

Vestibular Dysfunction

An Algorithmic-Based Evaluation and Treatment Approach

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Presented by
Barry Morgan, PT

PT, PTA, OT, AT- continuing education course

North American Seminars®

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Day One

- 7:30 8:00 **Registration**
8:00 10:00 **The Vestibular System**
- Anatomy, physiology and central connections
 - Understanding postural control
 - Understanding reflexive activity
 - Neuroplasticity and sensory-motor patterned learning
- 10:00 10:15 **Break**
10:15 11:00 **Nystagmus Behaviors**
- Central vs. peripheral
 - Torsional vs. linear
 - Latency period vs. immediate response
 - Duration
 - Ocular orientation; skewed, asymmetrical, muscular weakness, etc.
 - Oscillopsia
- 11:00 12:00 **Medical and Vestibular Function Testing: Understanding the Results**
- Important history-taking elements
 - Medications and potential side effects
 - Advanced Testing
 - Calorics
 - Computerized DVA
 - Computerized dynamic posturography
 - Positional Testing
 - Auditory testing
- 12:00 1:00 **Lunch (on your own)**
1:00 3:00 **Therapy Clinic Testing**
- Complete review and critical interpretation of the MD office testing results
 - Detailed history taking from a therapists perspective
 - Evaluation elements
 - Physical, sensory, motor, coordination, strategies, avoidance behaviors and overall presentation
 - VOR and peripheral testing
 - Central testing
 - Postural control and sensory integration
 - Use of visual input
 - Use of vestibular input
 - Use of proprioceptive input
- 3:00 3:15 **Break**
3:15 5:00 **Evaluation Lab**

Day Two

- 7:30 10:00 **Diagnoses/Syndromes and their Algorithmic Treatment via case Studies; Lab & Collaborative Discussion Format.**
- Imbalance: gait disorders vs vertigo
 - Meniere's
 - Motion sensitivity
 - Mal de debarquement
 - Acoustic neuroma
 - Perilymphatic fistula
 - Vascular abnormalities
- 10:00 10:15 **Break**
10:15 12:00 **Vestibular Hypofunction vs. Loss**
- Causes: viral, disease, injury
 - VOR, neural firing and error signals
 - Unilateral vs bilateral impairments
- Vestibular hyperactivity
 - Central disorders
 - Migraine
 - Migraine associated dizziness
 - Ischemia
 - Concussions
 - Blast injuries
- 12:00 1:00 **Lunch (on your own)**
1:00 2:45 **BPPV**
- Diagnosis
 - VNG observations/clinical findings
 - Specific positional tests and their indications
 - Specific treatment based on an algorithmic approach
 - Persistent vestibular impairment in chronic BPPV patients
- 2:45 3:15 **Discussion on G-codes**
- Common billing practices to assist in reimbursement for medically necessary vestibular rehabilitation
- 3:15 3:30 **Break**
3:30 4:30 **Group Problem Solving via Case Studies**
- Central disorders - group 1
 - Peripheral disorder, hypofunction - group 2
 - Peripheral disorder, BPPV - group 3
 - Group presentation - wrap up and questions

Earn 25 CEU's when you choose the bundle option during online registration (live course, DVD with online access and pre-approved home study). CA, GA, MA, NV, UT, NJ, DC, PA, MD, RI, CT, MA, VA approved, NY, PT provider. (30 hours for NY, DC, IL)

Certificates of attendance are provided upon successful completion of the course.

This course is 15 contact hours/15 ccu's/1.5 ceu's

This course is 18 contact hours/1.8 ceu's for therapists licensed in FL, IL, NY or DC.

About the Educator

Barry Morgan, PT received a BS degree in Anatomy from West Texas State University and a BS degree in Physical Therapy from the University of Texas. Since 1986, he has practiced in a variety of neurologic and orthopedic settings. He is currently working independently as a vestibular therapist and balance consultant in his own practice and has been a national seminar educator since 2003. He has extensive experience in interpretation of vestibular testing, computerized balance testing, video nystagmography and oculomotor testing. Barry finished a competency based course on vestibular rehabilitation from Herdman in 2004. He is highly skilled in the evaluation and treatment of patients with vestibular disorders and concussion syndromes. He has worked closely with the U.S. Military treating returning injured soldiers with vestibular and concussion injuries. In addition, he treats concussion injuries in the athletic population. He was involved in an NIH grant study on motion illness in 2006, and has also published research on BPPV in the Neuro-Otology Journal in 2007. Current research interests include vestibular treatment algorithms for a variety of vestibular conditions and continued BPPV research. He has presented several community education courses on balance and fall prevention and has provided free screening services for many local health fairs attempting to raise the awareness for the need for proactive exercise for elderly abatement of dizziness and imbalance, and proper diagnosis of conditions involving the vestibular system.

