American College of Physicians - Internal Medicine Meeting 2025 New Orleans, LA

The Dizzy Patient

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Examining The Dizzy Patient

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ACP Annual Meeting, 2025

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Objectives

- Differentiate Central from Peripheral Nystagmus
- Perform Physical Exam Maneuvers to Differentiate Central from Peripheral Vertigo
- Treat BPPV with the Epley Maneuver



History: Dizzy

- Lightheaded/Presyncope
- Dysequilibrium
- Vertigo (sensation of movement)
- Vague/Dissociative symptoms



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History

- Better dx specificity when don't just rely on pt symptom description....
- Timing (onset, frequency, duration)
- Triggers
- Associated Symptoms



Physical Examination

- General Medical Exam
- General Neurologic Exam
- Neuro-otologic Exam

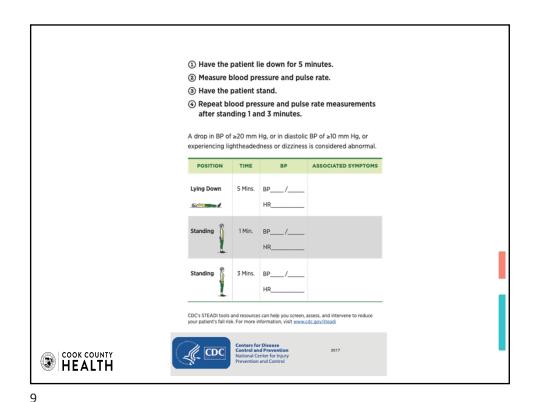


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Physical Examination

- Orthostatic Pulse and BP if suggested by history
- External ear exam, otoscopy
- Differentiate CNS from PNS by "the company they keep:
- CNS: bulbar sx (dysarthria, dysphagia), eye findings (diplopia, ptosis, gaze palsy), VF defect, limb ataxia, focal weakness/numbness
- Recall: ataxia does not equal cerebellar lesion!
 Describes a physical exam finding



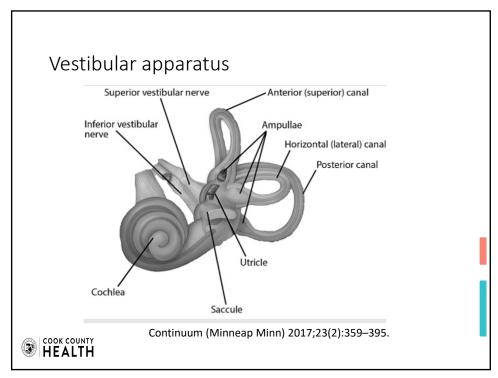


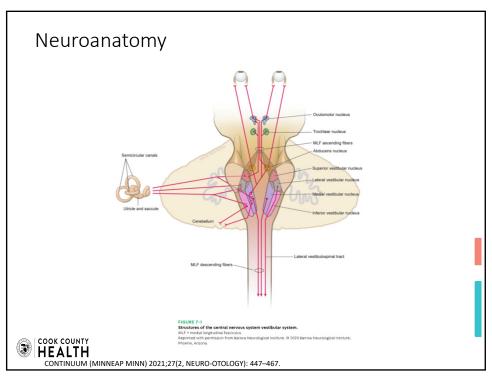
• Eye movements, Nystagmus

Neuro exam High Yield

- Coordination of limbs
- Gait, stance
- Romberg
- Eyes closed tandem Romberg







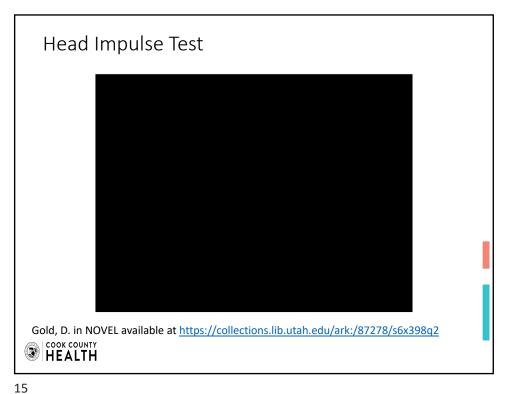
Acute Vestibular Syndrome

- A sudden onset of continuous vertigo, lasting >24 hours, associated with nausea, head motion intolerance and imbalance
- Mostly peripheral, ~10% central causes
- HINTS test more sensitive than MRI
- HINTS: Head Impulse Test, Nystagmus and Test of Skew. (ALL 3 must point to peripheral cause to be confident not CNS etiology)

