

Neurotechnology for Spinal Cord Injury

Part 2 – Devices, Therapies and Other Resources for the Consumer

You or someone you care about has sustained a spinal cord injury (SCI). You have heard that there are many advances and research occurring in the treatment and management of spinal cord injury. This Fact Sheet will help inform you about neurotechnology, a new field that offers technical devices and therapies for persons living with SCI. It is divided into two parts. Part 1 provides an overview of neurotechnology and its applications to spinal cord injury. Part 2 provides a listing of the devices and therapies available and additional resources. We recommend reading Part 1 first and then using Part 2 as a resource.

PART 2 NEUROTECHNOLOGY: THERAPIES, DEVICES AND PRODUCT APPLICATIONS FOR SPINAL CORD INJURY

This is a listing of devices and therapies along with organizational contact information. These are providers not clinics; however these contacts may be able to direct you to an appropriate clinician. Not all therapies, devices or treatments are appropriate for all types of spinal cord injury and approved applications vary. A medical evaluation with a trained professional should be obtained prior to use. Neurotech Network, The National Spinal Cord Injury Association and its representatives do not rate, endorse, recommend or prescribe any products, procedures or services. This fact sheet is for **informational purposes only**.

Breathing and Cough Assistance

Avery Breathing Pacemaker System - Avery Biomedical Devices, Inc.

Website: <http://www.averybiomedical.com/>
Address: 61 Mall Drive, Commack, NY 11725-5703
Phone: 631-864-1600
Fax: 631-864-1610
E-Mail: info@averybiomedical.com

Atrostim Phrenic Nerve Stimulator v2 - Atrotech Ltd.

Website: <http://www.atrotech.com>
Address: Hermiankatu 6-8F, 33720 Tampere, Finland
Phone: +358 3 3831300
Fax: +358 3 3831324
Email: atrotech@atrotech.com

NeuRx Diaphragm Pacing Stimulation (DPS)TM System - Synapse Biomedical, Inc.

Website: <http://www.synapsebiomedical.com/>
Address: 300 Artino St., Oberlin, Ohio 44074
Phone: 440.774.2488 extension 120
Fax: 440.774.2572
Email: info@synapsebiomedical.com

Cough Assist - Respironics

Website: <http://coughassist.respironics.com/>
Address: 1010 Murry Ridge Lane, Murrayville, PA 15668
Phone: 800 345 6443

Hand Grasp and Rehabilitation for the Upper Extremities

NESS H200 Hand Rehabilitation System - Bioness, Inc.

Website: <http://www.bionessinc.com/>
Address: 25103 Rye Canyon Loop, Valencia, CA 91355
Toll Free: 800-211-9136, option 2
Phone: 661-362-4850
Fax: 877-362-4855
Email: email@bioness.com

Armeo® - Hocoma, Inc. USA

Website: <http://www.hocoma.com/en/>
Address: 100 Reservoir Park Drive, PO Box 553, Rockland, MA 02370
Toll Free: 877-94-2200
Fax: 781-240-5353
Email: info@hocoma.com

Biomove™ - Curatronic, Ltd

Website: <http://www.biomove.com/>
Address: Israel
Phone: +972-8976-1441
Fax: +972-8976-2020
E-mail: contact@curatronic.com

STIMuGRIP® - FineTech Medical Ltd

Website: <http://www.finetech-medical.co.uk/product-hand.htm>
Address: 13 Tewin Court, Welwyn Garden City, Herts, AL7 1AU UNITED KINGDOM
Phone: +44 (0) 1707 330942
Fax: +44 (0) 1707 334143
Email: info@finetech-medical.co.uk
Note: This device is in clinical trial stage in Europe

InMotion 2.0 Shoulder/Arm, InMotion 5.0 Hand, InMotion 3.0 Wrist – Interactive Motion Technologies

Website: <http://interactive-motion.com/>
Address: 80 Coolidge Hill Road, Watertown, MA 02472
Phone: (617) 926-4800
Fax: : (617) 926-4808
E-mail: info@interactive-motion.com

NeuroMove NM900 - Zynex Medical

Website: <http://www.zynexmed.com>
Address: 8022 Southpark Circle, Littleton, CO 80120
Phone: 800-495-6670
Fax: 800-495-6695
Email: info@zynexmed.com

Hand Grasp and Rehabilitation for the Upper Extremities, Cont.

