



Online Continuing Education Courses
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AOTA Approved Provider #4023

Course Title: Spinal Cord Injuries 104

Sub-Title: Spinal Cord Injuries: Functional Electrical Stimulation

Course Description: Spinal Cord Injuries 104, Spinal Cord Injuries: Functional Electrical Stimulation (FES), is a 3-hour course designed for the intermediate clinician interested in using FES to augment function in their patients with spinal cord injuries (SCI). FES technology has advanced over the past 2 decades and now there are several FDA approved devices that can be used within a variety of areas of SCI rehabilitation. FES has several uses and benefits including improving muscle strength, increasing endurance, increasing muscles size, improving cardiovascular functioning, enhancing upper extremity function, augmenting bladder function, modulating spasticity and improving standing for functional transfers. The clinician must be knowledgeable in the use of FES including the use of appropriate parameters, indications, contraindications, physiology, patient selection, general considerations and limitations of the use of FES. Case studies are used to highlight clinical and functional application. At the end of this course, the learner will have a more comprehensive understanding of FES and how it can be used with patients with SCI.

Target Audience: OT/OTA

Course Length: 3 hours

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Stump, OTR/L / Brown, MS, OTR/L, CHT

Educational Level: Introductory, Intermediate, Advanced

The course is written at the intermediate level, but learners of all levels will benefit from the information.

Course Objectives:

At the conclusion of the course, participants will be able to:

- Discuss the history of FES
- Become familiar with various uses of FES with SCI rehabilitation
- Differentiate the parameters for the use of FES with SCI rehabilitation
- List 5 contraindications for FES
- Examine the physiology of FES
- Identify and define key terminology associated with FES

- Discuss the effects of FES
- Describe how FES can be used with cardiovascular reconditioning
- Discuss the role of FES with standing and gait
- Identify the significance of FES in the restoration of upper limb function

Outline of Content:

Hour #1

Introduction

History

Uses of Functional Electrical Stimulation in Spinal Cord Injury

Contraindications and Precautions

Physiology of Functional Electrical Stimulation

Hour #2

Functional Electrical Stimulation Systems

Effects of Functional Electrical Stimulation

Cardiovascular Reconditioning

Restoration of Upper Limb Function

Hour #3

Standing and Gait

Other Uses of Functional Electrical Stimulation

Case Study #1

Case Study #2

Summary

Instructional Methods and Formats:

Online course available 24/7 at www.OnlineCE.com includes PDF downloadable course. See course formats for additional details.

Course Completion Requirements:

A minimum 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, you will receive your certificate of completion and AOTA eligible CEUs.

AOTA Classification Codes:

Category 1: Domain of OT

Category 2: Occupational Therapy Process

Category 3: Professional Issues

Additional Policies:

OnlineCE Policies are available by clicking on the tab – Policies – located in the left hand navigation bar.

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