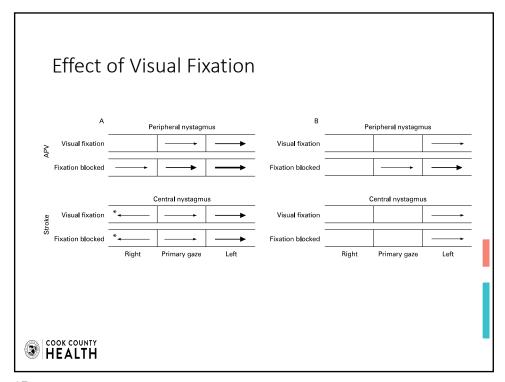


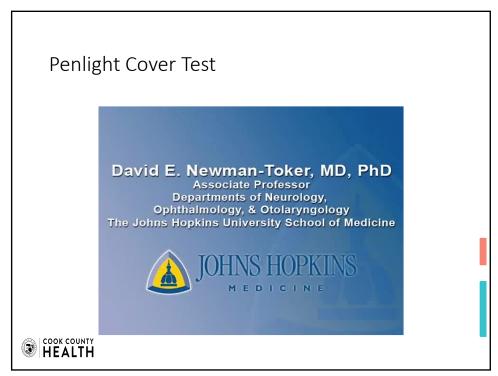
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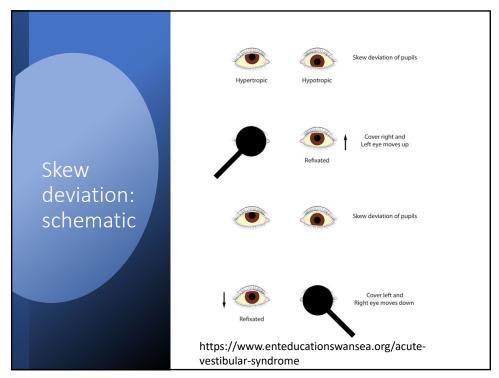
Head Impulse Test Figure 2 COOK COUNTY HEALTH

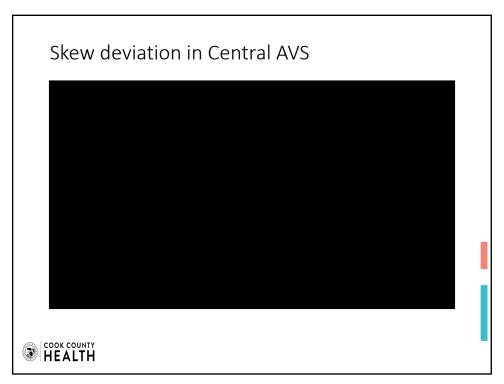


Central vs Peripheral Nystagmus Peripheral Central Unidirectional **Features** Gaze evoked Suppressed Effect of visual Not suppressed fixation **Usually Present** Other neuro Absent signs&symptoms COOK COUNTY HEALTH









Truncal Ataxia Gradations Used to Distinguish Peripheral Versus Central Causes of Acute Vestibular Syndrome^a

Ataxia grade	Definition
1	Mild to moderate imbalance with walking independently
2	Severe imbalance with standing, but cannot walk without support
3	Falling at upright posture

 $^{^{3}}$ In a study evaluating acute vestibular syndrome presentations of posterior circulation stroke, all patients a grade 3 had stroke, and all at grade 1 had peripheral causes. 27

CONTINUUM (MINNEAP MINN) 2021;27(2, NEURO-OTOLOGY): 402-419.



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Episodic Positional Dizziness

- BPPV
- Migrainous vertigo
- Central Causes (10%)
- Light Cupula Syndrome (rare)



History: BPPV

- Vertigo ppt by head movements (bend over, turn, roll over in bed etc)
- Last seconds to 1 minute
- No tinnitus, hearing loss
- Everyone says "dizzy all day"....need to tease this out.



