



# Intraoperative Ultrasound Imaging in Neurosurgery: Comparison with CT and MRI

*Ludwig M. Auer, Vera Van Velthoven*

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Intraoperative ultrasound is the first and, at present, only direct method available for depicting cerebral structures during neurosurgery. This atlas is a practical introduction to intraoperative ultrasound in neurosurgery and a guide to anatomy and pathomorphological diagnosis. A short introduction to the technical basis of ultrasound is given first. It is followed by instructions for practical application of the method in the operating theater. The next, comprehensive chapter presents various intracranial pathomorphological changes in the ultrasound picture and compares them to the familiar computer tomography and MRI images. A separate chapter deals with individual aspects of actual application during neurosurgical operations: ultrasound biopsy, puncture and endoscopy. This volume is an excellent source of information for the practical application of intraoperative ultrasound.

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