Course Title: Therapeutic Modalities 212 - Electrical Currents for Soft Tissue Healing and Pain Control

Source: Physical Agents in Rehabilitation from Research to Practice, 5 th edition, by Michelle Cameron.

Source Description: With straightforward, in-depth coverage of the use of physical agents to improve patient outcomes, Physical Agents in Rehabilitation: An Evidence-Based Approach to Practice, 5th Edition reflects how physical agents and modalities are being discussed in the classroom. This new edition brings the ideal balance of evidence and practical instruction to the learning and practice of physical agents in rehabilitation. Comprehensive coverage of all physical agents includes the mechanisms, clinical effects, and application techniques for thermal agents, ultrasound, electrical currents, electromagnetic radiation, hydrotherapy, traction, and compression. Plus, each chapter includes a scientific rationale and step-by-step instructions in the use of the agent(s), as well as up-to-date research support and new Find the Evidence tables.

Target Audience: OT / OTA and other healthcare professionals

Course Type: Video vs**.** Text-based

Educational Level: Beginner, Intermediate, Advanced

CE Hours: 3contact hour / .3 ceu

Course Prerequisites: None

Course Author / Instructor: Cameron, PhD, PT / Brown, MS, OTR/L, CHT

Learning Objectives:

Electrical Currents for Pain Control

- Describe the use of conventional TENS, Low-rate and Burst-Mode TENS for the use of pain control
- List and describe 3 contraindications for the use of electrical currents for pain control
- Examine parameters such as waveform, electrode placement, amplitude, treatment time and frequency in the use of electrical currents for the use of pain control
- Read case studies and highlight clinical application

Electrical Currents for Tissue Healing

- Explain how electrical stimulation facilitates wound healing
- Describe 3 parameters for electrical stimulation to promote wound healing
- Explore and list 2 parameters for the use of iontophoresis
- Describe the use of electrical currents for edema control

- List 3 precautions and 3 contraindications for the use of electrical currents in tissue healing

Agenda:

Hour #1
Mechanisms Underlying Electrical Current
Use for Pain Control
Gate Control
Opioid Release
Selecting Transcutaneous Electrical Nerve Stimulation
Approaches
Clinical Applications of Electrical Currents for Pain Control
Acute Pain
Chronic Pain
Contraindications and Precautions for Electrical Currents for Pain Control
Contraindications for Electrical Currents for Pain Control
Precautions for Electrical Currents for Pain Control
Adverse Effects of Transcutaneous Electrical Nerve Stimulation
Application Techniques
Documentation
Examples
Clinical Case Studies

Hour #2
Mechanisms Underlying Electrical Currents for Tissue Healing
Galvanotaxis Cell Activation
Antimicrobial Effects
Enhanced Circulation
Clinical Applications of Electrical Stimulation for Soft Tissue Healing
Chronic Wounds: Pressure Ulcers, Diabetic Ulcers, Venous Ulcers
Edema Control

Hour #3
Transdermal Drug Delivery: Iontophoresis
Contraindications and Precautions for Electrical Currents for Tissue Healing
Contraindications for Electrical Currents for Tissue Healing
Precautions for Electrical Currents for Tissue Healing
Adverse Effects of Electrical Currents for Tissue Healing
Application Techniques
Documentation
Examples
Clinical Case Studies

Course Completion Requirements:

A passing score of 100% is required for course completion. You will have as many attempts as needed until your passing score of 100% is achieved. Upon successful completion of course and completing a satisfaction survey, you will receive your certificate of completion.

Additional Course Information

Course Registration: Register for Free at www.OnlineCE.com. Once registered, you can begin to purchase courses. Contact info@onlinece.com for special needs requests and assistance.

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