

Vascular Dementia and Dementia &

Neurological Disorders and Stroke

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Preservation of patients life quality in modern Microneurosurgery

In recent years several major technical advances particularly in the treatment of vascular malformations (aneurysms, AVMs, and cavernomas), brain and spinal tumours, and skull base surgery have been introduced into neurosurgery. These include refinements in microsurgical techniques, microscopic fluorescent techniques (e.g. 5-ALA, ICG-Angiography, etc.) for maximizing safe resection of intrinsic brain tumors and treatment of aneurysms and AVMs, introduction of neuroendoscopy, and routine usage of intraoperative neuromonitoring in appropriate cases. We present these latest technical advances in the treatment of vascular malformations as important and potentially curable causes of stroke, in neurooncology (glioma, meningioma, neurinoma, etc.) and in the resection of skull base lesions demonstrating their impact on preserving neurological integrity with resultant preservation of patients life quality after microneurosurgery. Appropriate selection and application of these new techniques under discussion in neurosurgery has resulted in a better outcome after microsurgical treatment of brain and spinal tumors, vascular malformations, and skull

base lesions. This includes more radical tumor resection and avoidance of new neurological deficits with preservation of patients neurological integrity, prolonged life expectancy in malignant brain tumors and preservation of patients life quality after surgical treatment of vascular malformations.

Speaker Biography

Hisham Bassiouni is Director of Neurosurgical Departments of Klinikum St. Marien Amberg and Klinikum Weiden and Associate Professor of Department of Neurosurgery. He is the full member of German Neurosurgical Society (DGNC), European Neurosurgical society (EANS), German skull base society (DGSB). He completed his Neurosurgical training at University Hospital Aachen and University Hospital Essen, Germany. He is the first author of 13 publications in high-ranked neurosurgical journals and authored several chapters in international neurosurgical reference books. Also, the peer-reviewer for several international journals including Brain Research, Neurologia India, Journal of Neurology, Clinical Neurology & Neurosurgery, Neurosurgical Review, Surgical Neurology etc. His neurosurgical experience includes microsurgery on > 2000 brain tumors and > 800 intracranial vascular malformations with routine application of latest technology including neuronavigation, microscopic fluorescent techniques, intraoperative monitoring, neuroendoscopy etc.

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