

St. Jude Children's Research Hospital offers expertise in rare and complex pediatric cancer surgeries, with a focus on procedures to promote long-term survival and quality of life. Children with solid tumors that require removal as part of the treatment may be eligible to come to St. Jude just for surgery, even if they are receiving other parts of their cancer treatment (e.g., chemotherapy) at another facility.

Solid Tumor Surgery

Our surgeons specialize in treating children with solid tumors, including:

Wilms tumor – Both complex unilateral Wilms tumor (e.g., with intravascular thrombus) and bilateral Wilms tumor, with the goal of performing nephron-sparing surgery to preserve kidney function.

- More than 85% of children treated at St. Jude for bilateral Wilms tumors have received bilateral nephron-sparing surgery, thereby saving at least part of each kidney.
- St. Jude surgeons have published widely on advances in Wilms tumor treatment and kidney preservation.

Osteosarcoma and Ewing sarcoma – Limb-sparing techniques, including bone grafts and implants

- More than 90% of our patients with bone tumors are limb-sparing candidates, with a greater than 80% excellent functional result in reconstruction of the lower extremities.
- Our surgeons use expandable prostheses for the management of skeletal reconstruction in skeletally immature patients following tumor resection.

Neuroblastoma – Surgery to remove neuroblastoma tumors without damaging other organs.

- We specialize in managing children with high-risk and stage 4 neuroblastoma.
- Over 80% of these patients at St. Jude are able to have a gross total resection.

We also provide expert and experienced surgical treatment for **soft tissue sarcomas, germ cell tumors and liver tumors**.

About us

Our solid tumor surgical team includes the full spectrum of general and subspecialty surgeons, who are pioneers in their fields. The operating room and surgery team allow St. Jude to offer personalized care, using cutting-edge procedures and the latest specialized surgical equipment to achieve the best outcomes possible. When feasible and appropriate, our surgeons use minimally invasive techniques for solid tumor removal.

Contact us

Department of Surgery:

Andrew Davidoff, MD, Chair
andrew.davidoff@stjude.org
901-595-4060

Physician/Patient Referral Office:

referralinfo@stjude.org
901-595-4055
1-888-226-4343 (toll-free)