

Visiting Professorships

- Hiding in Plain Sight: Prostate Cancer and Health Equity. The Brady Urological Institute of the Johns Hopkins Hospital, Baltimore, Maryland. May 31-June 1, 2023
- Hematuria as a Marker of Occult Urinary Tract Cancer: The Journey to High Value Care. Cedars-Sinai Department of Urology, Los Angeles, California (virtual due to COVID-19 pandemic). February 10, 2021
- Tradeoffs of Benefit, Harm and Cost in the Evaluation of Hematuria. New York University Department of Population Sciences, New York, New York, February 15, 2018
- Opportunities for Urologists to Lead through Stewardship. New York University Department of Urology, New York, New York, February 14, 2018
- Limiting overuse in evaluation of asymptomatic microhematuria: is there a safe way forward? (plenary) Southeastern Section of the American Urological Association Visiting Professor, Florida Urological Society Meeting, Orlando, Florida, September 3, 2017
- Stewardship of Imaging: Opportunities for Urologists to Lead. (plenary) Southeastern Section of the American Urological Association Visiting Professor, Florida Urological Society Meeting, Orlando, Florida, August 31, 2017
- Hematuria Evaluation: An Opportunity to Enhance Value? University of Michigan Department of Urology, Ann Arbor, Michigan, March 26, 2015
- Comparative Effectiveness of Surveillance Regimens for Low Risk Bladder Cancer. Dow Division of Health Services Research, University of Michigan Department of Urology, Ann Arbor, Michigan, March 25, 2015

Invited Oral Presentations

International

- Tradeoffs of Benefit, Harm and Cost in the Evaluation of H(a)ematuria. British Association of Urological Surgeons. Liverpool, England, June 27, 2018
- Needs and Opportunities for Population-based Outcomes Research in Superficial Bladder Cancer. Department of Clinical Epidemiology, Aarhus University, Aarhus, Denmark, May 12, 2012

National

- Appropriateness in Surgical Procedures. Moving from Volume to Value: A Roadmap for Health System Implementation. High Value Practice Academic Alliance National Conference. October 6, 2022. Baltimore, Maryland
- The AUA Guidelines: An Inside Perspective. Society of Urologic Oncology Young Urologic Oncologists Webinar Series (virtual due to COVID-19 pandemic). April 12, 2022
- Moving from Volume to Value: A Roadmap for Health System Implementation. High Value Practice Academic Alliance National Conference (virtual due to COVID-19 pandemic). October 7, 2021
- Cross-Mentorship of Faculty Mentees (workshop co-lead). Association of Women Surgeons He For She Committee Cross-Mentorship Workshop Series (virtual due to COVID-19 pandemic). August 9, 2021
- Hematuria: the Gateway to Bladder Cancer Diagnosis. Controversies Regarding Current Management of Patients with Hematuria, Anticipated Impact of New Guidelines, and the Future of Bladder Cancer Detection. Bladder Cancer Advocacy Network Think Tank (virtual due to COVID-19 pandemic). August 7, 2021
- Surgeons: Gatekeepers to the Opioid Epidemic? Washington State Urological Society (virtual due to COVID-19 pandemic). June 18, 2021
- AUA Science and Quality Council Update. Washington State Urological Society (virtual due to COVID-19 pandemic). June 19, 2021
- Hematuria as a Marker of Occult Urinary Tract Cancer: The Journey to High Value Care. High Value Practice Academic Alliance (virtual due to COVID-19 pandemic). March 17, 2021

- Surgeons: Gatekeepers to the Opioid Epidemic? American Hospital Association Opioid Stewardship Collaborative (virtual due to COVID-19). October 14, 2020
- Emerging Multicomponent Interventions to Address Surgeons' Contribution to the Opioid Epidemic. (plenary) Northeastern Section of the American Urological Association Annual Meeting, Syracuse, NY, September 20, 2019
- Specialty Registries and the Value Challenge. (plenary) Council of Medical Specialty Societies National Meeting, Chicago, IL, May 9, 2019
- Hematuria as a Marker of Occult Urinary Tract Cancer: Advice for High Value Care from the American College of Physicians. American College of Physicians 2019 National Meeting, Philadelphia, PA, April 11, 2019
- Multicomponent Interventions for Opioid Stewardship. American Urological Association QI Summit on Opioid Stewardship Panel Discussion, Linthicum, MD, December 8, 2018
- Thinking Outside the Box: Engagement with Professional Societies as a Platform for Impact. University of Michigan Dow Division of Health Services Research Symposium [TED format]. Ann Arbor, MI, September 14, 2018
- Surgeons: Gatekeepers to the Opioid Epidemic? American Urological Association Annual Meeting Invited Lecture. San Francisco, CA, May 19, 2018
- Challenges and Opportunities for Stewardship of Urological Imaging. American Urological Association Annual Meeting Plenary Address. San Francisco, CA, May 18, 2018
- Seeing With New Eyes: Deadoption of Potentially Harmful Established Practices. Health Care Systems Research Network Annual Meeting, Panel Discussion on Deimplementation of Low-value Care. Minneapolis, MN, April 12, 2018
- The Impact of the Electronic Health Record on Physician Burnout and the Impending Public Health Crisis. (plenary) American Urological Association Advocacy Summit Plenary Address. Washington, DC, March 13, 2018
- The Need for Physician-Led Stewardship of Imaging in Urology. (plenary) American Urological Association Quality Improvement Summit. Linthicum, MD, October 21, 2017
- BCAN Think Tank 2017: All Grown Up. (plenary) Bladder Cancer Advocacy Network Think Tank Meeting Chair. Charlotte, NC, August 3, 2017
- Surgeon-Researcher Partnerships Supporting Bladder Cancer Research Across the HCSRN: Multiple Stakeholder Perspectives on the Value of Collaboration. Health

- Care Systems Research Network National Meeting Panel. San Diego, CA, March 22, 2017
- Limiting Overuse in Asymptomatic Microhematuria Evaluation: Is There a Safe Way Forward? (plenary) Society of Urologic Oncology Winter Meeting, San Antonio, TX, December 1, 2016
 - Hematuria Evaluation: An Opportunity to Enhance the Value of Care? Geisinger Center for Health Research, Geisinger Clinic, Danville, PA, September 6, 2016
 - Financial Toxicity: An Emerging Challenge for Bladder Cancer Care (plenary). Bladder Cancer Advocacy Network Think Tank. Denver, Colorado, August 12, 2016
 - Hematuria Evaluation: An Opportunity to Enhance the Value of Care? Department of Urology, Washington University, St. Louis, MO, June 10, 2016
 - Getting Dissemination and Implementation Research Published. Panelist, Mentored Training in Dissemination and Implementation Research in Cancer (MT-DIRC), Washington University, St. Louis, MO, June 10, 2016
 - Hematuria Evaluation: An Opportunity to Enhance Value? Department of Urology, Oregon Health and Sciences University, Portland, OR, January 21, 2016
 - Hematuria Evaluation: An Opportunity to Enhance Value? Center for Health Research, Kaiser Permanente Northwest, Portland, OR, January 20, 2016
 - Active Surveillance for Prostate Cancer: Data and Outcomes (plenary). American Society for Men's Health Meeting, New Orleans, LA, May 18, 2015
 - Rising Star Report: Optimizing Survivorship and Decision-making in Low Risk Bladder Cancer (plenary). American Urological Association National Meeting, New Orleans, LA. May 17, 2015
http://www.aua2015.org/webcasts/webcast_play.cfm?videoID=1844&agendaID=7267
 - Optimizing Risk Stratification and Survivorship Care for Early Stage Bladder Cancer. Center for Health Research, Kaiser Permanente Northwest, Portland, OR, April 8, 2015
 - Implementation Science: An Emerging Field (plenary), Health Services Research Symposium, University of Michigan Department of Urology, Ann Arbor, MI, September 19, 2014
 - Unmet Clinical Needs in the Elderly: A Multidisciplinary Approach (Panel co-Chair), Bladder Cancer Advocacy Network Think Tank, San Diego, CA, August 8, 2014

- Adjuvant vs. Salvage Radiation After Prostatectomy. (plenary) University of South Florida 24th Annual Advances in Urology Meeting, Key West, FL, April 11, 2014
- Surveillance for Low Risk Bladder Cancer. (plenary) University of South Florida 24th Annual Advances in Urology Meeting, Key West, FL, April 11, 2014
- Active Surveillance for Prostate Cancer: Personalized Medicine—Are We There Yet? Southeastern Section of the American Urological Association 78th Annual Meeting, Hollywood, FL, March 20, 2014
- Bringing AUA Clinical Guidelines to Primary Care: Disseminating the AUA's Value Proposition. (plenary) American Urological Association Joint Advocacy Conference, Washington, DC, March 9, 2013
- Bladder Cancer—[Which] Elephant in the Room? Opportunities for Transformative Research. HMO Cancer Research Network / Kaiser Center for Health Research Seminar, Honolulu, Hawaii, February 8, 2013
- Active Surveillance for Prostate Cancer. American College of Surgeons Clinical Congress Panel Presentation, Chicago, Illinois, October 1, 2012
- Advances in the Treatment of Invasive Bladder Cancer. American College of Surgeons Clinical Congress Panel Presentation, San Francisco, California, October 26, 2011
- Bladder Cancer: Needs and Opportunities for Comparative Effectiveness Research. Center for Outcomes and Evidence Seminar, Agency for Healthcare Research and Quality, Rockville, Maryland, April 28, 2011

