



NEURODIAGNOSTIC SERVICES

Transcranial Doppler Ultrasound
Carotid Duplex Ultrasound
Electroencephalography



Detect, Manage, and Treat Disease & Injury with the Nation's Largest Provider of Neurodiagnostic Services

Today, you need reliable, proven partners who align with your goals, who care as much about your patients and your success as you do. Delivering higher value healthcare is a top priority, and the key to better value is providing patients with the best quality care and outcomes while avoiding and reducing costs. Our customers know this. It's why thousands of surgeons trust us to provide Neurodiagnostic Services, Intraoperative Neuromonitoring, and Deep Brain Stimulation. We've been dedicated to improving value for three decades.

NEURODIAGNOSTIC SERVICES

The members of SpecialtyCare's Neurosurgical and Neurodiagnostic Services division support over 100,000 procedures annually. This market-leading volume means more experience when it matters most. As part of this group, our Neurodiagnostic Services team offers:

- Transcranial Doppler Ultrasound
- Carotid Duplex Ultrasound
- Electroencephalography

We are committed to our customers and patients, and we value ongoing training and education, advanced certification, and data-driven research and innovation. The result is unmatched expertise and consistent, exceptional performance, quality, and patient care.



Accredited and
Certified by The
Joint Commission



Accredited Facility
Vascular Testing

PROVIDING THE CERTAINTY OF CLINICAL EXPERTS

9 out of 10 customers say that SpecialtyCare positively contributes to the quality of patient care, that we are an integral part of their OR team, and that their surgeons are pleased with the quality of our service. Our team of clinicians is the industry's most certified and advanced degreed group for neurosurgical and neurodiagnostic services.

TRANSCRANIAL DOPPLER TESTING (TCD)

SpecialtyCare is the largest provider of Transcranial Doppler and cerebral hemodynamic monitoring and diagnostic services in the country. Our neurodiagnostic tests and procedures are vital tools that help physicians confirm or rule out the presence of cerebrovascular abnormalities. TCD determines the blood flow in the major arteries of the brain. Often referred to as "the physician's stethoscope" for the brain, TCD is a non-invasive, non-expensive ultrasonic exam that produces fast and reliable data with conclusions provided onsite, at the bedside, or in an outpatient testing. TCD can be used to:

- Record emboli in cerebral vessels in real time. TCD is the only technique that makes this possible, making it a key diagnostic tool in critical care.
- Evaluate patients with stroke or transient ischemic attack (TIA) at the bedside or in an outpatient setting. TCD permits the use of fewer conventional neuroimaging studies by allowing a less expensive, non-invasive evaluation of the cerebrovascular hemodynamic.
- Detect presence of cerebrovascular disease, which is characterized by obstructions and altered flow in cerebral vessels.
- Prevent intraoperative and postoperative complications of carotid endarterectomy (CEA) and carotid stenting procedures.
- Improve the management of patients with acute and non-acute traumatic brain injury (TBI), including athletes and military personnel.
- TCD is a vital tool in critical care settings for monitoring the natural course of subarachnoid hemorrhage (SAH) in the ICU, for evaluating the effect of medical treatment or intervention, for forecasting, and for identifying high-risk patients for onset of cerebral ischemia after SAH.

Our team is led by Alexander Razumovsky, PhD, FAHA, one of the world's foremost authorities on Transcranial Doppler methodology and its clinical applications. He participates personally in the training of all technologists and supervises their continuing medical education.

CAROTID DUPLEX (CD) TESTING

Carotid Duplex examination provides insightful information regarding the carotid arteries and allows for evaluation of blood flow to the brain. This non-invasive ultrasound can detect and assess possible underlying arterial disease and be used to:

- Evaluate the carotid arteries to decrease the risk of a future stroke.
- Investigate potential origin of symptoms, including dizziness, memory loss, stroke, loss of muscle control, and others that might result from stenosis.
- Screen patients for CEA. When combined with TCD and magnetic resonance angiography, CD can be an alternative to conventional angiography in the preoperative assessment.
- Determine the degree of carotid artery stenosis when carotid artery disease is suspected or confirmed. This informs whether surgical referral is warranted, or if the patient is best served with antiplatelet medication and serial follow-up.

ELECTROENCEPHALOGRAPHY (EEG)

An electroencephalogram tests electrical potentials of the brain, recording activity of the cortex to determine whether the brain is functioning at an altered level of awareness. EEG is used to diagnose and evaluate head injuries or tumors, encephalitis, encephalopathy, seizures, syncope, coma, narcolepsy, stroke, TIA, and other conditions where there is an altered state of awareness or consciousness.



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