



The Best in the Midwest!

Rainbow is proud to be listed for more than a decade as one of the top children's hospitals in the United States – and over the past five years to be known as the best children's hospital in the Midwest by *U.S. News & World Report*.

Did You Know?

Rainbow Surgical Specialists utilize Rainbow Babies & Children's Hospital's Prentiss Pediatric Surgery Center, which is designed solely and specifically for pediatric patients. Its eight state-of-the-art operating rooms feature advanced imaging, microsurgical and minimally invasive technology.

Rainbow has partnered with the Cleveland Foundation to create the Center for Minimally Invasive Pediatric Surgery which will focus on the continued investment in the recruitment of the nation's top surgical talent and the obtainment of the most advanced technology available to children.

In addition, The Ferchill Brain Tumor Center will combine expertise in pediatric cancer and neurological care and is devoted to the diagnosis, treatment and research of childhood brain tumors.

Rainbow's innovative design for a Pediatric Intensive Care Unit provides parents the opportunity to stay at the bedside with live-in accommodations 24-7.



**Rainbow Surgical Specialties
Office Locations**

Rainbow Babies & Children's Hospital
11100 Euclid Avenue
Cleveland, Ohio 44106

UH Rainbow Specialty Center – Mayfield Heights
5850 Landerbrook Drive
Mayfield Heights, Ohio 44124

UH Rainbow Specialty Center – Strongsville
18181 Pearl Road
Strongsville, Ohio

UH Rainbow Specialty Center – Westlake
960 Clague Road
Westlake, Ohio 44145

UH Zeeba Surgical Center
29017 Cedar Road
Lyndhurst, Ohio 44124

*To refer a patient to the Rainbow Surgical Specialists,
please call: 216-844-7553 or visit us online
at www.rainbowbabies.org*



RAINBOW SURGICAL SPECIALISTS



Specialties
and
Surgical Staff



A Center of Excellence in Pediatric Surgery

Rainbow Babies & Children's Surgical Specialists offer an unmatched depth of high-quality surgical skills to children that are unsurpassed in the region. Together with our multidisciplinary surgical, medical, nursing and child life staff, we deliver a patient experience that only a dedicated children's hospital can provide to children and their families. Rainbow surgeons are among the leaders in their fields and provide surgical outcomes that are ranked among the best in the country. In addition, our relationship to University Hospitals Case Medical Center and Case Western Reserve University School of Medicine offers technology, research and medical advances not available at other children's hospitals.

Areas of Surgical Specialty:

Anesthesiology

- 24 hours coverage by a team of eight pediatric anesthesiologists
- Family centered pre-operative care
- Comprehensive perioperative pain management
- Pediatric sedation services
- Pain management

Cardiothoracic Surgery

- Rainbow earned the highest rating possible for repair of complex congenital heart procedures – *U.S. News & World Report*.
- Rainbow has among the highest survival rates for palliation of univentricular hearts in the country
- Off pump beating heart surgery
- Advanced blood conservation program
- Early one-stage corrective surgery, often in neonatal periods
- Neonatal surgery program, with special emphasis on complete repair
- MAZE or arrhythmia ablation procedures
- Dedicated cardiothoracic pediatric intensive care

General Pediatric Surgery

- 24-hours coverage for emergent and elective needs ranging from common procedures – such as hernias, hydroceles and undescended testes, appendicitis, intussusception and pyloric stenosis – to the complex, including hepatobiliary surgery, intestinal and biliary atresia, chest wall deformities, trauma and surgical oncology
- Congenital malformation such as diaphragmatic hernia, developmental anomalies of the trachea, esophagus and lungs, abdominal wall defects
- Gastroesophageal reflux, achalasia, and other swallowing disorders
- Minimally invasive laparoscopic surgery (herniorrhaphy, appendectomy, etc)
- Major trauma with multi-system involvement – Level I Trauma Center, verified by the American College of Surgeons

