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39  
Diffusion-weighted and diffusion-tensor imaging of normal and diseased uterus

Duygu Kara Bozkurt, Murat Bozkurt, Mehmet Ali Nazlı, Ilhan Nahit Mutlu, Ozgur Kılckesmez

## Abstract

Owing to technical advances and improvement of the software, diffusion weighted and diffusion tensorimaging (DWI and DTI) greatly improved the diagnostic value of magnetic resonance imaging (MRI) of the pelvic region. These imaging sequences can exhibit important tissue contrast on the basis of random diffusion (Brownian motion) of water molecules in tissues. Quantitative measurements can be done with DWI and DTI by apparent diffusion coefficient (ADC) and fractional anisotropy (FA)

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