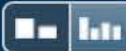




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Name of Journal: *World Journal of Gastroenterology*

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Human immunodeficiency virus and hepatotropic viruses co-morbidities as the inducers of liver injury progression

Ganesan M *et al.* HIV and hepatotropic viruses co-infection

Murali Ganesan, Larisa Y Poluektova, Kusum K Kharbanda, Natalia A Osna

Abstract

Hepatotropic viruses induced hepatitis progresses much faster and causes more liver-related health problems in people co-infected with human immunodeficiency virus (HIV). Although treatment with antiretroviral therapy has extended the life expectancy of people with HIV, liver disease induced by hepatitis B virus (HBV) and hepatitis C virus (HCV) causes significant numbers of non-acquired immune deficiency syndrome (AIDS)-related deaths in co-infected patients. In recent years, new insights into the mechanisms of accelerated fibrosis and liver disease progression in HIV/HCV and HIV/HBV co-infections have been reported. In this paper, we review recent studies examining the natural history and pathogenesis of liver disease in HIV-HCV/HBV co-infection in the era of direct acting antivirals (DAA) and antiretroviral therapy (ART). We also review the novel therapeutics for management of HIV/HCV and HIV/HBV co-infected individuals.

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Furthermore, hepatitis A virus (HAV) is the most common cause of acute viral hepatitis in many ... The **induction** of soluble mediators, including interferon, has been ... It has been suggested that **liver injury** and the subsequent cell renewal induced The impact of the **hepatotropic viruses** on the **progression** of **HIV**- related ...

Human Immunodeficiency Virus and Liver Disease Forum 2012

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with other **hepatotropic viruses** and ongoing fibrosis, leading to cirrhosis and liver - related mortality. Etiologies of liver disease include viral hepatitis coinfections, drug- ... years, may represent risk factors for **hepatic injury** and portal hypertension. ... lar carcinoma; HCV, hepatitis C virus; **HIV**, **human immunodeficiency virus**; ...

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Other causes of **liver damage** in **HIV**-HCV or HBV-**co**-infected patients ... **Co**- infections by **hepatotropic viruses** and the **human immunodeficiency virus** (**HIV**) are frequent ... Liver disease is nowadays one of the leading causes of **morbidity** and with **HIV** or HCV infection, has been suggested to slow the **progression** to **HIV**.

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