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Freehand SPECT and the “tracked approach” for 3D intraoperative nuclear imaging

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The combination of tracking systems and intraoperative nuclear probes has been proposed recently as a promising way of enabling 3D intraoperative nuclear imaging. The particular experience of freehand SPECT, where a low energy gamma probe served as nuclear probe, has shown the feasibility of this approach in initial pilot studies. In the process several issues have emerged to be considered due to the fundamentally different nature of this imaging modality. Concepts, problems and solutions arising from this new technology will be dealt with in detail based on different experiences of the Munich research group.

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