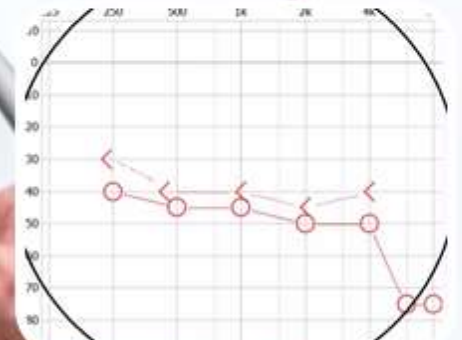
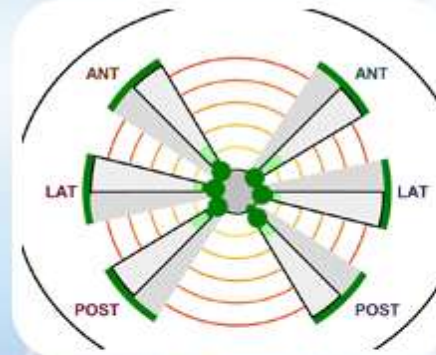


VESTIBULOMETRY - *where does it stand today?*



Dr Anirban Biswas

Neurotologist

Kolkata, India

www.vertigoclinic.in

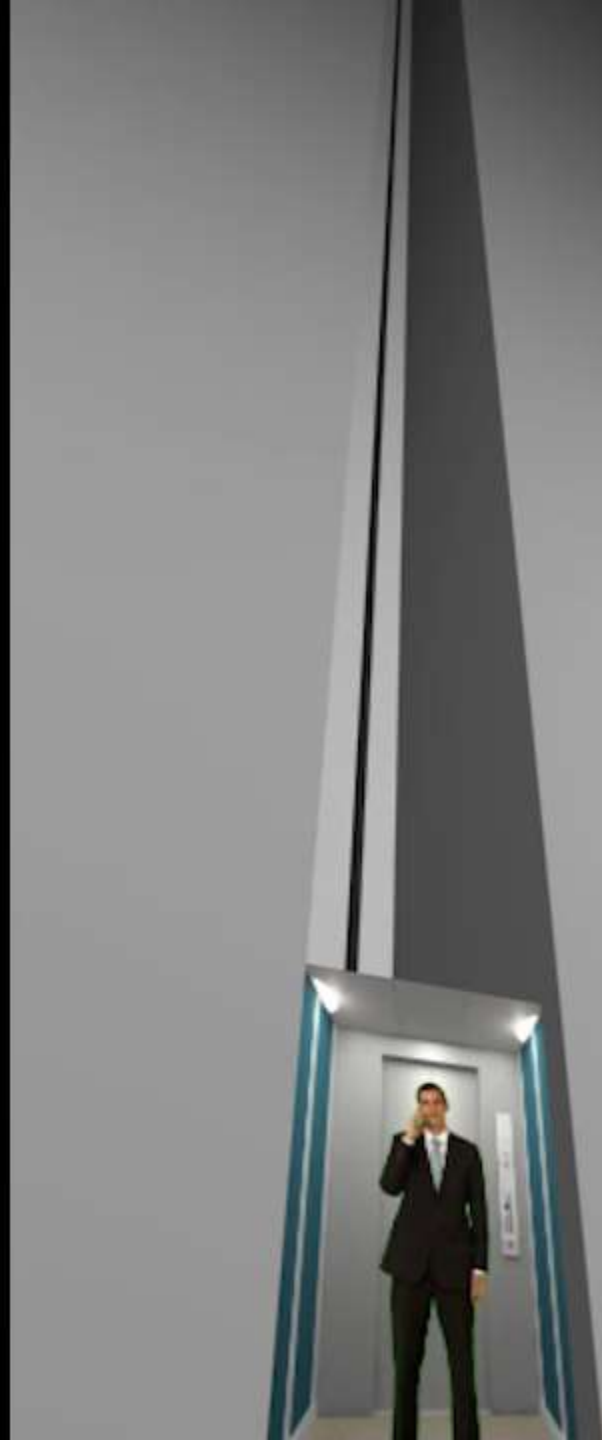
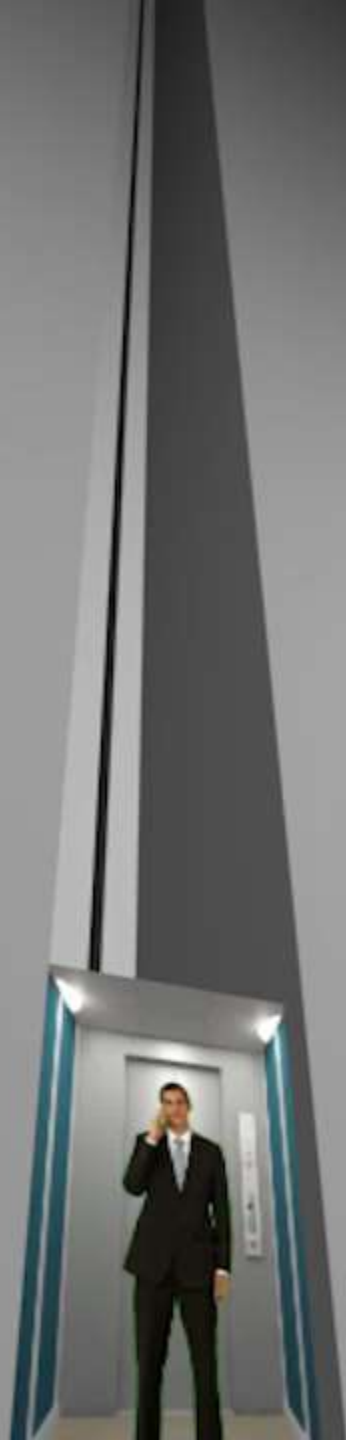




Patients are aware of how rationally their problem is being managed by the clinician; every advice is googled , scrutinized and verified