Regional

- Hiding in Plain Sight: Prostate Cancer and Health Equity. UNC Department of Urology Floyd Fried Symposium on Advances in Urology, Chapel Hill, NC, June 23, 2023
- Hiding in Plain Sight: Prostate Cancer and Health Equity. UNC Department of Medicine Grand Rounds, Chapel Hill, NC, June 15, 2023
- How to Make the Right Connections. Faculty Development Lecture Series, UNC School of Medicine Department of Anesthesia, Chapel Hill, NC, March 2, 2023
- UNC Faculty Physicians: Leading in Quality and Value. UNC School of Medicine Clinical Department Chairs Retreat, Chapel Hill, NC, November 17, 2021

- Do or Do Not, There Is No Try. Overcoming the Opioid Epidemic, UNC Rex Surgery CME Conference, Raleigh, NC, September 28, 2019
- The UNC Health Care System Opioid Stewardship Initiative. UNC Rex Healthcare Nursing Leaders Conference, Raleigh, NC, June 14, 2019
- Addressing the Opioid Crisis: Ambulatory Care Leading the Change. UNC Ambulatory Nursing Conference, Chapel Hill, NC, April 27, 2019
- Deimplementation of Low-value, Potentially Harmful Care. UNC Department of Health Policy and Management, Implementation Science and Health (HPM 767) guest lecture, Chapel Hill, NC, April 16, 2019
- The UNC Healthcare System Opioid Stewardship Initiative. UNC Rex Healthcare Lunch and Learn Seminar, Raleigh, NC, April 4, 2019
- Surgeons: Gatekeepers to the Opioid Epidemic? UNC Rex Obstetrics and Gynecology Grand Rounds, Raleigh, NC, April 4, 2019
- Surgeons: Gatekeepers to the Opioid Epidemic? Institute for Healthcare Improvement (IHI) Student Interest Group, UNC Gillings School of Global Public Health, Chapel Hill, NC, December 4, 2018
- Surgeons: Gatekeepers to the Opioid Epidemic? Raleigh Academy of Medicine Fall Symposium (Keynote speaker), Raleigh, NC, November 7, 2018
- Surgeons: Gatekeepers to the Opioid Epidemic? Fried Symposium on Advances in Urology, Chapel Hill, NC, June 22, 2018
- Optimizing Post-Surgical Prescribing Practices: Challenges and Opportunities for Addressing the Opioid Crisis. North Carolina Translational and Clinical Sciences Institute Seminar on Methods in Opioid Research, Chapel Hill, NC, June 20, 2018
- Academic Progress in the UNC Department of Urology: The First Five Years. UNC Urology Department Faculty Retreat. Chapel Hill, NC, May 4, 2018
- Surgeons: Gatekeepers to the Opioid Epidemic? Sheps Center for Health Services Research Seminar, Chapel Hill, NC, March 19, 2018
- Pill Street Blues: The Opioid Crisis in North Carolina. REX Healthcare Surgery CME Conference, Raleigh, NC, March 17, 2018
- Recognizing and Dealing With Overdiagnosis in Prostate Cancer. UNC Internal Medicine Conference, Chapel Hill, NC, March 8, 2018

- Surgeons as Gatekeepers to the Opioid Epidemic. UNC Rex Healthcare Surgical Associates, Raleigh, NC, December 7, 2017
- Challenges and Opportunities for Physician-led Stewardship of Advanced Imaging in Urology. 15th Annual Fried Symposium on Advances in Urology, Chapel Hill, NC, June 23, 2017
- Hematuria Management: An Opportunity to Improve the Value of Care? GI Epidemiology Seminar, UNC School of Medicine, Chapel Hill, NC, March 2, 2016
- Twitter and the Many Uses of Tweets. UNC Department of Health Policy and Management Educational Excellence and Innovation Seminar, Chapel Hill, NC, February 20, 2015
- Superficial Bladder Cancer Update: Surveillance of Low Risk Disease. Floyd Fried Symposium on Advances in Urology, Chapel Hill, NC, June 21, 2014
- Low Risk Bladder Cancer Surveillance: A Challenge for Patient-centered Survivorship in Geriatric Oncology. Geriatric Oncology Seminar, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC, June 12, 2014
- Comparative Effectiveness of Surveillance Regimens for Low Risk Bladder Cancer. Cancer Outcomes Research Program Seminar Series, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC, May 13, 2014
- The Brave New World of Public Surgical Quality Reporting. Carolinas Medical Center, Charlotte, NC, December 13, 2013
- Active Surveillance for Prostate Cancer. UNC Cancer Network TeleHealth Lecture Series, Chapel Hill, NC, August 28, 2013
<http://uncnc.mediasite.mcnc.org/mcnc/Play/9282694794d243358591a03d4823a0681d?catalog=9934f851-def7-4082-9e63-defa937c3583>
- The ABCs of Quality Reporting in Surgery. 11th Annual Landes Symposium, Chapel Hill, NC, June 21, 2013
- Contemporary Concepts in Prostate Cancer (Including Active Surveillance), UNC Internal Medicine CME Conference, Chapel Hill, NC, March 13, 2013
- UNC Urology Research: Past, Present and Future. Division of Urology Faculty Retreat, UNC School of Medicine, Chapel Hill, NC, January 11, 2013
- The population-level burden of misclassified benign renal masses. Center for Gastrointestinal Diseases Epidemiology Seminar, UNC School of Medicine, Chapel Hill, NC, December 4, 2012

- Trends in Bladder Cancer Incidence: Implications for Cancer Control Policy. Bladder Cancer Interest Group, UNC Lineberger Cancer Center, Chapel Hill, NC, November 14, 2012
- UNC Lineberger: A National Leader in Bladder Cancer. North Carolina Cancer Hospital Cancer Committee Meeting, Chapel Hill, NC, June 14, 2012.
- The Association Between Hospital Volume and 90-day Mortality After Radical Cystectomy: A Case Study in Cancer Care Quality from the National Cancer Database. Cancer Care Quality Seminar, Department of Health Policy and Management, UNC Chapel Hill, Chapel Hill, NC, April 10, 2012.
- Population-Based Clinical and Translational Epidemiology in Bladder Cancer: The UNC-Aarhus Collaboration. Center for Gastrointestinal Diseases Epidemiology Seminar, UNC School of Medicine, Chapel Hill, NC, March 14, 2012
- Treatment of Prostate Cancer—Have the Stakes Changed? Howard Holderness Distinguished Scholar Seminar Series, UNC School of Medicine, Chapel Hill, North Carolina, September 1, 2011
- Patterns of Care in Non-Muscle-Invasive Bladder Cancer: Results from the BCAN Survey. 9th Annual Landes Symposium, Chapel Hill, North Carolina, June 17, 2011
- Bladder Cancer Basics. Urology Nursing Society Southeast Regional Meeting, Chapel Hill, North Carolina, March 25, 2011
- Risk Stratification and Decision Making in Urologic Oncology. UNC Center for Gastrointestinal and Bowel Disease (CGIBD) Epidemiology Seminar, Chapel Hill, North Carolina, December 15, 2010
- Risk Stratification as a Framework for Evaluating Quality of Cancer Care. VA Health Services Research (HSR&D) Working Group, Durham, North Carolina. June 8, 2010
- Updated Prostate Cancer Surveillance Program Guidelines. Rex Cancer Center Genitourinary Oncology Journal Club, Raleigh, North Carolina. June 3, 2010.
- Cancer Decision Making: Uncertainty and Competing Risks. North Carolina State University Department of Operations Research, Raleigh, North Carolina. April 21, 2010
- Prostate Cancer Update 2010: Active Surveillance of Favorable Risk Disease. Texas Association of Genitourinary Surgeons Annual Meeting. Chapel Hill, North Carolina, April 17, 2010

- Prostate Cancer Update 2009. North Carolina Academy of Family Physicians Winter 2009 Meeting, Asheville, North Carolina, December 4, 2009
- Genitourinary trauma: Clinical issues relevant to contemporary nursing practice. Johns Hopkins Hospital Department of Nursing Trauma Continuing Education Lecture series, Baltimore, Maryland, March 20, 2008.
- A critical analysis of the interpretation of biochemical recurrence in surgically treated patients using the revised ASTRO criterion—"Nadir + 2." The Maryland Urological Meeting, Baltimore, Maryland, November 10, 2007.
- Visiting Resident Speaker, Abraham T. Spence Visiting Professorship, University of Texas, Southwestern Medical Center, Dallas, Texas, 2006.

