



*Original article*

***Clinical significance of dynamic determination of the level of viral load in patients with various types of chronic HBV infection***

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**ABSTRACT**

*Background: Chronic hepatitis B virus (HBV) infection is a global health concern, and accurate assessment of viral load is essential for its clinical management. This study aims to evaluate the clinical significance of dynamic determination of viral load in patients with various types of chronic HBV infection.*

*Methods: A comprehensive literature review was conducted to gather evidence on the clinical implications of viral load monitoring in chronic HBV infection. Key findings were analyzed and synthesized to highlight the significance of dynamic viral load determination.*

*Results: Dynamic determination of viral load plays a crucial role in several aspects of chronic HBV infection management. Firstly, it aids in the diagnosis and differentiation of different disease states, including chronic carriers, inactive carriers, and active HBV replication. Secondly, regular monitoring of viral load provides valuable information on disease progression and helps predict outcomes. Thirdly, viral load serves as a prognostic indicator, with higher levels associated with increased risk of liver disease progression and hepatocellular carcinoma. Furthermore, viral load measurement is essential in assessing treatment response to antiviral therapy, guiding treatment duration, and determining the need for therapy modification.*

*Conclusion: The dynamic determination of viral load in patients with chronic HBV infection holds significant clinical significance. It aids in diagnosis, disease monitoring, prognosis assessment, and treatment decision-making. Regular monitoring of viral load allows for timely intervention and optimization of antiviral therapy, leading to improved patient outcomes. Healthcare providers should prioritize the incorporation of viral load testing into routine clinical practice for effective management of chronic HBV infection.*

**Keywords:** *Chronic HBV infection, viral load, disease monitoring, treatment response, antiviral therapy.*

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