

MEDICAL DIVISIONS

ADOLESCENT MEDICINE

The Adolescent Health Clinic provides primary care for adolescents and young adults ages 12 to 21 years with an emphasis on comprehensive health education and anticipatory guidance for patients and their parents. Services include physical exams, diagnosis and treatment of acute medical problems, diagnosis and treatment of adolescent gynecologic problems, and diagnosis, treatment, and prevention of the consequences of adolescent sexual behavior.

Richard R. Brookman, MD, Chair
Appointments: (804) 828-9449

ALLERGY AND IMMUNOLOGY

When children suffer from acute or chronic conditions such as asthma, hay fever, eczema, food allergies or drug reactions, the skills of a pediatric allergy/immunology specialist are available at the Children's Medical Center. Headed by Dr. Ann-Marie Irani, a leader in clinical research with 19 years of experience, the Division of Allergy and Immunology offers a fully comprehensive approach to the child with allergies, immune deficiencies and rheumatologic disorders. Specialists focus on clinical research areas in pediatric asthma, as well as basic research of the biology of mast cells and basophils. The Division of Pediatric Allergy/Immunology offers diagnostic expertise in the following areas:

- Allergic Rhinitis (hay fever)
- Anaphylaxis
- Asthma
- Atopic Dermatitis
- Drug Allergy
- Food Allergy
- Immunodeficiency Disorders
- Insect Hypersensitivity
- Sinusitis
- Urticaria (hives)

Anne-Marie A. Irani, MD, Chair
Donna Mitchell, RN, MSN, CPNP
Wei Zhao, MD, PhD

Appointments: (804) 628-7337

PEDIATRIC CARDIOLOGY

The Division of pediatric cardiology provides full pediatric cardiology and cardiathoracic surgery services. The division's physicians provide telephonic echocardiographic services in Richmond, Newport News and Fredericksburg. The Division of pediatric cardiology is the only National Triple Accredited pediatric echocardiography laboratory (fetal, trans-thoracic and trans-esophageal) in Virginia. The pediatric cardiac catheterization laboratory is a leader in state of the art diagnostic and interventional services for infants, children, and adults with congenital heart defects, using such tools as implantable devices and lasers.

VCUMC cardiology specialists provide outpatient services, including echo and ECG at the Children's Pavilion as well as at St. Mary's Hospital, Hanover Medical Park, Stony Point Ambulatory Care Center, Chippenham Hospital Medical Park (all in the Richmond area.), Ambulatory Care Center at Mary Washington Hospital in Fredericksburg, and the Riverside Medical Office in Newport News. Fetal cardiology consultations and echocardiographic consultations are performed at VCUMC and Mary Washington Hospital as well as in the offices of and at the request of perinatologists in the Central Virginia area. Pediatric inpatient consultations are provided at all Richmond area hospitals as well as at Riverside and Mary Washington Hospitals. For emergency cases, the VCU Medical Center Life Evac helicopter is available for rapid and safe patient transportation.

The Division is also dedicated to training future pediatric cardiologists and has had an active ACGME accredited Fellowship Program for 21 years.

William Moskowitz, MD, Chair
Louise Robertson, MD Douglas Allen, MD
Scott Gullquist, MD Ellen Swoop, RN
Appointments: (804) 628-HRTS

CARDIAC SURGERY

The Division of Cardiothoracic Surgery sees some of the VCU Health System's smallest cardiac patients — often with the most difficult, rare and critical needs.

Working closely with a skilled team of pediatric anesthesiologists, heart/lung pump technicians, pediatric cardiologists and the VCUMC pediatric cardiac intensive care unit, results from this team have been excellent and postoperative surgical rates are well above published national averages.

Appointments: (804) 828-2782

COMMUNITY PEDIATRICS

The division of community pediatrics includes every pediatrician in the community who has a relationship with the department. These physicians teach medical students in their offices, precept residents in their offices and clinics and serve on various ad hoc committees for the department such as search committees and the Bundy Professorship committee.

Barry V. Kirkpatrick, MD, Vice Chairman of Clinical and Academic Affairs
Office: (804) 827-1692

Bob A. Archuleta, MD, Bundy Professor through June 30, 2005
Office: (804) 828-8558

Rebecca Bird-Eichelberger, Community Liaison
Office: (804) 827-0533

CRITICAL CARE MEDICINE

Opened in 1978, the multi-specialty Pediatric Intensive Care Unit (PICU) is a state-of-the-art facility that accommodates seriously or critically ill infants, children and adolescents. There is a physician in the unit 24 hours a day, making it the only Level-1 PICU in Central Virginia. The PICU provides care for children with conditions, such as acute respiratory failure, status asthmaticus, circulatory shock, major trauma, head injury, intracranial hypertension, status epilepticus, diabetic ketoacidosis, renal failure and chemical intoxication. The PICU also provides postoperative care for a broad range of surgical specialties such as neurosurgery, cardiac surgery, general surgery, transplant surgery, orthopedics, urology, plastic and ear-nose-and-throat surgery. Averaging 950 admissions a year, the PICU not only receives admissions from the emergency room, pediatric floors and operating rooms, but is a referral site for hospitals in the Richmond area and regional hospitals. The PICU has treated more than 18,000 children since 1978 and is proud of its team approach to care.

Thanks to a generous gift from Food Lion, the PICU recently unveiled its new, expanded and completely modernized facilities. The Food Lion PICU embraces the concept of "family centered care" in the management of its patients. The new PICU has 12 critical care beds that have been configured to provide larger, more private patient spaces that can accommodate visitation by family 24 hours a day. The unit also provides a family resource area with Internet connections and a family shower area. The comfort of both patients and families was figured prominently in the unit's design.

John J. Mickell, MD, Chair
Monica Relvas, MD Sue Sreedhar, MD
Melissa Evans, MD Kathy Davis, PNP
Diane Karowitz, PNP Faith Piechowiak, PNP
PICU: (804) 828-4987

DEVELOPMENTAL PEDIATRICS

Lead by Pasquale Accardo, MD, the division provides comprehensive, coordinated and multidisciplinary services for children of all ages with developmental problems ranging from global developmental concerns to specific diagnoses. The division provides evaluative consultations, offering neurological and developmental assessment/ screening for specific diagnostic needs and complex diagnostic questions. Services include assessment and treatment/consultation related to:

- Attention deficit and hyperactivity disorders (ADHD)
- Autism and pervasive developmental disorders
- Developmental disorders/delay
- Learning disabilities
- Speech, language and communication delay

Pasquale Accardo, MD, Chair
Appointments: (804) 228-5818

*Clinic located at Children's Hospital, 2924 Brook Road

ENDOCRINOLOGY

The division of endocrinology provides care for children with diabetes and other endocrine disorders. The Children's Medical Center is the major center for the diagnoses and care of children with diabetes in Central Virginia and is the only center that provides insulin pump therapy to kids with diabetes in the region. The division also cares for children with additional endocrine issues like hypothyroidism, puberty related problems, metabolic bone disease and growth hormone deficiency.

Physicians in the division of endocrinology have developed a great interest in seeing children with Type II diabetes and obesity and are also in the process of creating protocols to treat patients with metabolic bone disease particularly with

decreased bone mineral density.

Anil Kumar, MD, Interim Chair
Deidre Tyson, MD
Susan Turney, RN, MEd, CDE
Kerry M. McCray, RN, MS, CPNP
Mary Henck, RD, MS, CDE

Appointments: (804) 628-PEDS
Stony Point: (804) 560-8930

GASTROENTEROLOGY

Physicians at the Children's Medical Center currently treat infants and children of all ages who have gastrointestinal problems, including reflux, ulcers, swallowing disorders and disorders of the liver and bowel such as hepatitis, chronic diarrhea, encopresis and inflammatory bowel disease. Sophisticated diagnostic procedures including endoscopy and pH testing are available at the Center.

Martin Graham, MD, Chair
Ann Kessell, MD Ted Williams, MD
Mary Henck, RD, MS, CDE
Debra Boatwright, MS, RN, CPNP
Julie Shotwell, RN

Appointments: (804) 628-PEDS

GENERAL PEDIATRICS

Our dedicated team of general pediatricians offers preventative and primary care, such as immunizations, well baby/well child visits and newborn nursery care. Our physicians also provide diagnoses and treatment of acute illnesses in children of all ages while providing anticipatory guidance for their parents including breastfeeding support. The Division of General Pediatrics works in partnership with our pediatric specialists to provide general pediatric care for children with chronic diseases or special health care needs. General Pediatricians play a large role in the Department of Pediatrics' education and residency programs.

