

Surgery

Meet our team

The Department of Pediatric Surgery strives to provide premier clinical care to children in both outpatient and inpatient settings. Caring for an average of 8,600 outpatient annually and performing more than 4,000 operative procedures each year, Boston Children's is one of the largest pediatric surgery programs in the world. Our team listens to you and your child. We work collaboratively with you to design a plan of treatment appropriate to your child's condition and unique circumstances. We're constantly engaged in clinical research designed to come up with new strategies for diagnosis and treatment.



SIGRID BAIRDAIN, MD | 617-355-3038

Locations: Boston

Clinical Interests: Prenatal Counseling, Fetal and Neonatal Surgery, Gastrointestinal Motility Disorders, Minimally Invasive Surgery

Board Certification: American Board of Surgery, Surgical Critical Care



THOMAS E. HAMILTON, MD | 617-355-3038

Locations: Boston, Lexington

Clinical Interests: Esophageal Atresia, Pediatric Surgical Oncology, Neonatal Surgery, Pediatric General Surgery

Board Certification: General Surgery, Pediatric Surgery



TERRY L. BUCHMILLER, MD | 617-355-8445

Locations: Boston, Weymouth

Clinical Interests: Prenatal Counseling, Fetal and Neonatal Surgery, Gastrointestinal Motility Disorders, Minimally Invasive Surgery

Board Certification: General Surgery, Pediatric Surgery



TOM JAKSIC, MD, PHD | 617-355-9600

Surgical Director, Center for Advanced Intestinal Rehabilitation

Locations: Boston, North Dartmouth

Clinical Interests: Neonatal and Pediatric General Surgery, Short Bowel Syndrome, Thoracic Surgery

Board Certification: General Surgery, Pediatric Surgery, Surgical Critical Care



CATHERINE C. CHEN, MD, MPH | 617-355-0535

Locations: Boston, Peabody

Clinical Interests: Neonatal Surgery, Pediatric General Surgery, Thoracic Surgery

Board Certification: General Surgery, Pediatric Surgery



RUSSELL W. JENNINGS, MD | 617-355-3038

Surgical Director, Esophageal Atresia Treatment Program

Location: Boston

Clinical Interests: Esophageal Atresia and Esophageal Reconstruction, Tracheomalacia, Airway Anomalies, Minimally Invasive Surgery, Neonatal Surgery, Pediatric General Surgery, Thoracic Surgery

Board Certification: General Surgery, Pediatric Surgery



BELINDA HSI DICKIE, MD | 617-355-7800

Locations: Boston

Clinical Interests: Pediatric General Surgery, Surgical Critical Care

Board Certification: General Surgery, Pediatric Surgery



HEUNG BAE KIM, MD | 617-355-8544

Director, Pediatric Transplant Center

Location: Boston

Clinical Interests: Liver, Intestine and Kidney Transplantation, Mid-aortic Syndrome, Minimally Invasive Surgery, Neonatal Surgery, Pediatric General Surgery, Thoracic Surgery

Certification: American Society of Transplant Surgeons

Board Certification: General Surgery, Pediatric Surgery, Transplantation



STEVEN J. FISHMAN, MD | 617-355-3040

Co-director, Vascular Anomalies Center

Locations: Boston

Clinical Interests: Pediatric General Surgery, Motility Disorders, Thoracic Surgery, Vascular Anomalies

Board Certification: General Surgery, Pediatric Surgery



CRAIG W. LILLEHEI, MD | 617-355-3039

Location: Boston, Norwood, North Dartmouth

Clinical Interests: Neonatal and Pediatric General Surgery, Inflammatory Bowel Disease, Surgical Critical Care, Thoracic Surgery

Board Certification: General Surgery, Pediatric Surgery, Surgical Critical Care



BIREN MODI, MD | 617-355-2458
Locations: Boston, Waltham
Clinical Interests: Endocrine Surgery, Neonatal and Pediatric General Surgery, Intestinal Failure and Short Bowel Syndrome, Thoracic Surgery
Board Certification: General Surgery, Pediatric Surgery



