**Vestibular-ocular reflex - calorice testing**

Position pt 30° head up, supine (isolates horizontal semicircular canal). Use otoscope.

Cold or warm water syringed into ear canal  
Temp diff creates convective current in

- **endolymph - cold**: endolymph sinks up stem of vestibular nerve. Mimics head turn to contralateral side.
- **warm**: rising of endolymph  
  - Theory of vestibular nerve:
    - mimics head turn to ipsilateral side  
    - eyes turn to contralateral ear  
    - homolateral nystagmus to ipsilateral side

Cows:
- fast phase last → tonic deviation to side
- inverted (cold) or opposite side (warm)
- both phases last → no movement = brainstem damage
- only ipsi lateral eye move → internuclear opthalmoplegia

Interpretation:
- brainstem damage