Pharmacology Fundamentals for Therapists

Mark Nash PhD, FACSM



Faculty

Mark S. Nash, PhD, FACSM FASIA 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, Associate Director for the Center of Excellence in Spinal Cord Research, and Vice-Chair for 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 120 continuing education programs nationwide. He has published more than 180 manuscripts, scholarly monographs, and book chapters on topics in rehabilitation physiology and has been honored for lifetime achievements in rehabilitation by the American Congress of Rehabilitation Medicine.

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.
- Olassify 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 (EST)

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

12:00-12:30 Lunch (on your own)

12:30-1:15 Drug Treatment of Cardiovascular Disorders

(cont.),

Heart Failure

• Atherosclerotic Disorders.

Clotting and Circulatory Deficiency

Schedule - Day 1 (cont.) (EST)

1:15-2:30 Drug Treatment of Nervous System Disorders.

Depression

Anxiety

Parkinsonism

Alzheimer's Dementia

Stroke

2:30-2:45 Break

2:45-4:00 Drug Treatment of Endocrine Disorders

Obesity

Diabetes (Type I and Type II)

• Osteoporosis (Male and Female)

Non-RX Medications and Herbals

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) Intermediate Level.



Approved Provider

Education Resources Inc. is an AOTA Approved Provider of professional development. Provider #3043. This Distance Learning-Interactive course is offered at 7 contact hours 0.7 CEUs. Intermediate level, OT Service Delivery. AOTA does not endorse specific course content, products, or clinical procedures.

This course can be used toward your NBCOT renewal requirements for 7 units. Approved provider of the **FL** Board of Occupational Therapy-CE Broker – 8 hrs. This course meets the approval of the **TX** Board of OT Examiners.



Education Resources, Inc.Intermediate Level
0.7 ASHA CEUs

ASHA CE Provider (Intermediate level) 0.7 ASHA CEUs. ASHA CE Provider approval and use of the Brand Block does not imply endorsement of course content, specific products, or clinical procedures.

ASHA credits are accepted by the TX Department of License and Renewal.

Application has been made to the FL Physical Therapy Association for 8 continuing education contact hours.

Application has been made to the **MD** Board of Physical Therapy Examiners. Application has been made to the **MN** Board of Physical Therapy.

Application has been made to the **NJ** Board of Physical Therapy Examiners. Application has been made to the **OH** Physical Therapy Association

Approved sponsor by the State of **IL** Department of Financial and Professional Regulation for Physical Therapy for 8 contact hours.

Approved provider by the **NY** State Board of Physical Therapy for 8 contact hours (0.8 CEUs). Education Resources, Inc. is an approved provider for Physical Therapy CEUs in the following states: **CA, KY, OK** and **TX**.

The following state boards of physical therapy accept other states' approval: AK, AR, AZ, DC, DE, GA, HI, ID, IN, KS, MA, MI, MO, MS, NC, OR, PA, RI, SC, UT, VA, VT, WI, WY. The following state boards of physical therapy either do not require course pre-approval or do not require CEUs for re-licensure: AL, CO, CT, IA, ME, MT, NE, ND, NH, SD, WA.

7 hours of this course qualify towards the discipline-specific hours for the 20-hour requirement for NDTA re-certification. They do NOT qualify towards the 8-hour NDTA Instructor requirement for re-certification. Education Resources Inc. 266 Main St, Medfield, MA 02052.

Please contact us with any special needs or requests: info@educationresourcesinc.com

Dates - 2023

October 28, 2023 Live Webinar 8:00 am - 4:00 pm

or

October 29, 2023 Live Webinar 8:00 am - 4:00 pm



Pharmacology Fundamentals/Nash

☐ October 28, 2023 or ☐ October 29, 2023

Course Registration Form Name: City: _____State: _____Store: _____ Home Phone: _____ Work Phone: _____ Cell Phone: Needed in the event of an emergency scheduling change Please clearly print your email address for course confirmation Employer:_____ Discipline:______Specialty: _____ How did you learn of this course Education Resources reserves the right to cancel any course due to insufficient registration or extenuating circumstances. Please do not make non-refundable travel arrangements until you have called us and received confirmation that the course will be held. We are not responsible for any expenses incurred by participants if the course must be cancelled. ☐ I have read your refund policy above and understand. Cardholder's name & billing address with zip code if different from above: Signature Amount charged _____ I hereby authorize you to charge my: □ VISA □ MC □ DISCOVER# Exp. Date _____CVV2 Code_____