

Cerebrovascular Disease and Stroke Center



The Cerebrovascular Disease and Stroke Center at Cincinnati Children's Hospital Medical Center provides expert, multidisciplinary care for patients with conditions affecting the blood vessels in and around the brain and spine. The core team includes a pediatric neurosurgeon, interventional neuroradiologist, stroke neurologist, neuropsychologist, hematology/oncology specialists, physical medicine and rehabilitation physicians, and genetic counselor.

CONTACT US

For patient referrals and non-urgent consultation during business hours, contact the program coordinator directly at:

Phone: **513-803-9082**
Email: cerebrovascular@cchmc.org

For international inquiries:
Phone: **+1-513-636-3100**
Email: international@cchmc.org

www.cincinnatichildrens.org/

The highly specialized program is led by Sudhakar Vadivelu, DO. Dr. Vadivelu is uniquely fellowship-trained as a pediatric endovascular neurosurgeon, wholly dedicated to providing open and endovascular surgical techniques for children with cerebrovascular disease.

HOW WE'RE DIFFERENT

- **Integrated, team-based care.** Every specialist collaborates to provide the best possible care, from the earliest stages of diagnosis through treatment.
- **Comprehensive medical management and innovative therapies.** These include deep brain stimulation, direct arterial bypass, indirect revascularization and other endovascular and minimally invasive surgery procedures.
- **Cutting-edge diagnostics.** We offer sophisticated tests that usually are not available in children's hospitals, such as intraoperative magnetic resonance imaging and biplane angiography with contrast/radiation reduction.
- **Commitment to research.** Our team engages in basic and clinical research studies, often collaborating with other medical centers to pursue novel diagnostic approaches and therapies.
- **Collaboration with primary/referring physicians.** Our team provides detailed reports to referring physicians to keep them informed about their patient's care and progress.
- **Personal, one-on-one support from a dedicated program specialist.** This coordinator is a resource for families from the moment they contact our center. She answers questions and provides reassurance throughout treatment.



Ranked #3 in the nation and #6 in Neurology & Neurosurgery.



150+

Cerebrovascular procedures in
fiscal year 2022

(July 2021—June 2022)

For urgent issues, or to speak
with the specialist on call 24/7,
call the Physician Priority Link®
at 1-888-987-7997.

For international inquiries,
call +1-513-636-3100 or email
international@cchmc.org.

FULL SPECTRUM OF CONDITIONS TREATED

- Aneurysms
- Arteriovenous malformation
- Cavernous malformation
- Childhood stroke
- Chronic ischemic stroke
- Pseudoaneurysm thrombosis (craniovertebral disorder)
- Hemorrhagic stroke
- Moyamoya disease and syndrome
- Movement disorders related to vascular conditions
- Hereditary Hemorrhagic Telangiectasia (HHT)
- Stroke related to lymphoma, heart disorders and other diagnoses
- Sinus pericranii
- Tumors of the head, neck and spine
- Pseudotumor (idiopathic intracranial hypertension)
- Vein of Galen malformation
- Bow hunter's syndrome/vertebral basilar insufficiency
- Sturge-Weber Syndrome

ADVANCED DIAGNOSTICS AND THERAPIES

The Cerebrovascular Disease and Stroke Center at Cincinnati Children's was the first of its kind in the United States to establish a clinic where multiple full-time pediatric specialists see each patient during a single visit in the same location. This approach fosters professional collaboration and teamwork, while enhancing the patient experience.

Our team is dedicated to developing and refining innovative treatment options for children and young adults with cerebrovascular disorders. For example, in late 2013, Cincinnati Children's became the first pediatric institution in the United States to install biplane angiography technology in its interventional neuroradiology suite. This technology can reduce radiation exposure by as much as 30 percent.

Cincinnati Children's is the only pediatric hospital in the United States offering selective intra-arterial chemotherapy infusion for tumors of the head, neck and spine. Also, Cincinnati Children's is one of only a small number of medical centers nationwide specializing in providing deep brain stimulation for children and adolescents with dystonia. Our pediatric neurosurgeon uses real-time magnetic resonance imaging guidance during electrode placement, which improves accuracy and allows the patient to be asleep during the procedure.

In addition, our neuroradiology, neurosurgery, neurology and critical care teams are working together to expand the center's use of neurovascular ultrasound. This technology is an alternative to imaging procedures that use radiation, such as angiography.

TREATMENT TEAM

Neurosurgery

Sudhakar Vadivelu, DO
*Interventional Neurosurgeon
Director, Cerebrovascular Disease
and Stroke Center*

Neurology

Anna Weber Byars, PhD, ABPP-Cn
J. Michael Taylor, MD
Steve Wu, MD

Hematology/Oncology

Adrienne M. Hammill, MD, PhD
Lori Luchtman-Jones, MD
Charles Quinn, MD

Physical Medicine and Rehabilitation

Nathan Evanson, MD

Genetic Counseling

Katie A. Wusik, LGC

Radiation/Oncology

Luke Pater, MD

Neuro-Radiology

Blaise Jones, MD
James Leach, MD