

Liver Tumors

95.8%

Three-year survival rate for patients transplanted for all liver tumors



Since 2007, we have performed more transplants for pediatric liver tumors than any program in North America.

85%

Liver transplant patients who participate in clinical research targeted at improving outcomes

Cincinnati Children's Hospital Medical Center is a national leader in treating patients with liver tumors, including those in the advanced stages of disease and those requiring a liver transplant. Our specialists share a passion for acquiring and applying new discoveries in order to provide patients with the most innovative, effective care possible.

HOW WE'RE DIFFERENT

The Liver Tumor Program at Cincinnati Children's is led by oncologists and surgeons who collaborate with other specialists from a variety of disciplines including hepatology, gastroenterology, nutrition therapy, nursing and many others. Our team approach benefits patients in many ways, specifically by fostering early detection, an accurate diagnosis and appropriate, coordinated treatment.

- Specialists share their expertise and recommendations in a collegial atmosphere in which everyone's perspective is highly valued.
- Patients needing a transplant are "fast-tracked" through the evaluation process, with a median time of eight days between evaluation and listing on the transplant waiting list, and a median waiting time of 26 days between listing and transplant.
- Our family-centered care philosophy regards children and their families as integral to the care team. This results in more personalized, sensitive care for patients.

CONDITIONS TREATED

Our specialists care for children and young adults with:

- Newly diagnosed hepatoblastoma, hepatocellular carcinoma, hemangioendothelioma, hepatic sarcoma, and other forms of liver cancer
- Advanced, unresponsive or relapsed liver cancer
- Complex liver tumors that may require a liver transplant
- Benign liver tumors



TREATMENT TEAM

Oncology

James I. Geller, MD

Medical Director

Pediatric and Liver Transplantation Surgery

Greg M. Tiao, MD

Surgical Director

Maria H. Alonso, MD

Jaimie D. Nathan, MD

Frederick C. Ryckman, MD

Hemangiomas and Vascular Malformations

Denise M. Adams, MD

Hepatology

John C. Bucuvalas, MD

Kathleen M. Campbell, MD

Rohit Kohli, MBBS, MS

Mike A. Leonis, MD, PhD

Radiology

Manish N. Patel, DO

John M. Racadio, MD

Alexander J. Towbin, MD



Cincinnati Children's is ranked #1 in Cancer, #3 in Gastroenterology & GI Surgery and third among all Honor Roll hospitals in the 2013-14 *U.S. News & World Report* listing of Best Children's Hospitals.

TREATMENT APPROACH

Each patient in our Liver Tumor Program undergoes an extensive evaluation in which multiple specialists meet to discuss the child's medical needs. The team shares perspectives from the most up-to-date research and clinical practice to develop an individualized treatment plan. These specialists continue to collaborate throughout the child's course of treatment and provide referring physicians with regular updates.

Our program offers a broad range of therapies, including some innovative approaches not available at other children's hospitals. Some of the many treatment options we offer include:

- Chemotherapy
- Conventional surgery to resect tumors
- Liver transplantation
- New biologic therapies, some of which are designed to help the immune system fight cancer
- Targeted drug therapies
- Experimental therapeutics offered through clinical trials
- Radiation therapy, including hepatic arterial delivery of Yttrium 90 (Y90)
- Radiofrequency ablation, an image-guided technique that heats and destroys cancer cells
- Transcatheter arterial chemo-embolization, a procedure that delivers chemotherapy drugs directly to the tumor through blood vessels, sparing healthy tissue

RESEARCH TO IMPROVE CLINICAL CARE

Cincinnati Children's is a major center for pediatric cancer research. Physicians and researchers in the Liver Tumor Program lead and participate in numerous clinical research studies, with the goal of improving the prognosis and quality of life for patients with liver tumors. Cincinnati Children's conducts research in the following areas:

- Tumor formation, development and biological characteristics
- Advanced diagnostics and classification
- Molecular target identification
- Tumor marker standardization in post-transplant patients
- Genetics
- Radiographic correlations to therapy
- Clinical therapy correlations and outcomes

Some of these studies are sponsored by Cincinnati Children's, and some are offered at our site through national cooperative research organizations such as the Children's Oncology Group and National Cancer Institute's Pediatric Phase I Consortium. Physicians and researchers at Cincinnati Children's play a leading role in many national and international clinical research studies. This level of engagement in research ensures that patients have access to the most innovative and effective cancer treatments.

For immediate consultations, physician referrals and patient care follow-up, call the Physician Priority Link at **1-888-987-7997**.

For international inquiries call **+1-513-636-3100**.