



Neurology of South Jersey

Evoked Potentials

Evoked Potentials are electrical responses of the pathways of the nervous system to specific external stimuli. Hundreds, sometimes thousands, of responses are received, amplified, and averaged by a special machine. The final average response, in the form of a wave or waves, is plotted on a graph which is later examined and evaluated by our physician, who is highly trained and experienced in reading and interpreting the test results.

Visual evoked potentials evaluate the visual nervous system. Electrodes are attached to the patient's head with an adhesive. The patient is asked to stare at a strobe light, which acts as the stimulus. Visual evoked potentials are used to evaluate optic neuritis, retinal disorders, and various diseases which cause visual loss.

Brain stem auditory evoked potentials evaluate the auditory nervous system including the brainstem. Electrodes are attached to the patient's head and ear lobe. A series of sounds, tones, and clicks are the stimulus. Brainstem auditory evoked potentials are used to evaluate hearing and balance disorders.

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