

Introducing the Neural Sleeve 2, the world's most advanced wearable neurotech for mobility

The only FDA-cleared system to improve walking by simultaneously activating muscle movement and relaxing muscle spasms



- Bionic clothing that helps people with neurological conditions that affect walking, addressing challenges like foot drop and muscle weakness
- Adaptive stimulation that supports every step today and rewires how users walk for the future
- First-of-its-kind technology that addresses a long-neglected challenge for millions with mobility impairments: muscle spasms
- Personalized support that combines training and insights from the Cionic app and dedicated mobility specialists
- For people with 20+ diagnoses, including multiple sclerosis, cerebral palsy, spinal cord injury, stroke, and more

VALIDATED RESULTS

- 94% of participants demonstrated improved gait in back-to-back paired tests in multi-center research trial¹
- 30% improvement to spasticity reported by home trial participants using the Neural Sleeve 2²

HOW IT WORKS

Powered by MultiStim

Breakthrough AI-driven technology that understands intention and personalizes stimulation for every step, from walking to daily activities

- Integrating motor and sensory stimulation
- Supporting all four major muscle groups of the leg
- Coordinating movement with context – for sitting, standing, and climbing stairs – and the transitions in between
- Measuring muscle activation and limb movement

INDICATIONS:

Improve walking

Advanced algorithms adapt to a user's unique gait, and adjust to speed and terrain

Relax muscle spasms

Continuous stimulation relaxes spasms while improving walking, addressing a challenge that affects 97% of stroke survivors with motor deficits³ and 84% of people with multiple sclerosis⁴

Facilitate muscle re-education

With every step, stimulation activates the sequence of movements needed for walking and promotes neuroplasticity

HUMAN-CENTERED DESIGN

- Developed in partnership with design agency fuseproject
- Designed with enhanced flexibility and sizing for better all-day wear
- Built to give users confidence from day one and adjust with them over time

Learn more at cionic.com

¹ <https://www.omicsonline.org/open-access/augmenting-gait-in-a-population-exhibiting-foot-drop-with-adaptive-functional-electrical-stimulation.pdf>

² <https://www.cionic.com/afferent-white-paper>

³ <https://www.sciencedirect.com/science/article/pii/S1877065718314374>

⁴ <https://www.msard-journal.com/action/showPdf?pii=S2211-0348%2822%2900880-X>