

Intraoperative ultrasound in intracranial meningioma

Intraoperative ultrasound in intracranial meningioma is a useful intraoperative technique.

The method enables image-guided resection through narrow approaches that minimise traction. Power Doppler angiography allows the identification of feeding vessels that may be coagulated to limit bleeding. Likewise, normal arteries can be avoided during surgery. The tumour capsule is often surprisingly easy to remove from the arachnoid membrane after gross intracapsular tumour reduction¹⁾.

When appropriately applied to assist surgical procedures for intracranial meningioma, it could offer very important intraoperative information (such as the tumor supplying vessels) that helps to improve surgical resection and therefore might reduce the postoperative morbidity²⁾.

¹⁾

Solheim O, Selbekk T, Lindseth F, Unsgård G. Navigated resection of giant intracranial meningiomas based on intraoperative 3D ultrasound. Acta Neurochir (Wien). 2009 Sep;151(9):1143-51. doi: 10.1007/s00701-009-0395-1. Epub 2009 May 14. PubMed PMID: 19440654.

²⁾

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