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To assess microsurgical and diagnostic cerebral angiography modules and their corresponding objective assessment scales as educational tools for European neurosurgical residents at the European Association of Neurosurgical Societies Resident Vascular Neurosurgery course, which was held in Prague, Czech Republic, on September 2013. Microsurgical skills and cerebral angiography are fundamental skills in vascular neurosurgery. There is a need to develop a simulation-based curriculum focusing on these skills for neurosurgical trainees worldwide.

The course consisted of 2 modules: microanastomosis and diagnostic cerebral angiography. In addition to an initial screening survey, each module was divided into 3 components: 1) a before didactic cognitive knowledge and technical skills testing, 2) a didactic lecture, and 3) an after didactic cognitive knowledge and technical skills testing. We compared the trainees' cognitive and technical scores from the before and after testing phases. Wilcoxon sum rank test was used to test statistical significance.

The knowledge test median scores increased from 63% and 68% to 80% and 88% ($P < 0.01$) on the microanastomosis and cerebral angiography modules, respectively. The practical hands-on simulation assessment median scores increased from 42% and 50% to 50.5% and 68% ($P < 0.01$) on the microanastomosis and cerebral angiography modules, respectively.

Our course suggests that a simulation-based vascular neurosurgery curriculum is feasible and may enhance resident knowledge and technical proficiency ¹⁾.

Events

Prague Neurosurgical Week was an event in Prague, Czech Republic on August 29th – September 2nd, 2018.

The Neurosurgical Week started with the meeting of World Academy of Neurological Surgery, a members only conference which will bring top quality faculty from the next two combined events. The International Meningioma Society held its annual conference along with the 13th International Conference on Cerebrovascular Surgery outside of Asia for the first time. The two main conferences enjoyed the presence of [WANS](#) members and a unique combination of joint plenary sessions with targeted breakfast seminars and dedicated afternoon sessions. In general, the topics will be

meningiomas, skull base, and cerebrovascular. The Week finished with a hands-on course on endoscopic neurosurgery organised by the WFNS Neurosurgical Anatomy Committee.

Publications

1: Vaskova M, Tichy M, Zamecnik J, Liby P, Kuzilkova D, Vicha A, Hrabeta J, Kalina T, Stary J, Hrusak O. [Cytometric](#) analysis of cell suspension generated by cavitron ultrasonic surgical aspirator in pediatric brain tumors. *J Neurooncol*. 2019 Mar 2. doi: 10.1007/s11060-019-03135-w. [Epub ahead of print] PubMed PMID: 30827009.

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