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Impact of direct acting antivirals on occurrence and recurrence of hepatocellular carcinoma: Biologically plausible or an epiphenomenon?

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Abstract

Hepatocellular Carcinoma (HCC) is a major cause of morbidity and mortality worldwide. Chronic Hepatitis C virus infection (HCV) is the most common cause of HCC in many European countries, Japan and Pakistan. Introduction of the new Direct Acting Antivirals (DAAs) has revolutionized the management of HCV worldwide, with high rates of Sustained Virologic Response (SVR) in patients who could not have tolerated the previous interferon (IFN) based treatments. However, recently there have been reports raising caution about the long term effects of DAAs, particularly a possible increased risk of HCC. Therefore this review explores the current molecular studies as well as clinical data that investigate the impact of DAAs on occurrence and recurrence of HCC.

Key words: Hepatocellular Carcinoma, Direct Acting Antivirals, Hepatitis C

Core tips: Following the publication of several studies investigating the role of DAAs in progression to HCC among HCV patients, our aim is to consolidate the existing literature as well as to identify whether there is a particular subset of the population in which this phenomenon was witnessed. Currently, it appears to be a class effect rather than an individual

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