Neurosurgery

- Rainbow earned the highest rating possible for successful removal of cancerous brain tumors – *U.S. News & World Report*.
- International leadership role in minimally invasive (endoscopic) neurosurgery. Rainbow houses a one-of-a-kind Minimally Invasive Neurosurgery Lab, which focuses on developing new instruments and operative approaches, as well as teaching new surgical techniques.
- Surgical treatment of brain and spinal cord tumors
- Surgical treatment of epilepsy and spasticity in conjunction with pediatric neurology

Ophthalmology

- Pediatric and adult strabismus
- Childhood cataract surgery, glaucoma, eyelid and tear duct surgical disorders
- Laser treatment of retinopathy of prematurity

Orthopaedic Surgery

- Bloodless scoliosis surgery
- Growing rod program to correct scoliosis
- Video-assisted thoracoscopic surgery
- Internationally-known for hip and foot deformities and bone disorders

Otolaryngology

- Image-guided endoscopic sinus surgery
- Cochlear implant microsurgery to restore hearing loss

Plastic and Reconstructive Surgery

- Pre-surgical orthodontics application of nasoalveolar molding for cleft lip and palate and application of distraction for mandibular hypoplasia
- Resection and reconstruction for vascular malformations

Urology

- Laparoscopic and minimally invasive urologic surgery
- Inguinal/scrotal disorders, including undescended testicle, hernia, hydrocele, scrotal masses and acute scrotal conditions
- Congenital abnormalities of the urinary tract
- Intersex and pediatric/adolescent gynecological disorders
- Bloodless renal surgery

Rainbow Surgical Specialists



Alan R. Cohen, MD, FACS, FAAP
Surgeon-in-Chief, Rainbow Babies & Children's Hospital
Chief, Division of Pediatric Neurosurgery
Pediatric Neurosurgery, Minimally Invasive Neurosurgery, Brain and Spinal Cord Tumors



Anjali P. Adur, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



Douglas G. Armstrong, MD, FRCS(C), FACS
Division of Pediatric Orthopaedics
Pediatric and Adolescent Spinal Disorders



James E. Arnold, MD, FACS
Chairman, Department of Otolaryngology-Head and Neck Surgery, University Hospitals
Pathology of the Food and Air Passage, Foreign Bodies, Otolaryngology and Tumors



Edward M. Barksdale, MD, FACS, FAAP
Chief, Division of Pediatric Surgery
General Pediatric Surgery, In-Utero Malformations, Short Bowel Syndrome



Maura C. Berkelhamer, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



Jeffrey N. Bloom, MD
Chief, Division of Pediatric Ophthalmology
Pediatric Ophthalmology, Adult Strabismus



Scott C. Boulanger, MD, PhD, FACS
Division of Pediatric Surgery
General Pediatric Surgery, Minimally Invasive Surgery



Elliot H. Chen, MD
Division of Pediatric Plastic Surgery
Pediatric Plastic Surgery, Craniofacial Surgery



Edward E. Cherullo, MD
Division of Urology
General Urology, Urologic Oncology, Minimally Invasive Therapies for Urologic Oncology



Walter J. Chwals, MD, FACS, FAAP, FCCM
Division of Pediatric Surgery
Minimally Invasive Surgery, Complex Congenital Anomalies, Inflammatory Bowel Disease, Thoracic and Abdominal Tumors, Bariatric Surgery



Daniel R. Cooperman, MD
Division of Pediatric Orthopaedic Surgery
Pediatric Orthopaedics, Fracture Traumatology



Gerald A. Ferretti, DDS, MS, MPH
Chief, Pediatric Dentistry
Treatment of restoration of teeth and replacement of teeth, traumatized primary and permanent teeth



On Staff January 2008
Sherine Ghafoori, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



Allison Gilmore, MD
Division of Orthopaedic Surgery
Pediatric Orthopaedics, Rehabilitation, Sports Medicine



Mark M. Goldfinger, MD, FAAP
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



Arun K. Gosain, MD, FACS, FAAP
Chief, Division of Pediatric Plastic Surgery
Pediatric Plastic Surgery, Vascular Anomalies, Craniofacial Anomalies, Craniosynostosis, Hemangioma, Cleft Lip and Palate Repair, Congenital Hand Anomalies