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Dix Hallpike



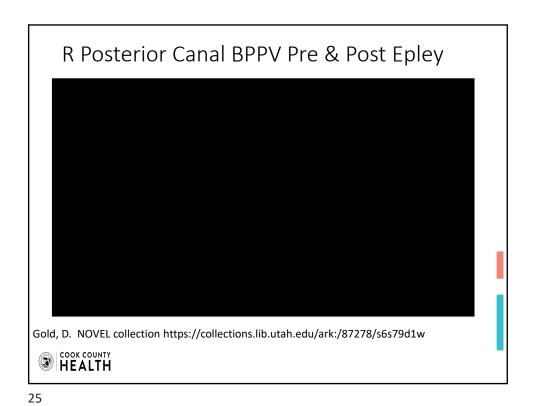
Dix Hallpike is Gold Standard Test for dx of BPPV.



Positive if **both** a) vertigo and b)**triggered** and **transient** nystagmus

Nystagmus of BPPV has a **latency** of 1-2 seconds before onset, and it **fatigues**.





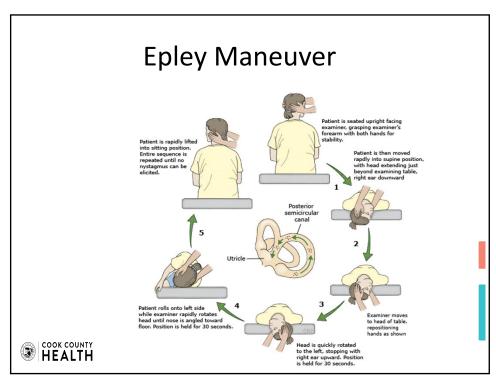
Treatment of Posterior Canal BPPV: Canalith Repositioning maneuvers

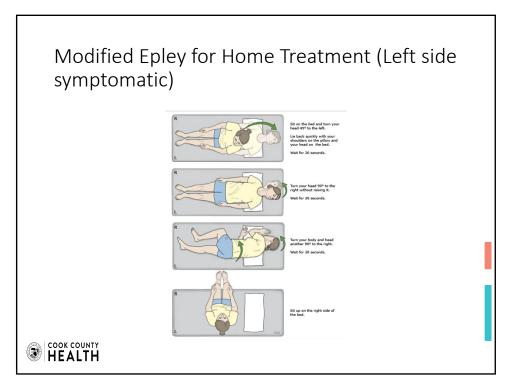
- Epley
- Semont

Similar efficacy, both have self-maneuvers

- Semont-plus
- Half somersault
- Brandt-Daroff exercises* - not curative









Semont plus

Left ear is the affected ear

60 seconds in each position for semont-plus, 30 for Epley

Semont plus shown superior to Epley in 1 recent Class II RCT

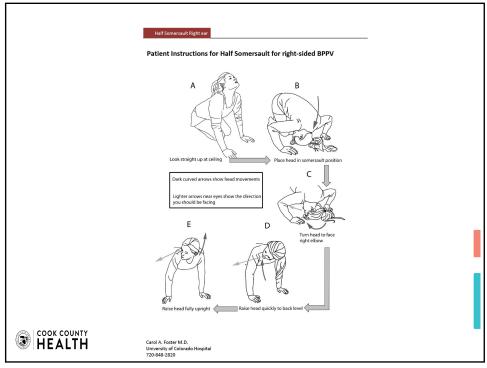


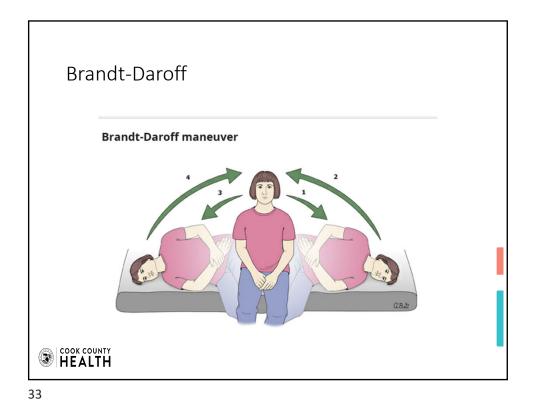


Videos of self-maneuvers

• https://jamanetwork.com/journals/jamaneurology/fullarticle/28066 01







Special situations

- Vertigo and nystagmus triggered by Valsalva or pressure to external ear/tragus: Superior Semicircular Canal Dehiscence or Perilymphatic fistula
- Autophony/Conductive hyperacusis: pt hears own body sounds (voice, eye movements, stomach sounds) --> SCC Dehiscence
- Tullio Phenomenon: Vertigo ppt by loud sounds→SCC Dehiscence



