# Advanced Technology


At Cook Children's we've made a promise to improve the health of every child in our region through the prevention and treatment of illness, disease and injury. To keep that commitment we provide the most advanced technology and treatments available.

**Another first for Cook Children's. Another advantage for your child. Kids at Cook Children's are among the very first patients in the world to undergo DBS while asleep.**

The Jane and John Justin Neurosciences Center at Cook Children's is recognized for its dedication in bringing extraordinary technologies and treatments to our patients. In the hands of our very skilled specialists, groundbreaking advancements such as laser ablation surgery or deep brain stimulation deliver pinpoint precision and reduced risk in brain surgeries. At Cook Children's we continually seek to provide extraordinary care and better results–like going home seizure free only one day after brain surgery–and that's the best kind of advancement of all.

## Epilepsy Monitoring Unit (EMU)

Our state-of-the-art Epilepsy Monitoring Unit (EMU) is an important part of the evaluation and integrated care of children with epilepsy and recurrent unprovoked spells.

## Intraoperative magnetic resonance imaging (iMRI)

Cook Children's is one of a handful of children's hospitals in the country to acquire the revolutionary intraoperative MRI (iMRI). The iMRI system technology enhances surgical procedures by displaying highly accurate, real-time digital images of the brain during surgery.

## Laser ablation surgery

Cook Children's ushers in a whole new era in neurosurgery with the introduction of laser ablation surgery to North Texas. This minimally invasive neurosurgery uses smarter technology for more precise removal of lesions and tumors in a child's brain while at the same time reducing risk.

## Magnetoencephalography (MEG)

MEG, or magnetoencephalography, makes it possible for our specialists to see the electrical activity in your child's brain with pinpoint accuracy. MEG is safe, noninvasive and an amazing tool for helping our specialists map out not only your child's brain, but a treatment plan that will get your child on the road to recovery.

## Robotic arm technology

Using the very latest in smart technology, the robotic arm is a brilliant tool that takes electrode placement to a whole new level.

Need help referring a patient?
Please call the International Patient Services department at +1-682-885-4685,
send faxes to +1-682-885-2557, or email international@cookchildrens.org