Linda D. Meloy, MD, Interim Chair
Guari Gulati, MD Indra Kancitis, MD
Anatole Karpovs, MD Sharon Fitzsimmons, MD
Pasquale Accardo, MD Philip Kum-Nji, MD
Fanya Seagull, MD Sean McKenna, MD
Appointments: (804) 628-PEDS

HEMATOLOGY AND ONCOLOGY

The VCU Medical Center has made, and continues to make, great strides in the battle against cancer. Cancers that were considered incurable 25 years ago, now respond to treatments that produce tremendous survival rates. At the Children's Medical Center, we are fighting the disease alongside children with cancer and their families. Our Division of Hematology-Oncology is an original member of the Pediatric Oncology Group and an active member of the Children's Oncology Group. Children from infancy through adolescence receive state-of-the-art care from a dedicated multidisciplinary team of professionals in the ASK Pediatric Hematology-Oncology Center. The Division's new outpatient facility (made possible through the dedicated work and generosity of the Greater Richmond community and the Association for the Support of Children with Cancer (ASK).

The Comprehensive Sickle Cell Center is the medical home for more than 300 children with sickling disorders and other hemoglobinopathies. These children and families face life-long challenges and greatly benefit from the multidisciplinary team approach available here. The Hemophilia Program, serving children from the Metro Richmond area and beyond, provides a wide-range of services to young people with hemophilia and other coagulation disorders.

Members of the Division provide consultative services to physicians and other hospitals throughout Richmond and Central Virginia. Pediatric residents are involved in all of the Division's many clinical activities and gain experience in virtually all aspects of hematologic and oncologic diagnosis and care. Division members are active participants in research through the Children's Oncology Group and the Massey Cancer Center, an NIH designated cancer center. The VCU Bone Marrow Transplant Center provides coordinated care for children and adults requiring transplantation from life threatening malignant or hematologic conditions.

E. Clifton Russell, MD, Chair
Nancy L. Dunn, MD Joseph H. Laver, MD
Gita V. Massey, MD Thomas Brunner, FNP
Elizabeth Hall, CPNP Deborah Fisher, CPNP
Anne Mauck, CPNP

ASK Clinic: (804) 828-9300

INFECTIOUS DISEASE

Services offered include inpatient and outpatient consultation as well as diagnosis and management of any problems related to infection including bacterial infections, viral infections, fungal infections, congenital infections, tick-borne infections, tuberculosis and HIV/AIDS. In addition, physicians are available for review of antibiotic and antiviral therapy, evaluation of Fever of Unknown Origin (FUO) and evaluation for immunologic conditions predisposing to infection, infections in catheters and other devices, gastrointestinal infections and lymphadenopathy. A Travel Clinic is also available to address issues of infection and vaccination for families preparing for international travel.

Stuart P. Adler, MD, Chair
William Koch, MD C. Gregory Childress, MD
Suzanne Lavoie, MD Beth Marshall, MD
Michael McVoy, PhD

Division Office: (804) 828-1807
Appointments: (804) 628-7337
HIV/AIDS Clinic: (804) 828-6163
Travel Clinic: (804) 828-4515

NEONATAL MEDICINE

Currently our Neonatal Intensive Care Unit (NICU) is the largest ICU at the VCUMC and has the capacity to care for 40 premature infants and newborns. Under the direction of our neonatologists, fellows-in-training and all other pediatric specialists, the NICU cares for infants with a wide range of problems including all types of respiratory, surgical, cardiac, genetic, renal, neurological, hematologic and metabolic diseases. Our physicians employ the latest treatment techniques to help smaller and smaller infants survive and thrive. In caring for

infants requiring respiratory support, the NICU employs both high frequency oscillatory and jet ventilation, in addition to conventional ventilation. Nitric Oxide, Extracorporeal Membrane Oxygenation (ECMO) and surfactant replacement are also provided. The division also provides "Baby Care Link," a new and innovative web-based education and clinical update for parents of infants in the NICU.

Gary R. Gutscher, MD, Chair
Elsie Mainali, MD
Henry J. Rozycki, MD
Marnie Longest, MS, RNC, NNP
Barbara Reyna, MS, RNC, NNP
Bobbie Terrell, MS, RNC, NNP
Sharon Cone, MS, RNC, NNP
Kim Williams, MS, RNC, NNP

NICU: (804) 828-9956

NEPHROLOGY

The division of pediatric nephrology is fully geared to provide services to children suffering from various acute and chronic renal disorders such as acute renal failure, chronic renal insufficiency, glomerulonephritides, simple and complicated urinary tract infections, congenital renal abnormalities, voiding disorders, nocturnal enuresis, acid-base and electrolyte disorders, calcium, phosphorus and bone mineral disorders hypertension, and management of end stage renal diseases with hemo- and peritoneal dialysis. Facilities are available for renal transplantation and post-transplant care.

