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Retrospective Study

Accurate ultrasonography-based portal pressure assessment in patients with hepatocellular carcinoma

Zhang Y *et al.* Portal pressure assessment in patients with HCC

Yu Zhang, Zhong Wang, **9** Yi-Fan Wu, Zhen-Dong Yue, Hong-Wei Zhao, Lei Wang, Zhen-Hua Fan, Fu-Liang He, Fu-Quan Liu

Abstract

BACKGROUND

Portal pressure is of great significance in the treatment of hepatocellular carcinoma (HCC), but direct measurement is complicated and costly; thus, non-invasive measurement methods are urgently needed.

AIM

To investigate whether ultrasonography (US)-based portal pressure assessment could replace invasive transjugular measurement.

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The present study investigates whether a non-invasive Computed Tomography (CT)-based assessment could be as accurate as the invasive transjugular measurement. METHODS: A cohort of patients with hepatocellular carcinoma (HCC) treated by resection (n=36) or transplantation (n=39) was selected (mean age: 61±9.2years, male/female ratio: 4/1).

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Accurate computed tomography-based portal pressure assessment in patients with hepatocellular carcinoma. ... -based assessment could be as accurate as the invasive transjugular HVPG measurement. We hypothesized that a combination of CT-based parameters could allow an accurate quantitative HVPG estimation.

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The most accurate tool for portal pressure assessment is **hepatic venous pressure gradient (HVPG)**