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Motor Control

Enhancing functional movement
 through central nervous system
 neuroplastic change



Pediatric to Geriatric

Presented by
Selina Morgan, PT, DPT

PT, OT, PTA and AT -
 Continuing Education Course

North American Seminars, Inc.
1-800-300-5512 | Fax 1-800-310-5920
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Certificates of attendance are provided upon successful completion of the course.
This course is 15.0 contact hours/1.5 CEUs/15.0 CCU's
 This course is 18.0 contact hours/1.80 CEU's. for therapists licensed in District of Columbia, New York, or Illinois

NY PT/PTA Provider
 BOC Provider #P2047
 AOTA Provider # 4487

This course is applicable for PT, PTA, OT, OTA, AT. This course meets the continuing education requirements for physical therapists in the States of AK, AL, CO CT, DE, DC, ID, IN, MA, MO, MT, NH, NC, OR, RI, SC, UT, VT, VA, WA, WI and WY. IL PT provider #216000074. This course meets the Colorado Physical Therapy Board of Examiners criteria for 15 hours, 15 Category-1 PDA points. This course meets the standards set forth in section 1399.96 of the California Code of Regulation and is approved for 15.0 hrs, 1.50 CEU's for physical therapy continuing competency license renewal requirements in the State of California. This course meets the ceu requirements specified in the Utah Physical Therapy Practice Act Rule. The New York State Education Department, Office of the Professions has approved NAS as a continuing education sponsor for physical therapists and assistants licensed in New York. **This activity is provided by the Texas Board of Physical Therapy Examiners Accredited Provider # 1907038TX** and meets continuing competence requirements for physical therapist and physical therapists assistant licensure renewal in Texas for 15 ccu's. **North American Seminars, Inc. is an AOTA provider for continuing education, provider #4487.** AOTA approval hours are 15. The AOTA does not endorse specific course content, products or clinical procedures. The AK, AR, DE, DC, IL, IN, KY, LA, MD, MN, MS, MO, MT, OH, OR, OK, PA, RI, SC, TN, TX, VT and VA occupational therapy regulatory boards accept courses presented by AOTA providers to meet the needs of OT continuing educational requirements. Additionally, this course meets the ceu requirements for OT's licensed in AL, AZ, CA, CO, CT, FL, GA, HI, ID, KS, ME, MA, MI, NE, NJ, ND, UT, WA, WV, WI and WY. Meets the NBCOT requirements. **BOC provider # P2047**, 15 hrs, category A, call for evidence-based approval status. Meets the NBCOT requirements. **Call 800-300-5512 for specific state approval numbers as they are continually updated.**

Day One

7:30 8:00	8:00 9:00	Registration Introduction <ul style="list-style-type: none"> • Motor Control Theories • Elements that each theory provides to the patient with neurological dysfunction
9:00	10:00	Examination of Systems (Lecture and Lab) <ul style="list-style-type: none"> • Cranial nerves • Sensory systems • Tone and reflexes • Motor redundancy and variability • Neurophysiological Structures • Central pattern generators and the spinal cord • The brain: cortex, basal ganglia and cerebellar loops • The Neuro Exam
10:00 10:15	10:15 11:30	Break Understanding Neuroplasticity - (Lecture) <ul style="list-style-type: none"> • What does it look like anatomically? <ul style="list-style-type: none"> - Neural maps and how it changes with practice • What does it look like in the clinic? <ul style="list-style-type: none"> - Learning through practice and adaptation training - Movement with speed, accuracy and level of difficulty - Motor behaviors seen in posture, locomotion reaching and prehension
11:30	12:30	Motor learning in the Pediatric Population (Lecture and Video Analysis) <ul style="list-style-type: none"> • Newborn (0-4 weeks) • Infant (4 weeks-1 year) • Toddler (1-3 years old) • Preschooler (4-6 years old) • School-aged (6-13 years old) • Adolescent (13-19 years old)
12:30 1:00	1:00 2:00	Lunch (on your own) Unique pediatric Motor Learning Challenges Lecture and Video <ul style="list-style-type: none"> • The inexperienced child • The hypertonic child • The hypotonic child • The medically fragile child • The intellectually disabled child

