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For HBV, drug discovery efforts should be continued to find a functional cure for the infection, which would enable the treatment of all infected patients. This step is a crucial factor which...

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**Name of Journal:** *World Journal of Gastroenterology***Manuscript NO:** 62850**Manuscript Type:** REVIEW**Towards a new era of hepatitis B virus therapeutics: The pursuit of functional cure**Tsounis EP *et al.* Emerging HBV therapies

Efthymios P Tsounis, Evanthia Tourkochristou, Athanasia Mouzaki, Christos Triantos

**Abstract**

Hepatitis B virus (HBV) infection, although preventable by vaccination, remains a global health problem and a major cause of chronic liver disease. Although current treatment strategies suppress viral replication very efficiently, the optimal endpoint of hepatitis B surface antigen (HBsAg) clearance is rarely achieved. Moreover, they ignore

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Strategies for HBV functional cure will likely require a combination of HBV antiviral drugs and immune-mediated approaches. HIV infection poses additional challenges by reducing the host's ability to mount an effective, sustained immune response.

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Even as we work towards HBV elimination and functional cure, ongoing efforts should focus on optimizing risk stratification as well as uptake of HBV-active antiviral therapy and HBV immunization in this priority population.

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"We are exploring several approaches in pursuit of a functional cure for this insidious disease. Bringing together NVR 3-778 with our own internal discoveries we will leverage our vast experience in viral diseases to develop potentially transformational medicines for HBV patients," said William N. Hait, M.D., Ph.D., Global Head, Janssen Research & Development, LLC.

### An update on the management of chronic hepatitis B and C ...

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Functional cure of HBV consists of hepatitis B surface antigen (HBsAg) loss with or without hepatitis B surface antibody (HBsAb) seroconversion, with undetectable serum HBV DNA. cccDNA still persists in functional cure but it is transcriptionally inactive.