

Division of Pediatric Urology

DIVISION PROFILE	
Number of Faculty	7
Number of Fellows	
Clinical Fellows	1
Research Fellows	1
Number of Support Personnel	21
Annual Total Grant Support (direct)	\$126,865
Annual Total Industry Contracts (direct)	\$10,488
Number of Peer Reviewed Publications	6
Patient Encounters	
Outpatient	11,524
Inpatient	275
Total Surgery Cases (Inpatient and Outpatient)	2,327

FACULTY LISTING

Curtis A. Sheldon, MD, Professor of Surgery, Division Director
William Robert DeFoor, Jr, MD, Assistant Professor of Surgery
Elizabeth C. Jackson, MD, Associate Professor
Alfor Lewis, PhD, Research Assistant Professor
Eugene Minevich, MD, Assistant Professor of Surgery
Pramod P. Reddy, MD, Assistant Professor of Surgery
Jeffrey Wacksman, MD, Associate Professor of Clinical Surgery



*Left to Right: W. DeFoor, C. Sheldon, E. Jackson,
P. Reddy, J. Wacksman, E. Minevich*

OVERVIEW

Our vision is to be the leader in pediatric urology medical and surgical care, research and education nationally and internationally. The Pediatric Urology team at Cincinnati Children's is committed to providing family centered-care with compassion, respect and dignity. The division provides fetal evaluation and serves the health care needs of patients through infancy, childhood, adolescence and young adulthood. Our mission

includes developing research and teaching programs of the highest ethical and scientific standards that ensure delivery of the highest quality care.

The division manages a full range of urologic care from the most basic urologic issues to the performance of highly complex genitourinary reconstructive surgery. Outpatient clinic sites include Main Campus, Anderson, Fairfield, Harrison, Mason, Northern Kentucky and West Chester. Additionally, surgical procedures are performed at Main Campus, Mason and SES.

The division uses a multidisciplinary care focus for our bladder patients and patients with myelomeningocele. Elizabeth Jackson, MD and three Pediatric Nurse Practitioners are jointly developing protocols, patient education materials and support groups with an emphasis on care management as well as outcome measures.

Pediatric Urology is committed to the growth and development of the Urogenital Center. This multidisciplinary center is to be a national and global leader for the care of children with complex pelvic abnormalities, including vaginal, genital, urinary and anorectal abnormalities. The center is led by Curtis Sheldon, MD and in fiscal year 2006, the Urogenital Center performed 51 complex surgical procedures.

The division is committed to the education of urology residents from the University of Cincinnati and the University of Kentucky within inpatient and outpatient care settings, the emergency room and operating rooms. The division has a two-year pediatric urology fellowship program. There are a total of two fellows in the fellowship program every year, the first year is dedicated to clinical training and the second year is focused on basic science research.

The division's research program applies basic science principles and techniques to address pediatric urology problems. Pramod Reddy, MD manages his research laboratory within the division of Developmental Biology and supervises the fellow during his/her basic science research year. Dr. Reddy is studying the basis of development of the urinary bladder. Specifically, Dr. Reddy's laboratory is investigating the molecular basis of organogenesis of the urinary bladder using *Xenopus*. Dr. Reddy is currently funded under both an NIH K08 grant and a CCHMC Trustee grant. Alfor Lewis, PhD, is a co-investigator on a study addressing genitourinary smooth muscle development. W. Robert DeFoor, MD, and Dr. Jackson are involved in an industry trial on the treatment of detrusor overactivity and the division is a subcontract on an NIH study on urinary stone disease.

HIGHLIGHTS

The Urogenital Center provides expert, comprehensive care and is a resource for the education of physicians, nurses, patients and families. Dr. Sheldon is a nationally recognized authority in performing complex genitourinary reconstructive surgery and kidney transplantation. Dr. Sheldon oversees a monthly/bimonthly Complex Urogenital Clinic, which addresses the comprehensive medical, nursing and surgical management of patients with complex genitourinary conditions and patients requiring renal transplantation after bladder reconstruction or creation of neobladder. Division faculty and clinical fellows/residents are committed to the complex medical and surgical management of these complex patients. Debbie Reeves, RN, and Lisa Creelman, RN, case manage all patients who are seen in the Complex Urogenital Clinic and oversee the development of the Center database, website and communication center. The Urogenital Center is partnering with Cincinnati Children's pediatric surgeons, Alberto Peña, MD, and Marc Levitt, MD, of the Colorectal Center for Children and gynecologist, Leslie Breech, MD, of Adolescent Medicine. These surgeons manage a high volume of patients with anorectal malformations who will also require urological, surgical and/or gynecological interventions.

The faculty has a high level of expertise in the care of urologic medical and surgical conditions such as hypospadias, undescended testis, vesicoureteral reflux, ureteropelvic junction obstruction, UTIs etc. The urologists surgically manage genitourinary tumors, including testes tumors, renal tumors and genitourinary rhabdomyosarcoma. Dr. DeFoor has initiated an Uro-oncology program with the Hematology/Oncology division. Dr. Reddy is involved with the Fetal Care Center performing pre-natal evaluations for diagnosed fetal urologic abnormalities. Additionally, faculty interests include surgical intervention high intra-abdominal testis through testis autotransplantation. Eugene Minevich, MD leads our Stone Management Program in the care

and treatment of patients with kidney/urinary tract stones through the use of Extracorporeal Shock Wave Lithotripsy and minimally invasive endoscopic lithotripsy.

