

AbstractID: 6645 Title: MRI simulation: Evaluation of MRI based treatment plans for prostate cancer

MRI produces better soft tissue delineation than CT and has been shown to provide improved target delineation for prostate cancer patients. We have investigated the advantages and disadvantages of treatment planning directly on MRI volume data sets including target coverage and delineation, distortion and feasibility of routine use. We compare plans performed on a spiral CT simulator and those from an open magnet (0.23 T) MRI. We also generate digitally reconstructed radiographs from the MRI data sets for comparison with portal images. The work demonstrates that MRI simulation is feasible.

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