

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 55044

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Conservation and variability of Hepatitis B core at different chronic hepatitis stages

Yll M *et al.* Conservation of Hepatitis B Core gene

Marçal Yll, Maria Francesca Cortese, Mercedes Guerrero-Murillo, Gerard Orriols, Josep Gregori, Rosario Casillas, Carolina González, Sara Sopena, Cristina Godoy, Marta Vila, David Taberner, Josep Quer, Ariadna Rando, Rosa Lopez-Martinez, Rafael Esteban, Mar Riveiro-Barciela, Maria Buti, Francisco Rodríguez-Frías

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1. Introduction. The natural history of acute **hepatitis B** in adults is considered to be favorable. However, two undesired outcomes might occur during its evolution, namely, acute liver failure and progression to **chronic hepatitis** (Ghany and Gara, 2017). Acute liver failure is the result of an over-reaction of the immune system and occurs in less than 1 % of the **patients**.

Author: Julieta Trinks, Sebastián Marciano, Is... **Publish Year:** 2020

Deep sequencing of hepatitis B virus basal core promoter ...

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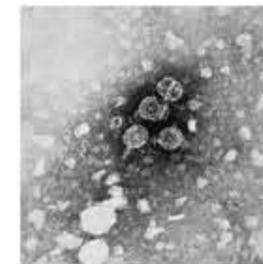
Cited by: 11 **Author:** Linlin Yan, Linlin Yan, Henghui Zhang, Hu...

Publish Year: 2015 **Author:** Linlin Yan

The genetic variability of hepatitis B virus subgenotype ...

Hepatitis B virus

Dna Viru



Hepatitis B virus, abbreviated HBV, is a partially double-stranded DNA virus, a species of the genus Orthohepadnavirus and a member of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B.

Wikipedia

Scientific name: Hepatitis B virus

Genus: Orthohepadnavirus

Family: Hepadnaviridae

Biological rank: Species

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Cited by: 98 Author: Ying-Hui Shi, Chang-He Shi
Publish Year: 2009

Hepatitis B Progression - Hep - Your Guide to Hepatitis - Hep

<https://www.hepmag.com/basics/hepatitis-b-basics/hepatitis-b-progression>
Mar 04, 2019 · Every year, approximately 0.5 percent of people will clear HBsAg (hepatitis B surface antigen); most will also acquire HBs antibodies. When this occurs, it means their **chronic hepatitis B** infection is resolved. Some will continue to have low levels of HBV DNA. A resolved **chronic hep B** infection reduces the risk of liver failure and death.

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Aug 14, 2014 · EPIDEMIOLOGY: GLOBAL. **Hepatitis B** is a major, worldwide, public health problem. Current World Health Organization estimates for the prevalence of **hepatitis B** infection are that 240 million people have **chronic** infection and that approximately 600000 people die every year due to the acute or **chronic** complications of the virus. Estimates from around 2004 suggested that 2 billion ...
Cited by: 31 Author: Catherine Mn Croagh, John S Lubel
Publish Year: 2014

Variability and conservation in hepatitis B virus core protein

<https://www.researchgate.net/publication/7819396>
Hepatitis B core protein (HBVc) has been extensively studied from both a structural and immunological point of view, but the evolutionary forces driving sequence **variation** within **core** are ...

Variability and conservation in hepatitis B virus ... - CORE

<https://core.ac.uk/display/3701832>
FV: **Hepatitis B** virus (HBV) sequence **variation** of cytotoxic T lymphocyte epitopes is not common in patients with **chronic** HBV infection. (1993). FV: HLA-A31- and HLA-Aw68-restricted cytotoxic T cell responses to a single **hepatitis B** virus nucleocapsid epitope during acute viral **hepatitis**.
Author: Benjamin M Chain and Richard Myers

PEOPLE ALSO ASK

- What is the treatment for chronic hepatitis?
- What are the stages of hepatitis B?
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Feedback

Overview of hepatitis B viral replication and genetic ...