Vimal Chadha, MD, Chair
Diane Kraynak, MS, CPNP

Office: (804) 828-9614
Appointments: (804) 628-PEDS

PULMONOLOGY

The VCUMC Division of Pediatric Pulmonology is the only Pediatric Pulmonary Group in Central Virginia. Our dedicated pediatric specialists provide in-depth diagnostic testing for patients who have chronic pulmonary problems such as asthma and cystic fibrosis. Following testing and diagnosis, patients of the pulmonary clinic are assured of expert care from our sub-specialists. Families are then given clinical and social services support to help them face the daily challenges of treating the young patient who has a chronic pulmonary disease. The division provides multidisciplinary inpatient and outpatient services for infants and children with acute and chronic respiratory problems, including:

- Asthma
 - Congenital lung abnormalities
 - Cystic Fibrosis
 - Neuromuscular respiratory diseases
 - Bronchopulmonary disease (BPD)
 - Pulmonary sleep disorders
 - Chronic respiratory failure/insufficiency
- Many patients are now referred to the VCUMC Pediatric Pulmonary Function Laboratory for spirometry, lung volumes and exercise testing without a pulmonary consult.

Greg R. Elliott, MD, Chair
Vasanthi Pugazhendhi, MD
Cynthia Epstein, MD
Mollie V. Anderson, CPNP
Maridel Lee, RN
Jim Norton, RRT

Clinic: (804) 828-2980

ADDITIONAL PEDIATRIC SERVICES

ANESTHESIOLOGY

The Division of Pediatric Anesthesiology provides the only dedicated 24/7 Pediatric Anesthesia call team in the community. Each member of the Division is fellowship trained and all have considerable experience in managing pediatric surgical patients.

Members of the division care for neonates, infants, and small children with emergency or complex surgical needs. The division also participates in the Children's Heart Center Program with the only dedicated Pediatric Cardiac Anesthesiology team in the Central Virginia area.

The division also provides sedation services to as many as fifteen sites outside of the operating theaters within the VCUMC. Our skilled division members also participate in numerous "medical missions" throughout the year to care for pediatric patients in other countries.

Jay Shapiro, MD, Chair
Jeannette Kierce, MD Iolanda Russo-Menna, MD
Clinic: (804) 628-6975

DERMATOLOGY

Dermatologists at the Children's Medical Center provide diagnosis and treatment of chronic and acute disorders with special interest in acne, atopic eczema, vascular malformations and hereditary and/or congenital skin diseases in children.

Laurie Shinn, MD Appointments: (804) 828-9361

EMERGENCY MEDICINE

As the only Level One Trauma Center in the area, the Children's Medical Center ER is a premier site for the evaluation, treatment, and expert care of children who have experienced severe and life threatening injuries. Our multidisciplinary ER team comprises surgeons, physicians, nurses, social workers and physical and occupational therapists.

The VCUMC Pediatric Transport Team and the VCU LifeEvac helicopter enable the rapid air transfer of patients requiring immediate interventions. Most air-transport patients suffer from head-trauma, neurological or respiratory failure/arrest. The pediatric transport team also cares for patients suffering from everything from animal bites to severe burns. With its multidisciplinary team approach and ability to perform air transports, the Pediatric Emergency Room serves as a hub for transports from regional hospitals and beyond.

Robin Foster, MD, Medical Director Antonio Muniz, MD
Samuel Bartle, MD Christopher Woleben, MD
Steven Liner, MD Pediatric Emergency Room: (804) 828-9111
Pediatric Transport: (804) 371-8080
Child Abuse Clinic: (804) 828-7010

HUMAN GENETICS

The Genetics Program seeks to address families' concerns about their children's special health care needs, birth defects and inherited conditions. A genetics consultation includes a review of medical records, family history and a detailed physical exam. All families receive counseling and written information with follow up describing their child's genetic issues.

Patients are often referred to the division for evaluation of and comprehensive services for birth defects, failure-to-thrive, developmental delay, neurological symptoms, recurrent vomiting, hypoglycemia, hyperammonemia and metabolic acidosis. The division currently has a particular

interest in genetic hearing loss and has NIH funded research to study genes causing hereditary deafness.