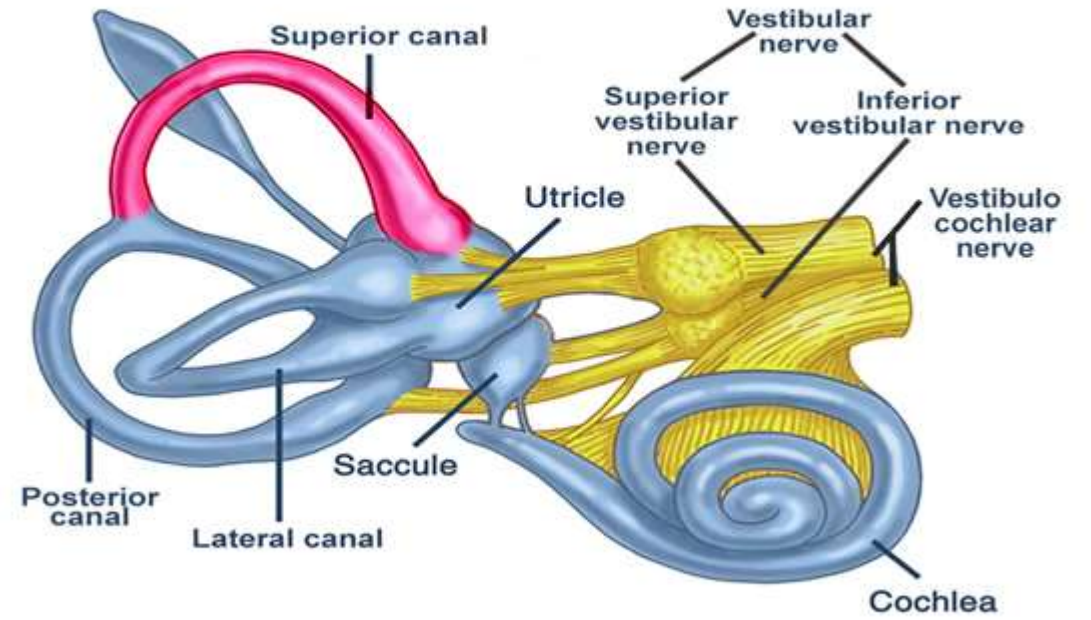
The clinician is morally and legally bound to offer the latest diagnostic technology to the patient;.







VESTIBULAR LABYRINTH



What do we want to test??



Structural integrity of the balance system

- 5 parts of the vest. labyrinth
- neural pathways

Functional integrity of the balance system

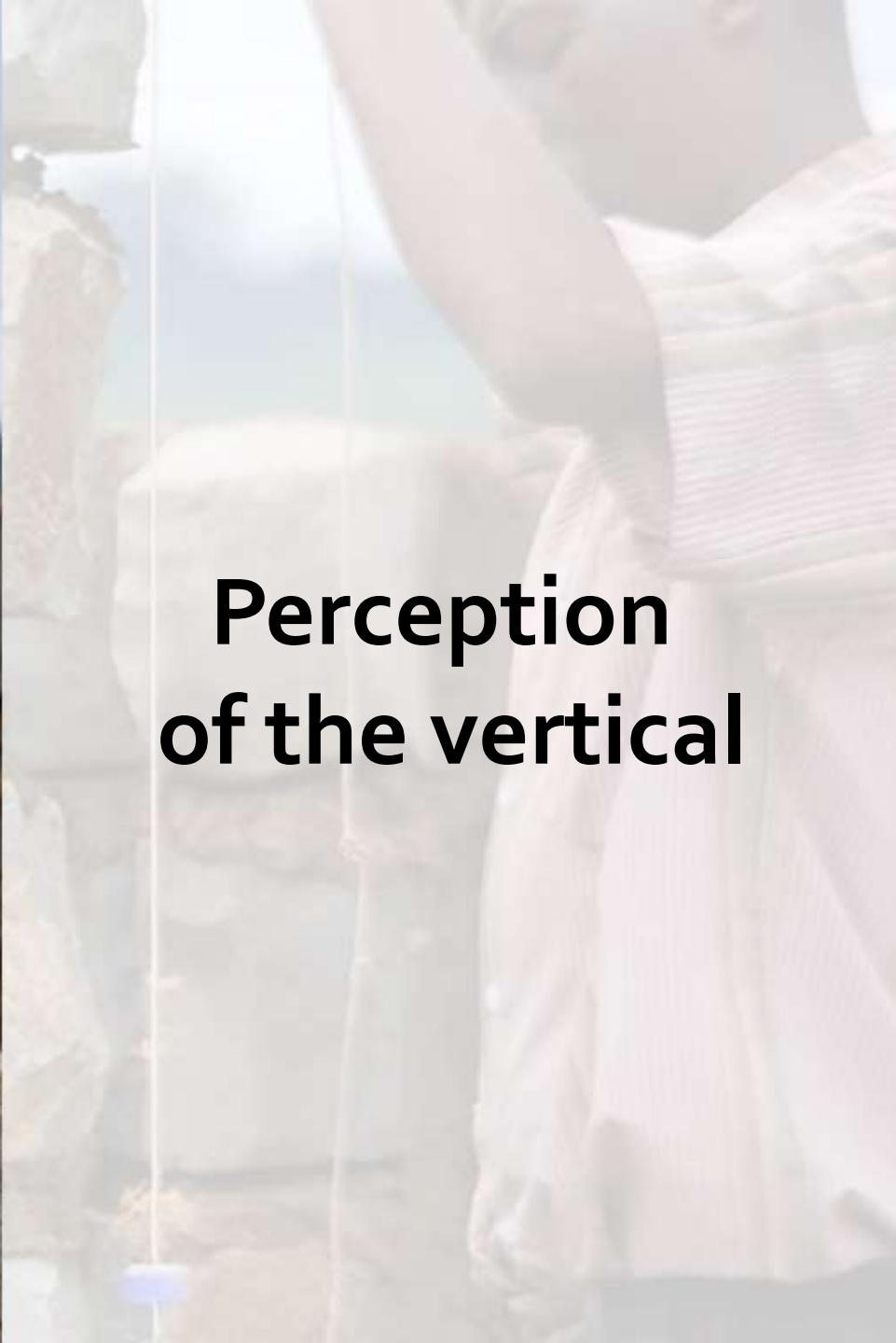
- gaze stabilisation (VOR)
- postural stabilisation (VSR)
- sense of gravitational vertical



