



WHAT IPSIHAND® USERS ARE SAYING

“I’m an independent person, so I like to do things freely and not be dependent. After using IpsiHand, my ability to be independent is stronger.”

— MONICA

“Wonderful innovative tool that makes sense and I have my affected hand back 18 years post stroke!”

— CHRIS

“After using the IpsiHand, I am able to dress myself, make my bed, wash dishes, and cook my own breakfast again.”

— DEENEAN

INDICATIONS FOR USE

The Neurolutions IpsiHand® system is prescribed by a physician and is a brain-computer interface (BCI) system which is indicated for use in chronic stroke patients (≥ 6 months post-stroke) age 18 or older undergoing stroke.

CONTRAINDICATIONS

The Neurolutions® System is contraindicated for use in patients having any of the following conditions:

- Severe spasticity or rigid contractures in the wrist and/or digits that would prevent the Neurolutions Handpiece from being properly fit or positioned for use.
- Skull defects due to craniotomy or craniectomy.

(1) QRS-008, QRS-012, & QRS-013; (2) Bundy DT, Souders L, Baranyai K, Leonard L, Schalk G, Coker R, Moran DW, Huskey T, Leuthardt EC. Contralesional Brain-Computer Interface Control of a Powered Exoskeleton for Motor Recovery in Chronic Stroke Survivors. *Stroke*. 2017 Jul;48(7):1908-1915. doi: 10.1161/STROKEAHA.116.016304. Epub 2017 May 26. PMID: 28550098; PMCID: PMC5482564. Contralesional Brain-Computer Interface Control of a Powered Exoskeleton for Motor Recovery in Chronic Stroke Survivors; (3) TSP-001, TSP-002, TSP-008, User Manual LBL-0001(Q); (4) Nabi Rustamov, Joseph Humphries, Alexandre Carter, Eric C. Leuthardt, Theta-gamma coupling as a cortical biomarker of brain-computer interface-mediated motor recovery in chronic stroke, *Brain Communications*, Volume 4, Issue 3, 2022, fcac136, <https://doi.org/10.1093/braincomms/fcac136>; (5) Humphries, J. B., Mattos, D. J. S., Rutlin, J., Daniel, A. G. S., Rybczynski, K., Notestine, T., ... Leuthardt, E. C. (2022). Motor Network Reorganization Induced in Chronic Stroke Patients with the Use of a Contralesionally-Controlled Brain Computer Interface. *Brain-Computer Interfaces*, 9(3), 179–192. <https://doi.org/10.1080/2326263X.2022.2057757>

IMPORTANT SAFETY INFORMATION

- System components contain lithium-ion batteries that MUST NOT be exposed to flame, excessive heat, or incinerated; personal injury may occur.
- Only use the Charging Adapters provided with the Neurolutions System to recharge system components and avoid risk of shock.
- Use of the Neurolutions System adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, the Neurolutions System and the other equipment should be observed to verify that they are operating normally.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Neurolutions System. Otherwise, degradation of the performance of the Neurolutions System could result.
- The Neurolutions Handpiece enclosure may reach a maximum temperature up to 43°C during use. To reduce the risk of discomfort, you should remove the Handpiece from your hand if the device feels warm on your skin.
- Tight straps on the Handpiece may restrict your circulation. Therefore, always check that the straps are not too tight throughout your range of motion to ensure proper circulation during use.
- The Neurolutions System should only be used on intact skin, and the System should be cleaned and disinfected regularly to minimize possible contamination and risk of infection.

Neurolutions

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Neurolutions

REBUILD ARM MOVEMENT ONE THOUGHT AT A TIME

with the IpsiHand® Upper Extremity
Rehabilitation System



IpsiHand® integrates seamlessly into your rehabilitation routine.

- + IpsiHand has shown clinical improvements for stroke survivors in regaining use of their affected arm or hand.
- + Using IpsiHand helps improve movement by reshaping the brain's motor networks with consistent use.

TALK TO YOUR DOCTOR ABOUT IPSIHAND

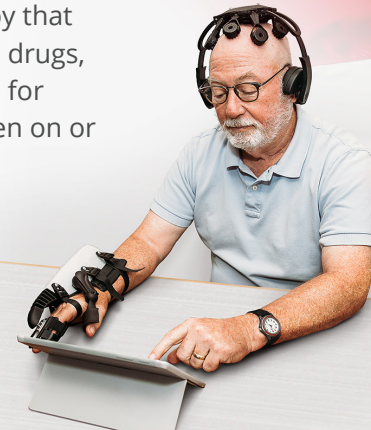
Discuss IpsiHand with your VA provider to explore how it can assist in your recovery. Together, you can determine if IpsiHand is the right solution for you.

Your provider can access and submit the **Veteran Qualification Request Form** to get started.



REGAIN ARM MOVEMENT WITH IPSIHAND®

IpsiHand is a non-invasive stroke therapy that doesn't require surgery, pharmaceutical drugs, or any type of long-term wear. It's made for simple use at home, designed to be taken on or off using just one hand.



The IpsiHand system is made up of three parts:



HEADSET

You don't need voluntary movement to benefit from using IpsiHand. The headset recognizes when you want to move your impaired hand or arm, and moves with the handpiece accordingly.



HANDPIECE

Worn over your impaired hand, the wireless handpiece opens and closes when you think about movement to help reconnect your hand with your brain.



TABLET

While wearing the headset and handpiece, IpsiHand users work on the tablet for a custom therapy session. The application guides you through exercises and gives you feedback.

 **Neuroolutions**



 **LOVELL**