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Name of Journal: *World Journal of Radiology*

ESPS Manuscript NO: 22131

Manuscript type: Original Article

Retrospective Study**Quantitative study of prostate cancer using 3D fiber tractography**Sandeep Hedgire, Alexey Tonyushkin, Aoife Kilcoyne, Jason A. Efstathiou,
Peter F Hahn, Mukesh Harisinghani**Abstract**AIM: To investigate feasibility of a quantitative study of prostate cancer using
3D fiber tractography.

METHODS: In this institutional review board approved retrospective study, 24 men with biopsy proven prostate cancer underwent prostate magnetic resonance imaging (MRI) with an endorectal coil on a 1.5 T MRI scanner. Single shot echo-planar diffusion weighted images (DWI) were acquired with $b=0$, 600 s/mm², six gradient directions. Open-source available software TrackVis and its Diffusion Toolkit was used to generate Diffusion Tensor Imaging (DTI) map and 3D fiber tracts. Multiple 3-dimensional spherical regions of interest (ROI) were drawn over the areas of tumor and healthy prostatic parenchyma to measure tract density, apparent diffusion coefficient (ADC) and fractional anisotropy (FA).

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were ... A 3D reconstruction of fiber tract orientations of the whole prostate was ...

Quantitative evaluation of the regions of interest (ROIs) showed a mean ADC ...