

CURRICULUM

Topic	Content	Time
Anatomy 1	• High-resolution MRI visualization of vestibular structures • Microscopic anatomy and pathology of presbyvestibulopathy • Structural and mechanistic insights into BPPV • Integration of anatomical knowledge with clinical relevance for vestibular disorders	50 min
Anatomy 2	• Detailed exploration of the vascular anatomy of the peripheral and central vestibular system • Role of the basilar artery, AICA, PICA, and SCA in vestibular and cerebral blood supply • Clinical features and differentiation of AICA and labyrinth infarctions • Overview of carotid sinus syndrome and vertebral artery lesions	50 min
Physiology 1	• Function of hair cells in the semicircular canals and otolith organs as primary motion sensors • Interaction between semicircular canals and extraocular muscles, illustrated to explain nystagmus patterns • Physiological basis and clinical relevance of the translation-vestibulo-ocular reflex • Mechanisms and diagnostic importance of the ocular tilt reaction in vestibular disorders	45 min
Pathology 1	• Detailed understanding of inner ear nerve supply and reasons for superior vestibular nerve vulnerability in neuritis vestibularis • Exploration of the link between Ménière's disease and endolymphatic hydrops, including characteristic nystagmus and differential diagnosis • Insight into the causes, symptoms, diagnostic criteria, and treatment options for SCD syndrome	45 min

Pathology 2	- Detailed exploration of CANVAS (Cerebellar Ataxia, Neuropathy, and Vestibular Areflexia Syndrome) and vestibular paroxysmia - Pathophysiology, diagnostic procedures, and treatment strategies for CANVAS - Differentiation of CANVAS from other neurological and vestibular disorders - Clinical features, diagnosis, and management of vestibular paroxysmia caused by 8th cranial nerve compression	50 min
Pathology 3	- Comprehensive overview of Mal de Débarquement Syndrome (MdDS) - Current theories on the causes and challenges of diagnoses and treatment - Recognition of characteristic symptoms and associated clinical findings - Diagnostic criteria and differentiation from other vestibular and neurological disorders - Review of current treatment methods and evaluation of supporting scientific evidence	60 min
Balance 1	- Exploration of the balance system's adaptive and compensatory mechanisms - Understanding of compensation processes following vestibular loss - Insight into how the brain and body adapt to altered balance conditions - Application of adaptive mechanisms in therapy to enhance and accelerate patient recovery	70 min

Balance 2	• Overview of key clinical tests for assessing static balance • Application and interpretation of the Five Times Sit to Stand Test for evaluating leg strength and balance control • Use of the Functional Reach Test to measure dynamic stability during forward reach • Assessment of single-leg stability with the Single Leg Stance Test to identify early balance impairments • Evaluation of balance and postural stability using the Tandem Romberg Test	35 min
Balance 3	• Training in key clinical tests for assessing dynamic balance • Application of the Gait Speed Test as a reliable measure and predictor of falls, mobility limitations, and overall health • Use of the Gait Disorientation Test to evaluate balance and spatial orientation • Implementation of the Four Square Step Test to assess coordination, agility, and the ability to manage rapid directional changes • Comprehensive evaluation of balance and postural control using the Mini-BESTest	45 min
Oculomotor exam 1	• Introduction to the fundamentals of oculomotor examination and eye movement assessment • Use of visual inspection to identify potential oculomotor dysfunctions • Evaluation of eye position and motility to detect abnormalities and assess muscle function • Application of Cover/Uncover Test, and Alternate Cover Tests to diagnose strabismus and ocular misalignments	60 min

Oculomotor exam 2	• Evaluation of gaze-holding function to assess fixation stability and detect central disorders • Identification of gaze-evoked nystagmus as an indicator of vestibular or central dysfunction • Analysis of rebound nystagmus and its diagnostic relevance • Examination of vestibulo-ocular reflex fixation suppression to evaluate vestibulo-visual interaction and central control mechanisms	35 min
Spontaneous nystagmus 1	• Identification and interpretation of gaze-evoked and rebound nystagmus in central disorders • Assessment of headshaking-induced nystagmus as an indicator of vestibular dysfunction • Evaluation of vibration-induced nystagmus to detect specific vestibular pathologies	45 min
Spontaneous nystagmus 2	• Evaluation of pressure-induced nystagmus (Hennebert's sign) and its associated pathologies • Assessment of Valsalva-induced nystagmus and its occurrence in specific vestibular disorders • Analysis of sound-induced nystagmus (Tullio phenomenon) and related vestibular conditions • Understanding of hyperventilation-induced nystagmus and its diagnostic implications	30 min
BPPV 1	• Understanding of the Tumarkin-like phenomenon and its occurrence after repositioning maneuvers • Application and evaluation of the Loaded Dix-Hallpike Test • Detailed analysis of posterior canal BPPV maneuvers, including the Li maneuver and Semont Plus, compared with the Epley maneuver for effectiveness and patient comfort • Examination of the Modified Yacovino maneuver and its theoretical and practical benefits in BPPV treatment	35 min

BPPV 2	- Techniques for accurate lateralization of the affected side in horizontal canal BPPV - Application and interpretation of the Supine Roll Test and Bow and Lean Test - Observation and analysis of nystagmus to distinguish between BPPV variants - Understanding of ‘pseudo’-spontaneous nystagmus, its mechanisms and diagnostic value	35 min
BPPV 3	- Clear differentiation between central positional nystagmus and BPPV in clinical practice - Understanding of the characteristics and frequency of central positional nystagmus - Video-based case examples with detailed explanations to enhance diagnostic accuracy and practical understanding	35 min
BPPV 4	- Detailed analysis of apogeotropic posterior canal BPPV - Understanding of short-arm posterior canal BPPV, its diagnostic challenges, and therapeutic approaches - Examination of sitting-up vertigo - Discussion of Type II (“subjective”) BPPV	65 min
BPPV 5	- Understanding of the light cupula mechanism - Development of effective treatment strategies for managing light cupula-related symptoms - Comprehensive insight into canalith jam, including its pathophysiology, diagnostic indicators, and targeted therapeutic maneuvers	40 min
TOTAL time		13 h 50 min