



## Advanced Radiological Diagnostics in Hepatocellular Carcinoma and Cirrhosis

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### Message from the Guest Editor

Hepatocellular carcinoma (HCC) has contrast hyper-enhancement in the arterial phase and hypo-enhancement in the portal or delayed phase. The diagnosis of HCC has been improved by capturing these patterns of enhancement via contrast-enhanced ultrasonography (CEUS), dynamic multi-detector computer tomography (CT) and contrast-enhanced magnetic resonance (MR) with Gd-DTPA/Gd-EOB-DTPA. CEUS is useful for detecting hypervascular HCCs not detected in B-mode and for diagnosing the histological grade of HCCs. Dual-energy CT represents a new CT technology that increases the conspicuity of hypervascular lesions by using the low-voltage setting.

The assessment of liver fibrosis by imaging is increasing the attention around clinical management. MR elastography is a noninvasive MR imaging technique that allows for noninvasive detection and stratification of liver fibrosis. Ultrasound elastography techniques using different excitation methods also have been used to investigate liver stiffness measurements. The aim of this Special Issue is to clarify the new advantages of HCC and liver fibrosis imaging.





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