



Urology



ALAN B. RETIK, MD
Urologist-in-Chief

Boston Children's Hospital's Department of Urology provides comprehensive evaluation, diagnosis, treatment and follow-up care to children with congenital and acquired disorders of the genitourinary tract. Our team of internationally renowned pediatric urologists has extensive experience delivering innovative care for the full range of genitourinary tract disorders, from the most common to the most rare and complex.

Scheduling

Boston Children's Hospital

300 Longwood Avenue, Hunnewell 3
Boston, MA 02115
617-355-7796 | childrenshospital.org/urology

We also see patients in:

- Bedford, NH
- Brockton, MA
- Lexington, MA
- Nashua, NH
- Norwood, MA
- Peabody, MA
- Waltham, MA
- Weymouth, MA

Research

Research in our department currently focuses on prenatal hydronephrosis, vesicoureteral reflux, adolescent varicocele, bladder exstrophy, human factors influenced in clinical outcomes, hypospadias, undescended testicles, laparoscopic surgery, intersex conditions and new surgical techniques and procedures employing robotic-assisted surgery.

In addition, we have a robust program in basic science research, involving tissue engineering, proteomics, sperm preservation in cancer patients and bladder physiology.

Training

Our department trains urology residents from Brigham and Women's Hospital, Massachusetts General Hospital, Lahey Clinic and Boston University. Each year, two fellows are selected from a group of national and international candidates to participate in the hospital's highly regarded three-year accredited fellowship program in pediatric urology.

In addition, the department's laboratory offers a research elective to undergraduate students from Harvard and other universities, as well as medical students and residents from a variety of training programs.

childrenshospital.org/fellowship

International

For families residing outside of the United States, contact Boston Children's International Health Services, which facilitates the medical review of patient records and appointment scheduling and provides assistance with customs and immigration, transportation and hotel and housing accommodations.

01-617-355-5209 | childrenshospital.org/international
international.center@childrens.harvard.edu

Highlights

- Ranked #1 by *U.S. News & World Report* in 2011-2012 for pediatric urology and kidney disorders
- First pediatric urology department at a major children's hospital
- Performed the first minimally invasive open procedure to correct pediatric ureteral reflux
- First laparoscopic removal of a kidney in a child in the eastern United States
- Inaugural creation of a tissue-engineered organ (bladder)
- First training program in robotic-assisted surgery
- Developed the first comprehensive early bladder management program for neurogenic bladder dysfunction

Boston Children's Department of Urology is the largest pediatric urology service in the world.

- 3,100 surgical procedures each year
- 18,000 outpatient visits
- 12 world-renowned faculty members
- Urodynamics laboratory and uroradiology unit
- More robotic-assisted surgeries performed than any other pediatric hospital

Areas of expertise

Our team evaluates and treats a wide variety of conditions, including:

- Ambiguous genitalia
- Bladder and cloacal exstrophy
- Conditions requiring robotic-assisted laparoscopic surgery
- Congenital adrenal hyperplasia
- Hydronephrosis
- Hypospadias
- Multicystic dysplastic kidney
- Myelodysplasia and neurogenic bladder dysfunction
- Stone disease
- Testicular torsion
- Trauma
- Tumors of the genitourinary system
- Undescended testes
- Ureteropelvic junction obstruction (UPJ)
- Vaginal agenesis
- Varicocele
- Vesicoureteral reflux

Clinical programs

Andrology Program

Focuses on diseases that affect male hormonal and reproductive function, including undescended testes, testicular torsion and varicocele.

617-355-7796 | childrenshospital.org/andrology

Center for Bladder Exstrophy Care and Support Group

Advocating early intervention, provides surgical correction and long-term follow-up care to children born with bladder exstrophy.

617-355-3896 | childrenshospital.org/exstrophy

Center for General Pediatric Urology

Cares for children with disorders of the genitourinary tract, offering unrivaled expertise and state-of-the-art treatments.

617-355-7796 | childrenshospital.org/genurology

Center for Genitourinary Tissue Reconstruction

Repairs or reconstructs dysfunctional components of the genitourinary tract using the patient's own tissue.

Center for Minimally Invasive Surgery

Using laparoscopic, robotic and endoscopic surgical procedures, urologists correct many disorders with minimal discomfort to the patient.

childrenshospital.org/mininvasive

Center for Perinatal Urology

Using early intervention techniques, some genitourinary anomalies are identified and treated *in utero*; others are effectively managed postnatally.

617-355-7796 | childrenshospital.org/periurology

Center for Robotic and Minimally Invasive Reconstructive Surgery

Urologists with unrivaled expertise perform robotic surgery for many conditions, which results in less pain, faster recoveries, smaller scars and more satisfied patients and families.

childrenshospital.org/robotics

Gender Management Service Clinic

The first program in the country to treat children with disorders of sexual differentiation. Our team works with patients and families to find treatments that work best for everyone involved.

617-355-6116 | childrenshospital.org/gems

Kidney Stone Center

Cares for children with kidney stones, those who previously had them and those at risk for developing them.

617-355-2080 | childrenshospital.org/stone

Neurourology Program

Treats children with various types of bladder dysfunction, myelodysplasia and spinal disorders, and collaborates with Boston Children's Neuroscience experts to maximize each child's quality of life.

617-355-7796 | childrenshospital.org/neurourology

Urologic Tumors Program

Cares for children with urologic tumors (kidney, bladder and testes) with treatments tailored for individual patient and family needs.

617-355-7796 | childrenshospital.org/uroltumor

Vesicoureteral Reflux Program

Provides care that includes antibiotics, imaging tests, surgery and basic management to prevent infections that can damage the kidney.

617-355-7796 | childrenshospital.org/vur

Voiding Improvement Program

Evaluates children with voiding issues through questionnaires, physical examination, urinalysis, ultrasound and other tests.

617-355-7796 | childrenshospital.org/vip

Our team

Stuart B. Bauer, MD

Associate Director, Neurourology
Senior Associate in Urology

Joseph G. Borer, MD

Co-director, Center for Robotic Surgery
Director, Center for Bladder Exstrophy
Director, Neurourology
Assistant in Urology

Marc Cendron, MD

Assistant in Urology

Bartley G. Cilento, Jr., MD, MPH

Co-director, Kidney Stone Center
Assistant in Urology

David A. Diamond, MD

Associate in Urology

Carlos R. Estrada, Jr., MD

Physician Director, Voiding Improvement Program
Director, Myelodysplasia Clinic
Assistant in Urology

Richard S. Lee, MD

Assistant in Urology

James Mandell, MD

Chief Executive Officer, Boston Children's Hospital
Senior Associate in Urology

Caleb P. Nelson, MD, MPH

Co-director, Kidney Stone Center
Assistant in Urology

Hiep T. Nguyen, MD

Co-director, Center for Robotic and Minimally Invasive
Reconstructive Surgery
Director, Robotic Surgery Research and Training
Assistant in Urology

Alan B. Retik, MD

Urologist-in-Chief

Richard N. Yu, MD, PhD

Assistant in Urology