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Rate	Description	8 Hrs
Consortium	Group Discount – Register your facility today. 5 or more	\$175
Association	Member of APTA, AOTA, NATA, ASHA, SCARF, or ATRI, etc.	\$200
Individual	Single Registration	\$225

Course # Course Title

Date(s) Location

Name _____ Discipline _____

Facility _____

Home Mailing Address _____

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Circle One: **VISA MASTERCARD AMEX**

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Cancellation Policy: Motivations, Inc. reserves the right to cancel a course up to 14 days prior to the course, with full refund, if insufficient numbers of participants have registered for the course. Registrants may cancel up to 14 days prior to the course and transfer their tuition to any Motivations, Inc. course, or receive a full refund. Any cancellations within two weeks prior to the course will receive a refund less \$100 for administrative costs.



Motivations, Inc.

Accredited Continuing Education Courses

249 Venice Way #3303
 Myrtle Beach, SC 29577
 P: (800) 791-0262
 F: (815) 371-1499
admin@motivationsceu.com
www.motivationsceu.com

National Credentials
 Motivations Inc. works with the following CEU approval sources.



#226 Respiratory Muscle Strength Training: Background Innovative Applications for Dysphagia Prevention and Rehabilitation

Instructor:
Erin Silverman, Ph.D. CCC/SLP

A Workshop for Speech-Language Pathologists, Physical Therapists, Occupational Therapists, Respiratory Therapists and Related Healthcare professionals.

8:00 am – 5:30 pm

#226 Respiratory Muscle Strength Training: Background and Clinical Applications for Speech, Swallow & Cough

SUMMARY: This presentation will initially comprise a review of the common neuroanatomic and neurophysiologic bases of respiration, swallow and cough, as well as changes to these systems that may occur as a result of neurodegenerative and neurotraumatic disease states. The content focuses on the healthy elderly, as well as individuals who demonstrate neurological impairment. Conventional means of addressing respiratory swallow and cough impairment will be reviewed prior to an in-depth review of emerging research supporting respiratory muscle strength training procedures in patient groups. Changes in muscle strength result in a pattern of change characterized by both neural and structural modifications to targeted muscle groups. This presentation will review respiratory muscle strengthening programs and provide evidence of neurological and muscular adaptations associated with their intervention. Neural adaptations result in rapid strength gain. Muscular adaptation contributes to strength improvements over time. The content for intervention is backed with clinical research and will show learners how to implement a four-week training program to improve cough and swallow using an inexpensive device-driven therapy that can be flexibly carried out in the hospital, outpatient clinic, or even at home or via telerehab. Benefits, limitations, clinical trial designs, and clinical applications of strength training paradigms will also be presented.

PRESENTER: Erin Silverman, Ph.D., CCC/SLP, CCRC is a certified Speech-Language Pathologist and ACRP-certified Research Coordinator with more than 19 years of experience in a wide range of medical settings. A former NIH Kirschstein Predoctoral Fellow and Dystonia Medical Research Foundation Young Investigator, her primary research interests are the diagnosis and rehabilitation of voice and swallow disorders associated with neurodegenerative or neurotraumatic disease. Previously a Research Assistant Professor at the University of Florida, Dr. Silverman is presently a research coordinator within the University of Florida College of Medicine Division of Pulmonary, Critical Care, and Sleep Medicine. Her work centers around the development and completion of large scale clinical trials focusing on the treatment of respiratory disease and disability. In addition to her research duties, Dr. Silverman frequently lectures at the undergraduate, graduate, and para-professional levels. Classes taught by Dr. Silverman include neuroanatomy, voice disorders, research methods, speech disorders, acoustics, and clinical observation (among others). Additionally she serves as a research and development consultant for Kinection, a software development firm focusing on the creation of computer-based learning platforms for use in workplace and therapeutic settings. The instructor has no relevant financial or nonfinancial relationships to disclose.

OBJECTIVES: Upon completion of this course, the participant will be able to:

1. Identify key anatomical and physiologic components of respiratory, swallow and cough.
2. Determine which patient population's respiratory muscle strength is considered effective.
3. Assess key measures of respiratory muscle strength and describe how these measures relate to the development of respiratory muscle strength training protocols.
4. Demonstrate knowledge of available devices for respiratory muscle strength training and describe advantages & disadvantages of each, as well as applicability to specific patient groups.
5. Plan and implement respiratory muscle strength training protocols for patients.
6. Assess respiratory muscle strength training outcomes in terms of measures of respiratory muscle strength, swallow and cough.

FORMAT: This is an 8-hour lecture/discussion course equivalent to 0.8 CEUs. This course is offered for .8 **ASHA CEUs** (*Intermediate Professional area*). **AOTA:** Motivations, Inc. is an approved provider of continuing education by the American Occupational Therapy Association #4002, for 8 contact hours - Intermediate Level Occupational Therapy Process: evaluation, intervention. The assignment of AOTA CEU's does not imply endorsement of specific course content, products or clinical procedures by AOTA. Approved by Texas APTA and additionally, we follow the PT guidelines in the states in which the course is held.

AUDIENCE: Speech-Language Pathologists, Physical Therapists, Occupational Therapists, Respiratory Therapists and other Healthcare Practitioners involved in the treatment of adults in medical, nursing/assisting living, and homecare settings.

AGENDA: Pre-reading assignment and questionnaire should be completed before the course.

- 8:00am Patient Profiles and Rationale for Behaviorally Based Treatment Options
- 10:00 Break
- 10:15 Dysphagia and Dysphonia: Assessment and Treatment Options
- 12:00 Lunch on your own
- 1:00 Dystussia: Cough Function, Measurement, and Clinical Utility
- 2:30 Break
- 2:45 Respiratory Muscle Strength Training: *What, Why, Who, How & When* w/specific applications to clinical settings
- 4:30 Case Study Discussions and Application problem solving. Review course questions.
- 5:30pm Adjourn

Course Offerings

Atlanta, GA: March 10, 2017 – Hosted by Sheperd Center
Houston, TX : April 8, 2017 – Hosted by Houston Methodist Hospital
Phoenix, AZ: September 9, 2017 – Banner University Medical Center

For course location details and registration, please visit: www.motivationsceu.com