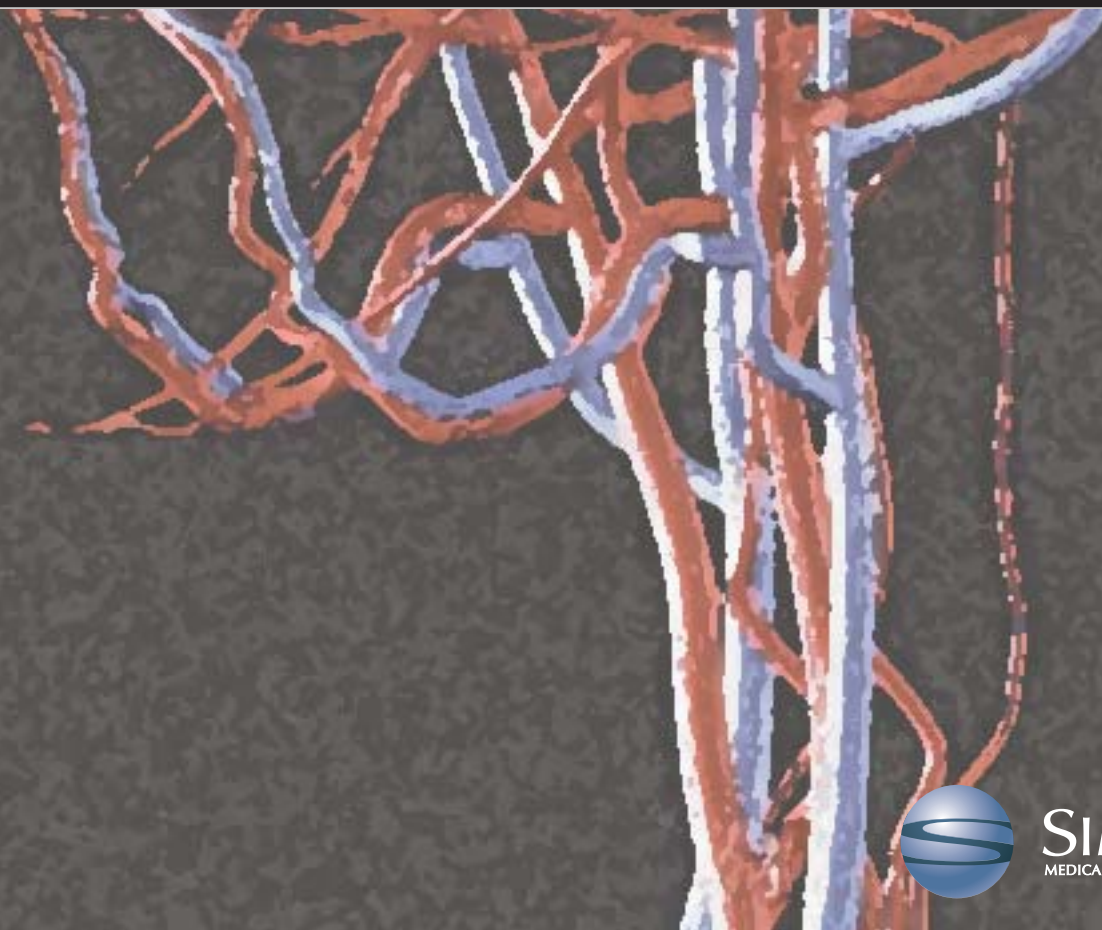


Expanding Your Competence and Confidence[®] In Managing Cerebral Aneurysms



SIMSUITE[®]
MEDICAL SIMULATION CORPORATION

Neuro Coil Course

Advances in technology are increasing the use of minimally invasive neuro-interventions, such as coiling, in treating cerebral aneurysms. Coil occlusion procedures are less invasive and decrease procedural recovery time for the patient. MSC's Neuro Coil Course allows healthcare providers to advance their skills in navigating small vessels within the neuro-vasculature, deployment of coils within an aneurysm, and deployment of self-expanding stents. The course includes multiple cases with a variety of patient presentations and anatomies.

Simulation Features

- Difficult navigation into accessory vessels
- Coil prolapse
- Detachment failure
- Aneurysm perforation
- Vasospasm
- Thrombotic complications
- Real-time, bi-plane fluoroscopic images with cine and road-mapping capabilities (digital subtraction)
- Adverse event management based on operator actions
- Unique and realistic patient anatomies
- Pharmacologic management
- Patient outcomes determined by operator decisions and technical abilities
- Hundreds of standard data points captured for immediate performance feedback

Target Audience

This course is suitable for all healthcare professionals involved in the care of patients undergoing endovascular treatment of cerebral aneurysms. Participants may include:

- Fellows and residents in training
- Interventional neuroradiologists
- Entire interventional lab team

Course Objectives

This course is designed to reinforce and enhance the participant's performance of:

- Intra-procedure management of patients undergoing endovascular coiling, embolization, and stenting procedures.
- Utilization of angiographic techniques to acquire optimal images for interpretation and intervention.
- Appropriate equipment selection and technique for intervention.
- Recognition and management of potential adverse events related both to specific patient risk factors and operator action.

Benefits

- Increased patient safety—ability to practice procedures in a risk-free environment
- Enhanced competence and confidence®
- Consistent training of the entire interventional lab team

Clinical Applicability

A cerebral aneurysm is an abnormal bulging and weakening of the vessel wall in the brain. It is estimated that up to one in 15 people in the United States will develop a brain aneurysm during their lifetime.¹ Brain aneurysms are often discovered when they rupture, causing bleeding into the brain or subarachnoid space, causing a subarachnoid hemorrhage. This can lead to a hemorrhagic stroke, brain damage, and death.

The annual incidence of aneurysmal subarachnoid hemorrhage in the U.S. exceeds 30,000 people. Ten to 15 percent of these patients will die before reaching the hospital and over 50 percent will die within the first 30 days after rupture. Of those who survive, about half will suffer some permanent neurological deficit.

Endovascular therapy and the use of coils in interventional neuroradiology has developed rapidly over the past 10 years and is now an accepted treatment alternative for many conditions such as cerebral aneurysms. The International Subarachnoid Aneurysm Trial (ISAT) found that, in patients equally suited for surgical clipping or coiling, endovascular treatment produces substantially better patient outcomes than surgery in terms of survival, free of disability, at one year. The relative risk of death or significant disability at one year for patients treated with coils was 22.6 percent lower than in surgically treated patients.²

¹www.brainaneurysm.com/aneurysm-treatment.html [accessed October 5, 2009]

²Molyneux, A., Kerr, R., Stratton, I., Sandercock, P., Clarke, M., Shrimpton, J., Holman, R. *International Subarachnoid Aneurysm Trial (ISAT) of neurosurgical clipping versus endovascular coiling in 2143 patients with ruptured intracranial aneurysms: a randomised trial.* *Lancet.* 2002; 360: 1267-74.

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