Friday, April 29, 2016
8:00 AM to 2:00 PM

Searle Center
Duke University Medical Center
Durham, North Carolina
KURe and PMRC Multidisciplinary Benign Urology Research Day

7:30 - 8:00 AM  Registration and Poster Set-up
Coffee, Tea, Light Breakfast

8:00 - 8:10 AM  Welcome and Introductions, Cindy Amundsen, MD, KURe PI and PD

8:10 - 9:00 AM  Moderators: Matt Fraser, PhD and Cindy Amundsen, MD

Keynote Speaker: Mark Zeidel, MD,
Urology Developmental Centers Program Beth Israel Deaconess Medical Center

Neural Control of Bladder Function:
From Urothelium to Brainstem to Forebrain

9:00 - 9:30 AM  Moderators: Ann Word, MD and Maggie Kuchibhatla, PhD

Oral Presentations (selected from submitted abstracts)

9:00 AM  Michael Odom, BS, East Carolina University
Characterization of the Proximal and Distal Rat Internal Pudendal Artery: Contrasting Morphology, Contraction, Relaxation and Neurotransmitter Release

9:15 AM  Eugene Cone, MD, Duke University
Disproportionate Use of Inpatient Care by Older Adults with Urinary Stone Disease

9:30 - 9:45 AM  Break/Refreshments

9:45 -10:45 AM  Moderators: Tony Visco, MD and Pat Seed, MD, PhD

9:45 AM  Adam Klausner, MD, Virginia Commonwealth University
Urodynamics 2.0: Time for an Upgrade

10:15 AM  Jon Routh, MD, Duke University
Comparative Effectiveness Research in Pediatric Urology

10:45 -11:45 AM  Poster Session and Refreshments

11:45 - 1:15 PM  Moderators: Glenn Preminger, MD and Kevin Weinfurt, PhD

11:45 AM  Johanna Hannan, PhD, East Carolina University
Erectile Dysfunction Pipe Dreams

12:15 PM  Presentation of Awards

12:25 PM  Keynote Speaker: William A. Ricke, PhD,
Urology O'Brien Centers Program, University of Wisconsin
Hormonal Regulation and Fibrosis in the Lower Urinary Tract

1:15 - 2:00 PM  Networking Lunch
Additional poster viewing
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This conference is supported by grant K12DK100024 from the NIDDK Duke Multidisciplinary K12 Urologic Research Career Development Program (KURE)

KURE Advisory Board

Stephen J. Freedland, M.D.
John P. Gearhart, M.D.
Maragatha Kuchibhatla, Ph.D.
Glenn M. Preminger, M.D.
Patrick C. Seed, MD, PhD
Anthony Visco, M.D.
Kevin Weinfurt, Ph.D.
R. Ann Word, M.D.

Distinguished Judges

Oral Presentation Finalists: KURE Advisory Board
Poster Presentation and Oral Presentation Awards:
  Johanna Hannan, PhD
  Adam Klausner, MD
  William A. Ricke, PhD
  Jon Routh, MD
  Mark Zeidel, MD

2016 Research Day Organizing Committee

Cindy L. Amundsen, MD (KURE PI and Program Director)
Matthew O. Fraser, PhD. (PMRC Director)
Friederike L. Jayes, DVM, PhD (KURE Program Coordinator)
Mimi Coker, MBA, RAA, AGM (Grants Administrator)
Laitoya R. Pittman (KURE Staff Assistant)
Trainee Competition (O-1)

Characterization of the Proximal and Distal Rat Internal Pudendal Artery: Contrasting Morphology, Contraction, Relaxation and Neurotransmitter Release

Odom, Michael R; Hannan, Johanna L

East Carolina University, Physiology Department, Greenville, NC

Research Area: Sexual Dysfunction

Trainee Competition (O-2)

Disproportionate use of Inpatient Care by Older Adults with Urinary Stone Disease

Cone, Eugene B1; Hammill, Bradley G1; Kaplan, Adam G1; Dale, Joanne1; Routh, Jonathan C1; Lipkin, Michael E.1; Preminger, Glenn M1; Schmader, Kenneth E2; Scales, Charles D1

