

## **NERVE CONDUCTION VELOCITY (NCV)**

A nerve conduction velocity (NCV) study is a non-invasive electrical test, which is performed to evaluate the integrity and health of the peripheral nervous system. A decrease speed of nerve conduction indicates nerve disease.

This procedure can only be performed by a certified Technologist who has received specialized training in nerve conduction velocity.

### **CONTRAINDICATIONS:**

- Cardiac pacemakers
- Other types of heart devices
- Pregnancy

Patients with any of the above should be evaluated and, if necessary, scheduled in a hospital setting.

### **INDICATIONS:**

- Nerve entrapment symptoms like carpal tunnel, cubital tunnel, and tarsal tunnel.
- Clinical exam with significant sensory loss, muscle wasting or impaired proprioception
- Diabetic patients have a 30% incidence of entrapment neuropathy and NCV may help define the type of neuropathy which will dictate the treatment.

### **PATIENT INSTRUCTIONS:**

The procedure takes approximately 60-minutes for a dual extremity study and 90 minutes for a four extremity study. Patients should not apply any lotion, cream, or oil to the body the day of the exam to ensure proper electrode adhesion and correct test recording.

Patients should wear loose fitting clothing. Watches, necklaces, bracelets and rings must be removed prior to the test.

### **EXAM RESULTS:**

All exam results will be interpreted by either Dr. Eugene Mar or Dr. Scott Goorman from Tucson Orthopedic Institute. A dictated report will be generated and an original report will be faxed to the Ordering Physician within five days of the patient study. Patient results will be communicated by the Ordering Physician. Patients will be notified by the technologist performing their study that they will be notified of their exam results by the Ordering Physician. The patient should contact the Ordering Provider if they do not receive their test results within a two week timeframe.

**PATIENT FINANCIAL RESPONSIBILITY:**

Patients will be presented with an Advanced Beneficiary Notice at the time of their visit indicating their financial responsibility if the study is not covered by their insurance carrier. The ABN will be maintained as part of the patient's medical record.

**HOURS OF OPERATION:**

**Eastside Imaging:**

Exams are performed on a scheduled appointment basis:  
Monday & Wednesday, 8:00 am –5:00 pm

**Northwest Imaging:**

Exams are performed on a scheduled appointment basis:  
Thursday & Friday, 8:00 am –5:00 pm