

HOMA2-IR tied to hepatocellular carcinoma risk in hepatitis B

19 November 2016



confidence interval, 1.13 to 9.31). The correlation was attenuated after further adjustment for obesity, hypertension, and diabetes (hazard ratio, 1.93; 95 percent confidence interval, 0.57 to 6.51). In patients without overt metabolic abnormalities (hypertension, diabetes, and [metabolic syndrome](#)), but not in those with overt metabolic abnormalities, HOMA2-IR was an independent factor associated with HCC.

"HOMA2-IR was associated with the risk of HCC, indicating that HOMA2-IR can be a useful tool for stratifying the risk of HCC in chronic HBV-infected patients, particularly in patients without overt [metabolic abnormalities](#)," the authors write.

More information: [Full Text \(subscription or payment may be required\)](#)

(HealthDay)—Insulin resistance assessed by homeostasis model assessment index (HOMA2-IR) correlates with the risk of hepatocellular carcinoma (HCC) in patients with chronic hepatitis B virus (HBV) infection, according to a study published online Nov. 11 in the *Journal of Gastroenterology and Hepatology*.

Jung Hee Kim, from the Sungkyunkwan University School of Medicine in Seoul, South Korea, and colleagues examined whether HOMA2-IR can stratify HCC risk in a retrospective cohort of 1,696 patients with chronic HBV.

The researchers found that 1.4 percent of patients developed HCC. The incidence rate of HCC was higher for patients with higher versus lower HOMA2-IR values (1.7 versus 0.5 percent for HOMA2-IR >1.200 versus ≤1.200; P = 0.009). In a multivariable model adjusted for age, sex, cirrhosis, and HBV DNA levels, HOMA2-IR was a significant factor associated with HCC development (hazard ratio, 3.25; 95 percent

Copyright © 2016 [HealthDay](#). All rights reserved.

APA citation: HOMA2-IR tied to hepatocellular carcinoma risk in hepatitis B (2016, November 19)
retrieved 27 April 2021 from
<https://medicalxpress.com/news/2016-11-homa2-ir-tied-hepatocellular-carcinoma-hepatitis.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.