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**Manuscript Type:** ORIGINAL ARTICLE

### Observational Study

**Elevated soluble 4-1BB is associated with serum markers of hepatitis B virus in patients with chronic hepatitis B**

Meng-Ru Zhan, Xiu-Zhu Gao, Chang Wang, Fei Peng, Xiao-Mei Wang, Hong-Qin Xu, Jun-Qi Niu

### Abstract

#### BACKGROUND

Previous studies have suggested that the costimulatory molecule 4-1BB plays pivotal roles in regulating immunity during chronic viral infection. However, up to now, there are few studies about 4-1BB in chronic hepatitis B (CHB).

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<https://onlinelibrary.wiley.com/doi/10.1111/jvh.13127>

May 15, 2019 · 1 INTRODUCTION. About 1/3 of the world's population has been exposed to **hepatitis B virus** (HBV) during their lifetime, and over 250 million individuals worldwide suffer from **chronic HBV** (CHB) infection. 1 These **patients** are at increased risk of developing liver fibrosis, cirrhosis and hepatocellular carcinoma (HCC). 2 Currently, there are two main treatment options for CHB **patients**: ...

**Author:** Yingying Dou, Nadine van Montfoort, A... **Publish Year:** 2019

## Serum Markers Associated with Severity and Outcome of ...

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Jun 01, 2019 · Microbial translocation has been suggested as a driver of immune activation and inflammation during human immunodeficiency **virus**, **hepatitis B virus**, **hepatitis C virus**, and dengue **virus** infection . Here, we demonstrate increased **serum** levels of the MT surrogate **markers** sCD14 and LBP during HPS (Figure 2A and and2B). 2B). These data indicate that ...

**Cited by:** 7 **Author:** Kimia T Maleki, Marina García, Ayelén Igles...

**Publish Year:** 2019

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of **hepatitis B virus**; it can be detected in **high** levels in **serum** during acute or **chronic hepatitis B virus** infection. The presence of HBsAg indicates that the person is infectious. The body normally produces antibodies to HBsAg as part of the normal immune response to infection. HBsAg is the antigen used to make **hepatitis B** vaccine. **Hepatitis B** ...

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**Soluble** CD14 (sCD14) is considered a **marker** for immune activation and has been ... **Elevated serum** levels of **soluble** CD14 in HBeAg-positive **chronic** HBV **patients** upon Peginterferon treatment are **associated** with treatment response

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### [Elevated serum soluble CD14 levels in chronic HBV ...](https://link.springer.com/article/10.1007/s13277-015-4423-x)

<https://link.springer.com/article/10.1007/s13277-015-4423-x> ▾

Dec 07, 2015 · **Hepatitis B virus** (HBV) infection is a major cause of **chronic** liver diseases including hepatocellular carcinoma (HCC). CD14 and its **soluble** form sCD14 play important roles in immunity and are involved in the translocation of bacteria and their products which is related to the pathogenesis in **chronic** HBV infection. This study investigated **serum** sCD14 levels in HBV chronically infected **patients** ...

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**Publish Year:** 2016

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This new **marker** may be conveniently used in clinical practice, especially in developing countries for differentiating significant **fibrosis** with **mild fibrosis** in patients with **chronic hepatitis B**. **Liver stiffness** is