

Neurovascular Registered Nurse (NVRN) Review Course Outline

Emergency Systems of Care: Prehospital and Intrahospital

- Emergency Medical Systems (8 domains of stroke care, EMS recognition tools, LVO tools)
- Emergency Department Care

Clinical Localization

- Cerebral anatomy and vascular territories
- Cytoarchitecture and localization
- Anterior, posterior, cerebellar, and brainstem localization
- Lacunar syndromes

Standardized Stroke Scales

- NIHSS, Modified Rankin Scale

Neuroimaging for stroke

- Neuroimaging basics (CT, CTA, MRI, CTP, angiography)
- Ultrasound imaging in acute stroke

Ischemic Stroke and Transient Ischemic Attack

- Pathophysiology of Ischemic Stroke and TIA
- Acute reperfusion therapies
- Post-reperfusion management and complications
- Stroke Etiology and Pathogenic Mechanism
- Secondary Prevention

Hemorrhagic Stroke

- Hemorrhagic Stroke introduction, risk factors and outcomes
- Intracerebral Hemorrhage Pathophysiology and diagnosis
- ICH score, hematoma expansion, reversal strategies
- ICH/IPH/IVH Management
- ICH Surgical Management
- AVM Background and management
- SAH background, pathophysiology, and diagnosis
- Aneurysmal SAH grading scales (Hunt & Hess, WFNS, Fisher)
- SAH Management
- Management of Intracranial Pressure

Complication Avoidance in Stroke

- VTE, Pressure Ulcers, Aspiration Pneumonia, Falls