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Name of Journal: *World Journal of Radiology*

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Basic Study

22

Renal ablation using magnetic resonance-guided high intensity focused ultrasound:
Magnetic resonance imaging and histopathology assessment

7

Maythem Saeed, Roland Krug, Loi Do, Steven W Hetts, Mark W Wilson

Abstract

AIM: To use magnetic resonance guided high intensity focused ultrasound (MRg-HIFU), MRI and histopathology for noninvasively ablating, quantifying and characterizing ablated tissue.

METHODS: Six anesthetized/mechanically-ventilated pigs underwent single/double renal sonications ($n = 24$) using a 3T-MR guided HIFU (1.1MHz frequency and 3000J-4400J energies). T2-weighted fast spin echo (T2-W), perfusion saturation recovery gradient echo and contrast enhanced (CE) T1-weighted (T1-W) sequences were used for treatment planning, temperature monitoring, lesion visualization, characterization and quantification, respectively. Histopathology was conducted in excised kidneys to quantify and characterize cellular and vascular changes. Paired Student's t-test was used and a P-value <0.05 was considered statistically significant.

RESULTS: Ablated parenchyma could not be differentiated from normal parenchyma on T2-W or non-CE T1-W sequences. Ablated lesions were visible as hypoenhanced

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4 Aug 2014 ... MR-guided high-focused ultrasound for renal sympathetic ... Denervation is currently mainly performed using catheter-based transarterial ... of renal norepinephrine (NE) concentration were performed to assess in MRI appearance with a focal increase in T2 signal intensity ... Histopathologic assessment.

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Treatment with HIFU is the only one of these alternatives to surgery that is truly ... including those of the prostate, liver, breast, kidney, bone and pancreas, and to be based on real-time assessment of tissue response for the foreseeable future. Y. MR imaging-guided focused US ablation of breast cancer: histopathologic....

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18 Mar 2015 ... Animals were then imaged on a 7T MR scanner with several protocols. ... Magnetic resonance guided focused ultrasound (MRgFUS) is a noninvasive method for ... High intensity focused ultrasound (HIFU), when applied via an ... was visualized by MRI and the images correlated with tissue histology [31].

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