Pupillary Evaluation – Down to a Science

What is the NPi™-100 Pupillometer?
The NPi™-100 Pupillometer is a hand-held, portable device which allows a reliable and objective measurement of pupillary light reflexes and pupil sizes. In addition, the NeurOptics® NPi™ (“Neurological Pupil Index™”) algorithm indicates whether a patient’s pupillary light response falls within the “normal” range (as defined by the NeurOptics® algorithm) or outside of the “normal” range.

Objective Measurement

“Our neuro/critical care team has found the Pupillometer has added another dimension to our clinical assessment by providing an objective measurement of pupillary response. It’s a great tool to look at neurologic deterioration in an objective way.”

--Mary Kay Bader
Neuroscience Clinical Nurse Specialist
Mission Regional Medical Center;
Brain Trauma Foundation Medical Advisory Board Member

Clinicians routinely check the pupils of critically ill and injured patients as it is the easiest way to evaluate a patient’s neurological status. Studies have shown that the current subjective measurement of pupil size and reactivity are very inexact and suffer from high inter-examiner variability, up to 39%. The NeurOptics® NPi™-100 Pupillometer is extremely accurate and provides consistent and repeatable measurements, regardless of the examiner’s level of skill and experience.

The NPi™-100, which grades the strength of the patient’s pupillary response to light on a scale of 0-5, is an objective and quantifiable value which can be trended over time. In this way, the clinician can detect more subtle pupillary changes indicative of neurological deterioration which may not be discernable to the naked eye and therefore intervene earlier.

Point and Shoot Precision

The NeurOptics® NPi™-100 Pupillometer is as fast and easy to use as a penlight and removes subjectivity from the evaluation of the pupillary light reaction.

“We have five units in our ICU. The nurses use it routinely to track pupillary changes. It is extremely helpful both for documentation and also to detect any early changes that could lead to early interventions (i.e., CT scans and subsequent surgery).”

--Dr. Jefferson Chen
Director of Neurotrauma, Legacy Health Systems.

“It’s great! The new equipment for the modern neurologist...”

--Stephan A. Mayer, MD, FCCM
Director, Neurological Intensive Care Unit New York Presbyterian Hospital/Columbia; President, Neurocritical Care Society
Selected References:


Features:

- Quantifies pupillary light reaction
- Measurement results displayed on color LCD
- Video playback of last measurement taken
- Compares size of one pupil to the other
- Enter Patient ID number (optional)
- Disposable single patient use headrest (prevents cross-contamination)
- Over 2,000 measurement results stored in memory; may also be printed (optional)
- Rechargeable lithium ion battery
- No user calibration required

From Pupil to Expert…Precision Guaranteed™