

Brain metastases resection

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Truckenmueller et al. in a prospective study assesses the [acceptance](#) and [usefulness](#) of augmented 360° [virtual reality](#) (VR) videos for early student education and preparation in the field of [neurosurgery](#).

Thirty-five third-year [medical students](#) participated. Augmented 360° VR videos depicting three [neurosurgical procedures](#) ([lumbar discectomy](#), [brain metastases resection](#), [clipping](#) of an aneurysm) were presented during [elective seminars](#). Multiple [questionnaires](#) were employed to evaluate conceptual and technical aspects of the [videos](#). The analysis utilized ordinal logistic regression to identify crucial factors contributing to the learning experience of the videos.

The videos were consistently rated as good to very good in [quality](#), providing detailed [demonstrations](#) of [intraoperative anatomy](#) and surgical [workflow](#). Students found the videos highly useful for their learning and preparation for surgical placements, and they strongly supported the establishment of a VR lounge for additional self-directed learning. Notably, 81% reported an increased interest in neurosurgery, and 47% acknowledged the potential influence of the videos on their future choice of specialization. Factors associated with a positive impact on students' interest and learning experience included high technical quality and comprehensive explanations of the surgical steps.

This study demonstrated the high acceptance of augmented 360° VR videos as a valuable tool for early student education in neurosurgery. While hands-on training remains indispensable, these videos promote conceptual knowledge, ignite interest in neurosurgery, and provide a much-needed orientation within the operating room. The incorporation of detailed explanations throughout the surgeries with augmentation using superimposed elements, offers distinct advantages over simply observing live surgeries ¹⁾

¹⁾

Truckenmueller P, Krantchev K, Rubarth K, Früh A, Mertens R, Bruening D, Stein C, Vajkoczy P, Picht T, Acker G. Augmented 360° 3D virtual reality for enhanced student training and education in neurosurgery. World Neurosurg. 2024 Jan 23:S1878-8750(24)00103-7. doi: 10.1016/j.wneu.2024.01.092. Epub ahead of print. PMID: 38272307.

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