

Interacoustics Balance Course – York June 2024

Day One – Seminar & Workshop Intended Learning Outcomes

To deliver the foundation of knowledge needed to conduct the assessment of the dizzy patient.

Through theory and workshops the performance of vestibular assessments will be applied to clinical practice

On completion participants will understand common and complex vestibular disorders, their descriptions, and understand the technologies to locate, identify, and recognise vestibular dysfunction.

Day 1 **Assessing peripheral semi-circular canal (SCC) vestibular function.**

Intended Learning Outcomes

- Describe the anatomy & physiology of the vestibular / balance system
- Discuss & demonstrate how to perform bedside assessments to inform the assessment strategy
- Explore how patients reported symptoms can fit with patterns of pathology related to SSC function

Agenda

9:00	Registration	
9:20	Welcome & Introduction	
9:30	Anatomy & Physiology of the peripheral vestibular systems	Mr J Sandhu (JS) ENT Surgeon
10:15	Clinical assessment of the Dizzy patient from an ENT perspective <i>Bedside assessment & Considerations of peripheral vestibular pathologies</i>	JS
10:45	Comfort Break	
	Assessment of vestibular semi-circular canal function	
11:00	Caloric testing - Ear specific testing <i>Background revisited, how to interpret, and clinical considerations</i>	Jack Bennett (JB)
11:30	Rotational Chair Testing	Chris Monaghan-Doyle Clinical Scientist
12:15	Lunch	
13:15	Introduction to vHIT, theoretical background, and overcoming artifacts	Darren M Whelan (DW) Audiologist
14:00	Positional / Positioning Testing & associated nystagmus	JB
	Practical Workshops: (delegates split into 2 groups)	
14:30 (30 mins x 2)	Workshop 1: Bedside assessment eye movements, clinical HIT, positional and positioning including Dix-Hallpike, Side lying, Supine head roll test	JS
14:30 (30 mins x 2)	Workshop 2: Bedside assessment Romberg, Unterberger stepping test/ Fukuda stepping test, Timed Up and Go test, Modified CTSIB and options in computerised posturography.	DMW
15:30	Comfort Break	
	Workshop 3: video Head Impulse Testing hands on, tips and tricks live demonstration (2 workstations)	Darren M Whelan
	Workshop 4: Performing the caloric test	Jack Bennett
16:45	Q&A Session	17:00 Close

Day Two - Assessment of the Otolith vestibular end organ & Central vestibular system

Intended Learning Outcomes

- Understand the theory and application of objective measurement of the otolith vestibular organ
- Perform assessment of otolith function using cervical and ocular Vestibular Evoked Myogenic Potentials
- Describe the anatomy & physiology of the central vestibular / balance system
- Neurological dizziness, and neurological assessment

Agenda

	Welcome	
9:00	Introduction to VEMP - Anatomy & Physiology, Clinical application of VEMP, and Pathological importance	JS
10:00	VEMP recording	DMW
10:30	Workshop to perform Cervical & Ocular VEMP (3 groups) (60 min) Workstation 1 – VEMP (DW) Workstation 2 – VEMP (JS) Workstation 3 – VEMP (GC & MC)	
11:30	Comfort Break	
11:45	The role of vestibular diagnostic tests in the management of dizzy patients - How to put the sensory end organ picture together	DMW
12:30	Lunch	
13:30	Anatomy & Physiology of the central vestibular system	Prof Diego Kaski Consultant Neurologist
14:00	Introduction to the 'Dizzy Patient': The art of taking a 'balance' history	DK
14:45	Comfort Break	
15:00	Clinical assessment of the Dizzy patient from a Neurological perspective <i>Techniques to determine peripheral from central pathology</i>	DK
15:30	The patient is unsteady & has disturbed gait, is this vestibular or neurological?	DK
16:00 (20 mins x 2)	Workshop 1: Bedside assessment (eye movements, HIT, gait abnormalities in vestibular Vs neurological conditions)	DK
16:00 (20 mins x 2)	Workshop 2: Objective assessment Performing positional testing with VNG eye recording	DMW / JB
16:45	Q&A Session with the Faculty	17:30 Close

Day Three - Interpreting eye movements – Videonystagmography

Intended Learning Outcomes

- Understand the theory and application of objective measurement of eye movements when assessing the dizzy or imbalanced patient
- To measure and perform eye recordings in vision denied, gaze, saccade movement, and smooth pursuit.
- To discuss and apply the findings of vestibular assessments in the context of quantifying vestibular function, identifying the identity of dysfunction, and gaining clarity in reporting findings

Agenda

	Welcome	
9:00	Central Dizziness – what is PPPD?	DK
9:45	Calibration, Gaze Testing, Oculomotor Examination in VNG	DMW
10:15	Hands on VNG workshop (2 groups) – calibration, data collection and interpretation Workshop 1 (GC) Workshop 2 (MC)	
11:00	Comfort Break	
11:15	Video eye movement interpretation	DK
12:00	Lunch	
12:45	Chronic dizziness, typical presentations, and thoughts about management	DK
13:30	Vestibular & dizziness assessment – Where are we in 2024?	DW
14:00	Comfort Break	
14:15	Case presentations of vestibular / balance assessments	DK & DW
15:00	What is the future of dizziness assessment in the UK? (Group debate)	
15:30	Close of seminar & feedback	