

# Advanced Surgical Center

## FUNDING OPPORTUNITY

Families come to Gillette Children's Specialty Healthcare looking for answers, comfort and hope. Often their child needs advanced surgical interventions that are not common procedures at many children's hospitals.

These families arrive at Gillette because we're the leading experts in caring for children who have complex, rare and traumatic conditions. They stay because we give them the answers, support them on their journey and, through our cutting-edge surgical interventions, we offer more than hope. We help their child achieve their greatest potential.

- Gillette physicians provide over 65% of complex spine procedures in Minnesota, including severe scoliosis and other curvatures.
- We're the only hospital in the Twin Cities to achieve dual accreditations as a Level 1 Pediatric Trauma Center and pediatric rehabilitation specialty center.
- Gillette treats thousands of children each year who have cerebral palsy, making it among the top five U.S. children's hospitals for CP.



We're here to serve our patients and families but our technology and space requirements are under intense pressure. Gillette is preparing for the future and is focused on new equipment needs, space renovations, new software, surgical tools and training for physicians and staff.

Our plans include recruiting and hiring new surgeons and the addition of advanced surgical devices and instruments to support complex surgical procedures and include:

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- **New Surgical Microscopes** used in advanced neurosurgical procedures.
- **Wireless devices** to track a patient's blood pressure, sweating, heart rate, muscle activity, facial expression and eye tracking. This is especially valuable when treating and testing patients who have limited speech.
- **3-D Printer** for 3-D models of spines and other body parts.
- **Intra-operative MRI/CT** to improve patient safety, care and outcomes.
- **Additional EOS X-Ray imaging systems** to provide a low-dose radiation option for patients who require frequent imaging as part of their treatment plan.
- **Imaging Software** to improve surgical guidance.
- **Instrumentation and other high-use surgical tools.**
- **Recruitment and training.**

Gillette is pioneering treatments such as deep brain stimulation to help kids regain motor skills lost due to brain damage. Our new technique for craniosynostosis repair keeps patients from needing blood transfusions during surgery. The Gillette OrthoCleft® retainer—a pre-surgical orthodontic appliance—results in better outcomes in children born with cleft lip and palate. Our innovations help kids live better lives.

*"We're changing the lives of our patients. We need to stay on top of new technologies and, with the help of our doctors, nursing staff and therapists, determine what is beneficial to our patients. This offers hope."*

*—Karen Brill, vice president of patient care and chief nursing officer*



Gillette Children's Foundation  
200 University Ave. E.  
St. Paul, MN 55101

651-229-1726  
foundation@gillettechildrens.org  
gillettechildrens.org

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## Advanced surgical equipment and techniques at Gillette helped Joshua

Joshua spent his first five years living in an orphanage in Ukraine before his new parents brought him home to Minnesota. He was born with congenital scoliosis, which causes abnormal rotation and side-to-side curvature of the spine and makes it difficult to breathe.

Three days after he came home to Minnesota Joshua's parents brought him to see Tenner Guillaume, MD, an orthopedic surgeon at Gillette Children's Specialty Healthcare who specializes in spine surgery. Guillaume worked with Joshua and his family to create a customized treatment plan for Joshua's scoliosis. Over the next month the family met Gillette specialists from pulmonology, cardiology, neurosurgery, radiology and imaging. Joshua's treatment plan included several surgeries, one of which was a procedure to implant magnetically controlled growing (MAGEC®) rods.

The implanted expandable MAGEC rods act as internal braces to control curve progression while allowing for normal skeletal growth. The rods are especially helpful for kids, like Joshua, who have early onset scoliosis. The implantation surgery helped Joshua immensely. His spine went from a curvature of more than 110 degrees to a roughly 88-degree curvature.

Today, Joshua enjoys the freedom he feels when he rides his bike. Racing around his neighborhood was not something he thought was possible a few years ago.

Thanks to a customize treatment plan at Gillette Children's Specialty Healthcare and pioneering surgeries Joshua is thriving and out-peddling his siblings.



Tenner Guillaume, MD, shows Joshua an image of the magnetically controlled growing (MAGEC) rods in his spine.

**Your gifts to Gillette help kids increase their strength, stamina, balance—and freedom.**

*Joshua enjoys the freedom he feels while riding his bike.*

