Review of: "Navigation of frameless fixation for gamma knife radiosurgery using fixed augmented reality"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

Although it's a preclinical phantom study, the use of AR for patient positioning in Gamma Knife Radio Surgery is extremely promising, mainly for elderly patients who cannot withstand long beam-on times.

Both using a segmented soft tissue model from the positioning CBCT scan and using a LiDAR scan model yielded similar accuracy, a step towards reducing non-treatment focused radiation in GKRS. The study and phantom design are both accurate and well thought out.

A further step towards the clinical application of this system, possibly for selected patients with large intracranial metastases, as the author suggests, ought to be done.