Modern image-guided surgical strategies in neurosurgical oncology

The primary endpoint in neurosurgical oncology is preserving the functional integrity of eloquent areas while maximizing surgical resection. Therefore, neurosurgical planning and oncological strategies should take into count the onco-functional balance to reach the maximal safe resection (MSR) of the tumor. Preserving crucial brain function is directly correlated with an increasing quality of life, especially in high-grade gliomas. In this context, advanced image-guided surgical strategies such as intraoperative-MRI, resting-state fMRI, transcranial magnetic stimulation, and intraoperative ultrasound are progressively establishing their role as fundamental tools in neuro-oncology.

This special issue aims to focus on pre-surgical and peri-operative image strategies able to assist the surgeon to reach the MSR, looking on the quality of life of neurosurgical patients.

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