Application of new techniques in neurosurgery for improving patient’s outcome and postoperative life quality

In recent years several major technical advances particularly in the treatment of brain and spinal tumors, vascular malformations 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 maximal safe resection of intrinsic brain tumors and treatment of aneurysms and AVMs, introduction of neuroendoscopy and routine usage of intra-operative neuromonitoring in appropriate cases. We present these latest technical advances in the field of neurooncology, for the resection of skull base lesions and for the treatment of vascular malformations demonstrating their impact on preserving neurological integrity with resultant preservation of patient’s life quality after micro neurosurgical resection of tumors (e.g. Glioma, meningioma, neurinoma/schwannomas, etc.) treatment of vascular malformations (aneurysm, AVM, cavernoma) and treatment of skull base lesions. 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 and safer tumor resection with avoidance of new neurological deficits and with preservation of patient’s neurological integrity, prolonged life expectancy in malignant brain tumors and preservation of patient’s life quality after surgery.

Biography

Hischam Bassiouni is an Associate Professor of Neurosurgery. He is the Director of two Neurosurgical Clinics at two major academic teaching hospitals, (Klinikum Amberg and Klinikum Weiden) in Bavaria, Germany. He is also the Member of German Neurosurgical Society, European Neurosurgical Society and German Skull Base Society. He had his Neurosurgical training at University Hospital Aachen and University Hospital Essen, Germany. His neurosurgical and scientific sub-specializations include neuro-oncology, neurovascular surgery, skull base surgery and neuro-pediatric surgery. He is the first author of 13 publications in high-ranked Neurosurgical journals and has authored several chapters in international neurosurgical reference books.

hibassiouni@yahoo.de

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