



Course Title: Therapeutic Modalities 112

Course Subtitle: Cold Therapy

Course Description:

Therapeutic Modalities 112, Cold Therapy, is a 2-hour course designed for the clinician using cold or cryotherapy as a modality for treatment or therapeutic purposes. This course reviews the effects of cooling the surface of the skin along with an overview of various therapeutic uses of cold. Methods of application including immersion, cold packs, ice towels, ice massage and evaporation sprays as well as indications for use, contraindications and precaution. A detailed course outline is presented below. At the end of this lesson, the learner will have a greater understanding of how to apply cooling agents and safely integrate the use of cold into practice.

Upon the completion of the course and successfully answering 10 interactive multiple-choice questions, the learner will complete a satisfaction survey and receive a completion certificate for .2 AOTA eligible CEU's.

Course Length: 2 hrs

Course Authors: Val Roberston, PhD, Alex Ward, PhD, John Low, BA, DipTP and

Ann Reed, BA, DipTP

Course Instructor: Joanne Brown, MS, OTR/L, CHT

Course Objectives:

Upon course completion, the learner will be able to

- Describe physiological changes that occur as a result of cooling
- List and describe 5 therapeutic effects of cooling
- Outline methods and techniques of applying cold therapy
- Differentiate between the selection process of heat vs. cold
- List 5 contraindications and precautions for the user of cold therapy

Outline of Content:

Hour 1:

Effects of Cooling the Skin

Physiolgical Changes

The local effects

On cutaneous blood vessels

On deeper tissue blood flow

On tissue metabolism

On the peripheral nervous system

On the motor system

General effects of cooling

Therapeutic Uses of Cooling

Recent injuries

Pain

Postoperative uses

Muscle spasm

Spasticity

Muscle strengthening

Chronic inflammatory conditions

Chronic edema and joint effusions

Hour 2:

Methods of Applying Cold Therapy

Technique of application of cold therapy

Stages

Cold packs

Ice packs

Commercial cold packs

Cryotherapy flow units

Local immersion

Ice towels

Ice massage

Evaporating

Ice wrap

Choosing between heat and cold

Dangers and contraindications

Excessive local cold on normal tissue

Certain pathological conditions

Reduced peripheral vascular supply

Cold insensitivity

Cardiac disease

Arterial blood pressure

Sensory deficiency

Emotional and psychological features