

Introducing The Diopsys® Neuro Optic Vision Assessment Visual Evoked Potential System

The Diopsys® Neuro Optic Vision Assessment (NOVA) Visual Evoked Potential (VEP) testing system provides a painless, noninvasive vision test that objectively measures the function of the entire visual pathway from the eyes to the visual center of the brain.

The VEP technology helps us determine how the eyes work with the brain in a way no other instrument or vision test can. The VEP test is ideally suited to diagnose and monitor the treatment of **Amblyopia, Glaucoma** and optic nerve diseases, including **Multiple Sclerosis**.



The Appointment

Please call our office to schedule the appointment at (574) 255-6363. We have VEP technicians available during our regular weekday hours and on Saturdays for the convenience of your patients.

Monday - Friday: 8 A.M. to 5 P.M.

Saturday: 9 A.M. to Noon

The patient should allow approximately 45 minutes for the office visit.

Test Results

You have the choice of receiving only the test results or the test results with diagnosis.

You will also be given the option of receiving the results by fax or mail. We will send the results within 24 hours of the procedure.

Payment, Insurance and Medicare Eligibility

Payment is required at the time of appointment. The test is Medicare eligible and we will file insurance claims.

We look forward to being of service to you and your patients. Please contact us with questions or to schedule an appointment.

Charles Shearer, OD
517 Lincoln Way East
Mishawaka, Indiana 46544
Telephone: (574) 255-6363
Fax: (574) 255-4182

Seeking Participants for Concussion Study

Dr. Shearer is seeking participants for his concussion study with Diopsys® NOVA VEP. He is focusing on athletes but will accept any concussed patient. Participating patients will receive free VEP testing and diagnosis. Please contact Dr. Shearer if you have a suitable patient.



**We are accepting referrals
for the diagnosis and
monitoring of**

AMBLYOPIA

GLAUCOMA

MULTIPLE SCLEROSIS

and other optic nerve diseases

**with the Diopsys®
NOVA VEP System**

CHARLES SHEARER, OD

*Specializing in Pediatric Vision Therapy,
Low Vision and Sports Vision Training*

The Benefits of VEP Testing to Your Patients

The test procedure is simple and non-threatening. After positioning sensory pads on the patient's head, our technician will start the test. Your patient won't have to make decisions, press buttons, concentrate or answer questions during testing. These are especially important benefits when testing infants, pre-verbal children, the elderly and those suffering from cognitive impairment. The tests usually take only four to six minutes per eye.

VEP tests provide data on vision abnormalities that are often difficult to detect, thereby allowing patients to receive the appropriate treatment sooner. VEP testing can also be used to monitor treatment or progression of disease. It is an excellent tool for the early diagnosis of Glaucoma.

The Benefits to Your Practice

VEP testing gives you accurate and objective results for patients where a diagnosis would be particularly difficult. Our VEP testing program will enable you to expand your patient care offerings without a financial or time investment in new equipment.

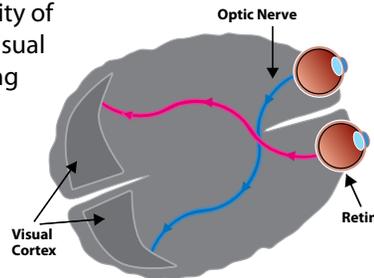


The Diopsys[®] Neuro Optic Vision Assessment Visual Evoked Potential System

How it Works

The Diopsys system elicits and computes Visual Evoked Potentials (VEPs). VEPs are measurable electrical signals from the electrophysiological activity—brain waves—at the visual cortex. VEPs occur when a patient observes a visual stimulus, created by the device, such as a flash of light or a pattern on a monitor.

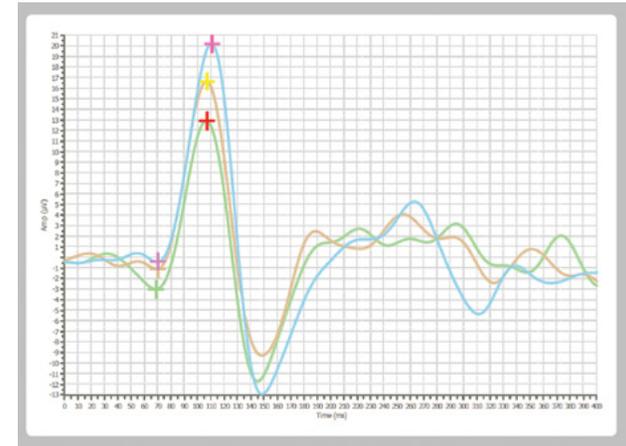
Before the testing procedure, a technician places three sensors on the patient's head to measure the VEP signal as it travels from the retina to the visual cortex. VEP results are a representation of the functional integrity of all levels of the visual pathway including the retina, optic nerve, optic radiations, and visual cortex.



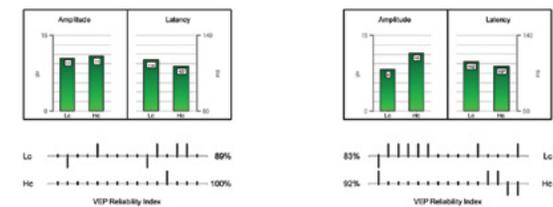
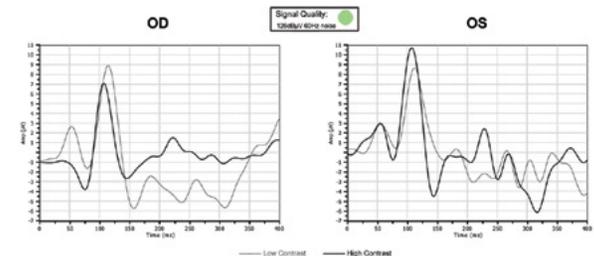
The Test Results

VEP waveforms are represented on graphs using amplitude and time (latency) measurements. In general terms, the amplitude, measured in microvolts, indicates the integrity of the neural structures including axons conducting information along the visual pathway. Latency, measured in milliseconds, indicates the time the electrical signal takes to travel from the retina to the visual cortex. The combination of amplitude and latency is helpful in determining the health of the visual pathway.

Our office also offers OCT testing and the new Diopsys[®] NOVA-pERG test for retinal function.



Test Results with User-Defined Protocol



Parameters	OD	OS	Difference	Remarks
Amplitude Low Contrast µV	19.5	8.2	2.3	
Amplitude High Contrast µV	19.9	11.5	0.8	
Latency Low Contrast ms	114.3	112.3	2.0	
Latency High Contrast ms	107.4	107.4	0.0	

Test Results with Fixed Protocol with Multi-Contrast Stimuli