

VNG, VEMP & VHIT: Protocols and Practice

VideoNystagmography, Vestibular Evoked Myogenic Potentials, and Video Head Impulse Test

Faculty: Richard E. Gans, Ph.D., FAAA, Sara Jagger, Au.D., FAAA, & Darren Kurtzer, Au.D., FAAA 16 Credit Hours = 1.6 AAA CEUs

Day 1 9:00 am - 5:00 pm

Morning Session: (2.75 hrs)

9am - 12pm (Break 10:30am - 10:45am)

- Review of Peripheral and Central Vestibular Systems Assessed with VNG
- Overview of VNG Protocol Building the most sensitive test battery
- Oculomotor Subtests Saccades, Smooth Pursuit, and Optokinetics: Interpreting eye movement abnormalities
- Gaze Subtest Congenital, Acquired, Alexander's Law, Ewald's Law

Lunch: 12 Noon – 1pm

Afternoon Session: (3.75 hrs)

1pm - 5:00 pm (Break 3:00pm - 3:15pm)

- High Frequency Headshake Subtest Velocity Storage & Lateral Positioning
- Positioning and Positional Subtests Biomechanics of Modified Hallpikes and Positional subtests. Testing for and differentiating PC & HC BPPV and MPV.
 - o Hands-on Practice
- Caloric Subtest Pearls and Pitfalls
- Interpreting VNG Subtest Results Putting it all together using Logic Tree Integration techniques.

Day 2 9:00 am - 5:00 pm

Morning Session: (2.75 hrs)

9am - 12pm (Break 10:30am - 10:45am)

- Vestibular Evoked Myogenic Potentials (VEMP)
 - Anatomy and physiology review Vestibulocolic (VCR) and ocular reflex pathways (VOR) of the cervical and ocular VEMP
 - o Research and historical perspective
 - Who, When and Why to use cervical and ocular VEMP
 - o Clinical instruction in proper test technique
 - Test interpretation and patient triage
- Hands-on Practice and VEMP techniques for infants, children and adults.



Lunch: 12 Noon – 1pm

Afternoon Session: (3.75 hrs)

1pm - 5:00 pm (Break 3:00pm - 3:15pm)

- Vestibular Head Impulse test (VHIT)
 - o Physiology review of the "Corrective Saccade"
 - o Who, When and Why to use VHIT
 - o Clinical instruction in proper test technique
 - o Test interpretation and patient triage
- Hands-on Practice

Day 3 9:00 am - 12:15 pm

Morning Session: (3 hrs)

9am - 12pm (Break 10:30am - 10:45am)

- Integration of V3 Test Findings: Putting it all together:
 - o How to use the "Cross-Check Principle" with the V3 tests
 - o Differentiating and reporting clinical findings utilizing V3 tests
 - Case Studies children and adults
 - Pediatrics
 - Concussion with labyrinthine involvement
 - Migraine
 - Vestibular neuritis
 - Litigation "Is the client really dizzy?"
- Discussion and Summary