<https://www.sciencedirect.com/science/article/pii/S0168827816000635>
About 240 million people worldwide are chronically infected with **hepatitis B virus (HBV)**, which put them at great risk to develop **liver cirrhosis** and **hepatocellular carcinoma (HCC)** [1]. Both **viral** and host factors contribute to the outcome of **HBV infection**.
Cited by: 154 Author: Shuping Tong, Shuping Tong, Peter Revill
Publish Year: 2016

Core variability does not affect response to interferon ...

<https://www.sciencedirect.com/science/article/pii/S0168827898800500>
Background/Aims: The pre-core stop codon variant (A 1896) of **hepatitis B** virus (HBV) has been associated with **chronic** active liver disease with acute exacerbations and a high relapse rate after an initial response to alpha-interferon (IFN-alpha) therapy. Poor sustained response has been correlated with a high prevalence of mutations in the **core** region, potentially enabling escape from the ...
Cited by: 7 Author: Alexandra Alexopoulou, Ania M. Owsianka, ...
Publish Year: 1998

(PDF) Pathology of chronic hepatitis B and chronic hepatitis C

<https://www.researchgate.net/publication/316841886>
Compared with patients with **chronic hepatitis C** infection, a more severe form of carnitine deficiency was detected in patients with **chronic hepatitis B** infection (18.39 ± 15.68 μmol/l vs 42.30 ...

Hepatitis B Questions and Answers for Health Professionals ...

<https://www.cdc.gov/hepatitis/hbv/hbvfaq.htm>
Screening should include testing for three HBV screening seromarkers (HBsAg, antibody to HBsAg [anti-HBs], and antibody to **hepatitis B** core antigen [anti-HBc]) so that persons can be classified into the appropriate **hepatitis B** category and properly recommended to receive vaccination, counseling, and linkage to care and treatment (6).

Hepatitis B Virus – Part 1 – Hepatitis B Virus, HBV ...

<https://www.labpedia.net/hepatitis-b-virus-part-1-hepatitis-b-virus-hbv>
Hepatitis B Core Antibody (HBcAb) This **antibody** appears after one month of infection. In acute infection, this will be HBcAb-IgM type and later replaced by HBcAb-IgG type. This **antibody** persists in circulation for several years. This **antibody** will be present in **chronic hepatitis** cases.

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Hepatitis B

Medical Condition



A serious infection of the liver caused by hepatitis B virus (HBV).

- Common (More than 200,000 cases per year in US)
- Transmitted through direct contact
- Usually preventable by vaccine
- Often requires lab test or imaging
- Treatments can help manage condition, no known cure
- Can be lifelong

An infection caused by HBV that affects the liver. Spreading through exposure to virus by blood, semen, saliva, or vaginal fluids, the virus is transmitted through unsafe sexual practices and from an infected mother to her child. Symptoms include loss of appetite, nausea, body aches and fever progressing to jaundice. Chronic form of the infection is not curable, but HBV is preventable by vaccination.

Symptoms

Common symptoms are:

- Pain in the area of liver or abdominal pain
- Dark urine
- Pale colored stools
- Fever
- Itching all over the body
- Joint pain
- Nausea and vomiting
- Loss of appetite
- Extreme fatigue and weakness
- Yellow coloring of the skin and the whites of the eyes (jaundice)

Treatments

The infection could be acute (lasts less than 6 months) or chronic (lasts more than 6 months). Our immune system fights and acute infection should be cured within few months. In case of chronic infection, the medications are prescribed.

Medication

- Antivirals: Cannot clear the infection but can stop the replication of the virus and minimize liver damage.
Lamivudine · Adefovir · Entecavir
- Immunomodulators: Reduces the viral load by preventing replication of viruses. Response differs with genetic variations of the virus.
Interferon alfa-2b

Self care

- Take adequate rest.
- Eat a healthy diet.
- Take plenty of fluids.

Medical procedures: Liver transplantation

Causes

HBV is transmitted by direct contact with HBV through:

- Infected blood, semen, or other body fluids
- Unprotected sexual contact with an infected person
- Sharing contaminated needles and syringes
- Accidental needle sticks, commonly reported in healthcare workers
- Infected mother to child during child birth
- Homosexuality in men
- Transfusion of infected blood or blood products
- Transplantation of infected organs

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 Wikipedia

Scientific name: Hepatitis B virus

Genus: [Orthohepadnavirus](#)

Family: [Hepadnaviridae](#)

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