

FREQUENTLY ASKED QUESTIONS ABOUT THE MYOMO e100 NEUROROBOTIC SYSTEM

What is the Myomo e100 NeuroRobotic System?

The Myomo e100 NeuroRobotic System is a portable, wearable robotic arm brace. It is designed to be used by patients with their occupational therapist or physical therapist to help them relearn how to move their partially paralyzed arm. The device does not require surgery, oral medicine or electrical stimulation. Instead, the Myomo e100 employs advanced NeuroRobotics technology to allow individuals to self initiate and control movement of affected limbs using their own biological signals.

What is NeuroRobotics?

NeuroRobotics is a new category of medical device technology, combining advances in neuroscience and robotics, to simultaneously engage and reinforce the neurological and motor pathways that affect motor control. The goal is, by enabling patients to actively engage in repetitive training that reinforces normal movement patterns; people who have suffered a neurological injury may improve mobility without wearing the device. In some cases, it has been effective years after the injury. In development since 2002, NeuroRobotics was pioneered by Myomo co-founders through MIT research and collaboration with prominent medical experts affiliated with Harvard Medical School.

How does the e100 NeuroRobotic System work?

The lightweight, portable robotic device is worn on a patient's arm. A sensor that sits on the skin's surface is used to detect a person's muscle signal as he or she attempts movement. When a patient's electrical muscle activity signal fires in response to attempted movement, the device senses the signal from the skin's surface. The system then employs advanced robotics to reward the patient with feedback in the form of actual motion. Since the presence (or absence) of a person's EMG signal determines motion, patients using the Myomo device may stop and re-adjust positioning during real-time execution of a targeted exercise as they work toward muscle re-education training. Adjustable system parameters allow therapists adjust assistance levels in proportion to patient ability.

Who is appropriate to use the e100 NeuroRobotic System?

If a patient is experiencing limited mobility or severe muscle weakness in the upper extremity due to a neurologic injury, such as STROKE, BRAIN INJURY, SPINAL CORD INJURY or MULTIPLE SCLEROSIS, he or she may be a candidate for the Myomo e100 NeuroRobotic System. Only a trained medical professional can determine if a patient is an appropriate candidate for Myomo therapy. Patients interested in using the Myomo device should contact their doctor or therapist to be evaluated for NeuroRobotic therapy.

Will my insurance cover treatment with the e100 NeuroRobotic System?

Treatment with the Myomo e100 NeuroRobotic System during inpatient and outpatient therapy is covered in full or in part by most health insurance plans, including Medicare and Medicaid.

How to enroll in treatment with the e100 NeuroRobotic System?

You will need to obtain a prescription from your physician. The prescription should contain the following information:

- Name
- Diagnosis
- Occupational therapy or physical therapy to evaluate and treat