Joann Bodurtha, MD, MPH Margie Jaworski, MD
Arti Pandya, MD, MBA Usha Sundaram, MD

Appointments: (804) 828-9632, Ext 131

CARE CONNECTION FOR CHILDREN

Central Virginia Care Connection for Children (CCC) provides individualized care coordination for Virginia's children with chronic or physically disabling healthcare needs. The Title V funded program, in partnership with the Department of Health, provides care coordination, insurance assistance, community resources information and referral assistance free of charge to children under the age of 21. Care Coordinators connect families with:

- Local health care providers who have expertise with children with special health care needs
- Specialized health insurance programs
- School programs and services
- Other families experiencing similar situations
- Ongoing help in coordinating specialty care and accessing services
- Help with understanding and using their health insurance benefits

Barbara Harding, RN, Program Director www.careconnections.vcu.edu
CCC Office: (804) 827-1795
Toll : 1-866-737-5965

CHILD NEUROLOGY

The VCUMC's Division of Child Neurology provides comprehensive evaluation and care for all neurological problems. Services are available for children with epilepsy, migraine/headaches, movement disorders, kernicterus, neurocutaneous disorders, sleep disorders, neuromuscular disorders, strokes and other disorders affecting the nervous system. The Division runs a Comprehensive Epilepsy Center that provides the latest assessments and treatment including new and investigative medical approaches and epilepsy surgery. The Child Neurology Clinical Trials Research program has protocols for epilepsy, migraine and kernicterus.

John Pellock, MD, Chair Lawrence Morton, MD
Lydia Kernitsky, MD Edwin C. Myer, MD
David Leszczyszyn, MD Steven Shapiro, MD
Kathryn O'Hara, RN Clinic and Appointments: (804) 828-0442

PEDIATRIC DENTISTRY

Dental disease is the most common chronic illness of childhood, affecting 58% of all children. VCUMC Pediatric Dentistry provides comprehensive oral health care and dental services to children. Services range from regular outpatient checkups and treatment to hospital consultations, dental surgery, emergency room intervention, and care for children with special health needs.

John H. Unkel, DDS, MPA, Chair Matthew Cooke, DDS
Tegwyn Brickhouse, DDS, PhD Arthur Mourino, DDS
Jacquelyne Carney, DDS Michael Webb, DDS

Appointments: (804) 828-9095

PEDIATRIC SURGICAL SERVICES

GENERAL SURGERY

In pediatric surgery the Children's Medical Center provides diagnosis, treatment and follow-up care for a wide range of pediatric surgical patients. Our services span from correcting birth defects to the treatment of adolescent trauma victims. Many of our surgical services can be handled as same-day outpatient procedures. To help children prepare for the hospital experience, our child life specialists meet with the family and explain what to expect on the day of surgery and during the post-operative period.

Charles Bagwell, MD, Chair
Jeffrey Haynes, MD Claudio Oiticica, MD
David Lanning, MD, PhD

Appointments: (804) 828-3500

NEUROSURGERY

Neurosurgeons at the Children's Medical Center are trained and experienced in the art of diagnosing congenital or acquired diseases or injuries of the central nervous system and implementing the most effective surgical procedures to treat them. Some of the most delicate of pediatric neurosurgeries are performed at the Children's Medical Center including surgery to treat disorders of skull development, brain tumors, developmental disorders of the spine and serious head injuries.

John Ward, MD, Chief
Appointments: (804) 828-9165

OPHTHALMOLOGY

Referrals: (804) 828-9315

OTOLARYNGOLOGY

Otolaryngologists at the VCUMC treat a wide spectrum of pediatric ear, nose and throat problems by using advanced evaluation and treatment methods for illness ranging from ear infections and sore throats, to hearing, speech, sinus and airway disorders. Advanced treatment methods including laser surgery, and endoscopic sinus surgery are available. The department also maintains an active, comprehensive cochlear implant program.

In addition, the department participates in the multidisciplinary treatment of pediatric head and neck tumors. The Director also has an active interest in the diagnosis and treatment of sleep apnea.

Ron B. Mitchell, MD, Director
Jan Keitz, FNP

Appointments: (804) 628-4368

PLASTIC SURGERY

Plastic Surgery services are available at the VCUMC to correct the results of disease, congenital malformations or tragic accidents. Pediatric plastic surgeons correct birth defects such as craniofacial, maxillofacial, cleft lip and palate, soft tissue and skin tumors.