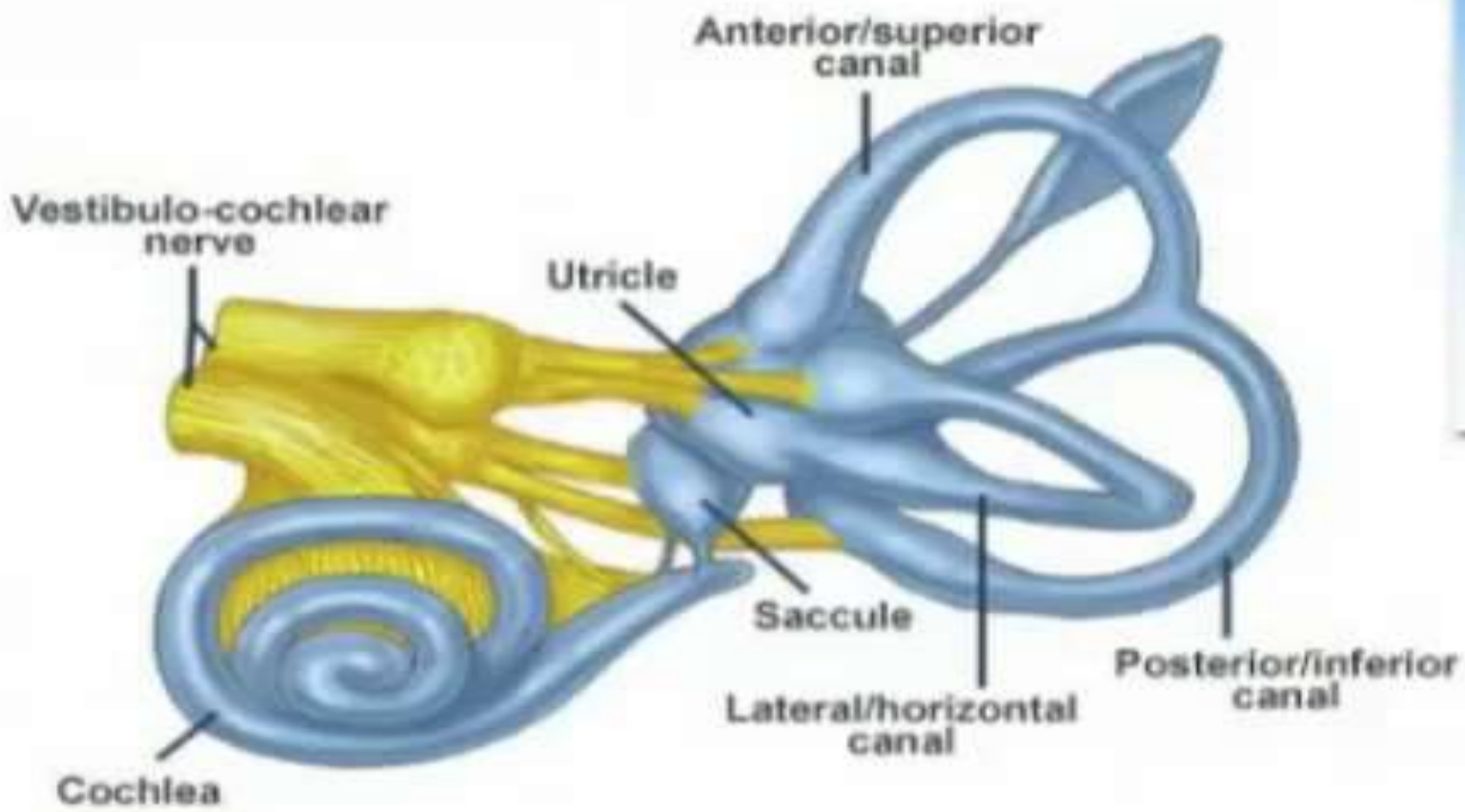
Gaze Stabilisation



Postural Stabilisation



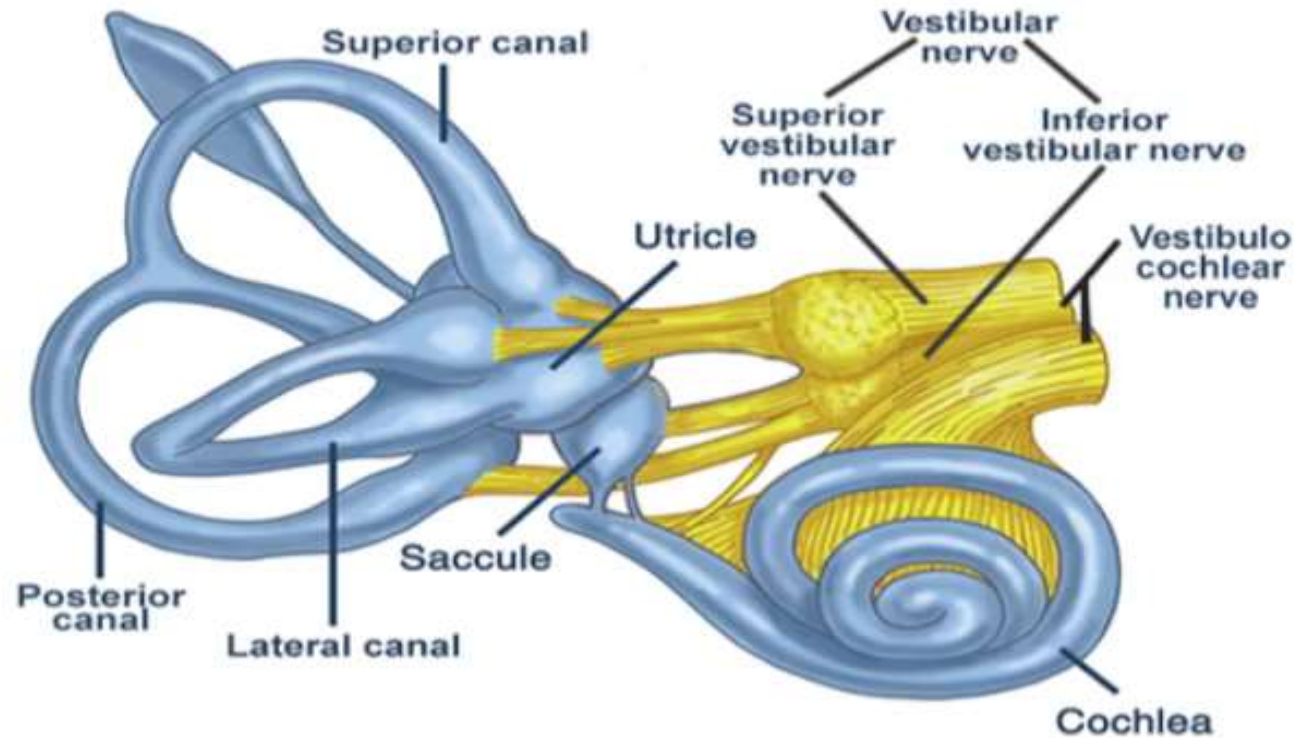
