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董越,王琰,王绍武,郑淞文,姜原,王茹欣,宁殿秀,宋清伟.MR弥散加权成像诊断股骨头坏死[J].中国医学影像技术,2012,28(2):352~355

## MR弥散加权成像诊断股骨头坏死

### MR diffusion imaging in diagnosis of femoral head necrosis

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中文关键词:磁共振成像 股骨头坏死 表观弥散系数

英文关键词:Magnetic resonance imaging Femoral head necrosis Apparent diffusion coefficient

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#### 中文摘要:

#### 英文摘要:

Objective To assess the value of MR DWI in diagnosis and staging of femoral head necrosis. Methods Thirty-four patients with femoral head necrosis (40 hip joints) and 90 healthy volunteers (1 hip joints) were included. The patients were divided into 3 groups according to Steinberg stage (I - III of group 1, III - III of group 2, V - VII of group 3). SE-EPI-DWI was performed to obtain images w values of 300, 500 and 700 s/mm², respectively. ADC maps were obtained with Functool software. ADC values of femoral head were measured using 100 mm² ROIs, and then were statistically analy Results With b value of 300, 500 and 700 s/mm², the mean ADC value of femoral head necrosis was  $(13.00 \pm 2.54) \times 10^{-4}$  mm²/s,  $(10.73 \pm 3.10) \times 10^{-4}$  mm²/s and  $(8.77 \pm 1.55) \times 10^{-4}$  mm²/s, respect while the mean ADC value of healthy femoral heads was  $(3.63 \pm 1.34) \times 10^{-4}$  mm²/s,  $(1.87 \pm 0.76) \times 10^{-4}$  mm²/s,  $(1.49 \pm 0.53) \times 10^{-4}$  mm²/s. There were significant statistical differences in ADC value normal femoral head and femoral head necrosis (all P < 0.05). ADC values of femoral head necrosis in group 1 were minimum, and were maximum in group 2, then reduced in group 3 (P < 0.05). Conclu DWI can display the femoral head necrosis of the femoral head.

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