

Neurotechnology for Spinal Cord Injury

An estimated 12,000 new spinal cord injuries occur per year with an estimated lifetime cost between \$500,000 and \$3 million depending on level and age at the time of injury. Most injuries occur in males between the ages of 19 to 30 and life expectancy is close to that of an average American. Although a relatively small population, this group is a significant consumer in our health care system that investors cannot continue to ignore. Neurotechnology, the use of medical electronics to interact with the human nervous system, has made rapid advancements in recent history: components have shrunk, electronics improved, and we, as a society, have become more accepting of interacting with technology. Devices are available commercially for SCI treatment in such areas as pain management, spasticity control, breathing assistance and new rehabilitation techniques.

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Personal Experience: From Many SCI Users

With such an array of different neurotechnologies for spinal cord injury, in this issue of *The Current* we have highlighted several SCI users of devices and therapies to tell you of their experiences.

Read about these stories and experience with neurotechnology by clicking [here](#) to go to the second page of our newsletter.

Resources & Updates

Featuring resources for neurotechnologies for spinal cord injury categorized by application including links to websites.

Plus, updates in the world of neurotechnology, this section highlights new products, clinical trials and events.

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Neurotech Speaks Out

Featured Article



Educate: Multiple Applications for SCI

These technologies cannot reverse the damage to the spinal cord. Instead, they are tools that can be used, for instance, to combat secondary conditions, provide further independence or to aid in the rehabilitation process. This isn't your uncle's electrical stimulation generation. Images of rusting electrodes, wires protruding from the skin and printer-sized processors are a thing of the past. Although the surface stimulation devices have evolved to become more consumer-friendly, amazing progress has been made in safe and effective implanted devices. Let's explore the many options of neurotechnology for SCI by clicking [here](#)

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It is not just exposure but gaining an understanding of the available neurotechnologies and the impact they have on people's lives. Over the past several months Neurotech Network has been presenting at events with a focus on education and expansion of awareness among persons with impairments and front-line clinicians.

For the rest of this article on our website by clicking [here](#).

Neurotech Network* is a non-profit organization dedicated to education and information dissemination regarding neurotechnologies for person with impairments. We do not rate, endorse, prescribe or recommend products, procedures or services. What we do is give you information to make better decisions. This is how we help people regain life through neurotechnology.

Enjoy our newsletter and other resources.

Sincerely,

Jennifer French
Neurotech Network

**This is the Society to Increase Mobility, dba as Neurotech Network.*

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