**Perception
of the vertical**



VESTIBULAR LABYRINTH

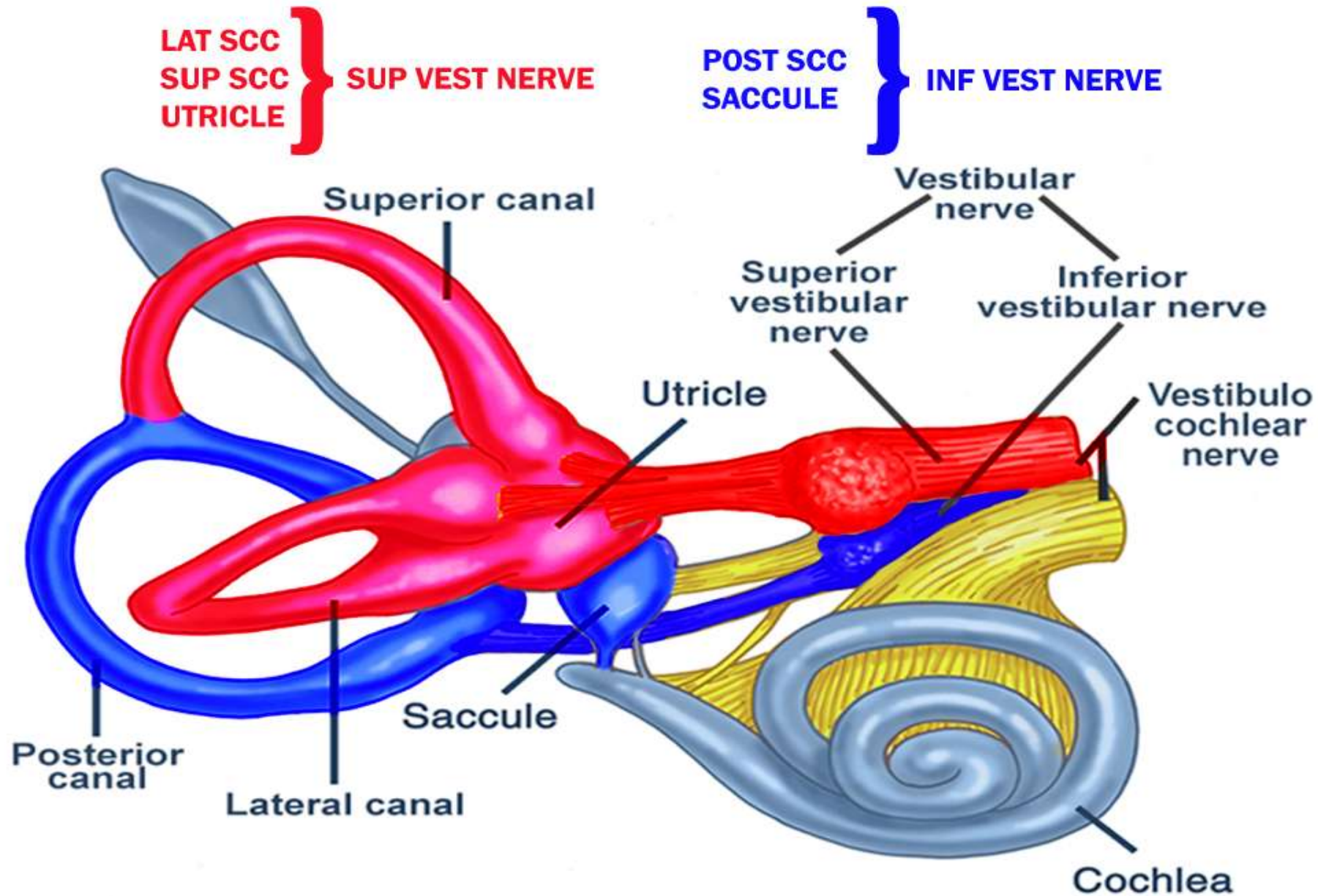
What do we want to test ?

