

COMPASSION FOR THE WHOLE CHILD



“The clinic team has never lost sight of Tommy as a whole: a child, a student and a member of a family. For that, we are truly grateful.”

—Michelle

THE GAIT LAB

Some of the children who are evaluated at the NeuroModulation Clinic will be referred to the **Leon Root, MD, Motion Analysis Laboratory** for additional assessment. Known as “The Gait Lab,” this state-of-the-art facility at the Hospital for Special Surgery is a 12-camera, 3D system that performs comprehensive evaluations to determine walking characteristics, functional ability, muscle strength, and energy efficiency. The laboratory has done extensive evaluations on children with cerebral palsy to identify walking impairments.



Gait Lab phone number: 212-606-1215

BEFORE YOUR APPOINTMENT

We ask that you collect all previous MRI/CT scans with their reports, the most current or last note from your pediatrician or physician referral, and any other note that would be helpful from a specialist/physician caring for your child. When you make your appointment, speak with our team to find out the best way to send or fax those papers over to us. Our team will review these records and discuss if any further reports or imaging would be needed prior to the appointment! Please bring a pair of shorts that your child can change into so that we can best evaluate and assess your child's gait. Our group looks forward to meeting you at our next clinic.



**505 East 70th Street
(between York Avenue and East River)**

**Call us to schedule your appointment:
212-746-2363**

DIRECTIONS

BY CAR

Coming from FDR North, take the 61st Street exit and make a right turn onto York Avenue. Coming from FDR South, take the 71st Street exit and make a left turn onto York Avenue. The main entrance is located east of York Avenue at 520 East 70th Street, 6th Floor, Suite 651.

PARKING

Valet parking is available at the main campus on 525 East 68th Street entrance and at garages located on York Avenue between 68th and 70th Streets.

BY SUBWAY

Take the 6 train to the 68th Street/Lexington Avenue Station. Walk four blocks east to York Avenue and two blocks north to 70th Street. The entrance is located east of York Avenue at 520 East 70th Street, 6th Floor, Suite 651.



<http://www.facebook.com/WeillCornellPediatricBrainandSpine>

Pediatric NeuroModulation Clinic

**Advanced diagnostics
and treatment for children
with spasticity,
gait abnormalities,
and movement disorders**



Weill Cornell Pediatric Brain and Spine Center

www.cornellneurosurgery.org

WHAT IS THE NEUROMODULATION CLINIC?

We are a multidisciplinary team of specialists trained to diagnose and treat a wide range of movement disorders in children and adolescents. Because we come from different specialties, we have the ability to look at a child's issue from multiple perspectives.

Many children with known diagnoses come to us in search of alternative options for care; others are misdiagnosed and therefore have not been treated effectively. Some parents and physicians may not know what options even exist. At the NeuroModulation Clinic, our goal is to recognize exactly what's limiting your child's movement and identify what your goals are. We can then develop an appropriate treatment plan based upon those factors.

WHAT HAPPENS AT THE CLINIC?

We meet in a monthly session, where our interdisciplinary team sees a group of children. Our specialists will already have reviewed your child's medical records, including previous MRI/CT scans and your pediatrician's notes. When we see your child, we'll assess his or her gait and/or motion to continue the process of evaluating his or her case with a range of specialists available to participate. (Bring a pair of shorts for your child to change into.)

WILL MY CHILD NEED SURGERY?

Possibly—but our first line of treatment is always non-surgical. Our collaborative approach means that we'll always exhaust all non-invasive options before we discuss surgical intervention. If your child does require surgery, the Clinic offers the combined resources of NewYork-Presbyterian Hospital/Weill Cornell Medical Center and the Hospital for Special Surgery to ensure the child receives the best possible care.

SHOULD MY CHILD BE EVALUATED?

Many children experience issues of what we call "neuromodulation," meaning walking, balancing, and movement. We evaluate children with any movement disorder, but we commonly see children with cerebral palsy, dystonia, traumatic brain injury, stroke, tumors, and similar conditions. We offer individually tailored care to help your child regain or improve function.

"I'm delighted with how far Sofia has come thanks to the team at the Neuro-Modulation Clinic."

—Tricia



WHAT SERVICES DO YOU PROVIDE?

We will always offer the least invasive, nonsurgical options first—our goal is maximum benefit with minimum anxiety. If surgery is indicated, options include minimally invasive procedures with quick recovery times. Our range of treatments includes:

- Botox injections
- Neurectomy
- Minimally invasive selective dorsal rhizotomy
- Intrathecal Baclofen infusion for spasticity
- Intraventricular Baclofen infusion for dystonia
- Deep brain stimulation
- Muscle and tendon lengthenings
- Tendon transfers
- Rotational osteotomies
- Complex hip reconstruction
- Foot realignment surgery
- Crouch gait surgery

HOW DO I GET STARTED?

Call our office for an appointment at 212-746-2363. Our intake specialist will make your appointment and walk you through the process.

MEET THE TEAM

JEFFREY GREENFIELD, MD, PhD, is a pediatric neurosurgeon at NewYork-Presbyterian Hospital/Weill Cornell Medical Center. Dr. Greenfield has devoted his practice to the care of children with disorders of the central nervous system.



LEON ROOT, MD, is the Medical Director of Rehabilitation Services at the Hospital for Special Surgery and is recognized worldwide as one of the leading experts in the treatment of cerebral palsy and osteogenesis imperfecta.

DAVID SCHER, MD, is a pediatric orthopedic surgeon with a subspecialization in the care of children with cerebral palsy. Dr. Scher is the co-director of the Leon Root Motion Analysis Lab at the Hospital for Special Surgery.



MURRAY ENGEL, MD, is a professor of clinical pediatrics and neurology at the Weill Cornell Medical College, the director of the clinical service of the Division of Child Neurology, and a consultant at the Hospital for Special Surgery.

DR. HEAKYUNG KIM is a pediatric physiatrist who specializes in the care of children with neuromuscular disorders and other special needs. Dr. Kim uses several therapies, including Botox and phenol injections, Baclofen therapy, and biofeedback.



MARIA RUST, CPNP, a pediatric nurse practitioner since 2005, works alongside Dr. Greenfield at the Weill Cornell Pediatric Brain & Spine Center. She is the practitioner liaison for the NeuroModulation Clinic.

KERRY MALESKA, MS, CPNP, is a pediatric nurse practitioner who works alongside Dr. Engel at the Weill Cornell Pediatric Neurology department.

