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Pathological characterization of occult hepatitis B virus infection in hepatitis C virus-associated or non-alcoholic steatohepatitis-related hepatocellular carcinoma

Elalfy H *et al.* Occult HBV in HCV or NASH related HCC

Hatem Elalfy, Tarek Besheer, Dina Elhammady, Ahmed El Messery, Shaker Wagih Shaltout, Mohamed Abd El-Maksoud, Ahmed I Amin, Ahmed Bekhit, Mahmoud Abd El Aziz, Mahmoud El-Bendary

Abstract

Occult hepatitis B virus (HBV) infection, by definition, is a state in which infection with this virus does not manifest with the conventional diagnostic

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## Occult hepatitis B virus and hepatocellular carcinoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4033435>

May 28, 2014 · Occult hepatitis B virus (HBV) infection (OBI) is a challenging pathobiological and clinical issue that has been widely debated for several decades. By definition, OBI is characterized by the persistence of HBV DNA in the liver tissue (and in some cases also in the serum) in the absence of circulating HBV surface antigen (HBsAg).

关闭

Cited by: 30

Author: Teresa Pollicino, Carlo Saitta

Publish Year: 2014

## Occult and Overt HBV Co-Infections ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3689779>

It is multifactorial in origin. About three-quarters of HCCs are attributed to chronic hepatitis B virus (HBV) and hepatitis C virus (HCV) infections. Other risk factors include heavy alcohol drink, liver cirrhosis, old age, male gender, underlying chronic liver diseases, aflatoxin exposure and diabetes.

Cited by: 7

Author: Ming-Ling Chang, Ming-Ling Chang, Yu-Jr...

Publish Year: 2013

## NAFLD and NASH in HCV Infection: Prevalence and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4926337>

May 25, 2016 · HCV-associated steatosis, in a degree-dependent fashion, producing hepatic inflammation and oxidative stress, induces a more rapid progression of liver fibrosis and increases the risk of the development of HCC. HCV-associated steatosis also influences the development of some extrahepatic manifestations of chronic HCV infection such as diabetes ...

Cited by: 28

Author: Luigi Elio Adinolfi, Luca Rinaldi, Barbara ...

Publish Year: 2016

## Pathogenic mechanisms in HBV- and HCV-associated ...

<https://www.nature.com/articles/nrc3449>

Jan 24, 2013 · Hepatocellular carcinoma (HCC) is a highly lethal cancer, with increasing worldwide incidence, that is mainly associated with chronic hepatitis B virus (HBV) and/or hepatitis C virus (HCV) infections.

Cited by: 639

Author: Alla Arzumanyan, Helena M. G. P. V. Rei...

Publish Year: 2013





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## Occult hepatitis B virus infection - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4269905>

Dec 27, 2014 · **Occult hepatitis B virus (HBV) infection** (OBI) refers to the presence of HBV DNA in the absence of detectable **hepatitis B** surface antigen. Since OBI was first described in the late 1970s, there has been increasing interest in this topic.

**Cited by:** 62**Author:** Min-Sun Kwak, Yoon Jun Kim**Publish Year:** 2014

## Clinical significance of occult hepatitis B virus ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3304657>

**Occult hepatitis B virus (HBV) infection** is defined as the presence of low HBV DNA levels in the blood, liver tissue, or peripheral monocytes of **hepatitis B** surface antigen (HBsAg)-negative persons.<sup>1,2</sup> It has been reported that in individuals with **occult HBV infection**, the DNA level in peripheral blood is usually fewer than 10<sup>3</sup> copies/mL and ...

**Cited by:** 10**Author:** Jae Young Jang, Soung Won Jeong, Sung ...**Publish Year:** 2011

## Occult hepatitis B virus and hepatitis C virus infections





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## Occult hepatitis B virus infection - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4269905>

Dec 27, 2014 · **Occult hepatitis B virus** (HBV) **infection** (OBI) refers to the presence of HBV DNA in the absence of detectable **hepatitis B** surface antigen. Since OBI was first described in the late 1970s, there has been increasing interest in this topic.

**Cited by:** 60

**Author:** Min-Sun Kwak, Yoon Jun Kim

**Publish Year:** 2014

## Prevalence of occult hepatitis B virus infection

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3070122>

Mar 28, 2011 · **Occult hepatitis B virus** (HBV) **infection** (OBI) is characterized by the persistence of HBV DNA in the liver tissue in individuals negative for the HBV surface antigen. The prevalence of OBI is quite variable depending on the level of endemic disease in ...

**Cited by:** 60

**Author:** Maria Luisa Gutiérrez-García, Conrado M...

**Publish Year:** 2011

## Occurrence of occult hepatitis B virus infection ...

<https://www.sciencedirect.com/science/article/pii/S1201971219304990>

Objectives. **Occult hepatitis B virus infection** (OBI) carries a risk of **hepatitis B virus** (HBV) transmission and **hepatocellular carcinoma**. As previous studies have had a limited sample size, the characteristics of OBI with genotype **B** and **C** (OBI **B** and OBI **C**) mutations relating to **hepatitis B** surface antibody (anti-HBs) elicited by vaccination or a limited host immune response to HBV have not ...

**Author:** Jiawen Wang, Panli Zhang, Jinfeng Z...

**Publish Year:** 2020

## Hepatitis B and C virus-related carcinogenesis - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1198743X14618036>

Chronic **hepatitis B virus** (HBV) and **hepatitis C virus** (HCV) **infection** are the most important causes of **hepatocellular carcinoma** (HCC), accounting for the majority of the cases worldwide. The geographical distribution of HCC therefore coincides with the distribution of ...

**Cited by:** 127

**Author:** J. Fung, C.-L. Lai, M.-F. Yuen

**Publish Year:** 2009

## Prevalence of occult hepatitis B virus infection - Europe ...

[europepmc.org/articles/PMC3070122](https://europepmc.org/articles/PMC3070122)