VESTIBULAR LABYRINTH

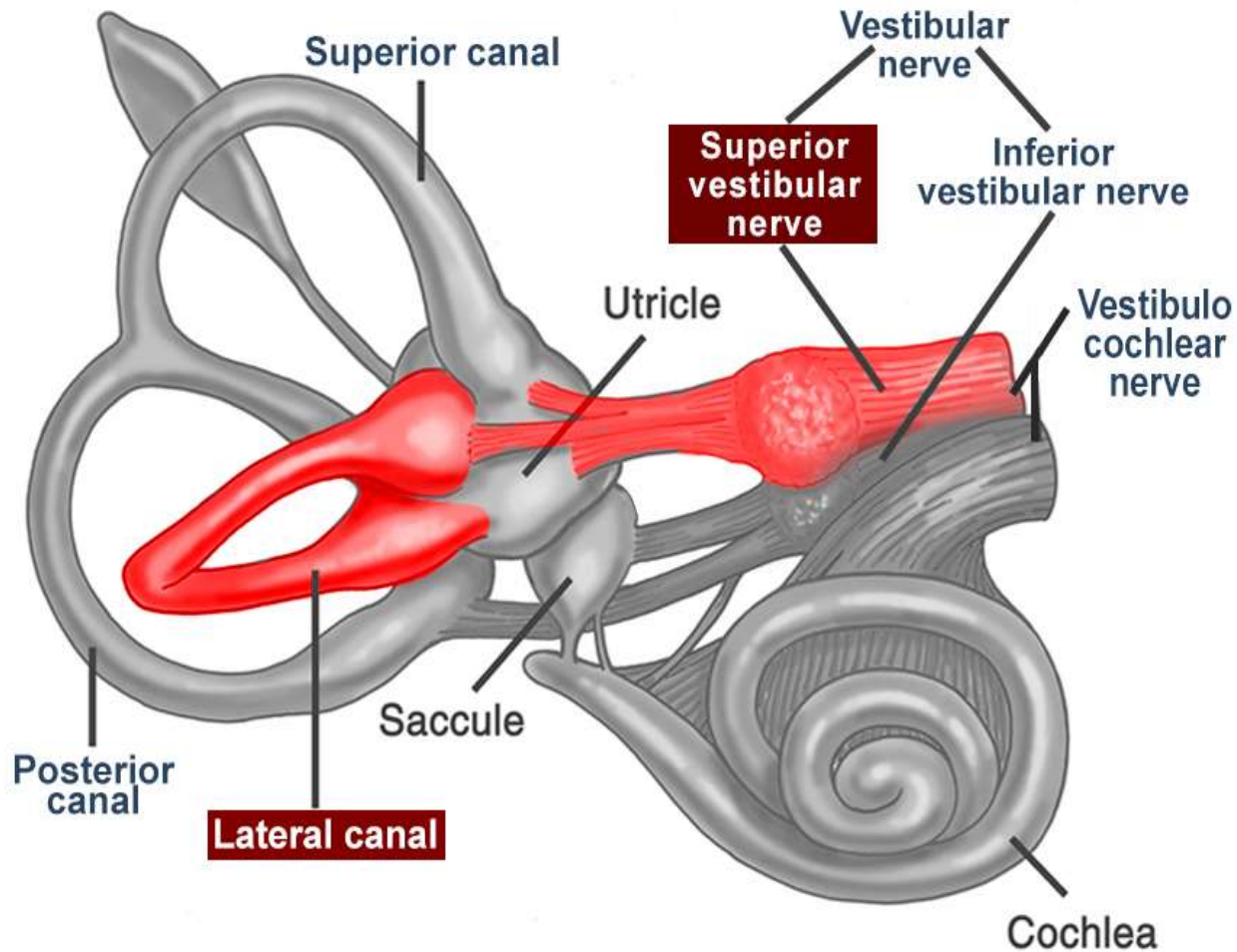


Each individual part
and at different
frequencies of
vestibular stimulation

VESTIBULAR LABYRINTH

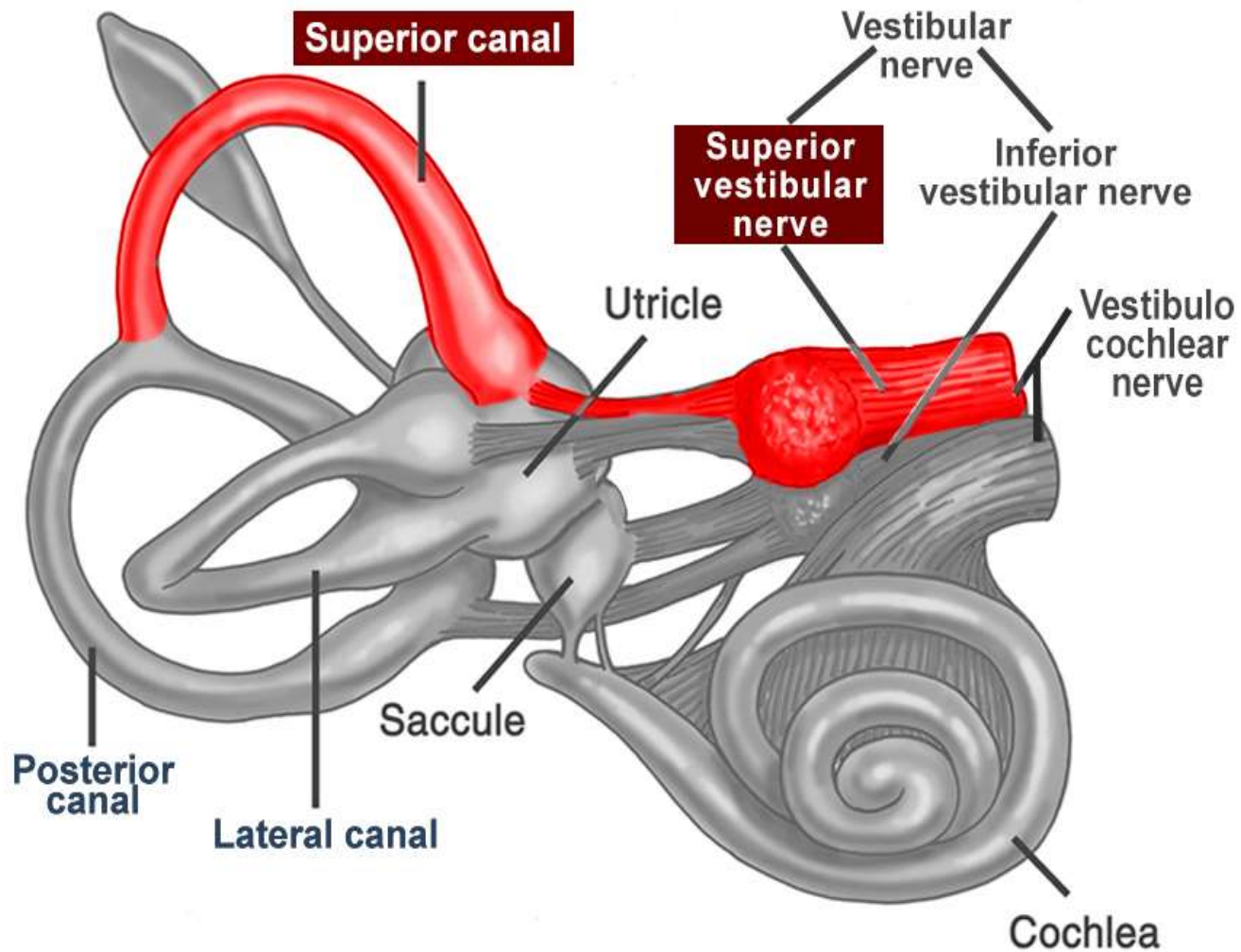


What do we want to test ?



