Kandu®

Rebuild Movement One Thought at a Time

Breakthrough At-Home Stroke Rehabilitation with IpsiHand®

The first and only brain-computer interface (BCI) therapy to receive FDA clearance for upper extremity rehabilitation after stroke.[4] The IpsiHand System encourages new neural pathways to retrain movement in their affected hand and arm.

How IpsiHand Works

Headset

The EEG headset detects contralesional motor intent to initiate hand movement via the Handpiece.[5]

Handpiece

The handpiece opens and closes the affected hand in real time, aligned with the user's thought to move their hand.[5]

Tablet

The tablet guides the therapy session, providing real-time feedback and progress tracking.[5]

Grounded in neuroscience, proven in clinical studies, and designed for real-world recovery.

Focused intention with sensorimotor feedback is the key to motor improvement.

Clinical Outcomes

- On average, about 70% of patients responded successfully to therapy.[1,2]
- Average 8.1 point improvement on the Upper Extremity Fugl-Meyer.[1]
- Motor improvement linked to objective neuroplastic changes.[1,3]

Additional Observations

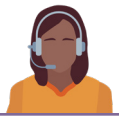
- **Entire Arm & Hand Benefits**
  IpsiHand users may experience improved mobility in the shoulder, elbow, wrist, and hand, supporting better overall arm function.[1,5]
- **Brain Plasticity**
  Enhances brain activity linked to motor learning and recovery.[3]
- Presence of biomarkers in the brain after regular IpsiHand usage demonstrates motor remodeling.[3]

Who is Eligible?

- Age 18+
- Have hemiparesis or hemiplegia in upper limb
- ≥ 6 months post-stroke

Contraindications:

- Severe spasticity in elbow, wrist, or hand (Modified Ashworth Scale ≥ 3)
- Rigid contractures in wrist/digits
- Skull defects from craniectomy/craniotomy



Stroke Navigation

Our affiliate, independent clinical practice, Kandu® Medical Service (KMS), provides optional telehealth support; from evaluation for IpsiHand eligibility through therapy management and follow up assessments. Beyond IpsiHand-related care, KMS delivers Principal Illness Navigation, supporting patients with expert, holistic services addressing Health Related Social Needs, post-stroke impairments, risk factors, and complex care plans.

Insurance Support

Coverage for IpsiHand is available through most commercial insurers, Medicare, and Veterans Affairs. Once prescribed, Kandu coordinates the coverage review and approval process to support your patient's access to care.

Advancing stroke recovery
— **one connection at a time**

Scan the QR code to learn more

1. Rustamov N, Souders L, Sheehan L, Carter A, Leuthardt EC. IpsiHand brain-computer interface therapy induces broad upper extremity motor rehabilitation in chronic stroke. Neurorehabilitation and Neural Repair. 2025;39(1):74–86.
2. Bundy DT, Souders L, Baranyai K, et al. Contralesional brain-computer interface control of a powered exoskeleton for motor recovery in chronic stroke survivors. Stroke. 2017;48(7):1908–1915.
3. Rustamov N, Humphries J, Carter A, Leuthardt EC. Theta-gamma coupling as a cortical biomarker of brain-computer interface–mediated motor recovery in chronic stroke. Brain Communications. 2022;4(3):fcac136.
4. U.S. Food and Drug Administration. De Novo Classification Request for the IpsiHand Upper Extremity Rehabilitation System. DEN200046. 2021.
5. Neurolutions, Inc. IpsiHand User Manual and Device Labeling. LBL-0001. Controlled labeling document, current version.

INDICATIONS FOR USE

The Neurolutions® Upper Extremity Rehabilitation System is indicated for use in chronic stroke patients (≥ 6 months post stroke) age 18 or older undergoing stroke rehabilitation, to facilitate muscle re-education and for maintaining or increasing range of motion in the upper extremity.

- Intended Use Environment: The Neurolutions System is designed for use in clinic or home settings as part of prescribed therapy.

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.

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.

IpsiHand is manufactured by Neurolutions, a Kandu, Inc. company.

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