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Etiology and management of liver injury in patients with COVID-19

Rui-Xu Yang, Rui-Dan Zheng, Jian-Gao Fan

Abstract

The outbreak of the novel coronavirus disease 2019 (COVID-19) has resulted in global emergence. With the expansion of related research, in addition to respiratory symptoms, digestive system involvement such as nausea, vomiting and diarrhea have also been reported with COVID-19. In addition, abnormal liver function has also been frequently found in biochemical tests of COVID-19 patients, which is correlated with the severity and mortality of the disease course. The etiology of liver injury in patients with COVID-19 might include viral immunologic injury, drug-induced liver injury, the systemic



Etiology and management of liver injury in patients with



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Liver injury in COVID-19: management and challenges.

<https://www.ncbi.nlm.nih.gov/pubmed/32145190>

Liver injury in COVID-19: management and challenges. Zhang C(1), Shi L(1), Wang FS(2). Author information: (1)Treatment and Research Center for Infectious Diseases, The Fifth Medical Center of PLA General Hospital, National Clinical Research Center ...

Cited by: 4**Author:** Chao Zhang, Lei Shi, Fu-Sheng Wang**Publish Year:** 2020

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These data indicate that 2–11% of patients with COVID-19 had **liver comorbidities** and 14–53% cases reported abnormal levels of **alanine aminotransferase** and **aspartate aminotransferase** (AST) during disease progression . Patients with severe COVID-19 ...

Cited by: 4**Author:** Chao Zhang, Lei Shi, Fu-Sheng Wang**Publish Year:** 2020

Characteristics and Mechanism of Liver Injury in 2019 ...

<https://www.ncbi.nlm.nih.gov/pubmed/32274341>

Mar 28, 2020 · The underlying mechanisms of liver injury in cases of COVID-19 might include **psychological stress**, **systemic inflammation response**, **drug toxicity**, and progression of pre-existing liver diseases. However, there is insufficient evidence for SARS-CoV-2 infected hepatocytes or virus-related liver injury in COVID-19 at present.

[PDF] COVID-19 and liver disease

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/liv.14470>

Clinical features and liver injury in patients with COVID-19 COVID-19 is typically characterized by the symptoms of **viral pneumonia** such as **fever**, **fatigue**, **dry cough**, **anosmia**, **headache**, which may lead to respiratory failure (2, 4)



Etiology and management of liver injury in patients with COVID-19



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Liver Diseases in COVID-19: Etiology, Treatment and ...

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However, in previous case studies of **COVID-19**, the exact cause of **liver injury** has not been clearly elucidated, nor is there clear evidence of the interaction between **liver injury** and **COVID-19**. This study will analyze the **causes of liver injury** in **COVID-19** and the influence of **liver**-related complications on the treatment and prognosis of **COVID-19**.

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Liver injury in COVID-19: management and challenges

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Liver injury in COVID-19: management and challenges Lancet Gastroenterol Hepatol. 2020 May;5(5):428-430. doi: 10.1016/S2468-1253(20)30057-1. Epub 2020 Mar 4. Authors Chao Zhang 1 , Lei Shi 1 , Fu-Sheng Wang 2 Affiliations 1 Treatment and Research Center for Infectious Diseases, The Fifth ...

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In addition, immune-mediated inflammation, such as **cytokine storm** and pneumonia-associated hypoxia, might also contribute to **liver injury** or even develop into **liver failure** in **patients** with **COVID-19** who are critically ill. **Liver damage** in mild cases of **COVID-19** is often transient and can return to normal without any special treatment.

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[Liver injury in COVID-19: management and challenges](#)

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[Liver Manifestations of COVID-19 Infection](#)

<https://www.jwatch.org/na51399> ▼

Apr 21, 2020 · To characterize **liver injury** during **COVID-19** infection, investigators conducted a retrospective study of 148 consecutive **COVID-19 patients** admitted and treated at a single center in Shanghai, China, between January 20 and January 31, 2020.