FreeHand System - NOTICE TO FREEHAND USERS

The Freehand System is an implanted device that can be used to provide hand function to individuals with C5/C6 spinal cord injury. The device uses electrical stimulation to power the paralyzed muscles. Grasp function is controlled using movement of the opposite shoulder or by striking switches. The Freehand System was sold by NeuroControl Corp. until 2001, and was implanted in over 200 people. NeuroControl Corp. is no longer in business, although the implanted Freehand System remains functionally beneficial for many users. The Cleveland FES Center, which was the original inventor of the Freehand System, has obtained funding from the Paralyzed Veterans of America to perform follow-up evaluations and provide technical support for Freehand users as part of a clinical study. Therefore, any existing Freehand users are encouraged to contact Dr. Kevin Kilgore at the Cleveland FES Center if they are interested in participating in this study and receiving technical support for their Freehand System. *This study is only for individuals who already have an implanted Freehand System.* The Cleveland FES Center is not affiliated with NeuroControl Corp. in any way. For follow-up study information, contact:

Dr. Kevin L. Kilgore

Email: KLK4@case.edu

Website: <http://groups.google.com/group/freehand-users-group>

Pain and Spasticity Management

Renew[®], Genesis[®], Eon[™] - St. Jude Medical Neuromodulation Division

Website: <http://www.poweroveryourpain.com/>
Address: 6901 Preston Road, Plano, TX 75024
Toll Free: 1-866-990-PAIN (7246)
Phone: 972-309-8000
Fax: 800-727-7846
Email: meredith.nguyen@ans-medical.com

Precision Plus[™] system - Boston Scientific Neuromodulation

Website: <http://www.controlyourpain.com/>
Address: 25129 Rye Canyon Loop, Valencia, CA 91355 USA
Toll Free: 866-360-4747

Neurostimulators: RestoreULTRA[™], RestoreADVANCED[™], PrimeADVANCED[™]

Intrathecal Drug Delivery: PTM, SynchroMed[®]II, Intrathecal Baclofen Therapy - Medtronic, Inc.

Website: <http://www.medtronic.com>
Address: 710 Medtronic Parkway, Minneapolis, MN 55432-5604
Phone: 763-514-4000

NeuroStimulator PENS therapy[®] - Algotec Ltd.

Website: <http://www.algotec-ltd.com/>
Address: Alexadra House, The Sweepstakes, Ballsbridge, Dublin 4, IRELAND
Phone: +353 (0) 1664 1766
Fax: +353 (0) 1664 1809
Email: info@algotec-ltd.com

Pain and Spasticity Management, Continued

Anodyne® Therapy - Anodyne Therapy, LLC

Website: <http://www.anodynetherapy.com/>
Address: 14105 McCormick Drive, Tampa, FL 33626
Toll Free: 800-521-6664
Phone: 813-342-4432
Fax: 813-342-4417

Care TENS™, Care STIM™, Care IFC™, Care EMG™ - Care Rehab and Orthopaedic Products, Inc.

Website: <http://www.carerehab.com/>
Address: PO Box 580, McLean, VA 22101
Phone: (703) 448-9644
Email: accountstatus@CareRehab.com

BiowavePRO®, Homewave® - Biowave Corporation.

Website: <http://www.biowave.com/>
Address: 16 Knight Street, Norwalk, CT 06851
Phone: 1-877-246-9283
Email: info@biowave.com

Epix VT, Hybresis, IF 3WAVE, Infinity Plus, ProMax, Select TENS device, Vectra Genisys Laser - Empi, Inc.

Website: <http://www.empi.com/>
Address: 599 Cardigan Road, St. Paul, MN 55126-4099
Phone: 1-800-328-2536
Fax: 800 450 3593
Email: support@empi.com

D705 and D706 SOLARIS UNIT - Dynatronics Corp

Website: <http://www.dynatronics.com>
Address: 7030 Park Center Drive, Salt Lake City, UT 84121
Toll Free: 800-874-6251
Email: info@dynatron.com

Alpha Stim® 100, Alpha Stim® SCS, Alpha Stim® PPM - Electromedical Products International

Website: <http://www.alpha-stim.com>
Address: 2201 Garrett Morris Parkway, Mineral Wells, TX 76067-9034
Toll Free: 800-367-7246
Phone: 940-328-0788
Fax: 940-328-0888
Email: alpha-stim@epii.com

MSP-TENS, Microcurrent®, EMS, Interferential®, STIM Garments - Medical Science Products, Inc.

