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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 65420

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

**Novel model combined contrast-enhanced ultrasound with serology predicts
hepatocellular carcinoma recurrence after hepatectomy**

Hai-Bin Tu, Li-Hong Chen, Yu-Jie Huang, Si-Yi Feng, Jian-Ling Lin, Yong-Yi Zeng

Abstract

BACKGROUND

Surgery is the primary curative option in patients with hepatocellular carcinoma (HCC).

Pre-operative model combining contrast-enhanced ultrasound with



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Cited by: 2 Author: Qiu Ping Ma, Xue lei He, Xue lei He, Kai Li, J...

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Irregular vascular pattern by contrast-enhanced ...

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Oct 17, 2016 · Radiofrequency ablation (RFA) is considered the most effective treatment for early-stage **hepatocellular carcinoma** (HCC) patients unsuitable for resection. However, poor outcome **after** RFA has occasionally been reported worldwide. To **predict** such an outcome, we investigated imaging findings using **contrast-enhanced** ultrasonography (CEUS) with Sonazoid and serum tumor markers before RFA.

Cited by: 6 Author: Hitomi Takada, Kaoru Tsuchiya, Yutaka Yas...

Publish Year: 2016

(PDF) Recurrence Predictive Models for Patients with ...

<https://www.researchgate.net/publication/365692227>

Contrast-enhanced Ultrasound



Contrast-enhanced ultrasound (CEUS) is the application of ultrasound contrast medium to traditional medical sonography. Ultrasound contrast agents rely on the different ways in which sound waves are reflected from interfaces between substances. This may be the surface of a small air bubble or a more complex structure. Commercially available contrast media are gas-filled microbubbles that are administered intravenously to the systemic circulation. Microbubbles have a high degree of echogenicity (the ability of an object to reflect ultrasound waves). There is a great difference in echogenicity between the gas in the microbubbles and the soft tissue surroundings of the body. Thus, ultrasonic imaging using microbubble contrast agents enhances the ultrasound backscatter, (reflection) of the ultrasound waves, to produce a sonogram with increased contrast due to the high echogenicity difference. Contrast-enhanced ultrasound can be used to image blood perfusion in organs, measure blood flow rate in the heart and other organs, and for other applications.

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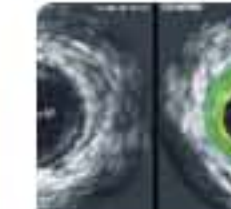
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