I-Portal® Test Battery:

Subjective Visual Vertical and Horizontal (SVV / SVH)

Test Description:

The Subjective Visual Vertical and Horizontal tests present the patient with an offset line that is projected by the Pursuit Tracker™ laser target generator mounted on top of the I-Portal® NOTC patient chair. In an isolated testing environment the patient is asked to use the pushbuttons on the chair hand grips to orient the line to their perceived vertical or horizontal.

In addition to the standard test, there is an option to combine Subjective Visual Vertical (SVV) testing with Dynamic Unilateral Centrifugation (DUC) testing. (Note: see Dynamic Unilateral Centrifugation (DUC) test description)

Clinical Outcome:

- Provides fast, interactive utricle assessment.
- When combined with the DUC test provides data on the processing of otolith information in the higher brain centers (thalamus, vestibular cortex).

NKI test battery advantage:

- Isolated environment provides controlled testing and eliminates visual cues.
- The combined DUC/SVV test provides additional performance data on utricle function, observing a patient's change in perceived vertical during off-axis stimulation. During the test the patient experiences a tilt as the patient's eyes roll to offset the Gravitational Inertial Affect (GIA). Subsequently, they will set the angle of the SVV line to match this roll.

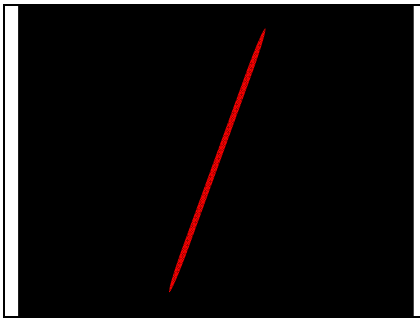
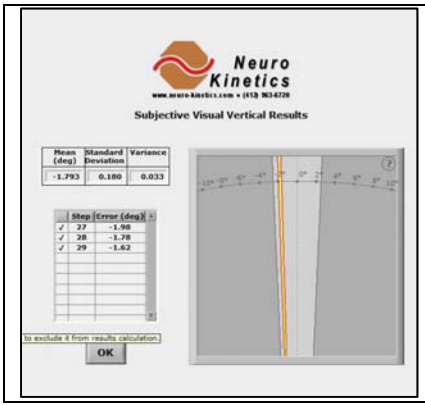
Reimbursement:

- No current Medicare reimbursement

Relevant Research Articles/Books:

- Furman, Joseph M., Martini, Alessandro, and Stephens, Dafydd, Textbook of Audiological Medicine; Clinical Aspects of Hearing and Balance, 2003.
- Guerraz, M., Gresty, M., Bronstein, A., et. al., Visual Vertigo: Symptom Assessment, Spatial Orientation and Postural Control, 2001, Brain, 124: 1646-1656.

Screen Captures / Illustrations:

	The Subjective Visual tests present the patient with an offset line that is projected by the Pursuit Tracker™ laser target generator mounted on top of the I-Portal® NOTC patient chair. The patient is asked to use the pushbuttons on the chair hand grips to orient the line to their perceived vertical or horizontal.
	Enhanced graphical data representation in test analysis provides a fast and easy means of visualizing performance.