Website: <http://www.medsciencepro.com>
Address: 517 Elm Ridge Ave., Canal Fulton, Ohio 44614
Toll Free: 800-456-1971
Phone: 330-854-4060
Fax: 330-854-1953
Email: info@medsciencepro.com

Pain and Spasticity Management, Continued

RS-4i Sequential Stimulation, RS-2m, RS-TENS Plus - RS Medical

Website: <http://www.rsmedical.com>
14001 SE First Street, Vancouver, WA 98684
Toll Free: 800-683-0353
Fax: 800-929-1930

Urinary Function

FineTech Brindley (also known as Vocare) - FineTech Medical, Inc.

Website: <http://www.finetech-medical.co.uk/>
Address: 13 Tewin Court, Welwyn Garden City, Herts, AL7 1AU UNITED KINGDOM
Phone: +44 (0) 1707 330942
Fax: +44 (0) 1707 334143
Email: info@finetech-medical.co.uk

InnoSense Minnova® - Empi, Inc.

Website: http://www.empi.com/patient_information/detail.aspx?id=218
Address: 599 Cardigan Road, St. Paul, MN 55126-4099
Toll Free: 800-328-2536
Fax: 800 450 3593
Email: support@empi.com

evadri Bladder Control System - Hollister Inc.

Website: <http://www.rediscoverbladdercontrol.com/>
Address: 2303 Camino Ramon, Ste 175, San Ramon, CA 94583
Phone: 800-548-3482
Fax: 925-830-5050
Email: customerservice@uromedtech.com

InterStim Therapy - Medtronic, Inc

Website: <http://www.interstim.com>
Address: 710 Medtronic Parkway, Minneapolis, MN 55432-5604
Toll Free: 800-328-2518
Phone: 763-514-4000

ExMI™ Pelvic Floor Rehabilitation Therapy - Kitalpha Med Ltd

Website: <http://www.neocontrol.de>
Address: Xaver-Weismore-Strasse 22a, D-81829 Munchen/Germany
Phone: +49 (0)89-330-36974
Fax: +49 (0)89-346-894
Email: info@kitalpha-med-de

Urinary Function, Continued

Urgent® PC - Uroplasty, Inc.

Website: <http://www.uroplasty.com/>
Address: 5420 Feltl Road, Minnetonka, MN 55343
Toll Free: 866-258-2182
Phone: 952-426-6140
Fax: 952-426-6199
Email: info.usa@uroplasty.com

Conti4000 - Zynex Medical

Website: <http://www.zynexmed.com/>
Address: 9990 Park Meadows Dr, Lone Tree, CO 80124
Phone: 800-495-6670
Fax: 800-495-6695
Email: info@zynexmed.com

Sexual Function

Seager Model 14 Electro Power Unit - Dalzell USA Medical Systems

Website: <http://www.dalzellusamedicalsystems.com/>
Address: PO Box 162, Marshall, VA 20116-0162
Phone: 540-253-7715
Fax: 540-253-7734
Email: swjs7715@aol.com

FineTech Brindley Bladder Control System - FineTech Medical, Inc.

Website: <http://www.finetech-medical.co.uk/>
Address: 13 Tewin Court, Welwyn Garden City, Herts, AL7 1AU UNITED KINGDOM
Phone: +44 (0) 1707 330942
Fax: +44 (0) 1707 334143
Email: info@finetech-medical.co.uk

Pressure Sore Prevention and Wound Therapy

Implanted gluteal stimulation system for pressure ulcer prevention - Cleveland FES Center, Case Western Reserve University