We are fortunate to attract outstanding candidates to train in our fellowship program. David Kitchens, MD, from the University of Cincinnati began his fellowship in July 2004 and graduated in June of 2006. Shumyle Alam, MD from the University of Illinois began his fellowship in July of 2005. Samy Heshmat, MD will begin his pediatric urology fellowship in Sept. of 2006 and he comes to us from the University of Toronto in Canada. Under the leadership of Dr. Reddy, Director of the Pediatric Urology Fellowship Program, our program received a two-year re-accreditation from the ACGME without citations.

Dr. Minevich is Secretary for the American Association of Pediatric Urologists. Dr. DeFoor has completed his three-year program at Harvard School of Public Health receiving his MPH degree in November of 2005. Dr. DeFoor and Dr. Jackson are co-investigators on a clinical trial which addresses the treatment of detrusor overactivity associated with a neurological condition in the pediatric patient. Dr. DeFoor is the principal site investigator on an NIH Litholink Urolithiasis subcontract. Additionally, Dr. DeFoor was awarded a research grant by the Kidney Foundation of Greater Cincinnati for his clinical study entitled, "Efficacy of Gentamicin Bladder Irrigations in Complex Urologic patients."

Dr. Jackson oversees (1) the Urology division's participation in the Myelomeningocele Clinic and (2) Healthy Bladder Clinics. For FY 2006, there were 1,588 healthy bladder clinic visits. Three Pediatric Nurse Practitioners and Dr. Jackson manage Healthy Bladder clinics at Main Campus, Mason, Fairfield, Northern Kentucky and West Chester and provide biofeedback options. Dr. Jackson has established a training program for the healthy bladder clinic which has been attended by nurses from Korea and clinical personnel in the U.S. and from Croatia. The division provides Urodynamic testing services for invasive and non-invasive bladder studies at Main Campus. The division performed 1,115 Urodynamic studies in fiscal year 2006. Nan Tobias, PNP provides clinical oversight, management and discharge planning for Urology inpatients.

The division's basic science research efforts are under the direction of Dr. Pramod Reddy. Dr. Reddy's research work is focused on understanding the basis of genitourinary abnormalities in humans. His laboratory is studying the molecular basis of the organogenesis of the urinary bladder in vertebrates, using *Xenopus* as an experimental system. Dr. Reddy is funded under (1) an NIH K08 grant, entitled "Molecular Basis of Bladder Organogenesis" and (2) a CCHMC Trustee grant. Dr. Alfor Lewis is partially funded on an NIH U01 grant as a co-investigator with Dr. Lessard on a study entitled, "Murine Atlas of Genitourinary Smooth Muscle Development."

TRAINING

David Kitchens, MD	PL-VII	University of Cincinnati
Shumyle Alam, MD	PL-VII	University of Illinois

GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS

Grant and Contract Awards

DeFoor, W		
Urine Crystal Inhibition in Pediatric Nephrolithiasis National Institutes of Health (Litholink Corporation subcontract) R44 DK 071375	04/21/06 – 04/29/07	\$11,115
Reddy, P		
Molecular Basis of Bladder Organogenesis National Institutes of Health K08 DK 069608	02/01/05 – 1/31/10	\$115,750/\$578,750
Current Year Direct		\$126,865

Industry Contracts

DeFoor, W Watson Laboratories	\$10,488
Current Year Direct Receipts	\$10,488
TOTAL	\$137,353

PUBLICATIONS

1. Defoor W, Asplin J, Jackson E, Jackson C, Reddy P, Sheldon C, Minevich E. Results of a prospective trial to compare normal urine supersaturation in children and adults. *J Urol* 2005;174(4 Pt 2):1708-10.
1. Defoor W, Ferguson D, Mashni S, Creelman L, Reeves D, Minevich E, Reddy P, Sheldon C. Safety of gentamicin bladder irrigations in complex urological cases. *J Urol* 2006;175(5):1861-4.
2. Defoor W, Minevich E, Reddy P, Barqawi A, Kitchens D, Sheldon C, Koyle M. Perforation of Malone antegrade continence enema: diagnosis and management. *J Urol* 2005;174(4 Pt 2):1644-6.
3. Minevich E. Ureteroscopic or extracorporeal shock-wave lithotripsy for distal ureteral stones in children? *Nat Clin Pract Urol* 2005;2(11):532-3.
4. Minevich E, Defoor W, Reddy P, Nishinaka K, Wacksman J, Sheldon C, Erhard M. Ureteroscopy is safe and effective in prepubertal children. *J Urol* 2005;174(1):276-9; discussion 279.
5. Ellsworth PI, Borgstein NG, Nijman RJ, Reddy PP. Use of tolterodine in children with neurogenic detrusor overactivity: relationship between dose and urodynamic response. *J Urol* 2005;174(4 Pt 2):1647-51; discussion 1651.