Print / Television / Radio / Social Media Engagement

- Developing a national urologic quality strategy to support ABU Continuing Certification requirements. **Nielsen ME**, *AUA News*, February 2023
- Greetings from the new Science and Quality Council Chair. **Nielsen ME**, *AUA News*, November 2022
- Three Things to Know About Prostate Cancer.
<https://healthtalk.unchealthcare.org/3-things-to-know-about-prostate-cancer/>
UNC HealthTalk, September 2022
- Helping prostate cancer patients in 2022. Opening Keynote for MaleCare 2022 Prostate Cancer Patient Conference https://youtu.be/0_im5CXO5kA March 3, 2022
- Incorporating alternatives to opioids for post-operative pain control in urology is more important than ever in the pandemic era. Robles J and **Nielsen ME**, *AUA News*, June 2021
- Dr. Balfour Mount: The Father of Palliative Care. The Surgical Palliative Care Podcast Interview, January 10, 2020. <https://podcasts.apple.com/us/podcast/the-surgical-palliative-care-podcast/id1492181491?i=1000462193243>
- Hematuria—should the workup include imaging? New England Journal of Medicine Journal Watch Clinical Conversations Podcast interview, August 8, 2019
<https://podcasts.jwatch.org/index.php/podcast-228-hematuria-should-the-workup-include-imaging/2019/08/08/>
- Guideline-based hematuria evaluation may up risk of secondary cancers. Renal and Urology News, July 31, 2019

- <https://www.renalandurologynews.com/home/news/urology/kidney-cancer/guideline-based-hematuria-evaluation-may-up-risk-of-secondary-cancers/>
- Evaluating Hematuria: Uniform Use of CT Seen as Risky and Expensive. *New England Journal of Medicine Journal Watch*, July 30, 2019 <https://www.jwatch.org/fw115656/2019/07/30/evaluating-hematuria-uniform-use-ct-seen-risky-and>
 - CT scans for patients with hematuria associated with harmful outcomes, increased costs. *Healio Primary Care*, July 29, 2019 <https://www.healio.com/internal-medicine/practice-management/news/online/%7Bfd8a115e-fd83-4058-938d-0b87daf3e955%7D/ct-scans-for-patients-with-hematuria-associated-with-harmful-outcomes-increased-costs>
 - CT for Hematuria Evaluation Does More Harm Than Good. *Medscape Medical News*, July 30, 2019 <https://www.medscape.com/viewarticle/916194>
 - Engagement with Professional Societies to Impact National Practice. *AUA News*, June 2019
 - Opioid Overprescription Targeted by New Plans. *Medscape*, May 19, 2018. <https://www.medscape.com/viewarticle/896936>
 - Opioid Stewardship in Urology. Press Program, American Urological Association Annual Meeting, San Francisco, CA, May 18, 2018
 - Tradeoffs of Harm, Benefit and Cost in Hematuria Evaluation. *Grand Rounds in Urology*. April 2018 <https://grandroundsinurology.com/the-pros-and-cons-of-evaluating-hematuria/>
 - American Urological Association AUA University Podcast, “Urology 101” June 2017 <http://www.urologyhealth.org/living-healthy/podcast/ep-19-urology-101-with-dr-matt-nielsen>
 - Interview on ACP Guideline for Evaluation of Hematuria as a Marker of Occult Urinary Tract Malignancy. *New England Journal of Medicine Journal Watch Audio General Medicine*. Audio Digest International. April 1, 2016. http://www.audio-digest.org/editorial/JW/audio/jw2707_2.mp3
 - “Early Detection is Key to Fighting Prostate Cancer” WRAL-TV (local CBS affiliate) interview, November 30, 2015 <http://www.wral.com/early-detection-is-key-to-fighting-prostate-cancer/15135559/>
 - “Bladder Cancer” on Sirius XM Dr. Radio Men’s Health Show, October 7, 2015

- “Active Surveillance for Prostate Cancer” Best Doctors® Global Grand Rounds, July 24, 2013
<http://www.youtube.com/watch?v=8pk0KYiBtAU&list=PLLIg0Eshhz1UAW02PiRSDNIYkeusitBI3&index=2>
 - “Hematuria,” on Sirius XM Dr. Radio Men’s Health Show, March 6, 2013
 - “Diagnosing Bladder Cancer: Signs, Symptoms and Tests.” Bladder Cancer Advocacy Network (BCAN) Patient Education Webinar, February 19, 2013.
<http://www.bcan.org/stay-informed/patient-insight-webinars/diagnosing-bladder-cancer-signs-symptoms-tests/>
 - TalkAboutHealth.com Internet Forum: Localized Prostate Cancer. January 25, 2013.
<http://talkabouthealth.com/MatthewNielsenMD> 2,240 page views as of July 15, 2013.
 - “New Prostate Cancer Test Advice Overturns Dogma” WRAL-TV (local ABC affiliate) live interview, October 5, 2011
<http://abclocal.go.com/wtvd/video?id=8383603&syndicate=syndicate§ion>
 - “Skip the PSA Test for Prostate Cancer?” *US News and World Report* interview,
<http://health.usnews.com/health-news/managing-your-healthcare/cancer/articles/2010/09/15/skip-the-psa-test-for-prostate-cancer>,
September 15, 2010
- 2014-2020 Faculty Director
Digital Content and Engagement Strategy
Cancer Outcomes Research Program
UNC Lineberger Comprehensive Cancer Center
Chapel Hill, North Carolina

GRANTS

Current:

W81XWH2110775

Department of Defense

Personalizing Kidney Cancer Communication to Support Patient-Centered Decision Making (Hung-Jui Tan, PI)

The goal of this project is to improve the decision-making experience by personalizing how patients receive information about their possible kidney cancer. By defining, building, and testing personalized communication for patients with early-stage kidney cancer, we hypothesize that personalized communication responsive to the specific communication and support needs of patients will improve the perceived quality of communication, thus improving the decision-making experience.

Role: Co-Investigator

09/01/2021 – 08/31/2024

\$929,618

MRS-18-193-01-CPPB 01/01/2019 – 12/31/2023
 American Cancer Society \$737,000
Designing Visual Tools to Enhance Cancer Surgeon Decision-Making (Hung-Jui Tan, PI)
 The primary objective of this study is to design and develop a health IT-based tool that is usable and impacts cancer care. The specific aims are to 1) determine whether health IT behavior influences how urologists make decisions for cancer, 2) evaluate the effect of information visualization on surgeon risk perception and judgment, and 3) assess prospectively the impact of visual decision support on surgeon risk communication in clinic
 Role: Mentor

No number assigned 08/15/2021-08/31/2023
 American Urological Association \$80,000
Improving pathways of care for renal colic as a means to address low-value services (David Friedlander, PI)
 Provide a comprehensive portrait of risk-adjusted pathways of care for individuals presenting with acute renal colic in order to identify low-value services. This will be achieved by utilizing a multi-level mixed-methods approach and consists of two stages: 1) use Medicaid and private-payer claims data sources to conduct polynomial regression as a means to define the clinical period surrounding a diagnosis of acute renal colic and identify factors associated with the largest variation in daily episode-specific spend. After defining this period we will then 2) conduct semi-structured interviews and surveys among patients and providers to ascertain clinical and non-clinical drivers of variation in episode-specific spend.
 Role: Mentor

1R01CA2-4193 4/1/2019-3/30/2024
 National Cancer Institute \$3,254,226
Ostomy Telehealth Self-Management Training for Cancer Survivors (Robert Krouse, PI)
 Implementation and evaluation of telehealth self-management intervention for patients with ostomies living in rural communities
 Role: Co-investigator, UNC Site PI

Q125EP20 11/01/2019 – 10/31/2024
 University of Kansas Medical Center (PI: Nielsen) \$92,599
North Carolina Prospective Prostate Cancer Cohort Study
 The goals of this project include continued data collection (annual follow-up surveys and medical records) for the NC ProCESS study for up to 10 years of follow-up on all enrolled study participants.

Completed:

1R01LM013329 9/10/2019 - 7/31/2023
 National Science Foundation/NIH Connected Health \$135,720
AURA: Connecting Audio and Radio Sensing Systems to Improve Care at Home (Nirjon & Song, MPI)
 This study aims to develop and pilot test the AURA system of symptom and complication monitoring and management for cancer patients and their caregivers in home settings.

Role: Co-investigator

1R01NR016990-01A1

9/25/2017-6/30/2022

National Institute of Nursing Research

\$2,583,736

Efficacy of a Couple-focused, Tailored, Symptom Self-management mHealth Intervention for Prostate Cancer and Their Partners (Lixin Song, PI)

Implement and test efficacy of a tailored dyadic symptom management mHealth intervention in a diverse population of men and partners with newly diagnosed prostate cancer

Role: Co-investigator

W81XWH1910512

11/03/2019 – 07/31/2022

Department of Defense

\$713,426

Long-Term Outcomes of Localized Prostate Cancer Survivors (Ron Chen, PI)

Study long-term (8-10 year) outcomes of patients enrolled in the NC ProCESS cohort (cohort of men enrolled from 2011-2013 who were newly-diagnosed with prostate cancer) by creating a unique and comprehensive data set that includes quality of life, insurance claims data, and cancer registry data. This includes long-term urinary, bowel and sexual quality of life after active surveillance, surgery, or radiation; medical procedures or hospitalizations due to treatment-related complications; cancer control/recurrence; and overall survival.

