

Brain Tumors



The Brain Tumor Center at Cincinnati Children's offers advanced therapies for newly diagnosed, refractory and recurrent brain tumors. Our core team includes pediatric specialists from neuro-oncology, neurology, neurosurgery, radiation oncology, neuropsychology, endocrinology, physical medicine and rehabilitation, and genetics. These providers — all experts in childhood brain tumors — come together in one clinic, making visits more convenient for families and enabling the highest level of collaboration and care coordination.

CONDITIONS TREATED

Cincinnati Children's is a national referral center for patients and families seeking treatment for pediatric brain tumors, including:

- Atypical teratoid rhabdoid tumor (ATRT)
- Brain tumors in infants
- Craniopharyngioma
- Diffuse intrinsic pontine gliomas (DIPG)
- Ependymomas
- Germ cell tumors
- High-grade gliomas
- Low-grade gliomas
- Medulloblastomas
- Other central nervous system embryonal tumors
- Rare tumors
- Relapsed/Refractory brain and spinal cord tumors

HOW WE'RE DIFFERENT

The Brain Tumor Center offers sophisticated technologies and innovative therapies that are available at only a small number of pediatric institutions nationwide. These include:

- **Proton therapy**, which uses pencil beam scanning technology to destroy cancer cells, while minimizing damage to healthy organs and tissue. The Proton Therapy Center at Cincinnati Children's is one of only two such centers in the world owned by a children's hospital, and is a demonstration of our deep commitment to providing children with the most sophisticated, effective cancer treatment available.
- **Genetic sequencing** that allows us to individualize treatment plans based on a tumor's genetic markers.
- **Novel drug therapies**, such as targeted small molecule anticancer agents and immune modulating therapy regimens that are often based on novel genetic markers.
- **Access to experimental therapies** offered through national research consortiums and pharmaceutical companies, as well as other protocols that are only available at Cincinnati Children's. Our researchers participate in national studies testing targeted agents, such as selumetinib (Koselugo) and other novel therapies for tumors of the brain and nervous system.
- **"Shaped-beam" stereotactic radiation therapy**, which delivers high doses of radiation using custom-shaped beams.
- **Advanced surgical tools**, such as three-dimensional brain mapping and intra-operative magnetic resonance imaging that helps neurosurgeons locate and remove tumors, preserving eloquent areas of the brain.

CONTACT US

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

Phone: **1-888-987-7997**

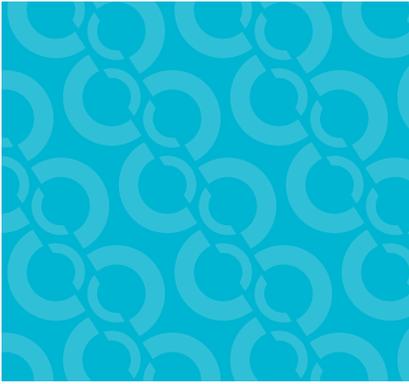
International

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Cincinnati Children's is ranked #3 in cancer.



TREATMENT TEAM

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INTEGRATED, COMPREHENSIVE CARE

- **Family-centered approach**
Families are integral to each child's care. We encourage their perspective and input, and take time to help them understand their child's condition and treatment options.
- **Extensive support services**
These services include social work, psychology, nutrition, school intervention, therapeutic massage, music therapy, art therapy, child life and more—all integrated into the child's care plan.
- **Specialized care for adolescents and young adults**
We offer a nationally recognized program to address the unique concerns facing adolescents and young adults with pediatric cancers, such as radiation and chemotherapy tolerance, financial pressures and career interruptions.
- **Second opinion service for patients with high-risk cancers**
Our team can provide additional clarity and insight to a high-risk or refractory brain tumor.
- **A commitment to long-term quality of life**
We offer long-term survivorship care from a pediatric neuro-oncologist, as well as ongoing care and psychosocial support at the Cincinnati Children's Cancer Survivorship Center—continuously and without interruption through adulthood.

RESEARCH TO IMPROVE CLINICAL CARE

Physicians and researchers at Cincinnati Children's participate in numerous clinical research projects in hopes of improving the prognosis and quality of life for patients with brain tumors. Some studies are sponsored by physicians and researchers at Cincinnati Children's, while others are offered at our site through institutions such as the National Cancer Institute, Children's Oncology Group and the Pediatric Brain Tumor Consortium. Participation in these consortiums provides our patients with early access to new anti-cancer therapies.

Current clinical research studies focus on:

- Novel chemotherapy combinations for patients with relapsed or refractory tumors
- Targeted small molecule anticancer drugs
- High-dose therapy regimens with bone marrow transplantation
- Viral therapy
- Long-term quality of life issues following treatment
- Advanced imaging techniques for pediatric brain tumors

In addition, our Proton Therapy Center is the only center in the United States with a dedicated research gantry and is a national anchor for particle-based cancer research.