

Clinical Research

"Giving Them a Hand: Wearing a Myoelectric Elbow-Wrist-Hand Orthosis Reduces Upper Extremity Impairment in Chronic Stroke" a study by H.T. Peters, S.J. Page, and A. Persch of Ohio State University School of Medicine, was recently published in the Archives of Physical Medicine and Rehabilitation.*

"This study was conducted on 18 chronic stroke participants with moderate post-stroke upper extremity hemiparesis and studied use of the MyoPro powered orthosis offered by Myomo, a medical robotics company in Cambridge, Massachusetts. The subjects were tested to evaluate the degree of impairment and function without the MyoPro and compare it with impairment while wearing the device. A standardized measurement tool was used (the Fugl-Meyer Impairment Scale (FM) as well as observing functional tasks. The results show a clinically significant instantaneous reduction in arm and hand impairment and statistically significant improvements in a range of functional tasks and significant increases in ability for feeding and drinking. The subjects showed significant decreases in time taken to grasp a cup and increased gross manual dexterity while wearing the MyoPro. These changes exceeded the FM's clinically important difference threshold."

For more information and to view videos of MyoPro users, visit www.myomo.com.

* The study can be found at [http://www.archives-pmr.org/article/S0003-9993\(17\)30026-6/fulltext](http://www.archives-pmr.org/article/S0003-9993(17)30026-6/fulltext)

myomo[®]
my own motion

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myopro[®]

Arm weakened or paralyzed by stroke,
brachial plexus injury or other
neuromuscular disease or injury?

Myoelectric powered brace
may be able to help.

What is the MyoPro?

The MyoPro® orthosis from Myomo® is a myoelectric orthosis (powered brace) that enables patients to use an impaired hand and arm again. It is the only device that can restore function in the paralyzed or weakened arms and hands of most individuals that have suffered a stroke, spinal cord or nerve injury, or other neuromuscular disability. It works by reading the weak electromyographic (EMG) signals from the surface of the skin (no implants) then activating tiny motors to move the arm and hand as intended (no electrical stimulation).

With MyoPro, a paralyzed individual can perform activities of daily living including feeding themselves, carrying objects, and doing household tasks. Many are able to live independently and return to work.



Free Consultation

MyoPro is recommended by physical and occupational therapists, prescribed by physicians and recommended and delivered by orthotics and prosthetics professionals. MyoPro is not right for everyone, and results vary. For a free, no-obligation consultation with a Myomo clinician, contact Myomo through its website, www.Myomo.com, email info@myomo.com or phone 877-736-9666.

MyoPro is Supported by World-Renowned Medical Experts, Clinical Research and Top Medical Centers

The MyoPro device has been successfully used by hundreds of patients. It is recommended by O&P providers and therapists and prescribed by physicians at some of the most important neuromuscular rehabilitation medical centers, including Massachusetts General Hospital, Spaulding Rehabilitation Hospital, Kennedy Krieger Institute / Johns Hopkins, Cleveland Clinic, Mayo Clinic and Loma Linda University Medical Center. It is also approved by the Veterans Administration and available at VA hospitals across the country. For more information and to view videos of MyoPro users, visit www.myomo.com.

"MyoPro helps the patient to feel like they are part of the house, to feel like they are out there in the world not just sitting on the couch and eventually get back out into the workforce if they were working before and become productive members of society."

Dr. Anna Serels, physiatrist, University Hospitals, Cleveland



"This innovative device, the MyoPro, is extremely important. This could enable people to change how they live their lives, at home or in a workplace. This is an exciting opportunity."

Dr. Ross Zafonte, Head of the Department of Physical Medicine and Rehabilitation, Harvard Medical School, Chief of Physical Medicine and Rehabilitation at Massachusetts General Hospital, Senior Vice President Medical Affairs Research and Education at Spaulding Rehabilitation Network.