C. JASON SMITHERS, MD | 617-355-3038
Location: Boston
Clinical Interests: Pediatric General and Thoracic Surgery, Minimally Invasive Surgery, Esophageal Atresia, Surgical Critical Care, Congenital Diaphragmatic Hernia, Vascular Anomalies, Global Health
Board Certification: General Surgery, Pediatric Surgery, Surgical Critical Care



DAVID P. MOONEY, MD, MPH | 617-355-0535
 Director, Trauma Center
Locations: Boston, Milford, Waltham
Clinical Interests: Abdominal Surgery, Pediatric General Surgery, Thoracic Surgery, Trauma Surgery
Board Certification: General Surgery, Pediatric Surgery



SAM RICE-TOWNSEND, MD | 617-355-6915
Locations: Boston
Clinical Interests: Pediatric General Surgery, Surgical Critical Care
Board Certification: General Surgery, Pediatric Surgery



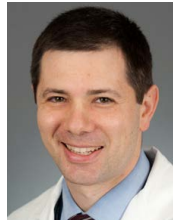
KONSTANTINOS "GUS" PAPADAKIS, MD | 617-355-6915
Locations: Boston, Weymouth
Clinical Interests: Minimally Invasive Surgery, Pediatric General Surgery, Oncology, Thoracic Surgery, Genitourinary Surgery
Board Certification: General Surgery, Pediatric Surgery



KHASHAYAR VAKILI, MD | 617-355-8544
Location: Boston
Clinical Interests: Liver, Kidney and Intestine Transplantation, Vascular Surgery
Certification: American Society of Transplant Surgeons
Board Certification: General Surgery



MARK PUDER, MD, PHD | 617-355-1838
Locations: Boston, Andover, Lawrence
Clinical Interests: Neonatal Surgery, Pediatric General Surgery, Short Bowel Syndrome, Thoracic Surgery
Board Certification: General Surgery, Pediatric Surgery



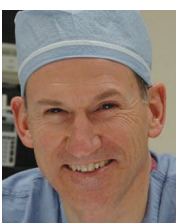
BRENT WEIL, MD | 617-355-3039
Locations: Boston, Waltham
Clinical Interests: Pediatric Surgical Oncology, Pediatric General Surgery, Inflammatory Bowel Disease, Minimally Invasive Surgery
Board Certification: Surgery, Pediatric Surgery



SHAWN J. RANGEL, MD, MSCE | 617-355-6915
Locations: Boston, Peabody
Clinical Interests: Neonatal Surgery, Pediatric General Surgery, Thoracic Surgery, Anorectal Malformations, Surgical Quality & Safety
Board Certification: General Surgery, Pediatric Surgery



CHRISTOPHER B. WELDON, MD, PHD | 617-355-4503
Locations: Boston, Waltham
Clinical Interests: Pediatric Surgical Oncology, Pediatric Surgery, General Surgery, Critical Care
Board Certification: General Surgery, Pediatric Surgery, Surgical Critical Care



ROBERT C. SHAMBERGER, MD | 617-355-8326
 Chief, Department of Surgery
Locations: Boston, Waltham, Lexington
Clinical Interests: Pediatric Oncology, Inflammatory Bowel Disease, Chest Wall Deformities, Thoracic Surgery, Minimally Invasive Surgery
Board Certification: General Surgery, Pediatric Surgery



JILL ZALIECKAS, MD | 617-355-6019
Locations: Boston, Brockton
Clinical Interests: Neonatal Surgery, Pediatric General Surgery, Surgical Critical Care, Trauma Surgery, Inflammatory Bowel Disease
Board Certification: General Surgery, Pediatric Surgery, Surgical Critical Care

Programs and services

Adolescent Bariatric Surgery Program

For teens whose weight exceeds the 99th percentile, surgery may be part of the long-term (indeed, lifelong) treatment plan. Our program provides education, nutritional planning and psychosocial support as necessary adjuncts to minimally invasive weight loss surgery.