Plastic Surgery Clinic: (804) 828-3030

Craniofacial Surgery
Austin Mehrhof, MD
K. Cary Canoun, MD

Appointments: (804) 828-3042

TRANSPLANT SURGERY

The Hume-Lee Transplant Center at VCU provides Pediatric liver, kidney and pancreas transplants, complex hepatobiliary surgery including liver tumors, congenital hepatobiliary defects and surgery for portal hypertension and dialysis access surgery.

Robert A. Fisher, MD, FACS
Director, Liver Transplant Program
Marc P. Posner, MD, FACS
Director, Hume-Lee Transplant Center
Adrian Cotterell, MD, FACS
Director, Pancreas Transplantation
Daniel Maluf, MD

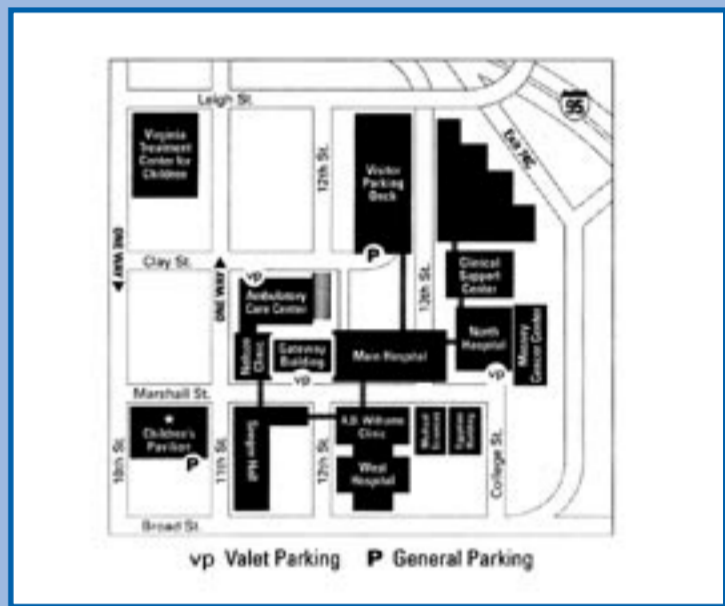
www.vcuhealth.org/transplant
Transplant Clinic: (804) 828-4104

UROLOGY

The Children's Medical Center's Urology services are supported by advanced diagnostic and therapeutic procedures that are used to treat many urological conditions. Services are available for children with complex congenital genito-urinary anomalies requiring reconstructive surgery, as well as for those who have episodic urological issues such as voiding difficulties or urinary tract infections. The center's main focus is on the improvement of urinary function, and the maintenance of a healthy urinary system.

Harry P. Koo, MD, Chair
Jennifer G. Brand, MS, CPNP

Appointments: (804) 828-9331



DIRECTIONS TO CHILDREN'S PAVILION

Heading north on I-95 from Petersburg

- Take Exit 74C (West Broad Street, left lane)
- Turn right onto 11th Street
- Turn left under building for parking

Heading south on I-95 from Fredericksburg:

- Take Exit 74C (West Broad Street, left lane)
- Turn right onto 11th Street
- Turn left under building for parking

Heading east on I-64 from Charlottesville:

- Take I-95 South to Richmond
- Take Exit 74C (West Broad Street, left lane)
- Turn right onto 11th Street
- Turn left under building for parking

Heading west on I-64 from Williamsburg:

- Take Exit 190 (5th Street, left lane)
- Turn left onto Jackson Street
- Turn right onto 8th Street
- Turn left onto Leigh Street
- Turn right onto 10th Street
- Turn left onto Broad Street
- Turn left onto 11th Street
- Turn left under the building for parking

Valet Parking

available at a flat rate of \$4 per day.

General Parking

available in the Visitors Parking Deck, at 1200 E. Clay Street. Patients and visitors may receive discounted parking with validated parking sticker from any of the information desks.

Metered Parking

additional parking available on the street.

Questions

contact the Patient/ Visitor Parking Office at (804) 838-1437.

FOR REFERRALS AND APPOINTMENTS, CALL THE PEDIATRIC INFORMATION LINE AT (804) 628-PEDS (7337) OR VISIT US ON THE WEB @ www.vcu.edu/pediatrics

Call (804) 827-0533 for additional copies.

