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### Retrospective Study

**Intravoxel incoherent motion diffusion-weighted MR imaging for predicting the histological grade of hepatocellular carcinomas: Comparison with conventional DWI**

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### Abstract

#### AIM

To compare intravoxel incoherent motion (IVIM)-derived parameters with conventional DWI parameters in predicting the histological grade of hepatocellular carcinomas (HCCs) and to evaluate the correlation between the parameters and the histological grades.

#### METHODS

A retrospective approved study was performed. Sixty-two patients with surgically confirmed HCCs underwent diffusion-weighted magnetic resonance imaging with twelve  $b$  values (10-1200 sec/mm<sup>2</sup>).

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... incoherent" motion (ie diffusion), whereas signal is not affected by intravoxel "coherent" motion ... in DWIBS because of signal loss and artifacts due to incoherent tissue motion ... and signal intensity losses, stronger blurring artifacts, and more pronounced motion artifacts degraded ...

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