Role: Co-investigator, UNC Site PI

Pilot Award # TSMPAR61803

7/1/2018-6/30/2019

North Carolina Clinical and Translational Science Award (CTSA)

\$49,986

The Opioid Data Research Hub: A New Approach for Data Linkage

Develop and evaluate algorithms to link insurance claims, electronic medical record, and publicly available datasets to support investigations related to factors associated with the development of new chronic use of opioids after surgical procedures

Role: Principal Investigator

Campus Innovation Grant

7/1/2018-6/30/2019

North Carolina Area Health Education Centers (AHEC)

\$43,398

Enhancing Interdisciplinary Opioid Stewardship: Education and Training to Mitigate Postoperative Risk

Develop interprofessional education materials and community resources supporting stewardship of prescription opioid medications after procedural care. The work leverages interdisciplinary expertise from the UNC Schools of Medicine, Pharmacy, Nursing, Social Work and Dentistry to mitigate harms of opioids from the patient safety and public health perspectives.

Role: Co-Principal Investigator with Kimberly Sanders

1503-29220

2/01/16-

1/31/19

Patient-Centered Outcomes Research Institute

\$1,712,057

Optimizing the Effectiveness of Routine Post-treatment Surveillance in Prostate Cancer Survivors (Ron Chen, PI)

Utilizing large population-based datasets of prostate cancer survivors, this project will seek to characterize the effectiveness of post-treatment surveillance and illuminate strategies for patient-centered survivorship care

Role: Co-investigator (10% effort)

1R13HS026679-01

9/1/2018-8/31/2019

Agency for Healthcare Research and Quality

\$35,100

American Urological Association's Quality Improvement Summit: Opioid Stewardship in Urology (Angela Smith, PI)

Multidisciplinary conference convening stakeholders from the American Urological Association, general surgery, and anesthesia/pain management communities around opportunities for collaborative patient safety / quality improvement work around the utilization of opioids for patients with urological conditions

Role: Chair-elect, AUA Quality Improvement and Patient Safety Committee

Pilot Award # SE1605

6/21/2018-12/21/2018

North Carolina Clinical and Translational Science Award (CTSA)

\$1,800

Right-sizing Post-operative Prescribing for Opioid Naïve Patients—A Stakeholder Guided and Team-based Approach to Mitigating Chronic Opioid Use

Engage multidisciplinary stakeholders across the continuum of care to identify and prioritize study design and trial outcome decisions for planned multicenter precision medicine trial of postoperative opioid prescribing

Role: Co-Principal Investigator with Jacquie Halladay

1R21CA212516-01

12/1/2016-

11/30/2018

National Cancer Institute

\$363,660

Enhancing Survivorship Care Planning for Patients with Localized Prostate Cancer Using a Couple-focused Web-based Tailored Symptom Self-management Program (Lixin Song, PI)

Implement and refine a novel electronic tailored symptom management intervention targeted at patient/partner dyads in the context of newly diagnosed localized prostate cancer

Role: Co-investigator (1% effort)

Collaborative Pilot Grant (no number)

7/1/2017-6/30/2018

Patient Outcomes Research To Advance Learning (PORTAL) Network

\$117,050

Patient-Centered Outcomes Research Institute

Implementation and Dissemination of Novel Approaches to Hematuria Evaluation (Sheila Weinmann, PI)

Develop and validate computable phenotypes to identify episodes of care for hematuria evaluation, procedural and imaging components of these episodes, and outcomes attributable to these episodes. This work will provide preliminary data for planned future proposals examining alternative approaches to hematuria evaluation in a diverse array of US health systems

Role: Co-investigator (10% effort, in kind)

5R21CA191610-02 Revised (Disparities Supplement)

8/31/16-9/1/17

National Cancer Institute

\$143,884

Optimizing Risk Stratification to Manage Early Stage Bladder Cancer

This supplement builds on the parent grant, adding data from Geisinger Health System to the Kaiser Permanente Northwest cohort in Aim 1 of the parent grant, with additional analyses investigating sex disparities in the combined dataset

Role: Co-Principal Investigator with Carmit McMullen

NIH Health Care Systems Research Network / Older Americans Independence Centers
AGING Initiative Pilot Project 11/2016-10/2017

Multiple Chronic Conditions and Mortality in Older Adults with Superficial Bladder Cancer [Tullika Garg (mentee), PI] \$40,000

This project aims to characterize the interplay between multiple chronic conditions, including early stage bladder cancer, and mortality in the older adult population

Role: *Mentor/Co-Investigator (2% effort, in kind)*

1R21CA191610-01 1/1/15-
12/31/17

National Cancer Institute \$461,376

Optimizing Risk Stratification to Manage Early Stage Bladder Cancer

Development and validation of a risk calculator predicting disease recurrence and progression from a population-based community-dwelling cohort of patients with superficial bladder cancer in Kaiser Permanente Northwest; design and implementation of a point-of-care decision support intervention with the risk calculator

Role: co-Principal Investigator, with Carmit McMullen (10% effort)

1R13HS025664-01 10/21/2017
Agency for Healthcare Research and Quality \$24,950

Challenges and Opportunities for Stewardship of Urological Imaging

Multidisciplinary conference convening stakeholders from the American Urological Association, American College of Emergency Physicians, and American College of Radiology around opportunities for collaborative patient safety / quality improvement work around the utilization of advanced imaging for patients with urological conditions

Role: *Principal Investigator / Conference Chair*

Geisinger Scientific Review Committee Small Grant Award 6/2016-5/2017
Patient-centered Outcomes in Elders with Superficial Bladder Cancer and Multiple Chronic Conditions
[Tullika Garg (mentee), PI] \$19,953

Utilizing a large dataset of patients from an integrated delivery system, this project seeks to characterize patient-centered outcomes in older adults with early stage bladder cancer and multiple chronic conditions

Role: *Mentor/Co-Investigator (5% effort, in kind)*

PCORI Engagement Award 12/01/14-
12/01/16

Knowledge Award \$121,237

Bladder Cancer Patient Survey Network for Research Prioritization (Angela Smith, PI)

This knowledge award involves development of a survey network of bladder cancer patients by engaging patients and caregivers involved with Bladder Cancer Advocacy Network and conduct research prioritization activities. In this project, we aim to recruit users to participate in the Patient Survey Network, generate research questions, and prioritize research questions

with the ultimate goal to create a sustainable method for conducting research prioritization with bladder cancer patients on an iterative and ongoing basis

Role: co-investigator

Rising Stars in Urology Research Award (not assigned) 8/1/13-6/30/16
Urology Care Foundation and Astellas Pharma, US \$101,000
Awarded in recognition of *Optimizing Survivorship and Decision Making in Low Risk Bladder Cancer*
Role: Principal Investigator

Mentored Research Scholar Grant MRSRG-13-154-01-CPPB 7/1/13-6/30/16
American Cancer Society \$437,000
Optimizing Survivorship and Decision Making in Low Risk Bladder Cancer
60% effort
Mentors: M. Pignone, E. Myers, A. Zauber, B. Hauber, B. Denton, R. Pruthi
Development of microsimulation model of the natural history of low risk bladder cancer and measurement of utilities and patient preferences related to treatment alternatives
Role: Principal Investigator

Concept Grant (no number; David Johnson, PI/mentee) 7/1/15-6/30/16
Society of Urology Chairs and Program Directors \$24,000
An Open-access Resource to Address Unmet GME Needs Related to Quality Improvement Activities
Development of a web-based educational resource for urology residents, department chairs, and residency program directors cataloging available resources to support quality improvement education
Role: Mentor/Faculty Sponsor; Co-Investigator

UNC Lineberger Developmental Award (not assigned) 7/1/14-6/30/15
University of North Carolina Lineberger Comprehensive Cancer Center \$50,000
MISCAN-Bladder: A Simulation Model for Comparative Effectiveness Research
Development of a population-based simulation model of superficial bladder cancer using the established MISCAN architecture with collaborators from Erasmus MC, Rotterdam, The Netherlands
Role: Principal Investigator

HMO Cancer Research Network Pilot Award CRN14012 7/1/14-6/30/15
HMO Cancer Research Network U24 CA171524 \$75,000
Optimizing Risk Stratification to Manage Early Stage Bladder Cancer
5% effort
[Funded and withdrawn due to overlap with 1R21CA191610-01, above]
Development and validation of a risk calculator predicting disease recurrence and progression from a population-based community-dwelling cohort of patients with superficial bladder cancer in Kaiser Permanente Northwest

Role: Principal Investigator

HMO Cancer Research Network (CRN) Pilot Award CRN14016 7/1/14-6/30/15
HMO CRN U24 CA171524 (Ramzi Salloum, PI, mentee) \$75,000
Patterns of Care and the Diffusion of New Technologies in Prostate Cancer
5% effort
The objectives of this study are to understand the determinants and cost implications of prostate cancer patterns of care and diffusion of new technologies across diverse patient populations and health care markets

Role: co-Investigator

University Cancer Research Fund (UCRF) Innovation Award 7/1/13-6/30/15
UNC Lineberger Comprehensive Cancer Center (Ron Chen, PI) \$175,000
Building and characterizing the North Carolina Bladder Cancer Cohort: Defining Quality of Life and Potential Health Care Needs During Survivorship
5% effort (in kind)
This project will leverage the North Carolina Central Cancer Registry's Rapid Case Ascertainment program to develop a population-based cohort of patients newly diagnosed with bladder cancer in the state of North Carolina. The focus of the study will be on quality of life and receipt of recommended primary/preventive care services after a diagnosis of bladder cancer.

