

Breath-hold Fast Recovery Fast Spin Echo versus Conventional Non-Breath-hold Fast Spin Echo T2-Weighted MR Imaging of Focal Liver Lesions

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Abstract

Introduction: We compare the breath-hold fast recovery fast spin echo (BHFRFSE) T2-weighted and non-breath-hold fast spin echo (NBHFSE) T2-weighted sequences in image quality and lesion characterisation of focal liver lesions. **Materials and Methods:** Fat-suppressed T2-weighted magnetic resonance (MR) images obtained with the 2 sequences (BHFRFSE and NBHFSE) in 79 patients with 113 liver lesions were analysed retrospectively. The image quality and nature of the lesions were evaluated by 2 experienced radiologists. **Results:** Based on receiver operating characteristic curve analysis, lesion characterisation was comparable for both sequences. The image quality of BHFRFSE was significantly better than that of NBHFSE. The NBHFSE missed 4 malignant lesions while BHFRFSE missed 2 malignant lesions. **Conclusion:** BHFRFSE performs similarly to NBHFSE in image quality and liver lesion characterisation.

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