

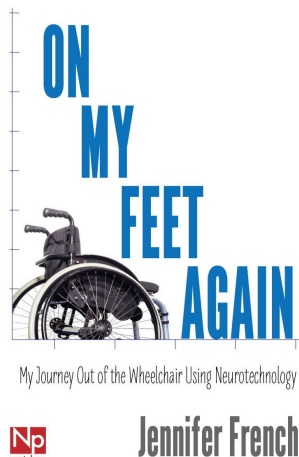
The Current

*Helping people regain life thru
neurotechnology*



Fall 2012

Must Read Books about Neurotechnology



On My Feet Again: My Journey Out of a Wheelchair Using Neurotechnology by author and co-founder of Neurotech Network, Jennifer French, was released by Neurotech Press this month. The book is an intellectually stimulating story of how a determined and resourceful woman overcame many of the obstacles that came her way after being paralyzed from a snowboarding accident. The book is available in e-books and hardcover through Amazon. [Click here to learn more.](#)

The Man with the Bionic Brain: And Other Victories over Paralysis was recently released by author Dr. Jon Mukand, MD, PhD. This book is about disability, technological advances, Matt Nagle (BrainGate patient), and others with strokes and spinal cord injury. The book is available in e-books and hardcover through Amazon. [Click here to learn more.](#)

Brain Injury & Neurotechnology Fact Sheet

A recent addition to the Neurotechnology Library has an extended reach to the brain injury community and the medical professionals who care for them. The *Neurotechnology for Brain Injury Fact Sheet: Clinical Applications & Resources* publication is being distributed through key channels to reach the targeted audience. In recent months, two organizations have accepted this into their resource repertoires:

- Brainline.org
- [Health Resources and Services Administration \(HRSA\) TBI Technical Assistance Center \(TAC\)](#)

The fact sheet was developed in a partnership between the Brain Alliance of New Jersey and Neurotech Network.

To access this FREE resource, visit our [Brain Injury Educate Page](#).

Welcome to our New Sponsor

Neurotech Network would like to welcome RI, LLC to our family of sponsors. RI, LLC is the distributor of RECK MOTomed and Hasomed rehabilitation devices in the United States. Learn more about them.



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Rarely Talked about Common Problem

An estimated 12 million Americans have it, Incontinence. An increasing number of television advertisements and product solicitations are hitting the airways, but it is still a topic people are embarrassed to admit to and talk about. Neurotechnology developments to address this problem emerging as well.

Recently, John Hopkins Alert released a consumer resource to answer 6 common questions about sacral nerve stimulation for urinary incontinence. To review this resource, [click here to access](#).

There was also a recent study published from the Department of Surgery at Regional Hospital in Treviso, Italy for the use of sacral nerve stimulation for fecal incontinence. To be directed to this study in the National Library of Medicine, [click here](#).

Neurotech Network provides a resource page for Urinary Incontinence including a layman's explanation of various types of stimulation and access to information about treatments. [Click here to access our Urinary Control Educate Page](#).

News of Interest

- Turning thought into motion, took a step forward. In a recent article in the journal Nature, scientists reveal new data for using brain computer interface by a consumer. The article titled, '*Reach and grasp by people with tetraplegia using a neurally controlled robotic arm*' can be found by [clicking here](#).
- Robust improvements were observed following eight-weeks of robotic gait

training with sub-acute stroke patients. In this 103 participant study, significant gains were observed in functional walking and balance. To read more about this article in the Journal of NeuroEngineering and Rehabilitation, [click here](#).

- Transcranial Magnetic Stimulation or TMS is a technology used for the treatment of depression. Recent a Deep TMS device offered by Brainways received a European CE Mark for the treatment of Chronic Neuropathic pain. [Read more here](#).
- Epileptic treatment of vagus nerve stimulation is a technology with a long history of clinical studies. A new generation of implantable stimulation devices can detect and possibly halt seizures. This technology was featured in Scientific American, [click here](#).
- Speech and language disorders caused by neurological conditions such as stroke or Parkinson's Disease may have a new potential treatment option. In a research study release from the University of Queensland in Australia, transcranial magnetic stimulation treatments resulted in positive outcomes from participants. [Learn more by clicking here](#).
- Mobile Music Touch (MMT) is a new musical glove being tested by a research team from Georgia Tech and Shepherd Center in Atlanta, Georgia. Preliminary tests show improved sensation and hand function by participants with tetraplegia due to spinal cord injury. [Read more here](#).
- Codman & Shurtleff, Inc. (Codman) has received the U.S. FDA approval for its Medstream Programmable Infusion System, an implantable infusion pump and catheter system that delivers the anti-spasm drug Baclofen directly to the spinal canal. The device is used in the treatment of spasticity, a movement disorder often caused by stroke, cerebral palsy, multiple sclerosis or spinal cord injury. Read more about this announcement by [clicking here](#).
- A new TENS (transcutaneous electrical nerve stimulator) device, SENSUS, was approved by the FDA for use in the United States. The device is offered by NeuroMetrix and is used for the treatment of chronic neuropathic pain. Read more by [clicking here](#).
- A research team at Rice University is developing a non-invasive brain-machine interface to a robotic orthotic device that is targeted for upper-limb rehabilitation for stroke survivors. The new technology will interpret brain waves that let a stroke patient willingly operate an exoskeleton that wraps around the arm from the fingertips to the elbow. [Read more here](#).
- New research was released for a device to treat Obstructive Sleep Apnea and published in the European Respiratory Journal. The device, offered by ImThera Medical, Inc. is a hypoglossal neurostimulation (THN) implanted system. [Read more here](#).
- Craig Hospital received a national recognition with the Magnet Prize. This award is honoring the Specialized Nursing Advice Line. To view more about this great resource for consumers and care-givers, [click here](#).
- External Trigeminal Nerve Stimulation (eTNS™) system, called the Monarch™ received CE Certification for use in Europe. The device, offered by NeuroSigma, Inc., is used for the adjunctive treatment of epilepsy and major depressive disorder. The patches are typically worn while the user is asleep. [Learn more by clicking here](#).
- St. Jude Medical, Inc. received European CE Mark approval of its Eon™ family of

neurostimulators for the treatment of intractable chronic migraines. Read more about this announcement for this implantable device by [clicking here](#).

- The National Spinal Cord Injury Association has a library of resources which includes 'Success Stories'. [Click here to visit](#).
- The Ophthalmic Devices Panel of the FDA recommended to grant a humanitarian device exemption to Second Sight Medical Products' Argus II retinal prosthesis system. The device is designed for patients who are profoundly blind due to a rare condition called retinitis pigmentosa. Learn more by [clicking here](#).

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