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Name of Journal: *World Journal of Clinical Cases***Manuscript NO:** 56438**Manuscript Type:** MINIREVIEWS**Liver injury in coronavirus disease 2019: A minireview**

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Abstract

In December 2019, an outbreak of unexplained pneumonia was reported in Wuhan, China. World Health Organization officially named this disease as novel coronavirus disease 2019 (COVID-19). Liver injury was observed in patients with COVID-19 and its severity varied depending on disease severity, geographical area, and patient age. Systemic inflammatory response, immune

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Given this high burden, how different underlying **liver** conditions influence **liver injury** in patients with **COVID-19** needs to be meticulously evaluated. However, the exact cause of pre-existing **liver** conditions has not been outlined in the case studies of **COVID-19** and the interaction between existing **liver** disease and **COVID-19** has not been studied.

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Author: Chao Zhang, Lei Shi, Fu-Sheng Wang

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Liver injury in COVID-19: diagnosis and associated factors ...

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Abstract As coronavirus disease 2019 (**COVID-19**) is a new, emerging infectious disease, guidance or consensus on **liver injury** are lacking². The definition of **COVID-19** associated **liver injury** in our ...

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

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Liver Injury Is Associated With Severe Coronavirus Disease 2019 (COVID-19) Infection: A Systematic Review and Meta-Analysis of Retrospective Studies - PubMed The incidence of **liver injury**, as assessed by serum analysis (AST, ALT, total Bilirubin and Albumin levels), seems to be higher in patients with severe COVID-19 infection.

Cited by: 7 Author: Mohammad Parohan, Sajad Yaghoubi, Asal...

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[PDF] Liver injury is associated with severe coronavirus disease ...

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The **coronavirus disease 2019** (COVID-19) outbreak is a major threat to human beings. **Lung injury** has been reported as the major outcome of **COVID-19 infection**. However, **liver damage** has also been considered to occur in severe cases. The current meta-analysis ...

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What to Know About Liver Disease and COVID-19 | CDC

<https://www.cdc.gov/coronavirus/2019-ncov/need...> ▾

Feb 11, 2020 · Coronavirus disease 2019 (COVID-19) is the illness caused by the **SARS-CoV-2 virus**. Older adults and people of any age who have serious underlying medical conditions, including people with liver disease, might be at higher risk for severe illness from COVID-19. People with chronic liver disease, including **hepatitis B** and hepatitis C, may have concerns and questions related to their risk.

Liver diseases in COVID-19: Etiology, treatment and prognosis

<https://pubmed.ncbi.nlm.nih.gov/32476793>

In December **2019**, a novel **coronavirus** named severe acute respiratory syndrome **coronavirus 2** (SARS-CoV-2) was identified in Wuhan, China causing **coronavirus disease-2019 (COVID-19)**. Numerous studies have shown varying degrees of **liver** damage in patients infected with SARS-CoV-2. However, in previous ...

Cited by: 4 Author: Jian Wu, Shu Song, Hong Cui Cao, Lan Jua...

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Coronavirus disease 2019 and prevalence of chronic liver ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/liv.14465>

Individuals with severe **COVID-19 disease** had relevant alterations of **liver** enzymes and coagulative profile, probably due to the innate immune response against the virus. Further studies are needed to better investigate the causes of **liver injury** in patients with **COVID-19 disease** and the effect of treatment for **COVID-19** on the **liver**.

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Liver injury in COVID-19: management and challenges - The ...

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In December, **2019**, an outbreak of a novel **coronavirus** (severe acute respiratory syndrome **coronavirus 2** [SARS-CoV-2], previously **2019-nCoV**) started in Wuhan, China, and has since become a global threat to human health. The number of confirmed cases of **2019 coronavirus disease (COVID-19)** has reached 87 137 worldwide as of March 1, 2020, according to WHO **COVID-19** situation report 41; most of ...

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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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Author: Chao Zhang, Lei Shi, Fu-Sheng Wang

Publish Year: 2020

Study shows liver injury is common and prognostic in COVID ...

<https://medicalxpress.com/news/2020-08-liver...> ▾

Aug 06, 2020 · About 20% of **COVID-19 patients** in **Hong Kong** were found to have **liver injury**. **Liver injury**, in the form of hepatitis, cholestasis or both, can be observed in patients infected by different...

What to Know About Liver Disease and COVID-19 | CDC

<https://www.cdc.gov/.../liver-disease.html> ▾

May 05, 2020 · Some patients hospitalized for COVID-19 have had increased levels of liver enzymes — like **alanine aminotransferase** (ALT) and **aspartate aminotransferase** (AST) — that indicate their livers are at least temporarily damaged. Also, liver damage is more common in patients who have severe COVID-19 disease.

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.

Author: Atif Zaman

Publish Year: 2020

Liver injury in COVID-19: The current evidence Author(s ...

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† Altered liver function tests are reported in up to half of the patients with **COVID-19 infection**. †

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