1Div of Urology, Dept of Surgery, Duke University Medical Center, Durham NC;
2Duke University, Division of Geriatrics; GRECC, Durham VAMC

Research Area: Clinical Outcomes Research, Health Sciences Research, Nephrolithiasis,
Trainee Competition (P-1)

**Urologic Data on Adults with Spina Bifida: an Analysis from Two Large Clinics**

Young, Brian J¹; Shepard, Courtney L²; Joseph, David B³; Routh, Jonathan C¹; Wiener, John S¹

¹Duke University, Division of Urology, Durham, NC; ²University of Michigan, Department of Urology, Ann Arbor, MI; ³University of Alabama at Birmingham, Department of Urology, Birmingham, AL

**Research Area:** Pediatric Urology

Trainee Competition (P-2)

**Estimating the Economic Impact of Spina Bifida in the United States**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

Division of Urologic Surgery, Duke University Medical Center, Durham, NC

**Research Area:** Pediatric Urology

Trainee Competition (P-3)

**Repeat Procedure Rates for Open and Endoscopic Outcomes are Similarly High After Pediatric Bladder Stone Surgery**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

Division of Urologic Surgery, Duke University Medical Center, Durham, NC

**Research Area:** Clinical Outcomes Research, Pediatric Urology

Trainee Competition (P-4)

**Management of Bladder Stones is More Morbid in Spina Bifida Patients: a National Population-Level Analysis**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

Division of Urologic Surgery, Duke University Medical Center, Durham, NC

**Research Area:** Clinical Outcomes Research, Pediatric Urology
Trainee Competition (P-5)

Open Versus Minimally-Invasive Surgery in Ureteroneocystostomy: a Nationwide Analysis

Wang, Hsin-Hsiao S; Tejwani, Rohit; Wiener, John S; Routh, Jonathan C

Division of Urologic Surgery, Duke University Medical Center, Durham, NC

Research Area: Clinical Outcomes Research, Pediatric Urology

Trainee Competition (P-6)

Open vs. Minimally Invasive Surgical Approaches: Associated Post-Operative Complications of Pediatric Urologic Surgery in the United States

Tejwani, Rohit V1; Young, Brian J2; Wang, Hsin-Hsiao S2; Wolf, Steven3; Wiener, John S2; Routh, Jonathan C2

1Duke University School of Medicine, Durham, NC; 2Duke University Medical Center, Division of Urologic Surgery, Durham, NC; 3Department of Biostatistics and Bioinformatics, Durham, NC

Research Area: Health Sciences Research, Pediatric Urology

Funding: NIH Grant K08-DK100534

Trainee Competition (P-7)

Increased Pediatric Sub-specialization is Associated with Decreased Surgical Complication Rates for Inpatient Pediatric Urology Procedures

Tejwani, Rohit V1; Wang, Hsin-Hsiao S1; Greene, Nathaniel H2; Wolf, Steven3; Wiener, John S1; Routh, Jonathan C1

1Duke University Medical Center, Division of Urologic Surgery, Durham, NC; 2Duke University Medical Center, Division of Pediatric Anesthesia, Durham, NC; Duke University, 3Department of Biostatistics and Bioinformatics, Durham, NC;

Research Area: Health Sciences Research, Pediatric Urology, Medical Education/Training

Funding: NIH Grant K08-DK100534 (Routh)
Trainee Competition (P-8)

Contemporary Demographic and Treatment Patterns for Newborns Diagnosed with Disorders of Sex Development

Tejwani, Rohit V\(^1\); Adkins, Deanna W\(^2\); Young, Brian J\(^3\); Wolf, Steven\(^4\); Alkazemi, Muhammad H\(^1\); Purves, Todd\(^3\); Wiener, John S\(^3\); Routh, Jonathan C\(^3\)

\(^1\)Duke University School of Medicine, Durham, NC;
\(^2\)Duke University Medical Center, Department of Pediatrics, Durham, NC;
\(^3\)Duke University Medical Center, Division of Urologic Surgery, Durham, NC;
\(^4\)Duke University, Department of Biostatistics and Bioinformatics, Durham NC;

Research Area: Congenital Urogenital Anomalies, Health Sciences Research, Pediatric Urology

Funding: NIH Grant K08-DK100534

Trainee Competition (P-9)

Geographic Variation in Treatment for Patients with Disorders of Sex Development

Tejwani, Rohit V\(^1\); Adkins, Deanna W\(^2\); Young, Brian J\(^3\); Wolf, Steven\(^4\); Alkazemi, Muhammad H\(^1\); Purves, Todd\(^3\); Wiener, John S\(^3\); Routh, Jonathan C\(^3\)

\(^1\)Duke University School of Medicine, Durham, NC;
\(^2\)Duke University Medical Center, Department of Pediatrics, Durham, NC;
\(^3\)Duke University Medical Center, Division of Urologic Surgery, Durham, NC;
\(^4\)Duke University, Department of Biostatistics and Bioinformatics, Durham NC;

Research Area: Congenital Urogenital Anomalies, Pediatric Urology

Funding: NIH Grant: K08-DK100534

(P-10)

Predictive Toxicology and Computer Simulation of Male Reproductive Development

Leung, Maxwell

National Center for Computational Toxicology, US EPA, Research Triangle Park, North Carolina USA

Research Area: Congenital Urogenital Anomalies, Pediatric Urology, Sexual Dysfunction
Trainee Competition (P-11)

High Glucose in the Major Pelvic Ganglion Increases Sympathetic Neurons, Decreases Parasympathetic and Nitrergic Neurons and Promotes Apoptosis

Gatto, Anthony; Shope, Ashten; Pak, Elena; Hannan, Johanna L

East Carolina University, Department of Physiology, Greenville, NC

Research Area: Sexual Dysfunction

Funding: ECU Start-up (JLH)

(P-12)

Initial Pharmacotherapy for Overactive Bladder Symptoms Among Medicare Beneficiaries

Scales, Charles D¹; Greiner Melissa A²; Curtis, Lesley H²; Hammill Bradley G²; Peterson, Andrew C³; Amundsen, Cindy L⁴; Martinez-Bianchi Viviana S⁵; Hefflin Mitchell T⁶; Schmader, Kenneth E⁶

¹Duke Urology and Duke Clinical Research Institute, Durham, NC; ²DCRI, Durham, NC; ³Division of Urology, Duke University, Durham, NC; ⁴Division of Urogynecology and Reconstructive Surgery and Urologic Surgery, Duke University, Durham, NC; ⁵Department of Community & Family Medicine, Duke University, Durham, NC; ⁶Division of Geriatrics, Department of Medicine, Duke University and GRECC Durham VA Medical Center, Durham, North Carolina

Research Area: Health Sciences Research

Funding: NIH/NIA GEMSSTAR program (R03AG048130) and American Geriatric Society Dennis W. Jahnigen Career Development Award (Scales)

(P-13)

OAB Without an “Overactive Bladder”: Insights from an Acute Prostaglandin E2 Rat Model

Hokanson, James A; Langdale, Christopher L; Grill, Warren M

Duke University, Biomedical Engineering, Durham, NC

Research Area: Overactive Bladder (OAB)

Funding: NIDDK K12 DK100024 and GSK Bioelectronics Research Program
(P-14)

Are Epigenetic Mechanisms Involved in the Development of Urgency Urinary Incontinence?

Siddiqui, Nazema Y1; Burke, Emily E2; Lucas, Joseph E3; Amundsen, Cindy L1; Murphy, Susan K1

1Duke University Medical Center, Department of Obstetrics & Gynecology, Durham, North Carolina; 2Duke University Medical Center, Department of Biostatistics and Bioinformatics Durham, North Carolina; 3Duke University Medical Center, Department of Electrical and Computer Engineering; Durham, North Carolina

Research Area: Female Pelvic Medicine, "Omic" Related Research –Epigenomics, Overactive Bladder (OAB)

Funding: K12 (KURe)

(P-15)

Inflammasomes are Important Mediators of Cyclophosphamide-Induced Bladder Inflammation

