



## Vitamin D, Immunity Function and Chronic Liver Disease

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### Message from the Guest Editors

Vitamin D is a secosteroid that has a wide spectrum of immunomodulatory, anti-inflammatory antifibrotic, and antioxidant actions. Expression of inflammatory cytokine could be inhibited by vitamin D and its insufficiency was associated with overexpression of Th1 cytokines.

Low circulating levels of vitamin D have been detected in patients with autoimmune and non-autoimmune chronic liver diseases and diverse autoimmune diseases that are not primarily liver-related. Low-serum vitamin D levels have correlated with the severity of inflammatory activity, and they have predicted poor outcomes in several liver and non-liver diseases. Epidemiological studies have reported that vitamin D deficiency is associated with viral respiratory tract infections and acute lung injury, including coronavirus disease 2019 (COVID-19).

The goals of this special section are to describe the homeostatic mechanisms that modulate vitamin D production and action, indicate the properties of vitamin D that might affect the severity and outcome of infections and chronic liver disease, and examine the implications of vitamin D deficiency and the investigational opportunities that might improve its management.





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