

ADVANCED VESTIBULAR PHYSICAL THERAPIST CERTIFICATION

Module 1

OBJECTIVES AND SCHEDULE



University of
Pittsburgh

Department of
Physical Therapy
School of Health and
Rehabilitation Sciences

OBJECTIVES

Anatomy, physiology, and lab examinations for persons with peripheral and central vestibular disorders

1. Gain a better understanding of the underlying anatomical and physiologic characteristics of the vestibular system that can affect patient outcomes in persons living with vestibular disorders.
2. Describe and utilize new information about the VOR in designing treatment programs for persons living with vestibular or balance disorders.
3. Apply the results of vestibular laboratory testing to develop interventions programs for persons with vestibular disorders.
4. Identify abnormal VEMP test results and what the results mean related to practice.
5. Choose from various subjective measures to document changes and to identify patient concerns in the patient that they are treating. An example of some of the included tests and measures are the Dizziness Handicap Inventory, the Activities-specific Confidence scale, the Vertigo symptom scale, the Vestibular ADL scale, the Visual vertigo analogue scale, the Niigata PPPD questionnaire, the Vestibular Migraine Patient Assessment Tool and Handicap Inventory, the Life Space questionnaire, the Convergence Insufficiency Scale, and many others.
6. Be able to perform the HINTS, the HINTS plus, the ABCD2, the posterior circulation infarct risk score, STANDING, and discuss timing and triggers of symptoms to assist in making the diagnosis of persons with peripheral or central vestibular disorders.
7. Recognize and be able to classify persons with BPPV, labyrinthitis, Ramsey Hunt, Meniere's disease, bilateral vestibular loss, and multiple sclerosis.
8. Recognize and utilize best practice to identify the recommended EDGE task force outcome measures utilized for persons with vestibular disorders.
9. Identify the roles of physical therapists and the knowledge based needed to identify and treat persons with vestibular disorders in an emergency room and in the acute care setting.
10. Identify and gain an understanding of how perception and the vestibular system are linked.
11. Gain an understanding of the typical treatment interventions for persons with vestibular hypofunction who may exhibit perceptual difficulties.
12. In the follow-up session after the weekend, you will be asked to "vote" on which subjective or objective measure will best help you to identify change in the cases presented over time.
13. Recognize and choose the optimal methods to assess balance and postural control in persons with vestibular disorders based on their presenting signs and symptoms.
14. Be exposed to eye movements and demonstrate knowledge of which diagnoses are most often associated with the eye movement via online voting and interaction with the instructor

SCHEDULE

All times Eastern Standard Time

July 27, 2021 (7 PM) An advanced synthesis of critical anatomy and physiology of the vestibular system Joseph M. Furman, MD, PhD, FAAN

August 3, 2021 (7 PM) Video analysis of ocular movement Amy Cassidy DPT, NCS

AUGUST 14, 2021

7:15-8:00 Getting on zoom and signing in to the module

8:00-9:00 VOR adaptation in humans Michael C. Schubert, PT, PhD, FAPTA

9:00-10:00 Vestibular lab testing Michelle R. Petrak, PhD

10:00-10:15 Questions and answers with Drs. Schubert and Petrak

10:15-10:30 Break

10:30-11:20 VEMP testing- the newest in the practice guidelines Terry D. Fife, MD

11:20-12:00 Postural and balance testing Patrick J. Sparto, PT, PhD

12:00-12:15 Questions and answers with Drs. Fife and Sparto

12:15-1:15 Lunch

1:15-2:00 Self report assessments used to record symptoms in persons with vestibular disorders Susan L. Whitney, DPT, PhD, NCS, ATC, FAPTA

2:00-2:45 Tests and measurements used in vestibular- EDGE task force recommendations Matthew Scherer, PT, PhD, PT, PhD, NCS, LTC, SP

2:30-2:45 Questions and answers with Drs. Whitney and Scherer

2:45-3:00 Break

3:00-4:00 Differential diagnosis in the Emergency Department Jorge Kattah, MD

4:00-4:45 Role of the physical therapist in the Emergency Department and acute care Vicky Stewart, PT PhD

4:45-5:00 Questions and answers with Drs. Kattah and Stewart

SCHEDULE

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AUGUST 15, 2021

8:00-9:45 Differential diagnosis for “uncomplicated” conditions/ didactic and case based learning Susan L. Whitney, DPT, PhD, NCS, ATC, FAPTA

9:45-10:00 Question and answers with Dr. Whitney

10:00-10:15 Break

10:15-11:15 Perception and the vestibular system Eric Anson, PT, PhD

11:15-12:00 Case integrating perception and care of the person with a vestibular disorder Colin Grove, DPT, PhD, NCS

12:00-12:15 Question and answers with Drs. Anson and Grove

August 24, 2021 (7 PM) Outcome Measures and Self Report Surveys: Case based application of which test is optimal for which patient presentation Susan L. Whitney, DPT, PhD, NSC, ATC, FAPTA

August 31, 2021 (7PM) Vestibular Physical Therapy in Acute Care- Case management Britta Smith, DPT, NCS