Pharmacology Fundamentals for Therapists

Mark Nash PhD, FACSM



Faculty

Mark S. Nash, PhD, FACSM is a dynamic instructor who is highly regarded for his ability to take complex information and make it meaningful and clinically relevant. His pharmacology courses are acclaimed for ease of understanding and relevance to therapy practice. He is a tenured Professor of Neurological Surgery and Rehabilitation Medicine at the Miller School of Medicine, University of Miami, Principal Investigator for The Miami Project to Cure Paralysis, and Director of Research in Rehabilitation Medicine. He holds graduate degrees in Human Biology, Applied Physiology, and Clinical Anatomy, and was a Doctoral Fellow focusing on rehabilitation of ischemic heart disease. Dr. Nash has taught doctoral coursework in Pharmacology in two distinguished Physical Therapy Programs and has presented more than 100 continuing education programs nationwide. He has published more than 100 manuscripts, scholarly monographs, and book chapters on topics in rehabilitation physiology.

Disclosure: Financial: Dr. Nash receives a speaking fee from Education Resources for this course. Non Financial: He has no non financial relationships to disclose

About this Course

Patients undergoing therapy routinely take both prescription drugs and OTC medicines that ultimately influence treatment outcomes. Therapists with knowledge of these medicines practice safer, more effective therapy. The course will examine Rx and non-Rx medicine used in the therapy setting and will cover side effects that influence treatment and outcomes. Information will focus on drug actions and patient errors when treating pain, as well as common disorders of the musculoskeletal, neurologic, cardiorespiratory, and endocrine systems. Common OTC drugs and herbals are examined for occult hazards and drug interactions. Electronic resources for free drug-related information will be demonstrated.

Objectives

Upon completion of this course, the participant will:

- Describe basic factors that control drug uptake, bioavailability, and metabolism.
- List benefits, limitations, and adverse effects of drug families used to treat inflammation and pain.
- Oclassify drug families and drugs used to treat disorders and diseases of the musculoskeletal, neurological, cardiorespiratory, and endocrine systems.
- Describe how drug choices and administration influence therapy outcomes, including common errors in drug administration committed by patients.
- Define potential harms and drug interactions for over the counter medications and herbals

Audience

This course will target clinicians working with adults across the lifespan with pain, and conditions of the musculoskeletal, neurologic, cardiorespiratory and endocrine systems that require medication use.



Schedule - Day 1

7:30-8:00 Registration/Continental Breakfast

8:00-8:45 Key Principles of Pharmacology: Drug

Classification, Uptake, Distribution, and

Interactions

8:45-10:00 Drug Treatment of Pain and Inflammation

General Principles of Pain and Inflammation Management: Benefits and problems in

Nociceptive Pain vs. Neuropathic Pain

10:00-10:15 Break

10:15-11:15 Drug Treatment of Musculoskeletal

Disorders

Osteoarthritis: Rx. OTC. and

Neutraceuticals

Rheumatoid Arthritis and Immune

Hypersensitivity

Hypertonia and Spasm

11:15-11:45 Drug Treatment of Respiratory Disorders

Asthmatic Bronchitis and COPD

Sinusitis and Rhinitis

11:45-12:00 Drug Treatment of Cardiovascular Disorders

Hypertension

12:00-1:00 Lunch (on your own)

1:00-1:45 Drug Treatment of Cardiovascular Disorders

(cont.),

Heart Failure

Atherosclerotic Disorders.

Clotting and Circulatory Deficiency

Schedule – Day 1 (cont.)

1:45-3:00 Drug Treatment of Nervous System

Disorders,

Depression Anxiety

Parkinsonism Alzheimer's Dementia

Stroke

3:00-3:15 Break

3:15-4:00 Drug Treatment of Endocrine Disorders

Obesity

Diabetes (Type I and Type II)
Osteoporosis (Male and Female)

4:00-4:15 Non-RX Medications and Herbals

4:15-4:30 Free Internet and Smartphone Resources

"This is one of the most informative and interesting courses I have been to in years. Dr. Nash was fantastic, I would recommend this course to any discipline in need of a good pharmacology review."

- S. Maciejewski, PT

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Credits

This course meets the criteria for 7 contact hours (0.7 CEUs). Application has been made to the **NJ** Board of PT Examiners. The **PA** and **RI** Boards of Physical Therapy accept other Board's approvals. This course meets accepted standards for continuing education in **CT**, **MA** and **NH**.

Approved provider by the $\mbox{\bf NY}$ State Board of Physical Therapy for 8 hours for

Approved provider of continuing education by the American Occupational Therapy Association #3043, for 7 contact hours - Intermediate Level Occupational Therapy Process: assessment, intervention. The assignment of AOTA CEUs does not imply endorsement of specific course content, products or clinical procedures by AOTA.



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Locations and Dates - 2019

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Pharmacology Fundamentals/Nash Oct/MA

Course Registration Form

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