Nicolet™ Sonara/tek™

Transcranial Doppler System

Sonara/tek™ TCD system allows for non-invasive assessment of blood flow velocities in the basal cerebral arteries. This method of measurement has been well documented in the medical literature as a useful diagnostic tool for examining the major arteries supplying blood to the brain.

Sonara/tek provides an economical and portable solution for performing TCD exams in a variety of locations – from hospital vascular departments to private clinics and mobile screening units.

Protocol-driven exams, high quality Doppler signal and multi-button advanced remote control are valuable time-saving tools. TCD exams can be performed quickly and more efficiently utilizing M-mode or multi-depth display, pre-configured or custom protocols and up to 120 seconds of spectral data available for real-time review.

M-mode in Diagnostic mode serves as an optimal acoustic window finder and vessel locator to enable quicker examination time. The M-mode in conjunction with the multi-depth display provides a hemodynamic overview of the circle of Willis thus assisting clinicians in their diagnosis.

Utilizing advanced graphics, customizable Spectral Summary reports offer right to left comparison facilitating identification of potential anomalies. Daily Exam Trending feature helps the clinician manage the course of patient treatment, for example, identifying potentially critical phases of vasospasm. The Sonara/tek TCD system gives the physician and researchers access to patient data in multiple export formats.

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Features at a Glance:

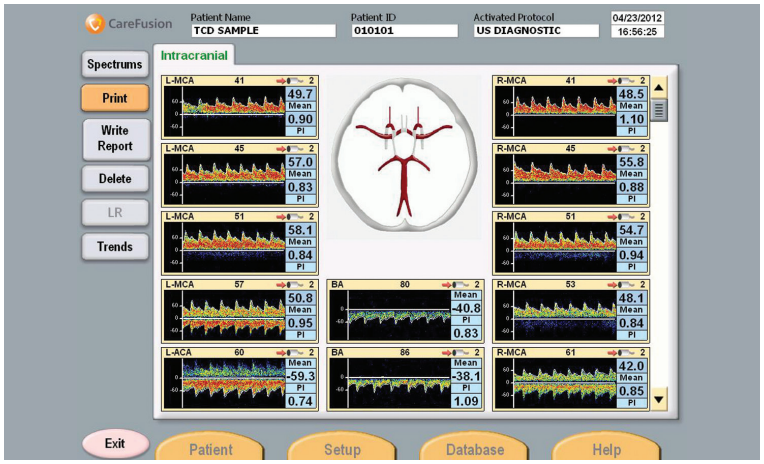
- High Quality Doppler Signal
- Customized Protocols and Reporting
- Unilateral Monitoring Options
- Single channel Emboli Detection with Variable Thresholds
- Specialty Tests: VMR and BHI
- Multi-button Advanced Remote Control
- Multiple Languages Capability
- Statistics and Trending Packages
- M-Mode and Multi-Depth Displays in Diagnostic and Monitoring Modes
- DICOM℠ Compatible.

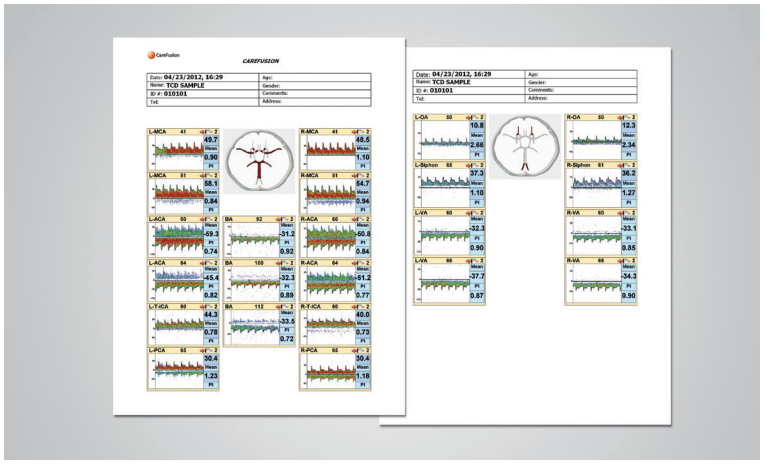
TCD is a useful tool for the evaluation of numerous neurovascular conditions in adult and pediatric patients:

- Diagnostic cerebrovascular and extracranial investigation
- Extended-term unilateral and bilateral cerebrovascular monitoring

The systems may be used in vascular labs, operating rooms, intensive care units, emergency departments and physician offices for the following applications:

- Detection of intracranial stenosis
- Detection of vasospasm due to subarachnoid hemorrhage
- Detection of arteriovenous malformations (AVMs)
- Assessment of collateral pathways
- Detection of embolic events
- Detection of PFO (Patent Foramen Ovale) with bubble test
- Track and establish trends of blood flow velocities
- Help assess surgical techniques through immediate feedback of the results of interventional procedures
- Breath Hold and Vasomotor Reactivity (VMR) tests





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