

Preoperative planning

Preoperative planning refers to the structured process of evaluating and preparing for a surgical procedure before it takes place. It involves the analysis of diagnostic imaging, anatomical considerations, surgical risks, and the selection of optimal approaches and tools.

In [neurosurgery](#), preoperative planning is critical for minimizing complications, preserving neurological function, and tailoring the intervention to the patient's unique [neuroanatomy](#)—especially in complex cases such as [brain tumor](#), [vascular malformation](#), or [spinal pathology](#).

New technologies like [3D virtual reality](#) and [3D printing](#) have enhanced preoperative planning by enabling realistic rehearsals and improved spatial understanding.

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