Day One Continued

2:00	3:00	Motor Learning and Neuroplasticity in the Adult and Geriatric Patient (Lecture) <ul style="list-style-type: none"> • Unique challenges: Diagnostic examples, patient responses to guiding, facilitation inhibition, and proprioceptive input based on available neural networks: • Inflammatory disease • Systemic atrophies, extrapyramidal and movement disorders • Degenerative disease • Demyelinating disease
3:00 3:45	3:45 6:30	Break Motor Learning and Neuroplasticity in the adult Geriatric Patient (Cont) <ul style="list-style-type: none"> • Episodic and paroxysmal disorders, nerve root and plexus disorders • Polyneuropathies and other disorders of the peripheral nervous system • Diseases of the myoneural junction and muscles • Paralytic syndromes
7:45	9:15	Day Two Spinal Cord Injury (Lecture) <ul style="list-style-type: none"> • The compensatory to recovery spectrum <ul style="list-style-type: none"> - Recovery interventions compared to compensatory interventions for motor control - The role of spasticity in motor control • The ASIA exam, manual muscle testing and neuromuscular recovery scale-are they predictive of recovery?
9:15	9:45	Applying the Neuromuscular Scale Across other Diagnosis and Life Span
9:45 9:45	10:00 12:15	Break Hands on Practice (Lab) <ul style="list-style-type: none"> • Neurodevelopmental treatment concepts: guiding, facilitation, inhibition • Proprioceptive Neuromuscular Facilitation concepts: trunk and limbs • Activity-based concepts: open vs. closed chain, static/dynamic/transitional movement
12:15 12:45	12:45 1:45	Lunch (On your own) Participation and Family Centered Care Across the Life Span <ul style="list-style-type: none"> • ICF model • The law: IDEA, ADA • Funding challenges • Value-based programs and accountability
1:45	2:00	Wrap Up and Questions



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About the Educator

Selina M. Morgan, PT, DPT, graduated from Texas A&M University with a BS in Health Education in 1984, and the University of Texas Health Science Center in Dallas, School of Physical Therapy in 1986. She earned her Doctor of Physical Therapy degree from the University of Texas Medical Branch in 2016. She has been actively involved in the physical rehabilitation of neurological compromised patients and assistive technology throughout her career. She currently serves as the spinal cord injury lead therapist in an outpatient rehabilitation center in San Antonio.

Selina first gained teaching experience through her faculty position at the Texas Tech School of Physical Therapy in 1995. She is an adjunct instructor at The University of Texas Health Science Center at San Antonio, teaching the Management of the Patient with Neurological Dysfunction for the 2nd year doctoral physical therapy students.

Dr. Morgan has been credentialed by RESNA as an Assistive Technology Practitioner since 2003. She is involved in and serves as a Christopher and Dana Reeve Foundation Mentor since 2012. She has been an instructor for North American Seminars since 1999.

Spinal Cord Rehab DVD

★★★★ Course Resource ★★★★★

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Why You Should Attend This Course

Motor learning in the neurologically impaired population is a very individualized journey for every patient and for every therapist. Evidence-based research and clinical experiences has contributed to evolving motor learning theories that are being practiced in today's healthcare environment. Interestingly, the manners by which clinicians influence motor control and motor learning vary throughout the life span. How we help a child who has never experienced movement will obviously vary greatly from how we help an experienced adult.

This two-day advanced course will systematically encourage critical thinking of how a therapist might carefully consider each patient's unique parameters that will allow him or her to learn (or re-learn) motor control through central nervous system neuroplastic change. The course will explore the connection between neuroscience and clinical outcomes in a tangible manner such that meaningful progress can be achieved. Goal setting, measuring progress and addressing funding concerns will also be discussed in detail.

Unique pediatric, adult and geriatric challenges will be discussed with respect to creating the best possible outcomes. Discussion of outcome measure selection with consideration to the patient's diagnosis and age will help the clinician follow, progress and formulate evidence-based strategies; as well as justify the need for therapeutic intervention within today's health care funding parameters. A focus on implementing family-centered care will also be an important topic in this course.

This course will prepare PT's, PTA's and OT's to objectively manage the neurologically involved client in a manner that will maximize their functional movement.

Course Objectives

Upon completion of this course, participants will be able to:

- Demonstrate understanding of neuroplasticity applied to patients with neurological impairment at any age.
- Demonstrate understanding of various motor control theories and select valid concepts toward developing an effective plan of care for the patient with neurological impairment.
- Identify sensorimotor impairments and effective therapeutic interventions based on video case studies.
- Develop programs that enhance movement therapy strategies including task-specific training, activity based strengthening, and the benefits of neuromuscular reeducation across the life span with consideration of unique diagnostic and patient characteristics.
- Identify unique characteristics within specific diagnostic groups that require special attention for developing motor learning.
- Identify the secondary effects of abnormalities of tone and posture.
- Perform outcome tests and measures that are reliable in assessing the level of recovery for the patient with neurological impairment at any age.
- Identify important documentation elements toward insuring funding for necessary therapy intervention.
- Discuss current healthcare legislation and the impact on family centered care.
- Identify key evaluation and treatment techniques to enhance lasting function in a value-based accountability system.

Motor Control

Send tuition to: North American Seminars, Inc.
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All cancellations must be submitted with written notice and received 14 days prior to the course date. Refunds and transfers minus the deposit fee of \$75.00 are provided until 14 business days prior to the course date. No refunds will be issued if notice is received after 14 days prior to the course date. North American Seminars, Inc. reserves the right to cancel any course and will not be responsible for any charges incurred by the registrant due to cancellation. A full course tuition refund will be issued if NAS cancels the course. NAS reserves the right to change a course date, location or instructor. No refund will be issued if course is in progress and is interrupted by an Act of War or God or issue beyond our control. NAS, Inc. will not be responsible for any participant expenses other than a course tuition refund for course cancellations.

All this information is required in order to process a registration