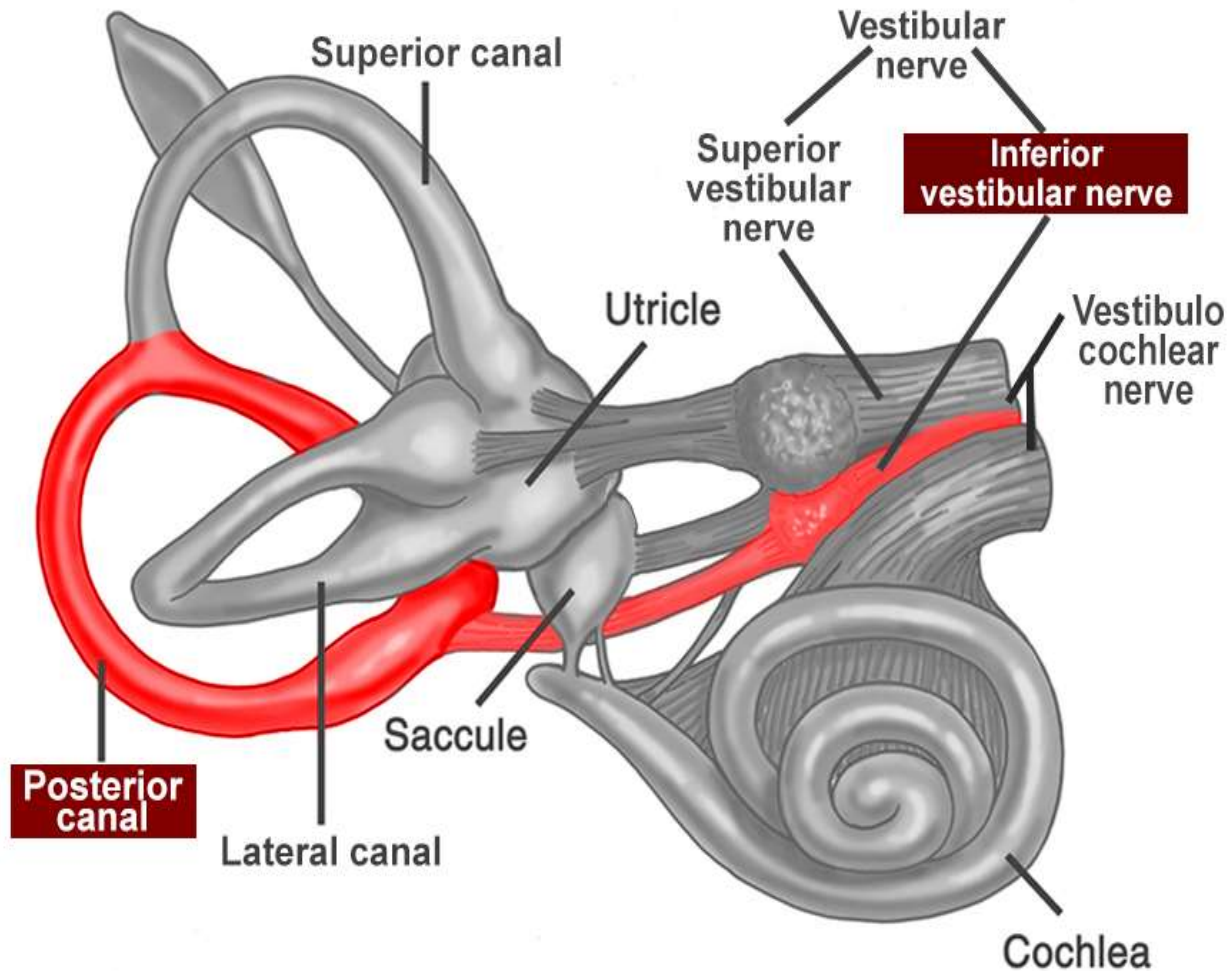
Lateral semi-circular canal tested by **caloric ENG/VNG** at low frequencies and **VHIT** at high frequencies. **Sup vest nv** also tested by this

What do we want to test ?