Hani A. Hennein, MD, FACS, FAAP, FCCP
Chief, Division of Pediatric Cardiothoracic Surgery
All Congenital Cardiac and Thoracic Procedures, including Transplantation, and the Repair of Complex Neonatal Cardiac Defects



Mohsen Karimi, MD
Division of Pediatric Cardiothoracic Surgery
Heart Failure, Hypoplastic Left Heart Syndrome, Minimally Invasive Neonatal Cardiac Surgery



Cliff Megerian, MD, FACS
Division of Pediatric Otolaryngology Medical Director, Cochlear Implant Program
Hearing Loss, Otitis, chronic Ear Disease, Lateral Skull Base Surgery, Cochlear Implantation



Sheryl F. Modlin, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



Philip G. Morgan, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology, Genetics, Mitochondrial Disease



Faruk H. Orge, MD
Division of Pediatric Ophthalmology
Pediatric Ophthalmology, Adult Strabismus



Robert L. Parry, MD, FACS
Division of Pediatric Surgery
General Pediatric Surgery, Inflammatory Bowel Disease, Hirschsprung's Disease, Anorectal Anomalies, Intersex Disorders, Bariatric Surgery



Todd Ponsky, MD
Division of Pediatric Surgery
General Pediatric Surgery, Minimally Invasive Surgery, Inflammatory Bowel Disease



Shenandoah Robinson, MD, FACS, FAAP
Division of Pediatric Neurosurgery
Pediatric Neurosurgery, Pediatric Epilepsy Surgery, Spasticity Surgery



Jochen P. Son-Hing, MD
Division of Pediatric Orthopaedics
Pediatric Orthopaedics, Spinal Deformity



Robert C. Sprecher, MD
Chief, Division of Pediatric Otolaryngology
Pediatric Sinusitis, Chronic Ear Disease, Airway Disorders



John E. Stork, MD
Division of Pediatric Anesthesiology
Pediatric Anesthesiology



George H. Thompson, MD
Chief, Pediatric Orthopaedic Surgery
Pediatric Orthopaedics, Scoliosis, Spinal Deformity



Paul A. Tripi, MD
Chief, Division of Pediatric Anesthesiology
Pediatric Anesthesiology

Surgical Specialty Area

Anesthesiology

216-844-7330
Paul A. Tripi, MD
Anjali P. Adur, MD
Maura C. Berkelhamer, MD
Sherine Ghafoori, MD
Mark M. Goldfinger, MD, FAAP
Sheryl F. Modlin, MD
Philip G. Morgan, MD
John E. Stork, MD

Cardiothoracic Surgery

216-844-3058
Hani A. Hennein, MD, FACS, FAAP, FCCP
Mohsen Karimi, MD

Dentistry

216-368-3277
Gerald A. Ferretti, DDS, MS, MPH

General Surgery

216-844-3015
Edward M. Barksdale, MD, FACS, FAAP
Scott C. Boulanger, MD, PhD, FACS
Walter J. Chwals, MD, FACS, FAAP, FCCM
Robert L. Parry, MD, FACS
Todd Ponsky, MD

Neurosurgery

216-844-5741
Alan R. Cohen, MD, FACS, FAAP
Shenandoah Robinson, MD, FACS, FAAP

Ophthalmology

440-684-1374
Jeffrey N. Bloom, MD
Faruk H. Orge, MD

Orthopaedic Surgery

216-844-7200
George H. Thompson, MD
Douglas G. Armstrong, MD, FRCS(C), FACS
Daniel R. Cooperman, MD
Allison Gilmore, MD
Jochen P. Son-Hing, MD

Otolaryngology

216-844-5031
James E. Arnold, MD, FACS
Cliff Megerian, MD, FACS
Robert C. Sprecher, MD

Plastic Surgery

216-844-4780
Arun K. Gosain, MD, FACS, FAAP
Elliot H. Chen, MD

Urology

216-844-3009
Edward E. Cherullo, MD