Hughes, Monty F1; Vivar, Nivardo P2; Kennis, James G2; Pratt-Thomas Jeffery D2; Lowe Danielle W3; Shaner, Brooke E5; Nietert, Paul J5; Spruill, Laura S6; Purves, Todd J1

1Duke University Medical Center, Department of Surgery, Division of Urology, Durham, NC; 2Medical University of South Carolina, Department of Urology, Charleston, SC; 3Medical University of South Carolina, Department of Pediatrics, Charleston, SC; 4Medical University of South Carolina, Department of Pharmaceutical and Biomedical Sciences, Charleston, SC; 5Medical University of South Carolina, Department of Public Health Sciences, Charleston, SC; 6Medical University of South Carolina, Department of Pathology, Charleston, SC

Research Area: Female Pelvic Medicine, Urodynamics, Bladder inflammation

(P-16)

The NLRP3 Inflammasome Mediates Inflammation Produced by Bladder Outlet Obstruction

Hughes, Monty F1; Hill, Hayden M2; Wood, Case M2; Edmondson, Andrew T2; Dumas, Aliya2; Foo, Wen-Chi1; Oelsen, James M; Rac, Goran2; Purves, Todd J1

1Duke University Medical Center, Department of Surgery, Division of Urology, Durham, NC; 2Medical University of South Carolina, Department of Urology, Charleston, SC; 3Duke University Medical Center, Department of Pathology, Durham, NC

Research Area: Female Pelvic Medicine, Urodynamics, Bladder inflammation Bladder Outlet Obstruction

Funding: NIH - NIDDK - R01DK103534
Trainee Competition (P-17)

The Contribution(s) of Transforming Growth Factor-Beta to Bladder Afferent Nerve Hyperexcitability with Cyclophosphamide-Induced Cystitis

Gonzalez, Eric J¹; Heppner, Thomas J²; Nelson, Mark T²; Vizzard, Margaret A³

¹Duke University, Biomedical Engineering, Durham, NC; ²University of Vermont, Pharmacology, Burlington, VT; ³University of Vermont, Neurological Sciences, Burlington, VT

Research Area: Urodynamics

Funding: DK051369, DK060481, DK053832, HL121706, HL095488

Trainee Competition (P-18)

Phasic Activation of the External Urethral Sphincter Increases Voiding Efficiency in the Rat and the Cat

Langdale, Christopher L¹; Grill, Warren M², 3, 4

¹Duke University, Department of Biomedical Engineering, Durham, NC; ²Duke University, Department of Electrical and Computer Engineering, Durham, NC; ³Duke University, Department of Neurobiology, Durham, NC; ⁴Duke University, Department of Surgery, Durham, NC

Research Area: Urodynamics, Voiding Dysfunction/Urinary Retention

Funding: National Institutes of Health (R01 NS050514)

Trainee Competition (P-19)


Danziger, Zachary C¹; Grill, Warren M¹, 2, 3, 4

¹Duke University, Department of Biomedical Engineering, Durham NC; ²Duke University, Department of Neurobiology, Durham NC; ³Duke University, Department of Surgery, Durham NC; ⁴Duke University, Department of Electrical and Computer Engineering, Durham NC

Research Area: Urodynamics

Funding: NIH R01 NS050514
Trainee Competition (P-20)

Outcomes of Transobturator Sling Placement in Women with Incontinence Secondary to Radical Prostatectomy and Radiotherapy for Prostate Cancer: A Systematic Review and Meta-analysis

Ajay, Divya¹; Potts, Bradley²; Feltner, Cynthia³; Peterson, Andrew¹

¹Division of Urology, Department of Surgery, Duke University Medical Center, Durham, NC; ²School of Medicine, Duke University, Durham, NC; ³ Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC

Research Area: Clinical Outcomes Research, Urinary Reconstruction, Voiding Dysfunction/Urinary Retention

Trainee Competition (P-21)

Hydration Status Is Not Associated With Urinary Incontinence

Willis-Gray, Marcella G¹; Wu, Jennifer M¹; Markland, Alayne D²

¹University of North Carolina at Chapel Hill, Department of OBGYN, Chapel Hill, NC; ²University of Alabama-Birmingham, Department of Medicine, Birmingham, Al³

Research Area: Voiding Dysfunction/Urinary Retention

Trainee Competition (P-22)

Urinary Retention After Male Transobturator Sling Resolves Spontaneously Without the Need for Surgical Intervention; an Algorithmic Approach to Prevent Unnecessary Procedures.

