Advancements in Managing Chronic Pain for People with SCI/D

Zapping the Pain Away

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Zapping the Pain Away: Technology and Pain Management
www.NeurotechNetwork.org
Want to Ask a Question?

Type question here.

Send
Objectives

- Understanding the Pain
- Options for pain management
- Technology integration
- Resource to learn more
The information presented in this webinar is not meant to replace the advice from a medical professional. You should consult a health care professional familiar with your specific case, concerns and condition.

Neurotech Network and its representatives do not endorse, rate, sell, distribute, prescribe, administer or recommend any products, procedures or services. We highly suggest for you to take information to a trained medical professional familiar with your case to discuss options that are best for you.
Helping people regain life thru neurotechnology

Focus on education of and advocacy to access neurotechnology devices, therapies and treatments for people living with impairments, their care-givers and medical professionals.

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What is Neurotechnology?

The application of medical electronics and engineering to restore or improve the function of the human nervous system.
Types of Systems

- Hybrid
- External
- Implanted
Types of Chronic Pain

Nociceptive
- Somatic
- Visceral

Inflammatory
- Appendicitis
- Rheumatoid Arthritis
- Shingles
- Inflammatory Bowel Disease

Neuropathic
- Diabetic Neuropathy
- SCI Pain
- Phantom Limb
- Post-Stroke Central Pain

Source: University of Wisconsin School of Medicine
Options for Pain Management

- Nerve block
- Oral medications
- Injections
- Acupuncture
- TENS/MET/PENS
- TDCS, TMS
- IDUS
- SCS

Source: ARSA & INS

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Technology Integration

- TENS/MET/PENS
- IDDS
- SCS
- Nerve Block
- tDCS or TMS
TENS/MET
Transcutaneous Electrical Nerve Stimulation
Microcurrent Electrotherapy

Care Rehab
www.carerehab.com

Dynatronics
www.dynatronics.com

Empi
www.empi.com

Electromedical Products Int’l
www.alpha-stim.com

Medical Science Products
www.medsciencepro.com

Neurotech Group
www.NeurotechGroup.com

NEUROMetrix
www.neurometrix.com

RS Medical
www.rsmedical.com
Surface Electrodes

Source: Axelgaard & Medical Science Products
PENS
Percutaneous Neuromodulation Systems

Algotec
www.algotec-ltd.com

Biowave
www.biowave.com

SPR Therapeutics
www.sprtherapeutics.com
IDDS
Implanted Drug Delivery Systems

DePuy Synthes, Implantable Codman Pump
www.depuy.com

Medtronic ITB Therapy℠ Synchronmed
www.medtronic.com
SCS
Spinal Cord Stimulation

Boston Scientific: Precision Spectra
www.controlyourpain.com

St. Jude Medical: Eon
www.poweroveryourpain.com

Medtronic: Restore Sensor
www.tamethepain.com
Alternatives

FDA Clearance

Anodyne® Therapy
www.anodynetherapy.com

Fisher Wallace Stimulator™
www.fisherwallace.com
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Alternatives
Investigational Devices

Neuros Altius System
www.neurosmedical.com

Soterix Medical 1 × 1 tDCS Platforms
www.soterixmedical.com

NeuroStar TMS Therapy® System
www.neuronetics.com
Considerations for Participating in any Pain Management Technology

• Chronic Pain is a unique condition. Not all types of pain are alike. Not all programs are appropriate for all populations

• Recommended Next Steps
  • Review resources provided here
  • If considering, use these resources to find a trained professional near you.
  • Make an appointment for an evaluation to see if you are a candidate

• Commitments of self, family/caregiver
  • Time
  • Out of pocket cost and/or reimbursement

• Medical Professional Monitoring
  • Peripheral nerve damage or skin damage
  • Device Maintenance
Additional Resources

- American Academy of Pain Management
- American Chronic Pain Association
- American Pain Foundation
- National Chronic Pain Outreach Association
- The Mayday Pain Project
- NIH Neurological Disorders and Stroke—Chronic Pain - NINDS Chronic Pain Information Pages
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