Website: <http://fescenter.org>

Phone: 216-778-3800 x4131

Clinical Coordinator: Jacinta Seaton, RN

Email: jacinta.seaton@va.gov

Note: This is a clinical trial

POSIFECT® - Biofisica

Website: <http://www.biofisica.com>

Address: 6455 East Johns Crossing, Suite 285, Duluth, GA 30097

Phone: 404-920-0715

Fax: 404-920-0710

Email: info@biofisica.com

Procellera™ - Vomaris

Website: <http://www.procellera.com/>

Address: 3100 W. Ray Rd, Suite 148, Chandler, AZ 85266

Toll Free: 866 4 Your Health

Phone: 480-921-4948

Email: info@vomaris.com

Assisted Standing and Ambulation Systems

ReWalk™ - Argo Medical Technologies Ltd

Website: <http://www.argomedtec.com/>

Address: Kochav Yokneam Building, Flr 6, PO Box 161, Yokneam Ilit 20692, ISRAEL

Phone: 972-4-9590123

Fax: 972-4-9590125

NESS L300™ - Bioness, Inc

Website: <http://www.bionessinc.com/>

Address: 25103 Rye Canyon Loop, Valencia, CA 91355

Toll Free: 800-211-9136, option 2

Phone: 661-362-4850

Fax: 877-362-4855

Email: email@bioness.com

STIMuSTEP® - FineTech Medical Ltd

Website: <http://www.finetech-medical.co.uk/>

Address: 13 Tewin Court, Welwyn Garden City, Herts, AL7 1AU UNITED KINGDOM

Phone: +44 (0) 1707 330942 ext 14

Fax: +44 (0) 1707 334143

Email: info@finetech-medical.co.uk

WalkAide® - Innovative Neurotronics

Website: <http://www.walkaide.com/>

Address: 3600 North Capitol of Texas Highway, Suite B150, Austin, TX 78746

Toll Free: 888-884-6462

Phone: 512-721-1900

Fax: 512-961-3499

Email: info@ininc.us

ActiGait® - Neurodan A/S

Website: <http://www.neurodan.com/actigait.asp>

Address: Sofiendalsvej 85, DK-9200 Aalborg SV, Denmark

Phone: +45 7027 2297

Fax: +45 7027 2217

Email: neurodan@neurodan.com

ODFS® PACE - Odstock Medical Ltd.

Website: <http://www.odstockmedical.com/PatientsSite/Home.html>

Address: Salisbury NHS Foundation Trust, Salisbury, Wiltshire, SP2 8BJ, UNITED KINGDOM

Phone: +44 (0) 1722 439548 or +44 (0) 1722 439546

Fax: +44 (0) 1722 417611

Email: info@odstockmedical.com

Parastep I® - Sigmedics, Inc

Website: <http://www.sigmedics.com/>

Address: 335 North Broad Street, Fairborn, OH 45324

Phone: 937-439-9131

Fax: 937-439-9272

Email: fzeiss@ameritech.net

Assisted Standing and Ambulation Systems, Continued

NeuroStep® - Neurostream Technologies

Website: <http://www.neurostream-technologies.com/>
Address: 2 Carlson Parkway, Suite 155, Minneapolis, MN 55447
Phone: 763-519-6100
Note: This device is in clinical trials stage

REX - REX Bionics

Website: <http://www.rexbionics.co.nz/>
Address: 6 Douglas Alexander Parade, Rosedale, North Shore City 0632, NEW ZEALAND

Robot Suit HAL® - Cyberdyne Inc.

Website: <http://www.cyberdyne.jp>
Address: D25-1, Gakuen Minami, Tsukuba-shi, Ibaraki, 305-0818, Japan
Phone: +81-29-855-3189
Email: contact@cyberdyne.jp

eLegs - Berkeley Bionics

Website: <http://berkeleybionics.com/>
Address: 2546 10th Street, Berkeley, CA 94710
Phone: 510-984-1761
Fax: 510-277-1406

Electrical Stimulation for Standing and Walking Studies - Cleveland FES Center/ Case Western Reserve University

Note: The following are clinical trial studies

Standing and Transfers Neuroprosthesis

Website: <http://fescenter.org/index.php>
Clinical Coordinator: Lori Rohde, PT, MS, DPT
Contact: Lori Rohde, PT, MS, DPT – 216-778-3604 or Barb Seitz, RN – 216-791-3800 X 4673

