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Advances of **liver injury in COVID-19:** detection, pathogenesis and **treatment**

Advances of liver injury in COVID-19

Yue Cai, Li-ping Ye, Ya-qi Song, Xinli Mao, Li Wang, Yan-zhi Jiang, Wei-tao Que, Shao-wei Li

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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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Abnormal Liver Function Tests in Patients With COVID-19 ...

<https://pubmed.ncbi.nlm.nih.gov/32702162>

Abnormal **liver** function tests (LFTs) are reported frequently in hospitalized coronavirus disease 2019 (**COVID-19**) patients. A review of the literature shows that 46% of admitted **COVID-19** patients had elevated plasma aspartate aminotransferase (AST) and 35% had elevated alanine aminotransferase (ALT) levels on admission.

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Publish Year: 2020

What to Know About Liver Disease and COVID-19 | CDC 7 mins read

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

Feb 11, 2020 · Some patients hospitalized for **COVID-19** have had increased levels of **liver enzymes** — such as alanine aminotransferase (ALT) and aspartate aminotransferase (AST). Increased levels of **liver**

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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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Publish Year: 2020

Pathology and Pathogenesis of SARS-CoV-2 Associated with ...

<https://wwwnc.cdc.gov/eid/article/26/9/20-2095> ▾

Clinical studies have reported elevated **liver enzymes** in patients with COVID-19 (28,29). The lack of viral **detection** by IHC in the **liver** in this investigation suggests that for these case-patients, abnormal biomarkers of hepatic **injury** may not be the result of direct viral infection of hepatocytes.

Study shows simple blood test could detect liver injury ...

<https://www.sciencedaily.com/releases/2021/03/210310204238.htm> ▾

Mar 10, 2021 · That creates a problem because it can delay **detection and treatment of liver injury**." ... Science Advances ... 2020 — Scientists have developed ...

Pathophysiology, Transmission, Diagnosis, and Treatment of ...

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Approximately 5% of patients with COVID-19, and 20% of those hospitalized, experience severe symptoms necessitating intensive care. More than 75% of patients hospitalized with COVID-19 require supplemental oxygen. **Treatment** for individuals with COVID-19 includes best practices for supportive management of acute hypoxic respiratory failure.

Cited by: 871

Author: W. Joost Wiersinga, Andrew Rhodes, All...

Publish Year: 2020

Pathophysiology of COVID-19: Mechanisms Underlying ...

<https://journals.physiology.org/doi/full/10.1152/physiol.00019.2020>

Aug 12, 2020 · Specifically, in a study of 417 COVID-19 patients, 76.3% had abnormal **liver tests**, and 21.5% had **liver injury** during hospitalization . Patients with abnormal **liver function tests**, particularly

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Mar 09, 2021 · 4 • **Liver injury** in mild COVID-19 cases is usually transient and does not require specific **treatment** beyond supportive care. 12 • