19th Annual

TRANSCRANIAL DOPPLER COURSE

Learn TCD Interpretation Through 100 Patient Studies

Endorsed by

world organisation of neurosonology

Live Online Course from Seattle, USA

September 5-7, 2025

25 AMA PRA Category 1 Credits™ provided by Washington State University

Course Description

This program is designed for physicians, advanced practice providers, sonographers, technologists, and other allied health professionals seeking to acquire the skill sets and knowledge base required to apply, perform, and interpret Transcranial Doppler (TCD) and Transcranial Doppler Imaging (TCDI) studies. Didactic lectures will provide learners with the opportunity to learn the fundamentals of using TCD in patient care and will cover the various settings in which TCD is performed, including the diagnostic laboratory, emergency room, neurocritical care unit, operating rooms and endovascular procedure rooms. In addition, this course will provide 100 TCD patient case studies supervised with various faculty members. Attendees of this course will be eligible to apply for the American Society of Neuroimaging RPNI examination for TCD.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Washington State University (WSU) Elson S. Floyd College of Medicine and TCD Education. The WSU Elson S. Floyd College of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The WSU Elson S. Floyd College of Medicine designates this live activity for a maximum of 25.5 *AMA PRA Category 1 Credits*™. Participants should claim only the credit commensurate with the extent of their participation in the activity.

Learning Objectives

- Identify basic principles of intracranial vascular anatomy, physiology, and pathophysiology
- Describe clinical applications of TCD
- Recognize normal and abnormal intracranial Doppler spectral waveforms
- Apply TCD and TCDI interpretation to 100 real patient case studies in a variety of clinical settings

Overview of Topics Covered

- Neuroanatomy
- Basic Physics and Instrumentation
- TCD: Non-imaging and Imaging Techniques
- Subclavian Steal
- Extrinsic Compression of Vertebral Arteries with Head Rotation
- Building a Neurovascular Lab
- Hemodynamics and Waveform Interpretation
- Extracranial Arterial Effects on Intracranial Hemodynamics: Collateral Flow and Vasomotor Reactivity
- Cerebral Emboli
- Endovascular Carotid Revascularization
- Intracranial Stenosis and Occlusion
- Traumatic and Non-traumatic Subarachnoid Hemorrhage and Vasospasm
- Patent Foramen Ovale
- Sickle Cell Disease
- Cerebral Circulatory Arrest

Faculty Members

- Aaron N. Stayman MD RPNI
- Emily L. Ho MD PhD RPNI
- Leni Karr RVT NVS CPC ELI-MP
- Brenda Rinsky, RVT, RDMS, NVS
- Krislynn Barnhart, BS, RVT, NVS
- Bonnie Brown, RVT, NVS
- Ahmad Siyar, RVT, NVS
- Paul P. Huang, MD, MSC, FACC, FSCAI, RPVI
- Alan J. Velander II, MD RPNI
- James F. Wang, MD RPNI
- Arthur Lam, MD, FRCP, FNCS, RPNI
- Michael Bender, MD PhD

Course Planning Committee

- Aaron N. Stayman MD RPNI
- Emily L. Ho MD PhD RPNI
- Leni Karr RVT NVS CPC ELI-MP
- Jill Sommerset RVT FSVU

Current as of August 16, 2025. Subject to change.

For more information, please go to TCD.education