Walking

Website: <http://fescenter.org/index.php>
Clinical Coordinator: Lisa Rohde, PT, MS, DPT
Contact: Lisa Lombardo, MPT – (216)791-3800 X 4909

Exercise and Rehabilitation Systems

SpinoFLEX - Advanced Fitness Components

Website: <http://www.spinoflex.com/>
Address: 1 Wall Street , Hudson, NH 03051
Phone: 866-595-5729
Fax: 603-595-7240
Email: info@spinoflex.com

Wearable Therapy - Axiobionics

Website: <http://wearabletherapy.com/>
Address: Center for Neuro Prosthetics, 6111 Jackson Rd, Ste 200, Ann Arbor, MI 48103
Toll Free: 800-552-3539
Phone: 734-327-2946
Fax: 734-327-3715
Email: info@axiobionics.com

CyberGlove - CyberGlove Systems LLC

Website: <http://www.cyberglovesystems.com/>
Address: 2355 Paragon Drive, Suite D, San Jose, CA 95131
Phone: 408-451-9463
Fax: 408-689-4362

Care STIM™, Care IFC™, Care EMG™ - Care Rehab and Orthopaedic Products, Inc.

Website: <http://www.carerehab.com/>
Address: PO Box 580, McLean, VA 22101
Phone: (703) 448-9644
Email: accountstatus@CareRehab.com

Biomove™ - Curatronic, Ltd

Website: <http://www.biomove.com/>
Address: Israel
Phone: +972-8976-1441
Fax: +972-8976-2020
E-mail: contact@curatronic.com

Lokomat®, Andago®, Armeo®, Erigo® - Hocoma, Inc. USA

Website: <http://www.hocoma.com/en/>
Address: 100 Reservoir Park Drive, PO Box 553, Rockland, MA 02370
Toll Free: 877-94-2200
Fax: 781-240-5353
Email: info@hocoma.com

InMotion 2.0 Shoulder/Arm, InMotion 5.0 Hand, InMotion 3.0 Wrist – Interactive Motion Technologies

Website: <http://interactive-motion.com/>
Address: 80 Coolidge Hill Road, Watertown, MA 02472
Phone: (617) 926-4800
Fax: : (617) 926-4808
E-mail: info@interactive-motion.com

Exercise and Rehabilitation Systems, Continued

NeoTone™ - Kitalpha Med Ltd

Website: <http://www.neocontrol.de>
Address: Xaver-Weismore-Strasse 22a, D-81829 Munchen/Germany
Phone: +49 (0)89-330-36974
Fax: +49 (0)89-346-894
Email: info@kitalpha-med-de

STIWELL med4 - Otto Bock Healthcare

Website: <http://www.ottobock.com/>
Phone: +49 (0) 5527 848 1706
Fax: +49 (0) 5527 848 81706
Email: export@ottobock.de

Quadriciser - Quadriciser Corp.

Website: <http://www.quadriciser.com/>
Address: 6624 Central Avenue Pike, Knoxville, TN 37912
Phone: 800-688-5003
Fax: 865-689-8956
Email: quadriciser@quadriciser.com

RehaMove, MOTomed viva1, MOTomed viva2, MOTomed gracile12, MOTomed letto, MOTomed pico - RECK-Technik GmbH & Co. KG

Website: http://www.motomed.de/medizin_01_gb/index.html
Address: Reckstrasse 1-4, 88422 Betzenweiler, GERMANY
Phone: +49 73 74-18 85
Fax: +49 73 74-18 480
Email: contact@motomed.com
US Distributor: RI, LLC
Toll Free: 866-738-6552

RT100, RT300, RT50 - Restorative Therapies, Inc.

Website: <http://www.restorative-therapies.com/>
Address: 907 South Lakewood Ave, Baltimore, MD 21224
Phone: 800-609-9166
Outside US: 443 957-1572
Fax: 410-878-2466
Email: support@restorative-therapies.com

StepGain GRF™ body weight support step training system(s) - Robomedica, Inc.

