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12

Diffusion-weighted magnetic resonance imaging in cancer: Reported apparent diffusion coefficient, *in-vitro* and *in-vivo* reproducibility

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Abstract

There is considerable disparity in the published apparent diffusion coefficient values across different anatomies. Institutions are increasingly assessing repeatability and reproducibility of the derived apparent diffusion coefficient to determine its variation, which could potentially be used as an indicator in determining tumour aggressiveness or assessing tumour response. In this manuscript, a review of selected articles published to-date in healthy extra-cranial body DW-MRI is presented, detailing reported apparent

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Baseline patient reproducibility studies should be part of study designs. Diffusion-weighted MRI depends mostly on images obtained with b value >100 sec/mm² ...

Multiexponential decay components which affect the calculated ADC values.

Diffusion-weighted MR imaging in liver metastases of ...

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Functional magnetic resonance (MR) imaging, particularly the extracranial ... comparing [apparent diffusion coefficient](#) (ADC) values from different studies or from values measured at 1.5 or 3.0 T were [found](#) in any of the evaluated anatomic regions. [In vitro and in vivo](#) repeatability of abdominal [diffusion-weighted MRI](#).