



equiHIT

Functional Head Impulse Test

Assess Vestibulo-Ocular Reflex Function with Precision

Test all semicircular canals, individually.



Cutting-Edge Technology

Head-Mounted High-Precision Sensors. **equi**fHIT relies on advanced technology:

- High-Precision Sensors: Our head-mounted device incorporates angular velocity sensors in three axes, ensuring accurate measurements. The angular velocity sensors are oriented in the horizontal plane, LARP plane and RALP plane.
- Automatic Rejection: Suboptimal presentations are automatically rejected, guaranteeing reliable results.
- Standard Snellen Optotypes: Familiar optotypes for effective testing.
- Landolt C Optotypes: For testing in individuals who cannot read English alphabet

Key Highlights

- Fast and Accurate Assessment
- Initial Visual Acuity: Evaluate initial visual acuity with a stable head.
- Individual Canal Assessment: Assess each canal independently.
- Results Presentation: Scores are presented as the number of correct responses out of 10 presentations.
- Color-Coded Indicators: Easily interpret results with color-coded indications - green (normal), yellow (borderline), red (low).
- Automatic Reporting: Receive findings for each canal in the - comprehensive report.



Discover equifHIT

equifHIT: Revolutionizing Vestibulo-Ocular Reflex Assessment.

Welcome to the future of vestibulo-ocular reflex testing with **equifHIT** - the Functional Head Impulse Test. Our innovative device enables precise evaluation of each of the six semicircular canals individually, providing insights into vestibular health with unprecedented accuracy.

The Principle Behind equifHIT

Assess vestibulo-ocular reflex function with precision. The intact vestibulo-ocular reflex is essential for maintaining visual acuity while the head is in motion. Two key facts underline its importance:

- **Fovea-Centered Vision:** Visual acuity is at its highest at the fovea, with a sharp decline after 2 degrees from its center.
- **Steady Gaze:** To maintain the best visual acuity, the object of interest must remain steady on the fovea.

During rapid head movements, an intact vestibulo-ocular reflex ensures gaze stability by precisely moving the eyes within the orbit, counteracting head motion. equi fHIT assesses each canal individually by presenting optotypes at peak head velocity in specific canal planes and directions. The optotype is hidden, appears only when head rotating at peak velocity and then the optotype disappears the moment head velocity falls below the optimal test range-precisely timed sensors and specially built algorithms help in achieving this accurate timing requirement. Identifying accurately the optotype thus presented requires intact semicircular canal function in the plane and direction tested.

System Requirements

What You Need

To operate equi**f**HIT, you'll need:

- Laptop: i5 or above for efficient performance.
- TV Monitor: Minimum 1080p resolution for clear visuals,

equif**HIT** – Precision in Vestibulo-Ocular Reflex Assessment.

Elevate Your Diagnostic Capabilities **Today!**

Contact Information:

For inquiries and orders, please contact

 +91 7760017309

 contact@equidormedtech.com

 www.equidormedtech.com

 Bangalore, Karnataka, 560033



Disclaimer: equi **f**HIT is intended for professional medical use only.