617-355-2458 | bostonchildrens.org/bariatric

Advanced Fetal Care Center

This program is a collaborative effort between Boston Children's Hospital, its Harvard-affiliated hospital neighbors and their respective departments of Obstetrics, Maternal-Fetal Medicine and Diagnostic Imaging. The program provides evaluation, genetic and obstetrical counseling, imaging, invasive diagnostics and *in utero* or peripartum therapy to mothers carrying children with an illness diagnosed in pregnancy.

1-866-FETALCARE (1-866-338-2522) | bostonchildrens.org/afcc

Center for Advanced Intestinal Rehabilitation

Specialists in gastroenterology, nutrition and surgery—together with nurses, nurse practitioners, dietitians, a social worker and a pharmacist—collaborate to provide a range of treatment options for short bowel syndrome. Care may involve nutritional management, medical services and/or surgical treatment, such as the serial transverse enteroplasty procedure for bowel lengthening.

617-355-5275 | bostonchildrens.org/cair

Congenital Diaphragmatic Hernia (CDH) Program

Provides multidisciplinary treatment of CDH and long-term follow-up care for children born with this complex health concern.

617-355-6019 | bostonchildrens.org/cdh

Esophageal Advanced Treatment Program

Performs the Foker technique for esophageal atresia, wherein traction sutures are used to stimulate growth of truncated esophageal segments prior to anastomosis. Our program also cares for children with lye strictures and hiatal hernias.

617-355-3038 | bostonchildrens.org/eat

Pediatric Transplant Center

Transplantation at Boston Children's Hospital is an interdisciplinary effort between medical and surgical programs. Programs for heart, lung, kidney, liver, intestine and multivisceral, and stem cell transplant actively share knowledge and best practices to optimize outcomes for patients and their families.

1-877-TX4-PEDS (1-877-894-7337) | bostonchildrens.org/ptc

Trauma Center

Cares for more infants, children and adolescents seriously injured in accidents than any other hospital in New England. Beginning at the accident scene, a multidisciplinary team of pediatric experts coordinates the trauma patient's care from emergency room through the inpatient stay and rehabilitation (when indicated). In addition, the team supports a child advocacy program for injury prevention in order to reduce the number of childhood traumatic injuries. Our center is one of the few in the nation that has received designation from the Committee on Trauma of the American College of Surgeons as a Regional Pediatric Trauma Center, the highest level awarded.

617-355-5400 (1-866-771-5437) | bostonchildrens.org/trauma

Vascular Anomalies Center

Known internationally as the preeminent site for the care of individuals with vascular anomalies, which include hemangiomas, vascular malformations and other, less common vascular tumors.

617-355-5226 | bostonchildrens.org/vac

Research

The Department of Surgery is committed to advancing the understanding and practice of pediatric surgery through research. We are one of the largest research departments at Boston Children's. We are host to world-renowned laboratories involved in angiogenesis research and tissue engineering. Our extensive research initiatives are both laboratory- and clinic-based, providing research training opportunities to a large number of students and fellows.

Current research areas include:

- Angiogenesis
- Biology of cancer
- Cancer and bowel surgery
- Cell mechanics and structure
- Fetal gut development
- Fetal tissue engineering
- Lung growth
- Maternal-fetal treatment
- Neonatal surgery
- Prostate cancer
- Repair of congenital defects
- Transplantation and tissue engineering
- Trauma care
- Vascular anomalies and malformations

Training

Boston Children's Department of Surgery offers several training programs, including:

Pediatric Surgery Fellowship

The department has a proud tradition of training tomorrow's leaders in pediatric surgery. This two-year fellowship offers exposure to a large volume of complex cases with liberal use of minimally invasive techniques. Our outpatient clinic is an integral component of the program, providing preoperative evaluation and postoperative care for many patients.

Surgical Critical Care Fellowship

The fellowship is designed for individuals who are interested in obtaining formal training in pediatric surgical critical care medicine and who wish to augment this experience with a one- to two-year clinical research experience.

Two-year positions in surgical research

Trainees will learn the latest scientific methods while working with established investigators in areas such as vascular biology, transplantation tolerance, organ regeneration, fetal therapy, tissue engineering, vascular anomalies, surgical nutrition and the treatment of short bowel syndrome.

bostonchildrens.org/fellowship



Surgery



ROBERT C. SHAMBERGER, MD
Chief

Boston Children's Hospital's Department of Surgery provides both general and specialized surgical services to infants, children and adolescents living with a wide range of congenital and acquired conditions. Over the last decade, the use of minimally invasive surgery has redefined pediatric operations, combining safety, reduced post-operative pain and faster recovery. From tumors to transplants, hernias to hydroceles, we specialize in the timely evaluation and resolution of all pediatric surgical concerns.

Clinic Locations

Boston Children's Hospital
300 Longwood Avenue, Fegan 3
Boston, MA 02115
617-355-7800
bostonchildrens.org/surgery

Boston Children's at Lexington
482 Bedford Street
Lexington, MA 02420
781-672-2100

Boston Children's at Peabody
10 Centennial Drive
Peabody, MA 01960
978-538-3600

Boston Children's at Waltham
9 Hope Avenue
Waltham, MA 02453
617-355-7800

**Boston Children's Physicians
Weymouth**
Stetson Medical Center
541 Main Street
Weymouth, MA 02190
617-355-6915

Andover Surgical Associates
140 Haverhill Street
Andover, MA 01810
617-355-1838

**Boston Children's Physicians
Brockton
Medical Office Building**
830 Oak Street, Suite 220 E
Brockton, MA 02301
617-355-1838

**Boston Children's Physicians
North Dartmouth**
500 Faunce Corner Road
North Dartmouth, MA 02747
781-216-2400

**Boston Children's Norwood
Draper Building, 1st Floor**
800 Washington St
Norwood, MA 02062
781-216-2550

**Boston Children's Milford
Regional Medical Center, 3rd floor**
14 Prospect Street
Milford, MA 01757
617-355-0535

Request an appointment online

Physicians and families may request an appointment online at bostonchildrens.org/appointment.

Urgent appointments

We are happy to accept urgent/same-day appointments. Physicians who urgently need a patient seen should call 617-355-7800.

Highlights

Surgical care firsts:

- Successful infant lung transplant in New England
- Use of the combination of a peripartum *ex utero* intrapartum treatment procedure and extracorporeal membrane oxygenation to treat an infant with critical airway obstruction
- Organized training program for trainees in pediatric surgery
- Published textbook in pediatric surgery in the Western world: Ladd and Gross's *Abdominal Surgery of Childhood*
- Definition of the research field of angiogenesis
- Successful application of angiogenesis inhibitors to treat a childhood tumor
- Description of tracheal occlusion to facilitate development of the "hypoplastic" lung
- Development and use of the serial transverse enteroplasty procedure as a treatment for short bowel syndrome

Areas of expertise

Our team treats a wide range of conditions and performs a variety of procedures:

- Abdominal masses
- Appendicitis
- Branchial cleft cyst
- Bariatric (adolescent) weight loss surgery
- Chest wall masses
- Choledochal cyst
- Circumcision
- Congenital cystic adenomatoid malformation
- Crohn's disease
- Esophageal atresia
- Ewing sarcoma
- Familial adenomatous polyposis
- Foreign bodies
- Gallstones
- Gastroesophageal reflux
- Gynecomastia
- Hernia (inguinal, umbilical and epigastric)
- Hirschsprung's disease
- Hydrocele
- Hypospadias
- Imperforate anus
- Inguinal hernia
- Liver injuries
- Lumps, bumps and lesions
- Mid-aortic syndrome
- Morbid obesity
- Motility disorders
- Pectus carinatum
- Pectus excavatum
- Phimosis
- Pilonidal cyst
- Renal artery stenosis
- Short bowel syndrome
- Soft tissue lesions
- Spleen injuries
- Splenectomy and spherocytosis
- Thoracic outlet syndrome
- Thyroglossal duct cyst
- Thyroid nodules
- Ulcerative colitis
- Undescended testes
- Vascular anomalies
- Wilms' tumor