Role: co-investigator

Population Sciences Developmental Research Award (not assigned) 7/1/13-6/30/14
UNC Lineberger Comprehensive Cancer Center (Lixin Song, PI) \$35,000
Development of a Couple-focused eHealth Intervention for Prostate Cancer-Related Symptom Management
5% effort (in kind)
This project adapted content from a proven in-person symptom management program into an eHealth application for use by prostate cancer survivors and their partners

Role: co-investigator

AHRQ Recovery Act (ARRA) Grant 1R18AE000023-01 9/1/10-8/1/13
Agency for Healthcare Research and Quality \$2,902,667
C. Lewis (UNC) and D. Frosch (Palo Alto Medical Research Foundation) (co-PIs)
Accelerating Adoption of CER Results With Patient Decision Support Interventions
5% effort (in kind during period of KL2 support)
Randomized trials of decision support interventions surrounding decisions to undergo PSA screening (study 1) and treatment decision-making for men diagnosed with low risk clinically localized prostate cancer (study 2)

Role: Lead investigator for Study 2 at UNC site

AHRQ HHSA29020050040I 9/16/05-7/14/13
Agency for Healthcare Research and Quality (Paul Godley, PI) \$623,543
Developing Evidence to Inform Decisions about Effectiveness: The DECIDE Network
10% effort (in kind during period of KL2 support)

This project used secondary analysis of existing data, retrospective analysis of SEER/Medicare data and prospective cohort data to comparative the effectiveness of management options for early prostate cancer.

Role: Co-Investigator (2009-2013)

UNC Clinical Translation Science Award (CTSA) Marshall Runge (PI) 5/19/08-4/30/13

K12 Scholars Program (KL2) NIH/NCRR 1KL2RR025746 \$2,090,864 (Direct)

Risk-Treatment Mismatch and Decision Making in Urologic Oncology

50% effort

A national consortium with the goal of transforming how clinical and translational research is conducted, ultimately enabling researchers to provide new treatments more efficiently and quickly to patients.

Role: KL2 Scholar(supported 4/1/09-3/30/12)

Trainee Mini-grant

George Netto (co-PI) 7/1/06-

6/30/07

National Kidney Foundation of Maryland

\$10,000

Biomarkers of Recurrent and Lethal Bladder Cancer in Primary Cystectomy Tissue

20% effort (no salary support)

This project supported the construction of a bladder cancer tissue microarray of cystectomy specimens from patients who developed metastasis and / or bladder cancer-specific mortality after cystectomy alongside recurrence-free cases, creating a resource to facilitate the evaluation of candidate biomarkers.

Role: Co-investigator

Professional Development Award

Soner Altioek (co-PI) 7/1/06-

6/30/07

National Kidney Foundation of Maryland

\$40,000

Prediction and Assessment of Response to Targeted Therapy in Bladder Cancer

20% effort (no salary support)

The primary goal of this study was the evaluation of a panel of small-molecule tyrosine kinase inhibitors targeting signaling pathways implicated in the pathogenesis of bladder cancer. The ultimate goal of the project was to identify potential novel therapeutic agents for bladder cancer as well as to develop and characterize candidate biomarkers to guide treatment selection in individual patients

Role: Co-investigator

Kirchstein National Research Service Award

Don Coffey (PI)

7/1/05-

6/30/06

National Institutes of Health grant # T32-DK007552-19

\$43,428

Clinical and translational research in urologic oncology

100% effort / 100% salary support

This grant supported the first 12 of 18 months of dedicated full-time work on clinical and translational research in urologic oncology under the mentorship of senior investigators in the department of Urology and affiliated departments and divisions within the Johns Hopkins Medical Institutions.

Role: Research fellow

TEACHING RECORD

Course Director

- “The Art of Medicine.” HNRS 350 Honors Carolina Undergraduate Seminar, The University of North Carolina at Chapel Hill Undergraduate Honors Program. 1.0 credit hours, spring semester 2023
- Course Director, Landes Symposium on Advances in Urology, University of North Carolina Continuing Medical Education Programs, 2011

Lecture / Classroom instruction:

- High Value Care: How Do We Get There? Value-Based Care Lecture Series, UNC School of Medicine, Chapel Hill, NC, April 30, 2020
- Lessons Learned in Crisis Leadership. In: Smithson S, Foster J, Bogdewic S (directors). Medical Management of COVID-19 Course: UNC School of Medicine & North Carolina AHEC. Available at Association for American Medical Colleges iCollaborative (<https://icollaborative.aamc.org/resource/5110/>), UNC School of Medicine, Chapel Hill, NC, April 16, 2020
- High Value Care: How Do We Get There? UNC School of Medicine Population Health Lecture Series, Chapel Hill, NC, June 18, 2019
- Deimplementation of Low-value, Potentially Harmful Care. UNC Department of Health Policy and Management, Implementation Science and Health (HPM 767) guest lecture, Chapel Hill, NC, April 16, 2019
- TeamSTEPPS / Leadership Development. UNC Schools of Medicine and Nursing, Clinician Leadership in Quality and Safety Scholarly Concentration; 2018-present
- Optimizing Risk Stratification and Decision Making in Superficial Bladder Cancer: A Case Study of Surveillance (annual). Cancer Survivorship, Epidemiology and Outcomes course (EPID 771, guest lecturer), Department of Epidemiology, UNC Gillings School of Global Public Health, 2015-present
- Management of Bladder Cancer (annual). UNC Chapel Hill Radiation Oncology Residency Program, 2012-2017
- Urologic Oncology lecture (quarterly), UNC Chapel Hill School of Medicine Third Year Surgery Clerkship, 2009-2016

- Urology for General Surgeons (annual). UNC Chapel Hill General Surgery Residency Program, 2012-2014
- Epidemiology of Renal Cell Carcinoma. Advanced Cancer Epidemiology Seminar, Department of Epidemiology, UNC Gillings School of Global Public Health, April 17, 2013
- Prostate Diseases Lecture (annual). UNC Chapel Hill School of Medicine 2nd year Curriculum, 2009-2013
- Gross Anatomy Dissection for Outgoing UNC Chapel Hill Medical Students in Urology (annual). UNC Chapel Hill School of Medicine Capstone Program, 2009-2012
- Director of Weekly Urology Resident / Student Didactic Lecture Series, Johns Hopkins Hospital Brady Urological Institute; 2008
- Johns Hopkins University School of Medicine Freshman Histology, Laboratory Teaching Assistant, 2002

Grand Rounds

- Surgeons as Gatekeepers to the Opioid Epidemic. Department of Orthopaedic Surgery Grand Rounds, UNC School of Medicine, Chapel Hill, NC, December 11, 2017
- Prostate Cancer: What's New in 2017? Department of Medicine Grand Rounds, UNC School of Medicine, Chapel Hill, NC, April 27, 2017
- Hematuria Evaluation: An Opportunity to Enhance Value? Department of Urology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, November 4, 2015
- Optimizing Survivorship and Decision Making in Low Risk Bladder Cancer. Division of Urology Grand Rounds, Washington University School of Medicine, St. Louis, Missouri, June 3, 2015
- Examining the Value of Different Approaches to the Patient with Hematuria. Department of Urology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, October 8, 2014
- Social Media as a Platform for Professional Development in Academic Medicine. Department of Urology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, December 11, 2013
- Public Reporting of Surgical Quality: The Brave New World. Department of Surgery Grand Rounds, UNC School of Medicine, Chapel Hill, NC, October 2, 2013

- The ABCs of Quality Reporting in Surgery. Division of Urology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, December 4, 2012
- Active Surveillance for Prostate Cancer. Division of Urology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, July 11, 2012
- Renal Cell Carcinoma 2009: Challenges and Opportunities. Department of Surgery Grand Rounds, UNC School of Medicine, Chapel Hill, NC, March 18, 2009
- Bladder Cancer Research: Opportunities for Discovery. Vattikuti Urological Institute Grand Rounds, Henry Ford Hospital, Detroit, Michigan. October 19, 2007.

