

RETHINK HOW WE TREAT STROKE

The IpsiHand® system is a breakthrough device with a thought-driven, brain-computer interface designed to facilitate motor recovery of the affected upper extremity after stroke. IpsiHand is an at-home therapeutic for your patients' recovery journey.

IpsiHand harnesses the brain activity of the uninjured hemisphere and creates new neural pathways to retrain movement of the affected hand or arm. Unlike other device solutions, IpsiHand confers benefits without constant daily wear. This non-invasive device works without prescription medication and is safe for use.



OUTCOMES

The IpsiHand is a clinically-proven system that improves upper extremity movement and functional capability. It's inclusive for users of all levels of motor severity impairment and complements existing therapy routines.

- + **66% of IpsiHand users improve their dexterity** and range of motion.
- + Users may **experience motor improvement** in their shoulder, elbow, forearm, wrist, and fingers. Hand movement includes opening, closing, pinching, and grasping.
- + Presence of **biomarkers** in the brain after regular IpsiHand usage **demonstrates motor remodeling**.

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)

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**

info@neurolutions.com
neurolutions.com

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BRAIN-ACTIVATED THERAPY FOR STROKE RECOVERY



WWW.NEUROLUTIONS.COM

IPSIHAND® is a therapeutic device for stroke recovery patients, empowering users to achieve progress at home.

The IpsiHand Upper Extremity Rehabilitation System comprises of three components:



THE HEADSET

This non-invasive EEG headset measures electrical signals from the uninjured brain hemisphere, capturing the user's "intent to move" their affected hand.

THE HANDPIECE

Worn over the user's impaired hand, the wireless neurorobotic handpiece opens and closes at the same time the user thinks about movement.



THE TABLET

Our custom tablets include the Neuroolutions application that guides the user through therapy sessions and provides performance feedback.



ARE YOUR PATIENTS THE RIGHT FIT FOR IPSIHAND®?

Many stroke recovery patients have the cognitive capabilities, but just don't feel like their brain and body are connecting. IpsiHand is a great fit for motivated patients ready to take ownership in their recovery journey. **Here are three key questions that indicate if your patients might be a good fit for a prescription to IpsiHand:**

1.

Does your patient want more out of their at-home recovery than just simple exercises?

2.

Are they frustrated by their stroke recovery plateau?

3.

Have they exhausted their at-home rehabilitation exercises and want something more challenging?

Your patient may be an optimal fit for IpsiHand. Patients who could benefit from recovered motor function are ideal candidates. IpsiHand can be implemented as part of your patients' recovery journey.

HOW TO OFFER IPSIHAND TO YOUR PATIENTS

IpsiHand allows for evidence-based intense rehabilitation at home, delivering better patient outcomes and satisfaction. We partner with providers and patients to navigate the insurance coverage and prescription process.

Once your patient is prescribed an IpsiHand, Neuroolutions will take the lead. IpsiHand is ideal for self-guided home therapy sessions, but can also be a great fit for in-clinic rehabilitation.



Neuroolutions

info@neuroolutions.com
neuroolutions.com