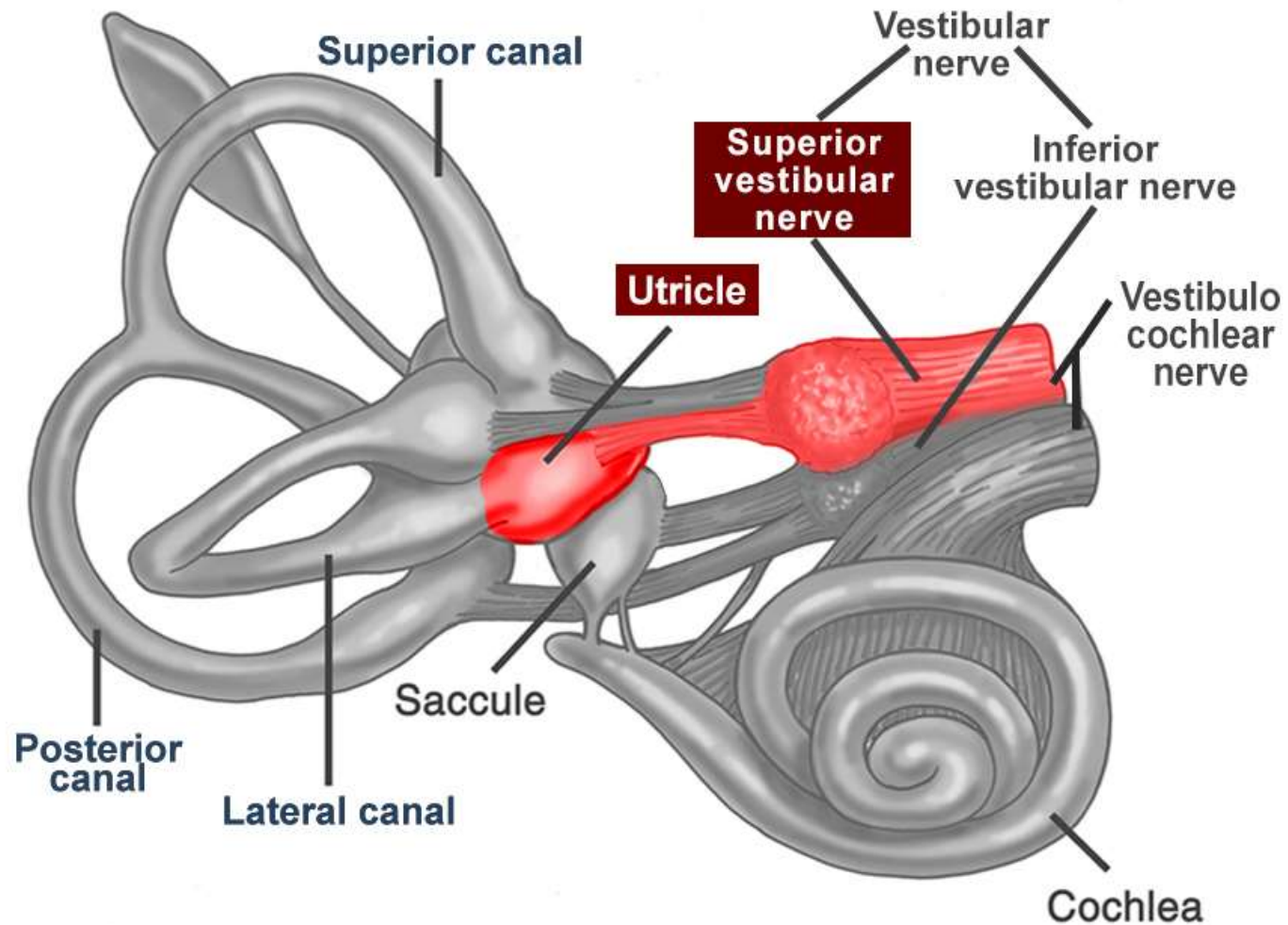
Superior semi-circular canal tested by **VHIT of superior canal** at high frequencies. **Sup vest nv** also tested by this

What do we want to test ?



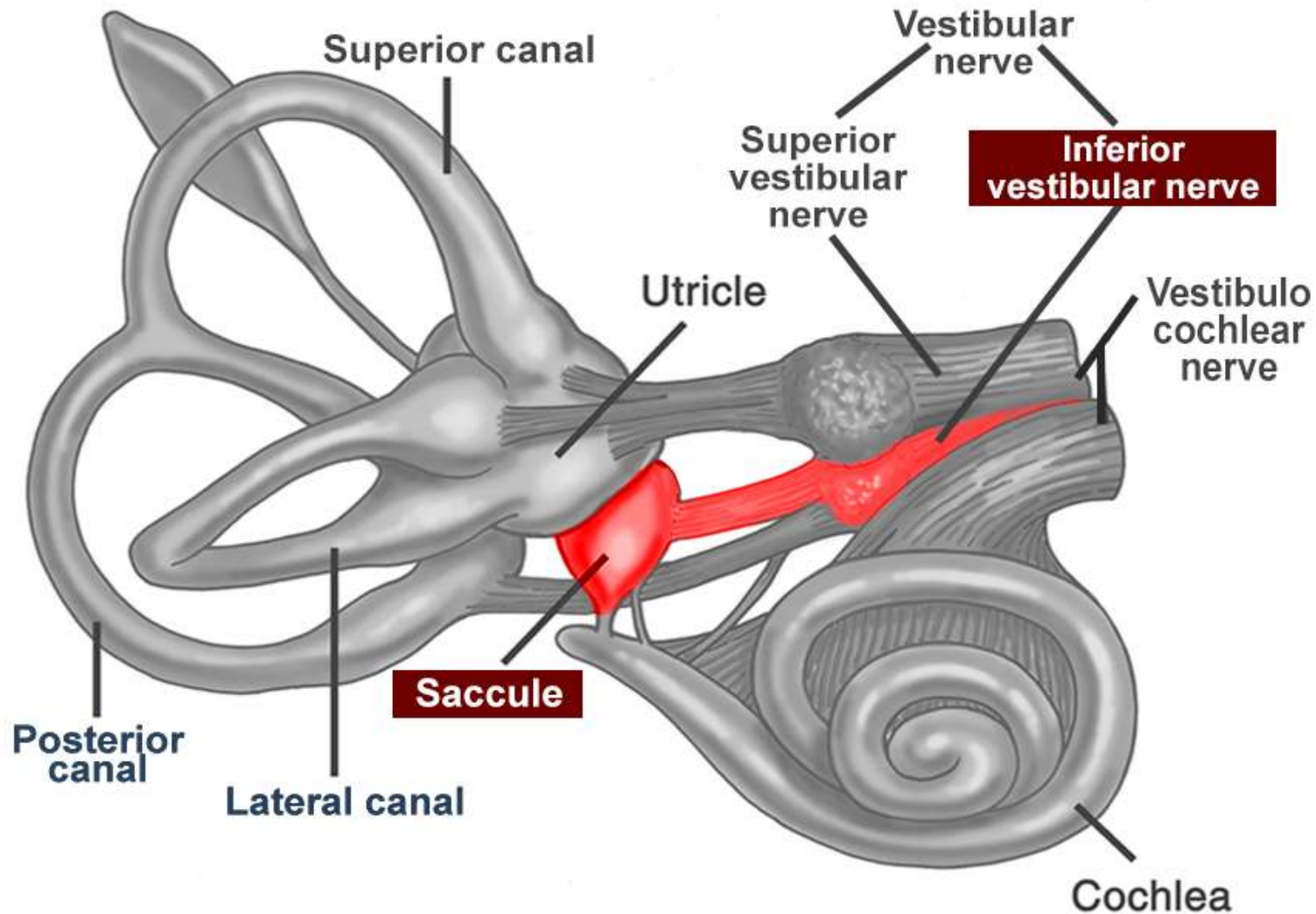
Posterior semi-circular canal tested by **VHIT of the posterior canal** at different *high frequencies*. **Inf vest nv** also tested by this

