



# Integrated Neurosurgery Solutions

Technology that Enables, Service that Assures

## Medtronic Mission

To contribute to human welfare by application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that alleviate pain, restore health, and extend life.

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# Enabling for Future Success

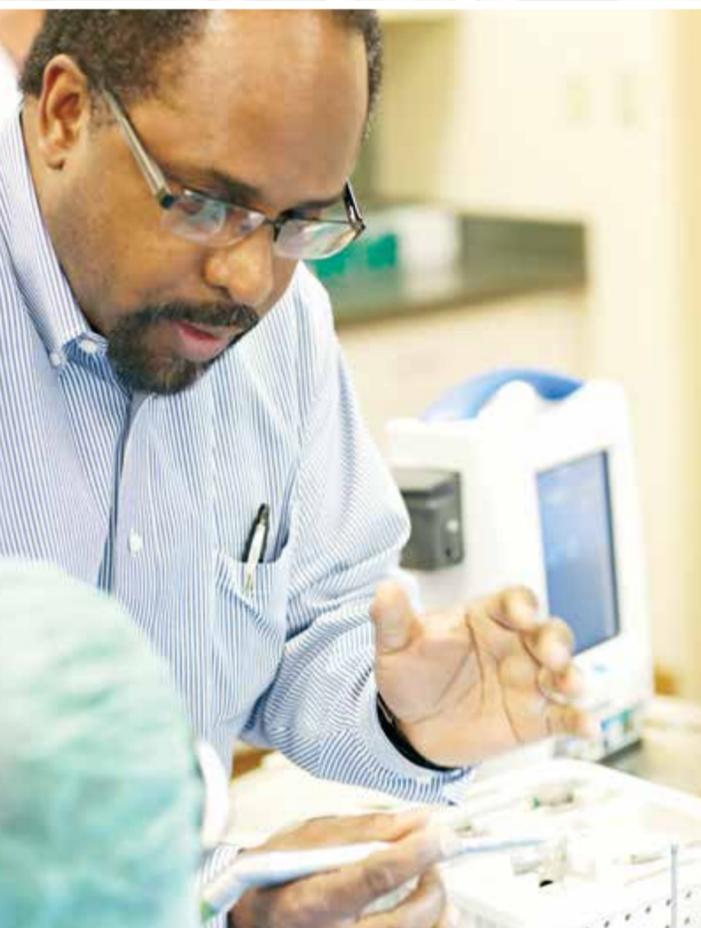
In order to deliver excellence in patient care, you need a partner that will help reduce the burden on the hospital, the staff, the patients, and their caregivers by developing integrated technology and service solutions to meet a more complex continuum of care.

## Medtronic Partner delivers:

- Competencies: Technologies and education that empower the teams across specialties
- Partnership: Support that builds confidence and the ability to maintain excellence as your program grows
- Care Continuum: Solutions that extend across the neuroscience center's needs

# Medtronic Your Partner of Choice

With over 50 years of delivering market-leading innovation, Medtronic Neurosurgery is uniquely positioned to support you in achieving your goals. Our comprehensive and integrated technologies are setting the standard in Integrated Neuroscience Centers. From sophisticated navigation and imaging solutions to integrated OR planning, to technical and clinical consultants, Medtronic Neurosurgery supports your entire neuroscience team and your diverse program and facility needs.



## COMPETENCIES



## Competencies

Medtronic Neurosurgery holds several hundred US patents across the spectrum of technologies that support your team. We invest significantly each year in new research & development projects in order to anticipate the clinical and administrative needs to propel your center forward.

### Industry Firsts Include:

- O-arm 3D imaging for auto-registration of spine patients
- Augmenting StealthStation planning capabilities with white matter tractography
- Electromagnetic navigation for pediatric and adult neurosurgery patients
- *and much more...*

### Technology Integration Across Care Continuum

The future of your center may need:

- Further integration of tools and technologies in the OR, (e.g. more navigated instrumentation)
- Information that is mobile and available to your staff wherever they are (e.g. outside OR, around the globe)
- More depth of expertise in a given area, or a given step of a procedure, or during a specific touchpoint with a patient

### Research

Medtronic continues to research new methodologies and innovations to enhance all of the above. We look for ways to integrate technologies inside the OR, as well as further upstream in a patient's care pathway (e.g. with planning and multi-peer collaboration). Our goal is to ensure the 6 care steps depicted here continue to be streamlined for your staff and patients.