Brady Urological Institute Grand Rounds(Category I CME)
Johns Hopkins Medical Institutions, Baltimore, Maryland:

- February 2008: Management of Neurogenic Bowel in Spina Bifida
- August 2007: Gleason Grade Discordance from Biopsy to Prostatectomy
- March 2007: Targeting Targeted Therapy in Bladder Cancer
- December 2006: Traumatic Injuries to Male Genitalia
- August 2006: Patient Age and Bladder Cancer Outcomes
- March 2006: Urinary Markers for Bladder Cancer Detection
- July 2005: Management of Ureteral Tumors
- March 2005: Genitourinary Tuberculosis
- October 2004: Adrenocortical Carcinoma
- September 2004: Ejaculatory Duct Obstruction
- August 2004: Incidentally Detected Adrenal Masses
- March 2004: Cytoreductive Nephrectomy

Research mentorship (*Mentee honors and awards in bold*)

- Extramural Junior Faculty
 - Deborah Kaye, Assistant Professor of Urology and Population Sciences, Duke University, 2019-present
 - Kara Watts, Assistant Professor of Urology, Albert Einstein School of Medicine / Montefiore Medical Center, 2019-present
 - Greg Auffenberg, Assistant Professor of Urology, Northwestern University, 2018-2021
 - Jennifer Robles, Assistant Professor of Urology, Vanderbilt University, 2018-present
 - Lindsey Herrell, Assistant Professor of Urology, University of Michigan, 2018-present
 - Justin Ziemba, Assistant Professor of Surgery/Urology, University of Pennsylvania, 2017-present **AUA Data Grant Awardee, Co-chair AUA Imaging Stewardship Workgroup**

- Casey Ng, Staff Urologist, Kaiser Permanente Southern California, 2017-2021
- Tullika Garg, Clinician-Investigator, Geisinger Health System, **Surgical Outcomes Club Zinner Health Services Research Fellow, National Institute on Aging Butler-Williams Scholar**, 2015-present
- Ramzi Salloum, Assistant Professor of Health Policy, University of Florida, **NCI Cancer Research Network CRN Scholar**, 2014-2017
- UNC Junior Faculty (current position):
 - Clayton Commander, Assistant Professor of Radiology, 2022-present
 - Shekinah Elmore, Assistant Professor of Radiation Oncology, 2022-present
 - David Friedlander, Assistant Professor of Urology, **AUA/Urology Care Foundation Young Investigator Awardee**, 2021-present
 - Katherine Chan, Associate Professor of Urology, **NIDDK K23 Awardee**, 2021-present
 - Gita Mody, Assistant Professor of Surgery, **NHLBI K23 awardee, 2022-2027**, 2018-present
 - Nicole Chaumont, Assistant Professor of Surgery, 2018-2020 (Director of Patient Safety and Quality Improvement, Medstar Health, Baltimore MD)
 - Emily Chang, Assistant Professor of Medicine, 2017-present
 - Hung-Jui Tan, Assistant Professor of Urology, 2016-present **American Cancer Society Mentored Research Scholar Grant awardee, 2018-2023**
 - Adewole Adamson, Assistant Professor of Dermatology, 2015-2018 (Assistant Professor, University of Texas Dell Medical School)
 - Angela Smith, Assistant Professor of Urology, **UNC Lineberger Cancer Center John William Pope Clinical Fellow Award, 2012; KL2 Scholar; AHRQ K08 Awardee 2012-2015** (Professor with tenure and Director of Urologic Oncology, UNC)
 - Lixin Song, Assistant Professor of Nursing, **BIRCWH/KL2 scholar**, 2012-2014 (Associate Professor, UNC)
- Residents (current position):
 - Yousef Abu-Salha 2020-present (Urology resident, UNC)
 - Mark Ehlers 2018-present (Urology resident, UNC)
 - Kathryn Hacker Gessner 2017-present (Urology resident, UNC)
 - Christopher Wallis 2017-present (Urologic oncology fellow, Vanderbilt University)
 - David Johnson 2012-2016; **2014 UNC Lineberger Cancer Center John William Pope Clinical Fellow Award and the 2016 British Journal of Urology Coffey-Krane Prize** (Assistant Professor, UNC; Medical Director, Healthcare Strategy and Payment Transformation, Blue Cross Blue Shield of North Carolina)
 - Will Kirby 2012-2013, **Owen Wangenstein Prize for Best Presentation in Urology Surgical Forum, American College of Surgeons Clinical Congress, 2013** (Urology practice, Wilmington, NC)
 - Angela Smith 2011-2012 (Associate Professor with Tenure, UNC Chapel Hill)

- Ian Udell 2011, **Owen Wangenstein Prize for Best Presentation in Urology Surgical Forum, American College of Surgeons Clinical Congress, 2012** (UNC Urology Adjunct Faculty, Raleigh, NC)
- Raj Kurpad 2011 (Urology practice, Dover, DE)
- Jeffrey Nix 2009 (Associate Professor, University of Alabama-Birmingham)
- Ashley Ross 2008 (Associate Professor and Director of Urologic Oncology, Northwestern, Chicago, IL)
- David Hernandez 2005-2006 (Associate Professor, University of South Florida)
- Research Fellows (current position):
 - Jacob Stein, MD, UNC Hematology/Oncology Fellow, **ASCO Conquer Cancer Young Investigator Award**, 2021-present
 - Ahrang Jung, PhD, 2018-present (Assistant Professor, UNC Greensboro)
 - Lisa Spees, PhD, 2018-2020 (Assistant Professor of Health Policy and Management, UNC Gillings School of Global Public Health)
 - Zachary Klaassen, MD, 2017-2019 (Assistant Professor, Medical College of Georgia)
 - Devon Check, PhD, 2018-2020 (Assistant Professor, Duke Department of Population Health Sciences)
 - Jed Ferguson, MD PhD, 2010-11 (Assistant Professor, University of Alabama at Birmingham)
 - Ankur Manvar, MD, 2010-11 (Anesthesiology/Pain Medicine practice, Kings Mountain, NC)
 - Michael Muntener, MD, 2005-2006 (Chief of Urology, Triemli Hospital, Zurich, Switzerland)
- Medical Students (current position):
 - Charan Mohan 2019 (Urology resident, Northwell Health, New York)
 - Nancy Wang 2013, **Urology Care Foundation Charles Brendler Summer Research Award** (Urology resident, Stanford)
 - A.J. Davidiuk 2011 (Urology practice, Orlando, FL)
 - Megan Feng 2011 **National Institute of Aging MSTAR Scholar** (Family Medicine practice, Monroe, MI)
 - Jeremy Reese 2009, (Urology practice, Golden, CO)
 - Marisa Meyer 2008 (Assistant Professor, Johns Hopkins)
 - Ina Wu 2005-2006 (Assistant Professor, University of Nebraska)

Graduate Student Supervision:

- Elizabeth Garry, PhD Candidate, Epidemiology, UNC Gillings School of Global Public Health, 2017-2019 (Dissertation Committee Member) [current position: Principal Scientist, Aetion, Boston, MA]
- Mihaela Georgieva, PhD Candidate, Health Policy and Management, UNC Gillings School of Global Public Health, 2015-2019 (Dissertation Committee Member) **Horton-Hallowell Wellesley College Alumna Graduate Fellowship Award, 2017** [current position: Health Economist and Decision Scientist, The Analysis Group, Boston, MA]

- Ahrang Jung, PhD Candidate, Nursing, UNC School of Nursing, 2015-2018 (Dissertation committee member) [current position: postdoctoral fellow, UNC Lineberger Cancer Outcomes Research Program]
- Saira Khan, PhD Candidate, Epidemiology, 5T32CA009330 (Cancer Epidemiology Training Grant), UNC Gillings School of Global Public Health, 2014-2016 (Dissertation committee member) [current position: postdoctoral fellow in Cancer Control and Prevention, Washington University of St. Louis]
- Sarah Lewis, PhD Candidate, Health Policy and Management, Bristol-Myers Squibb Global Health Economics and Outcomes Research Pre-doctoral Fellow, UNC Gillings School of Global Public Health, 2013-2016 (Dissertation committee member) [current position: Center for Medicare and Medicaid Innovation (CMMI) Research and Rapid Cycle Evaluation Group, lead for VBID Medicare Advantage Model and Radiation Oncology model]
- Christine Barnett, PhD Candidate, Industrial and Operations Engineering, University of Michigan College of Engineering, 2012-2016 (co-mentor for **National Science Foundation Graduate Research Fellowship Award** with Brian Denton, PhD) [Current position: Senior Research Scientist, RTI International]
- Samira Brooks, PhD Candidate, Program in Translational Medicine, Howard Hughes Medical Institute / UNC School of Medicine, 2011-2015 (Dissertation committee member) [current position, Cancer Prevention Fellow, National Cancer Institute]
- Anne Butler, PhD Candidate, Epidemiology, 5T32CA009330-30, 2T32 DK007750-15, UNC Gillings School of Public Health, 2012-2014 (Dissertation committee member) [current position: Assistant Professor of Medicine / Infectious Diseases, Washington University in St. Louis]
- Shellie Ellis, PhD Candidate (**Recipient of the Marci Kramish Campbell Dissertation Award**), Cancer Care Quality Training Program, Health Policy and Management, 1R25CA116339, UNC Gillings School of Public Health, 2011-2014 [Dissertation committee member; current position: Assistant Professor of Health Policy, University of Kansas Medical Center]
- Laurel Clayton, PhD Candidate, Cancer Care Quality Training Program, Health Policy and Management, 1R25CA116339, UNC Gillings School of Public Health, 2009-2012 [Dissertation committee member; current position: Senior Research Scientist, Aledade, Inc]
- Yuan Zhang, PhD Candidate, Industrial Engineering and Operations Research, North Carolina State University, 2009-2011 [current position: Analyst, Bank of America]
- Josip Vukina, MPH thesis advisor, UNC Gillings School of Public Health, 2010-2011 [current position: Assistant Professor of Urology, University of Pittsburgh]
- Wei-Shi Yeh, PhD dissertation advisor, Cancer Care Quality Training Program, Health Policy and Management, UNC Gillings School of Public Health, 2009-2010 [current position: Health Economist, Genentech]

2013-2019 Research Mentor / Program Faculty
 Trauma Training Grant (Bruce Cairns, PI)
 National Institutes of Health Grant T32GM008450-21
 Department of Surgery