What do we want to test ?



Utricle is tested by the **Ocular VEMP** test. **Superior vest nv** also tested by this

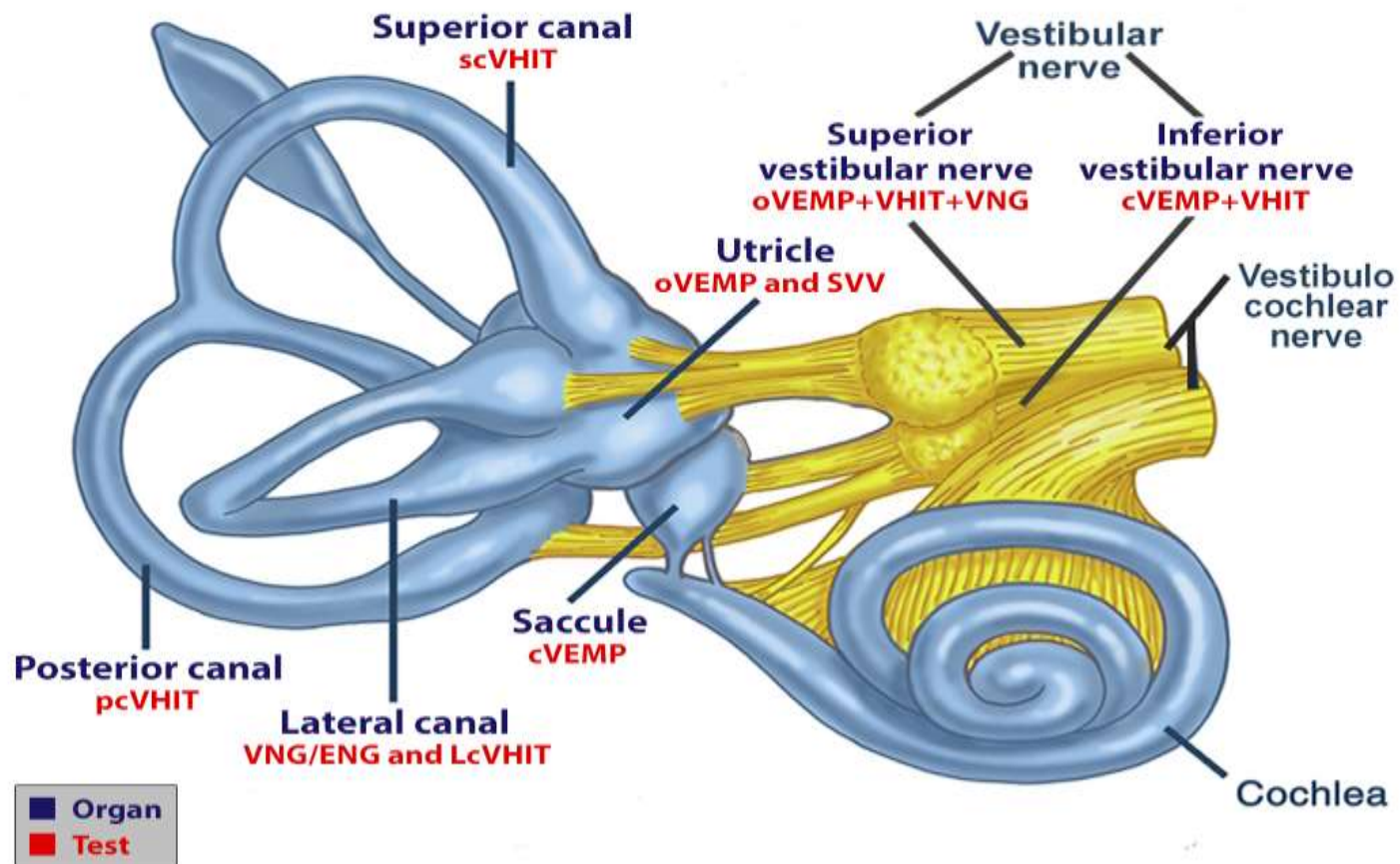
What do we want to test ?



Saccule is tested by the **cervical VEMP**. Inferior vest nv *also tested by this*

Functional status of each part of the vestib. labyrinth can be evaluated with utmost precision today

TESTS FOR VESTIBULAR LABYRINTH



1) Each part of the vestibular labyrinth has a specific function

2) Functional integrity of each part of the vestibular labyrinth can be evaluated and at different frequencies of vestibular stimulation