## Plan

The **StealthViz®** application is a powerful 3D surgical planning, visualization and collaboration application for cranial neurosurgery. It enables surgeons with all the pertinent information, right at their fingertips, both remotely and in the OR. Surgeons can perform "what if" exploration to determine their optimal approach, plan the extent of tumor resection, and execute the surgery with more information than ever before.

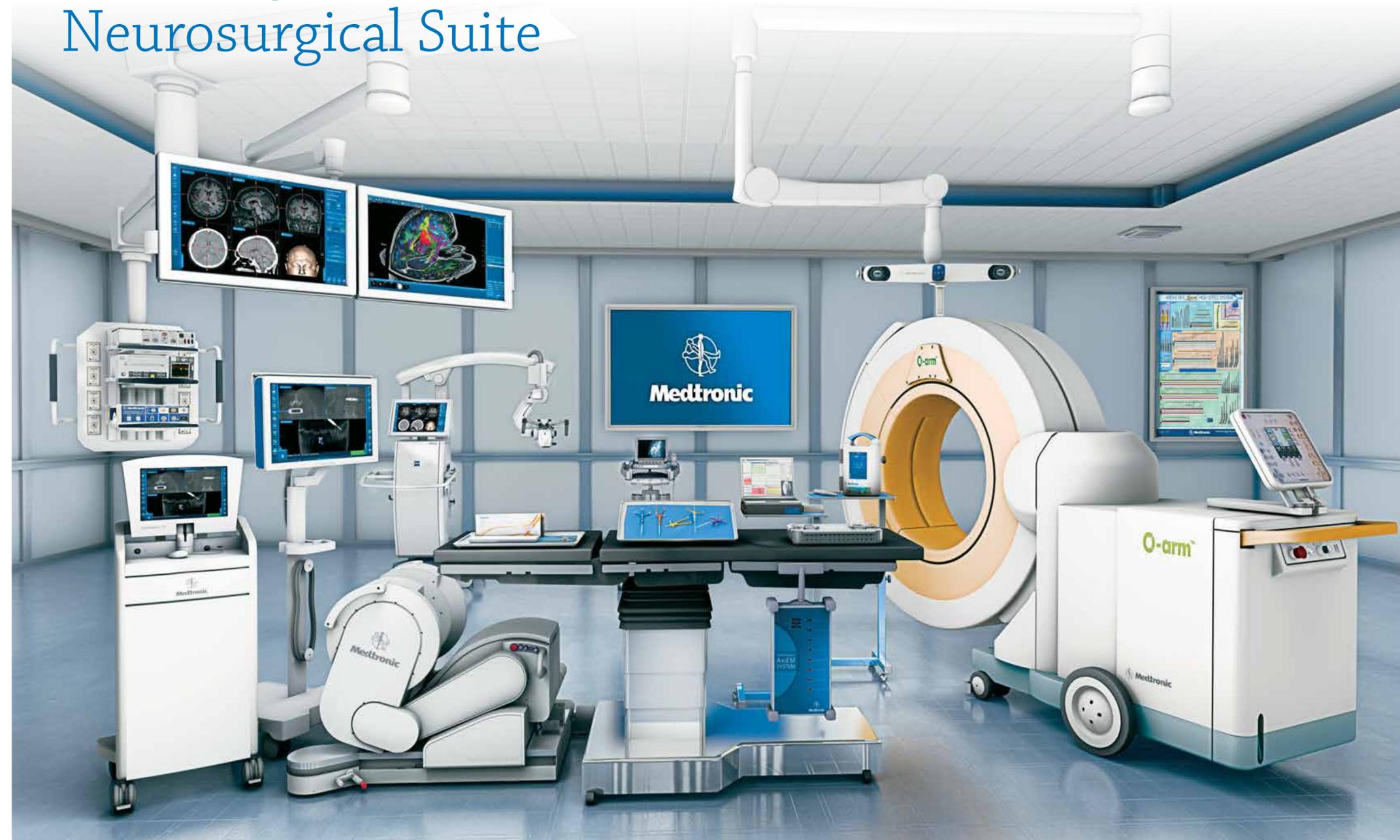
## Power

**Midas Rex® Powered Instruments** provide a high-speed platform for multiple surgical specialties with both micro-saws and drills. The versatile system standardizes its extensive line of tools and attachments to provide you more value and consistency within your institution.

## Navigate

**StealthStation® Navigation** provides the ability to navigate to precise anatomy while in the OR. The system is designed to integrate with intraoperative imaging systems and hospital IT networks to provide the clinical staff the information they need when they need it. The result is enhanced OR workflow and patient care.

# The Integrated Neurosurgical Suite



## Therapy

Medtronic offers many implantable therapies across the Neurosciences specialties: Hydrocephalus shunts, deep brain stimulation devices, numerous spinal implant therapies, and cranial trauma/critical care solutions.

## Image

Intra-operative imaging systems, such as the **O-arm® Imaging System** and the **PoleStar® Surgical MRI** integrate seamlessly to provide multi-modality intra-operative scans. They enable surgeons to visualize anatomy in 3D during surgery. Working together with **StealthStation** navigation, these systems may reduce the probability of revision surgery and streamline the OR workflow.

## Monitor

**NIM-Eclipse® Nerve Monitoring System** offers surgeon-directed and neurophysiologist-supported spinal and cranial neuromonitoring technology in an easy-to-use platform that enables physicians to monitor critical neural pathways and may reduce the risk of postoperative neurological deficits.