ACUTE REHABILITATION SERVICES AT VCU MEDICAL CENTER

Occupational, physical, and speech therapies are health and rehabilitation professions that provide services to children of all ages who have physical, developmental, emotional, and social deficits. Therapy services focus on providing specialized assistance in learning skills to enable children to lead independent, productive and satisfying lives. The acute rehab therapy team works closely with the pediatric rehab physicians to coordinate therapy services and referrals.

Acute rehabilitation services at VCU Children's Medical Center serve as a vital link in the child's transition from the acute hospital stay to home or community programs. Therapists recommend specialized equipment; provide referrals to Early Intervention programs, inpatient rehab at Children's Hospital, home health and outpatient therapies.

OT/PT/Speech therapists provide student education experiences, participate in clinical research, in addition to collaborating with community programs that support children's overall safety and well being. Additionally, a number of staff members are certified car safety seat technicians and provide training in car seat safety and fitting of specialized car seats.

The goal of occupational therapy for infants and children is to assist them, to the greatest degree possible, achieve age-appropriate self-help, play and leisure skills. Using purposeful activity, occupational therapy seeks to minimize the effects of disease, injury, congenital deficits, disability, developmental delay, or deprivation. Services include developmental assessments, oral motor/feeding assessments,

Keep this card handy as quick reference to our services.

MEDICAL DIVISIONS

- Adolescent Medicine
- Allergy/Immunology
- Cardiology
- Community Pediatrics
- Critical Care
- Developmental Pediatrics
- Endocrinology
- Gastroenterology
- General Pediatrics
- Hematology/Oncology
- Infectious Disease
- Neonatal Medicine
- Nephrology
- Pulmonology

SURGICAL SERVICES

- Cardiac Surgery
- General Surgery
- Neurosurgery
- Ophthalmology
- Otolaryngology
- Plastic Surgery
- Transplant Surgery
- Urology

ADDITIONAL SERVICES

- Anesthesiology
- Care Coordination Services
- Dermatology
- Emergency Medicine
- Genetics
- Neurology
- Pediatric Dentistry
- Psychiatric/Psychology
- Radiology
- Rehabilitation
- Research

For referrals and appointments, call the Pediatric Information Line at (804) 628-PEDS (7337) or visit us on the web at www.vcu.edu/pediatrics

splinting and positioning, and self care training. Physical therapy for infants and children includes services to achieve or maintain gross motor skills, which are age appropriate. Services include a variety of treatments that include handling and positioning for developmental delayed infants, gait training, balance and stability, chest physical therapy, and assistive equipment fitting (crutches, walkers, wheelchairs).

Speech pathologists in this setting serve children who exhibit speech and language delays or disorders, dysfluency, voice disorders and tracheotomies, cognitive-linguistic delays and dysphagia (swallowing disorders). Services are also provided for children with cochlear implants providing auditory verbal therapy.

Occupational, physical and speech therapists work as part of an interdisciplinary treatment team that includes nurses, physicians, social workers and family or caregivers providing individualized treatment plans, goal setting, and discharge planning. Therapists also work individually with the family or caregivers to provide training, counseling, and referrals for continued therapies in the community through inpatient rehabilitation, outpatient therapy, or Early Intervention Services.

For further information on pediatric therapy services contact:

Occupational Therapy.....(804) 828-4425
 Physical Therapy(804) 828-4425
 Speech Therapy(804) 828-0207
 Peds/PM&R Physician Consult(804) 828-4999
 (Drs. Monasterio and Neufeld) Pager ID #7667



LOCATIONS

CHILDREN'S PAVILION	(804) 628-7337
1001 E. Marshall Street	Richmond, VA 23298
NELSON CLINIC	(804) 628-7337
401-09 North 11th Street	Richmond, VA 23298
MAIN HOSPITAL	(804) 628-7337
1250 E. Marshall Street	Richmond, VA 23294
ST. MARY'S	(804) 662-7350
5855 Bremono Road	Richmond, VA 23226
STONY POINT	(804) 560-8930
9000 Stony Point Parkway	Richmond, VA 23235

The VCU Children's Medical Center is the premier provider of comprehensive pediatric health services, medical education and clinical research in Central Virginia. For more information visit us on the web at www.vcu.edu/pediatrics.