Website: <http://www.robomedica.com/>
Address: 23362 Madero Road, Suite M, Mission Viejo, CA 92691
Toll Free: 877-ROBOMED
Phone: 949-462-3060
Fax: 949-462-3260
Email: info@robomedica.com

Exercise and Rehabilitation Systems, Continued

RS-2m™ - RS Medical

Website: <http://www.rsmedical.com>
Address: 14001 SE First Street, Vancouver, WA 98684
Phone: 800-683-0353
Fax: 800-929-6476

REGYS, ERGYS, NeuroEDUCATOR, SpectraSTIM - Therapeutic Alliances, Inc.

Website: <http://www.musclepower.com/>
Address: 333 North Broad Street, Fairborn, OH 45324
Phone: 937-879-0734
Fax: 937-879-5211
Email: info@ERGYS.com

NeuroMove - Zynex Medical

Website: <http://www.zynexmed.com>
8022 Southpark Circle, Littleton, CO 80120
Phone: 800-495-6670
Fax: 800-495-6695
Email: info@zynexmed.com

Alternative Treatments and Diagnostics for Depression

VNS Therapy® - Cyberonics, Inc..

Website: <http://www.cyberonics.com>
Address: 100 Cyberonics Blvd, Houston, TX 77058
Toll Free: 888-867-7846

NeuroStar TMS Therapy® System - Neuronetics

Website: <http://www.neuronetics.com>
Address: 31 General Warren Blvd, Malvern, PA 19355-1245
Toll Free: 877-600-7555
Fax: 610-640-4206
Email: info@neuronetics.com

rEEG® System - CNS Response

Website: <http://www.cnsresponse.com/>
Address: 26895 Aliso Creek Rd, #B-450, Aliso Viejo, CA 92656
Phone: 949-420-4400
Fax: 866-294-2611

Other Applications Appropriate for Spinal Cord Injury

Impulse™ - AbleNet, Inc.

Website: <http://www.ablenetinc.com/AssistiveTechnology/>
Address: 2808 Fairview Ave N, Roseville, MN 55113-1308
Toll Free: 800-322-0956
Phone: 651-294-2200
Description: EMG sensing communication device.

VitalStim® Therapy - Chattanooga Group

Website: <http://www.vitalstim.com>
Phone: 800-506-1130
Phone: 423-870-7200
Description: Electrical stimulation of muscles for swallowing/dysphasia.

NeuroSwitch - Control Bionics

Website: <http://www.controlbionics.com/>
Address: 333 North Broad Street, Fairborn, OH 45324
Phone: 937-879-0734
Email: productinformation@controlbionics.com
Description: A neural system-controlled interface which drives assistive technology devices

Summary and Disclaimer

This Fact Sheet is an overview and explanation of the applications of neurotechnology for several different conditions related to spinal cord injury. Devices are commercially available that are used for pain management, spasticity control, breathing assistance, ambulation, exercise/rehabilitation and bladder function. There are also many new technologies being investigated in research centers. These are tools that can be used to combat secondary conditions, foster or encourage further independence or potentially improve quality of life. These technologies are not a one-size-fits-all and not everyone is appropriate for a particular technology.

Prior to considering any new therapy, treatment or device, a proper evaluation must be conducted with a knowledgeable medical professional. There are health, medical and financial risks. Out of pocket costs and available insurance coverage for any treatment must be considered prior to starting a protocol. It is important to note that treatments and technologies offered outside of the United States are not required to meet the stringent standards of the U.S. Food and Drug Administration (FDA). Finally, this is an evolving field of science and technology development. The frequent changes that are occurring in this new field will be referenced and kept current in the resources listed in Part 2.

Neurotech Network, The National Spinal Cord Injury Association and its representatives do not rate, endorse, recommend or prescribe any products, procedures or services. This fact sheet is for informational purposes only.

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This Factsheet, written by Jennifer French, Neurotech Network, in collaboration with Charleene R. Frazier, RN, MS, Spinal Cord Central Information Specialist, is offered by NSCIA as a resource. It is for informational purposes only. Further, it is not intended to cover all programs, treatments, or research in the field nor is it an endorsement of any aspect of its content. Any information that you may have to further update this Factsheet would be greatly appreciated. The National Spinal Cord Injury Association Resource Center (NSCIRC) provides information and referral on any subject related to spinal cord injury. Contact the NSCIRC at help@spinalcordcentral.org or toll free at 1-800-962-9629 (ET).

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