## Partnerships

**Education and Training:** Our medical education programs drive clinical expertise through accredited continuous learning. Courses based on your clinical role can be taken at **Medtronic Global Training Institutes** (CO, TX), or on-line at your convenience, or at your site. The clinical staff is the key to the success of your neuroscience service line. Enabling their ability to succeed is critical to building an essential partnership with Medtronic.

**Service and Support: Medtronic Neurosurgery** provides procedural services that include: surgical case support, on demand equipment in-service, expert technical phone support, and fee-per-use programs. Through our **ResponseCare™** Services portfolio, we ensure consistent, reliable equipment performance. These services include: next day on-site service, planned maintenance, software upgrades, remote diagnostics.

These offerings help support your surgical center of excellence.

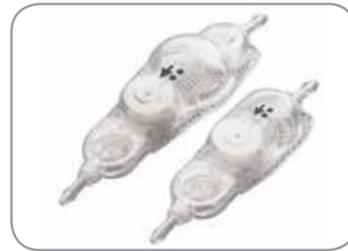
# A Heritage of Innovation You Can Trust

Over 50 years ago, Medtronic Neurosurgery started on a journey to provide innovative technology and service solutions that strive to improve surgery, increase access to therapies, and improve the efficiency of healthcare delivery in order to reduce overall costs.



Midas Rex **50**  
1962 — 2012

The **Midas Rex® drill family** celebrates 50-plus years of commitment to our customers and longevity in ORs around the world, serving surgeons for spinal, cranial, ENT, orthopedic and other surgeries. Product development and manufacturing of this extensive instrument line is based in Fort Worth, Texas.



Shunts **30**  
1982 — 2012

The **Hydrocephalus therapy line** celebrates 30-plus years of successful longevity serving patients around the world with various cerebro-spinal fluid (CSF) challenges. Product development and research for this sophisticated shunt and critical care product line is based in Goleta, California.



StealthStation **20**  
1992 — 2012

The **StealthStation® navigation system** celebrates 20 years of successful longevity in cranial, spinal, ENT and orthopedic surgeries. Product development and research for this high technology product line is based in Louisville, Colorado.



**Medtronic**