From left to right, standing, Elizabeth Higgins and Sheri Michel; seated, Sharon Brown, Jean Maxwell and Patty Cooper

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 Virginia Commonwealth University
 Children's Medical Center

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• *Specialty Spotlight* is published by the VCU Children's Medical Center twice a year. The publication provides information on specialty services available at the VCU Children's Medical Center and spotlights a pediatric specialty in each issue.
 • Please direct comments and requests for additional copies to the editors at (804) 828-7035 or 1001 E. Marshall Street, PO Box 980646, Richmond, VA 23298-0646.
 • Visit us on the web at www.vcu.edu/pediatrics

OUR MISSION:
 To improve child health through education, research and state of the art clinical care.

SPECIALTY SPOTLIGHT

VCU CHILDREN'S MEDICAL CENTER, VCU DEPARTMENT OF PEDIATRICS

NOVEMBER 2004, VOLUME 3

The spotlight is on — DIABETES

Diabetes management is the most common reason for patient referrals to the Division of Pediatric Endocrinology. The clinic currently treats over 800 children with type 1 diabetes, and the number of patients diagnosed with type 2 diabetes is on the rise.

UNDERSTANDING DIABETES: TYPE 1 VS. TYPE 2

Type 1 (insulin-dependent or juvenile)

Type 1 diabetes occurs when a child's pancreas produces little or no insulin. Although the causes are not entirely known, scientists believe the body's immune system attacks and destroys the insulin-producing cells in the pancreas. Children with type 1 diabetes must take insulin daily to live.



Nurse Practitioner Kerry teaches Zachary about his new Insulin pump. The new Insulin pump will decrease his wide fluctuation of blood sugar levels throughout the day and alleviates the need for insulin injections. The VCU Children's Medical Center is the only site in Central Virginia currently offering Insulin pumps for children.

Type 2 (non-insulin-dependent formerly referred to as adult-onset)

Type 2 diabetes typically develops after age 40, but can appear earlier, and has more recently begun to appear with more frequency in obese children.

In this form of diabetes, the pancreas still produces insulin, but the body does not produce enough or is not able to use it effectively. Type 2 diabetes may be controlled with diet, exercise, and weight loss, or may require oral medication and/or insulin injections.

Our faculty provides expertise in the diagnosis and treatment of diabetes including:

1. Treating type 1 diabetes with standard insulin regimens and providing intensive management with insulin pump therapy. We start 3-4 children with type 1 diabetes on insulin pumps per week.
2. Continuous glucose monitoring system (CGMS) is a device inserted subcutaneously and records blood sugar every 5 minutes. CGMS is provided to those patients with wide fluctuation of blood sugars, which helps to fine tune the management of diabetes.
3. Treatment of obesity and related co-morbidities like hypertension, hypercholesterolemia, polycystic ovary disease and type 2 diabetes.

The number of obese children and adolescents seen with impaired glucose tolerance and type 2 diabetes is on the rise.



From left to right: Mary Henck, RD, MS, Certified Diabetes Educator, Anil Kumar, MD and Kerry McCray, RN, MS, CPNP

The VCU Children's Medical Center has expanded services to meet patient demands. The Center has developed a T.E.E.N.S. program that focuses on Teaching, Encouragement, Exercise and Nutrition. Participants have cost-free access to medical doctors, psychologists, a registered dietician and exercise physiologists.

The T.E.E.N.S. program's goals are closely linked to the current pediatric type 1 diabetes program at VCU with an emphasis on glucose control, education, diet and exercise. The T.E.E.N.S. program is the only comprehensive program of its kind in the region working to create healthy lifestyles and healthy futures for children. For more information on the T.E.E.N.S. program please visit www.vcu.edu/pediatrics.

MEET THE PROVIDERS

- Anil R. Kumar, MD, Interim Chairman
- Deidre Tyson, MD, Clinical Assistant Professor
- Susan Turney, RN, MEd, Certified Diabetes Educator
- Kerry McCray, RN, MS, CPNP
- Mary Henck, RD, MS, Certified Diabetes Educator

OUTPATIENT CLINICAL SERVICES ARE PROVIDED AT TWO LOCATIONS

- The VCU Children's Pavilion- Monday afternoon, Tuesday, Wednesday, Thursday mornings
- The Stony Point Clinic, Monday, Tuesday, Thursday, Friday mornings.



Susan Turney, RN, MEd, Certified Diabetes Educator (at left) and Deidre Tyson, MD