UNC Chapel Hill School of Medicine
Chapel Hill, North Carolina

Community Education / Outreach

- Are Surgeons Gatekeepers to the Opioid Epidemic? Solterra Community Seminar, Durham, NC, March 23, 2018
- The UNC Genitourinary Oncology Program: Multidisciplinary Research and Clinical Care. UNC Lineberger Cancer Center Board of Visitors, Chapel Hill, NC, April 7, 2017
- Kidney Cancer: Overview. North Carolina Kidney Cancer Association Patient Forum, Chapel Hill, NC, December 12, 2015
- What's New in Cancer? The Rotary Club of Winston-Salem, North Carolina, April 15, 2014
- What's New in Cancer? The Rotary Club of Sanford, North Carolina, August 13, 2013
- Exceptional: The UNC Lineberger Comprehensive Cancer Center. Kiwanis Club, Rocky Mount, North Carolina, May 30, 2013.
- Bladder Cancer Detection: Signs, Symptoms and Tests. Bladder Cancer Advocacy Network Patient Insight Webinar. <http://www.bcan.org/stay-informed/patient-insight-webinars/diagnosing-bladder-cancer-signs-symptoms-tests/> February 19, 2013
- Prostate Cancer Update 2012: PSA Screening, Racial Disparities and Multidisciplinary Care. Men's Roundtable, Gateway Convention Center, Rocky Mount, North Carolina, March 10, 2012
- Prostate Cancer Update. Wakefield Rotary International, Wake Forest, North Carolina, October 14, 2010
- Genitourinary Oncology: Prostate, Bladder and Kidney Cancer. Orange County Senior Center, Hillsborough, North Carolina, September 15, 2010
- PSA and Prostate Cancer Update: 2010. Chapel Hill Senior Center "Meet the Expert" Lecture Series, Chapel Hill, North Carolina, September 1, 2010
- Who Is and Who Is Not a Candidate for Active Surveillance (Keynote lecture). Living With and Beyond Cancer Series, Rex/UNC Healthcare, Raleigh, North Carolina. June 12, 2010

- Bladder Cancer Basics: Diagnosis and Detection. Bladder Cancer Advocacy Network Patient Forum, Chapel Hill, North Carolina. May 15, 2010
- What's New at UNC Chapel Hill Urology: New Techniques for Nerve-Sparing Open Prostatectomy and the Hopkins Active Surveillance Protocol. Lee County Prostate Cancer Support Group, Sanford, North Carolina, March 10, 2009
- Active Surveillance for Prostate Cancer and the Multidisciplinary Team Approach at the Lineberger Cancer Center. Chapel Hill Prostate Cancer Support Group, Chapel Hill, North Carolina, February 27, 2010

CLINICAL ACTIVITIES

Certification

- North Carolina State Medical Board, 2008-present
- American Board of Urology: Diplomate #17132
 - Initial certification 2011
 - Life Long Learning Level 2 recertification 2019 (expires 2031)
- Advanced Training Program in Healthcare Delivery Improvement (accelerated course), Intermountain Healthcare Delivery Institute, 2019
- Institute for Healthcare Improvement Coursework:
 - Leadership and Organizing for Change, 2019
 - IHI Open School Improvement Capability, Patient Safety, Leadership modules
- Lean Six Sigma Yellow Belt (2012); Blue Belt (2013). Institute for Process, Leadership and Quality Improvement
- Maryland State Board of Physicians, 2006-2009
- Intuitive Surgical daVinci Robot Certification 11/17/2005

Attending on Clinical Service:

- Assistant Chief of Service (Attending for Urology Consult Service) 7/08-12/08 Johns Hopkins Hospital, Baltimore, Maryland
- Assistant Professor of Surgery / Urology, UNC Chapel Hill School of Medicine 1/09-4/15
- Associate Professor of Urology, UNC Chapel Hill School of Medicine, 4/15-4/20
- Professor of Urology, UNC Chapel Hill School of Medicine, 2020-present

Leadership Development Courses

- Program for Chairs of Clinical Services, Harvard T.H. Chan School of Public Health Executive and Continuing Professional Education. Boston, MA. January 22-February 3, 2023

- Leader As Coach Training, Pyramid Resource Group, October-November 2022
- UNC School of Medicine Office of Inclusive Excellence Diversity, Equity, and Inclusion (DEI) Certificate Program
 - Black Surgeons and Surgery in America. Multidisciplinary Grand Rounds, April 20, 2022
 - Scholarship Addressing the Dual Pandemic of Racism and COVID-19. Race, Racism, and Racial Equity (R3) Symposium, April; 19, 2022
 - Responding to Discrimination and Mistreatment in Clinical Education, February 2, 2022
 - Racial Equity Institute Groundwater Training, April 12-13, 2021
 - Speaking Up: Microaggression Training March 10, 2021
 - Implicit Bias 101 training, February 17, 2021
 - Students in Training, Academia, Health, and Research (STAHHR) Mentoring / Leadership Program. August 2020-June 2021
 - Unconscious Bias Awareness Workshop, September 28, 2020
 - Health Care Safe Zone Training September 15, 2020
- Relational Leadership at Carolina, October-November 2020
- Intermountain Healthcare Advanced Training Program in Healthcare Delivery Improvement (accelerated course), Murray, Utah, January-May 2019
- Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health Center for Continuing Professional Education, Boston, Massachusetts, October 29-November 10, 2017
- American Urological Association Leadership Program, Linthicum, Maryland, July 27-29, 2012

Grant Review Activities

2021	National Cancer Institute Special Emphasis Panel (SEP) for RFA-CA-20-043—Cancer Intervention and Surveillance Modeling Network (CISNET) Incubator Program for New Cancer Sites (U01)
2018-2020	Scientific Review Group Member, Bladder Cancer Advocacy Network Patient-Centered Outcomes Research Award
2017-2019	Scientific Review Group Member, Bladder Cancer Advocacy Network Innovation Award
2016-2019	Urology Care Foundation Research Scholars Grant Program
2016	American Urological Association Russell Scott Residency Research Award
2016	American Urological Association Herbert Brendler Summer Medical Student Research Fellowship
2015	Patient-Centered Outcomes Research Institute (PCORI), External reviewer for Large Pragmatic Studies

2013-2016	Scientific Review Group member, Bladder Cancer Advocacy Network Young Investigator Award
2013-2016	Internal reviewer, UNC Lineberger Comprehensive Cancer Center Developmental Award Program
2014	V Foundation for Cancer Research, Ad Hoc External Reviewer
2013	Patient-Centered Outcomes Research Institute (PCORI), External reviewer for Improving Healthcare Systems
2011	External Reviewer, UNC Nutrition Obesity Research Center
2010	External reviewer, South African Medical Research Council
2007	External reviewer, U.S. Civilian Research and Development Foundation Cooperative Grants Program

Editorial Activities

- Editorial Board Member, *Urologic Oncology: Seminars and Original Investigations*, 2021-present
- Editorial Board Member, *Bladder Cancer*, 2014-present
- Editorial Board Member, *World Journal of Clinical Oncology*, 2015-2018
- Assistant Editor and Editorial Board Member, *Urological Oncology: Seminars and Original Investigations*, 2014-2018
- Associate Editor, Surgical Oncology and Imaging, *BMC Cancer*, 2013-2016
- Editorial Board Member, *Clinical Nephrology and Urology Science*, 2013-2015
- Editorial Board Member, *Advances in Urology*, 2012-2014

Ad Hoc Editorial Reviewer:

- *JAMA*
- *Annals of Internal Medicine*
- *Campbell-Walsh Textbook of Urology*
- *Cancer*
- *Cancer Epidemiology, Biomarkers & Prevention*
- *Annals of Surgery*
- *Journal of Oncology Practice*
- *Journal of General Internal Medicine*
- *Health Services Research*
- *Epidemiology*
- *Urology*
- *Journal of Urology*
- *European Urology*
- *British Journal of Urology*
- *Clinical Cancer Research*
- *Urologic Oncology: Seminars and Original Investigations*
- *BMC Cancer*
- *Psycho-Oncology*
- *International Journal of Technology Assessment in Health Care*

- *Journal of Surgical Oncology*
- *Cancer Investigation*
- *Journal of Geriatric Oncology*
- *Urology Practice*
- *BMC Medical Informatics and Decision Making*
- *World Journal of Urology*
- *Indian Journal of Urology*
- *Expert Review of Pharmacoeconomics & Outcomes Research*
- *Journal of Andrology*
- *Prostate Cancer and Prostatic Diseases*
- *Advances in Urology*
- *Journal of the National Comprehensive Cancer Network*

Professional Society Membership

- Society for Women in Urology, 2021-present
- Association of Women Surgeons, 2018-present
- Health Care Systems Research Network, 2015-present
- American College of Surgeons Surgical Outcomes Club, 2012-present
- Southeastern Section of the American Urological Association, 2012-present
- American College of Surgeons, Associate Fellow, 2009-2012; Fellow 2012-present
- Society of Urologic Oncology, 2011-present
- Society for Medical Decision Making, 2010-present
- International Society for Pharmacoeconomics and Outcomes Research, 2015-2017
- North Carolina Oncology Association, 2010-2012
- American Society of Clinical Oncology, Active Member, 2009-2013
- American Urological Association, 2003-present

Reflective Statement

With exceptional institutional and human resources and a strong tradition of collegial multidisciplinary collaboration, UNC provides the ideal setting for leadership and professional development in academic medicine. I feel incredibly fortunate to have been given the opportunity to begin my career in this context, and this initial experience has only deepened my commitment to the institution and my appreciation of and enthusiasm for the career trajectory made possible by it. During this period, I have established myself as a surgeon-scientist, grown as a leader in my institution and with multiple national and international organizations, developed a strong network of collaborators, mentored junior colleagues, and elaborated a longer-term strategy bringing innovative approaches to bear on important clinical and policy problems.

