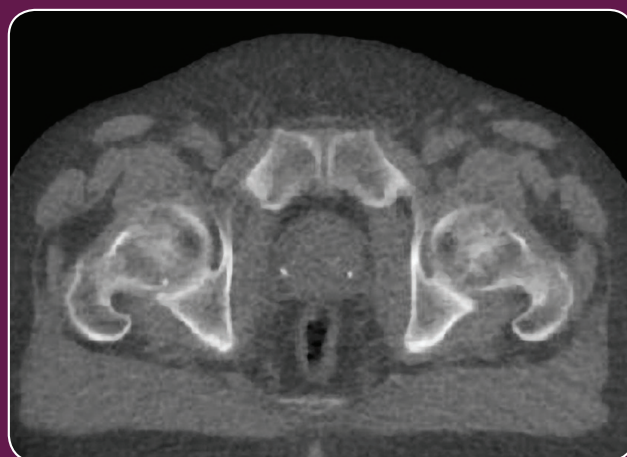


fan beam MVCT image quality

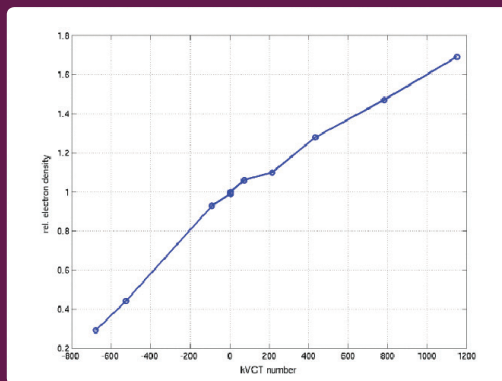
Meeks SL, Harmon JF, Langen KM, Willoughby TR, Wagner TH, Kupelian PA. Performance characterization of megavoltage computed tomography imaging on a helical tomotherapy unit. *Medical Physics*, 2005; 32:8 : 2673-2681

"The uniformity and spatial resolution of MVCT images generated by the HiArt are comparable to that of diagnostic CT images... low-dose MVCT scans provide sufficient contrast to delineate many soft-tissue structures."

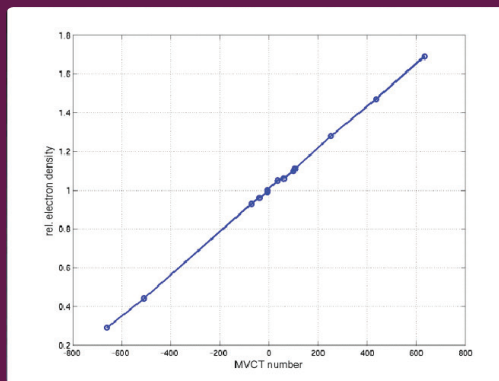


"Axial slice through a MVCT volume acquired for a patient undergoing prostate radiotherapy. Contrast resolution is sufficient to allow the identification of bony anatomy and relevant soft-tissue anatomy, including the prostate and rectum."

MVCT to electron density calibration curves



kVCT



MVCT

"CT numbers correlate directly with electron density, thereby providing the potential for reconstruction of the actual dose delivered on a daily basis, in addition to simple anatomic structure alignment."