Allio, Bryce A; Ajay, Divya; Peterson, Andrew

Duke, Urology, Durham, NC

Research Area: Voiding Dysfunction/Urinary Retention

Trainee Competition (P-23)

Evaluation of a Novel Single-Use Flexible Ureteroscope

Dale, Joanne A¹; Kaplan, Adam G¹; Radvak, Daniela²; Shin, Richard¹; Ackerman, Anika¹; Chen, Tony¹; Scales Jr., Charles D¹; Ferrandino, Michael N¹; Simmons, Neal W²; Preminger, Glenn M¹; Lipkin, Michael E¹

¹Duke University Health System, Division of Urologic Surgery, Durham, North Carolina; ²Duke University, Department of Mechanical Engineering, Durham, North Carolina

Research Area: Nephrolithiasis
Trainee Competition (P-24)

Comparison of an Electric Pulse Lithotripter to the Holmium Laser: Stone Fragmentation Efficiency and Impact on Flexible Ureteroscope Deflection and Flow

Kaplan, Adam G1; Chen, Tony T1; Shin, Richard1; Cabrera, Fernando1; Ackerman, Anicka1; Radvak, Daniela2; Dale, Joanne1; Sankin, Georgy2; Zhong, Pei2; Scales, Charles D1; Ferrandino, Michael N1; Simmons, Neal W2; Preminger, Glenn M1; Lipkin, Michael E1

1Duke University Medical Center, Urology, Durham, NC; Duke University, 2Department of Mechanical Engineering and Materials Science, Durham, NC

Research Area: Nephrolithiasis

Funding: Lithotech Medical Group

Trainee Competition (P-25)

Evaluation of Contact Electropulse Lithotripsy: in Vitro Assessment of Cavitation and Stone Fragmentation

Kaplan, Adam G1; Sankin, Georgy2; Gautho, Morgan2; Yang, Chen2; Dale, Joanne1; Preminger, Glenn M1; Lipkin, Michael E1; Zhong, Pei2

1Duke University Medical Center, Urology, Durham, NC; 2Duke University, Department of Mechanical Engineering and Materials Science, Durham, NC

Research Area: Nephrolithiasis

Funding: Lithotech Medical Group, Pratt Fellow Program

Trainee Competition (P-26)

Hospital Based Economic Impact and Utilization of Imaging Studies are Increasing for Pediatric Urolithiasis

Young, Brian J; Wolf, Steven; Wang, Hsin-Hsiao S; Tejwani, Rohit; Purves, Todd J; Wiener, John S; Routh, Jonathan C

Duke University, Division of Urology, Durham, NC

Research Area: Nephrolithiasis

Funding: NIDDK K08-DK100534
Digital Tomosynthesis: A Viable Alternative to Non-Contrasted Computed Tomography for the Follow-up of Nephrolithiasis

Cabrera, Fernando J; Kaplan, Adam G; Youssef, Ramy F; Tsivian, Matvey; Shin, Richard H; Scales, Charles D; Preminger, Glenn M; Lipkin, Michael E

Duke University Medical Center, Urology, Durham, NC

Research Area: Uroradiology

Cell Therapy for Neurogenic Detrusor Overactivity: Proof of Concept using Intramural Implantation of Adrenal Medullary Chromaffin Cells following Chronic Suprasacral Spinal Cord Injury

Brooks, Jillene M1; Degoski Danielle J1; Dolber, Paul C3; Fraser, Matthew O3

1Institute for Medical Research, Durham, NC; 2University of Texas Medical Branch, Surgery, Galveston, TX; 3Duke University and Durham VA Medical Centers, Surgery / Research and Development, Durham, NC

Research Area: Cell Therapy, Neurogenic Bladder, Therapeutic Development

Funding: VA RRD Pilot Study Funding
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*Trainee competition eligible