In the clinical arena, I was fortunate to join a well-established genitourinary oncology group, exceptional among nationally recognized institutions for the degree of seamless multidisciplinary integration. In this supportive environment, I brought the clinical experiences and perspectives from my training at Johns Hopkins Hospital, while benefiting from the expertise of my UNC clinical mentors. Under their guidance, I gained expertise in advanced robotic surgical approaches to urologic cancers, towards the goal of constantly seeking the most innovative and beneficial treatments for patients stricken with these serious conditions. Following our establishment as a Department of Urology in 2013, I was promoted to Director of the Division of Urologic Oncology, serving through 2018. During this period, our Division grew from three to seven faculty, and our Department rose from unranked to top-20 nationally recognized programs in Urology in the US News Ranking (#16 in 2016). I was excited to take on leadership of our Department as Interim Chair in 2020, and was honored to be selected to continue in this role as of November 2020.

Research Statement

While balancing the demands associated with establishing a busy practice in urologic oncology, I pursued a broad-based academic career development plan. Immediately upon my arrival at UNC, I sought out mentors with shared interests and complementary expertise and was fortunate to have my application for the institutional KL2 program funded on the first submission in the spring of 2009. This provided me access to the exceptional career development resources of the CTSA-supported Master's in Science, Clinical Research (MSCR) track in the Department of Epidemiology, which I completed in 2012. This comprehensive didactic curriculum fleshed out relevant skill sets for a career in clinical research, building on my strong foundation in outcomes research from residency, while also introducing me to new disciplines and approaches that provided a basis to pursue my longer-term academic goals.

Under the mentorship of Michael Pignone, I was honored to receive funding on the American Cancer Society Mentored Research Scholar Grant, which supported the intermediate-term goals of obtaining additional data and cultivating skills in modeling and medical decision-making research, bridging the disciplines of urologic oncology and decision sciences. The promise of this line of investigation and mentored career development was recognized by my selection for the Urology Care Foundation / Astellas Rising Stars in Urology Research Award. During this time, I continued to develop additional productive

collaborations. First, in work related to the simulation modeling aims of my ACS award, I received Development Award funding from the UNC Lineberger Cancer Center for preliminary work with collaborators from the Erasmus Medical Center in Rotterdam to support future applications for comparative modeling studies in bladder cancer. In addition, a collaboration with investigators in the NCI-funded HMO Cancer Research Network led to a funded R21 application to support development of patient-centered decision support interventions for superficial bladder cancer. My appointment as a Clinical Investigator at the Kaiser Permanente Center for Health Research further bolsters collaborations between the UNC Cancer Outcomes Research Program and the Health Care Systems Research Network (HCSRN). In parallel, I was honored to be invited to serve as a consultant to the American College of Physicians' High Value Care Task Force on the topic area of hematuria evaluation. This work, in turn, led to additional research opportunities at the intersection of simulation modeling, implementation science and quality improvement, for which our group is developing a multi-faceted research agenda. These contributions led to my service on the American Urological Association's Guideline Panel for hematuria evaluation, which dramatically altered recommendations that will impact the care of the over 2 million US patients referred to urologists annually for this condition. Work in the NCI-funded Mentored Training in Dissemination and Implementation Research in Cancer (MT-DIRC) fellowship converged with these interests, laying the groundwork for large-scale pragmatic studies in the HCSRN.

I am indebted and thankful to the many mentors who inspired and taught me by their example to pursue a career in academic medicine. My academic interests in implementation science and health services research are animated by the questions and problems that arise in the care of patients in my areas of clinical expertise, specifically, bladder and prostate cancer. My background in clinical epidemiology dovetails with my research interests in hematuria diagnostic evaluation, and my interests in quality improvement and patient safety led to a body of work in opioid stewardship. These areas of scholarly focus led to a variety of applied research and service activities drawing on principles of delivery system science and care redesign. As an academic surgeon, I am motivated to seek the best possible treatment for my patients while seeking to inspire and educate the medical students and residents I work with, as my mentors did for me in those critical early phases of my own career. My vision for the future is to continue to build the expertise and collaborations necessary to establish a nationally recognized multidisciplinary patient-centered research program in medical decision-making and implementation science, intersecting with my contributions to our institutional mission of quality improvement. I believe this vision will contribute substantively to the larger goal of supporting my institution to become the premier public Academic Medical Center nationally.

Teaching Statement

As a clinically active faculty member, I have enjoyed the transition from student to teacher, mentoring residents and medical students on the urology service, and was honored to receive the Attending of the Year Award from our residents in 2014. I have also had the opportunity to mentor several junior faculty, at our institution and nationally, as well as medical students, residents, and graduate students in the School of Public Health on research projects. I have served as a doctoral dissertation committee member for multiple trainees in the Cancer Care Quality Training Program in the department of Health Policy and

Management and Predoctoral trainees in Cancer Epidemiology, departments in which I hold adjunct faculty positions, as well as in the Schools of Medicine and Nursing. As the beneficiary of years of mentorship from established physician scientists, I look forward to expanding my service in this capacity in the years to come, as we recruit additional academically oriented junior faculty members and establish a urologic oncology fellowship in our division. Alongside these local teaching and mentorship activities, I have enjoyed the opportunity to share insights from our scholarly work and quality improvement programs through publications, oral presentations, and workshops with numerous audiences locally, regionally, nationally, and internationally.

Service and Engagement Statement

Administratively, I served as the Physician Service Leader for our Department since 2009, working in a close multidisciplinary collaboration with colleagues on our inpatient service and the healthcare system's Performance Improvement and Patient Safety staff on multiple quality improvement projects. Our group has consistently exceeded organizational goals and national benchmarks for quality, efficiency, and patient experience. In more recent years, I have assumed institutional leadership roles in quality and safety, including ongoing institution-wide efforts to reduce the burden of catheter-associated urinary tract infections and improve the quality of medical documentation across the surgical services, exceeding organizational goals and national benchmarks. In recognition of these efforts, I was honored to receive the UNC Health Care System Friend of Nursing Award in 2017. Over the past several years, I became deeply involved with UNC's Opioid Stewardship initiative, serving as the physician lead for surgical services and assisting with spread of this work across institutions in our Health Care System. In 2018, I was appointed Associate Director of the UNC Institute for Healthcare Quality Improvement (IHQI) under the mentorship of Darren Dewalt, coaching improvement projects across the institution and leading efforts to develop physician and nurse leaders' improvement capacity. Completion of the Intermountain Healthcare Advanced Training Program in Healthcare Delivery Improvement supports my contribution in these roles, which naturally dovetail with my research interests and longer-term career goals. Transitioning into the role of Department Chair, I continue to be actively engaged in institutional quality improvement activities, serving as a physician lead for our Health Care System-wide Care Redesign initiative focused on optimizing blood product utilization and as the Clinical Department Chairs' liaison to the UNC Medical Center Improvement Council.

Outside the institution, I served as a member of the Scientific Advisory Board for the Bladder Cancer Advocacy Network, the national bladder cancer patient advocacy group from 2009-2017 and Chair of the BCAN Bladder Cancer Think Tank in 2017. In 2012, I was selected for the American Urological Association Leadership Program and was subsequently appointed to the AUA's Quality Improvement and Patient Safety Committee, for which I currently serve as Chair. In 2013, I was appointed to the Physician Consortium for Performance Improvement (PCPI) Outcomes Ad Hoc Committee, and in 2015, I was nominated to represent the Council of Medical Specialty Societies at PCPI, complementing the performance measurement activities at the AUA. In 2018, I was appointed to the Performance Measurement Committee of the American College of Physicians, further informing my work on measure development for the AUA. More recently, I was appointed to multiple Technical Expert Panels with the Centers for Medicare and Medicaid Services.

These include the Panel responsible for the Quality Measure Development Plan (MDP) and the Quality Measure Index (QMI), supporting the optimization of the quality measurement enterprise nationally. I serve as UNC's institutional representative to the High Value Practice Academic Alliance (HVPAA) and was appointed co-Director of their Cross-institutional Quality Improvement activities in 2018. The work with HVPAA provides opportunities to scale our local opioid stewardship work nationally, in partnership with the American Hospital Association. Most recently, I was selected as Chair-Elect of the AUA's Science and Quality Council, providing strategic oversight and leadership across the activities of the AUA's Practice Guidelines, Quality Improvement and Patient Safety, and Data Committees.

These national leadership roles, in turn, intersect with opportunities to position UNC at the vanguard of state- and national-level leadership in quality improvement, in partnership with the AUA and other national organizations. I feel incredibly fortunate to have had these opportunities for servant leadership, and look forward to continuing to mentor and sponsor junior colleagues' development both locally and nationally. My diverse portfolio of leadership experience in research, quality improvement, and patient safety informs my transition to the role of Urology Department Chair. I am honored to have these opportunities to support and serve the greater good of our institution and organized medicine on the national scale.