

Wayne Neurology Testing

*******Please avoid any sedative medications or drugs including marijuana, at least 18 hours prior to any following scheduled testing. The patient needs to be alert during these tests*******

EEG – Electroencephalography

This test evaluates the electrical activity produced by the brain. Small electrodes are placed in strategic locations on the scalp with a small amount of paste. The test is painless and the patient is encouraged to relax during the study. The patient may be required to do a breathing exercise and/or have some flashes of lights flashed in their eyes (eyes remain closed) at different frequencies during the study.

Preparation: No weaves, extensions, braids, oil, gel, hairspray or leave-in conditioners in hair. No alcohol consumption. Hair must be freshly washed and dried the day of the study.

**** If you are scheduled for sleep deprived ****, please refrain from using caffeine and do not sleep more than 4 hours the night before. (Your appointment card will say sleep deprived, if that is what's scheduled).

Preparation: No weaves, extensions, braids, oil, gel, hairspray or leave-in conditioners in hair. No alcohol consumption. Hair must be freshly washed and dried the day of the study.

Evoke Potentials Auditory (AEP), Visual (VEP), Upper (SEP)

These tests evaluate the pathways of hearing (AEP), vision (VEP), and arms (SEP). The AEP stimulates the auditory nerves by using headphones and listening to a clicking noise. The VEP stimulates the optic nerves by using a flashing checkerboard pattern screen on a monitor, one eye at a time. The upper SEP stimulates the median nerve by using a small electrical impulse repetitively at the wrist and recording the response with electrodes on the scalp.

Preparation: No oils/lotions on arms or legs. No weaves, extensions, braids, oil, gel, hairspray or leave-in conditioners in the hair. Hair must be freshly washed and dried the day of study. (Please bring eyeglasses if having VEP testing).

VNG-- Videonystagmography

This is a series of tests to evaluate a cause for dizziness. Patients will be asked to wear a pair of goggles and perform various visual tracking maneuvers. The second part of the test involves lying down with the head held in several different positions, including a tilting-down position. The last part of the test consist of warm and cold air in the ears after inspecting for wax build-up. Some patients may experience dizziness in the last part for a few seconds. The entire test take approximately one hour.

Preparation: No eye makeup, false eyelashes, contact lenses. No alcohol (on the day of the test), or Antivert tablets (24 hours prior to testing).

Epleys Maneuver

This is done when VNG is abnormal.

EMG – Electromyography/NCS Nerve Conduction Studies

These are tests to evaluate the muscles and nerves of the arms and legs. A technologist performs the test for the NCS, and a physician for the needle portion of the exam. (NCS) Small sticky electrodes are placed on the muscles being evaluated and an electrical stimulus is applied to the nerve that activates the muscles. (EMG) A small thin needle is inserted into the muscle being evaluated. The physician listens to the activity of the muscle to determine if the muscle is functioning properly.

Preparation: No oils or lotion on arms, legs, hands or feet. Also, please wear loose clothing, up to elbows and knees, if you prefer not to change into a gown.