

Restorative Neurosciences Program

overview

The Restorative Neurosciences Program at Froedtert & The Medical College of Wisconsin is one of a very limited number of centers in the country providing expert care and innovative surgical treatments for movement disorders and other neurologic conditions to help people improve function and quality of life. Surgical therapies include Deep Brain Stimulation, Motor Cortex Stimulation, Vagal Nerve Stimulation, Peripheral Nerve Stimulation, Occipital Nerve Stimulation, Cordotomy, DREZ, Trigeminal Nerve Stimulation, Spinal Cord Stimulation, and implanted drug delivery systems.

Candidates for these specialized procedures include any patient with a neurological disorder that is not responding adequately to medical treatment. These disorders include:

Parkinson's disease, Dystonia, Essential Tremor, Chronic Pain, Facial Pain syndromes, Tourette's syndrome, Cluster headaches, medically refractory transformed Migraines, Obsessive Compulsive Disorder, Spasticity, medically intractable Epilepsy, Depression (study) and Tinnitus (study).

- Functional Restorative surgery is a branch of neurosurgery with the chief goal of returning patients to a more normal neurologic status. Our program features a rare commodity: a board-certified neurosurgeon who is fellowship –trained in the art of functional restorative neurosurgery.
- The Restorative Neurosciences Program brings together an interdisciplinary team of neurologists, neurosurgeons, psychiatrists, neuropsychologists, researchers and other specialists who offer the latest medical and surgical treatments for patients with neurological and psychiatric disorders.
- Advanced neuro-imaging technology (MRI, fMRI and CT scanning) is used to map the physical structure and functioning of the brain to identify symptoms and target areas in the brain requiring stimulation.
- Possessing one of the very few Magnetoencephalography (MEG) units in the country, our clinicians and researchers have new ways to map regions of the brain that may assist in localizing pathology and determining the function of various parts of the brain.
- Medical College of Wisconsin researchers are studying the use of brain stimulation and spinal cord stimulation to treat a variety of neurological disorders including stroke, depression, pain, and tinnitus.
- Care of patients is co-managed with referring physicians to coordinate treatment and follow-up care.

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Medical College of Wisconsin physicians and staff

Neurosurgery

Brian Kopell, MD
Neurosurgeon

Neurology

Bradley Hiner, MD
Movement Disorders Neurologist

Serena Hung, MD
Movement Disorders Neurologist

Karen Blindauer, MD
Movement Disorders Neurologist

Psychiatry

Harold Harsch, MD, PhD, ABPP
Psychiatrist

Charles Rainey, MD, JD, FCLM
Psychiatrist

Jerry Halverson, MD
Psychiatrist

Neuropsychology

Julie Bobholz, PhD
Neuropsychologist

Pain Psychology

Timothy Lynch, MD
Pain Psychologist

Physical Medicine and Rehabilitation

John McGuire, MD
Physiatrist

Pain Management

Jeremy Scarlett, MD
*Anesthesiologist and
Interventional Pain Management*

Movement Disorders Nurse Specialists

Christopher Sheridan, BSN, RN
Program Manager

Sherrell Bertoni, RN
DBS Nurse

we work with you

Our physicians and staff work closely with referring physicians to coordinate treatment as well as follow-up care. The Restorative Neurosciences team provides an initial evaluation report after the patient's first visit and subsequent progress reports.

contact us

To refer a patient to the Restorative Neurosciences Program, call 414-805-3666 or 800-272-3666.

For more information about the program or to consult with one of our physician specialists, call 414-805-4700 or 877-804-4700.

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