Vestibular Rehabilitation Examination & Treatment DVD

- An advanced educational program featuring examination and treatment techniques associated with vestibular rehabilitation.
- Step-by-step discussion of twenty-eight vestibular examination techniques.
- Twenty-three treatment techniques, including BPPV and Oculomotor-Central techniques are detailed with expert narration.
- Expert Narration by Barry Morgan, PT.
- High quality, professional video production.
- Educate yourself and share the DVD with other professionals for a group savings on CEU credit hours, see website for details.

A great resource tool.

Learn more and view video samples at www.healthclick.com

Why You Should Attend This Course

Each year over 8 million physician and emergency room visits are attributed to complaints of dizziness and imbalance. Symptoms of vestibular disorders can vary greatly from one person to the next and the population range can vary as much as the symptoms. As our population ages many more people will be seeking medical assistance for dizziness and imbalance or injuries due to these complaints. Soldiers returning from combat with post blast or post concussion injuries often have underlying vestibular disorders. Many people cannot explain their symptoms and their complaints can range from light-headedness to being clumsy. The ability for clinicians to perform screening tests for differential diagnosis is critical for the future health and well being of their patients. Only 8% of suspected BBPV patients will have a proper diagnosis prior coming to a therapist. Will you be able to differentiate the symptoms and underlying causes?

This two day intermediate course will provide the attending practitioner, intermediate level algorithmic problem solving skills needed to evaluate and treat dizziness and imbalance. A major emphasis will be placed on how to develop differential diagnosis skills when performing a comprehensive evaluation for a variety of vestibular diagnoses. Significant time will also be focusing on developing an effective adaptable progressive plan of care with successful outcomes. A variety of current patient case studies will be thoroughly evaluated to assist with putting all the information together in a practical manner.

Integrative hands-on labs are interspersed throughout both days and will allow participants to practice and easily apply evaluation techniques and treatment strategies to their clinical repertoire. This course will prepare the clinician to evaluate and treat with minimal equipment. However, current market availability of equipment and the correct utilization of advanced technology will be discussed.

This course is offered to Physical Therapists, Physical Therapist Assistants, Occupational Therapists, Occupational Therapist Assistants, Nurses, Nurse Practitioners and Physician Assistants who are currently working with this population. Clinicians currently working with this population are encouraged to attend this course.

Course Objectives

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

- Discuss the anatomical structures of the vestibular system.
- Identify how balance and movement information is processed.
- Describe the various dizziness and imbalance diagnoses and understand how they affect the vestibular system.
- Recognize the different mechanisms available for recovery (compensation, adaptation, substitution) and how they can be utilized to prescribe effective progressive plans for this population.
- Perform proficient evaluations of oculomotor, vestibular and balance function.
- Develop appropriate algorithmic plans of care by applying information gathered from detailed history, evaluations and tests.
- Recognize how to differentiate between migraine syndromes, migraine associated dizziness and if present with vestibular disorders, how to successfully manage their care.
- Differentiate the basic information available from advanced diagnostic testing including ENG, caloric testing, oculomotor testing and balance testing with posturography.
- Recognize nystagmal variations and assist in the correct diagnosis and treatment in vestibular disorders, especially BPPV and its variant resistant forms.
- Perform specific BPPV tests and decide appropriate treatment options including traditional and newly emerging alternative treatment options.
- Identify emerging treatment ideas with regard to post concussion and post blast vestibular injuries in the soldier population receiving treatment in vestibular clinics across the country.
- Design a program that applies information related to successfully coding, predicting outcomes and billing practices.

Registration Form

Vestibular Dysfunction

Send tuition to: North American Seminars, Inc.

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All this information is required in order to process a registration

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.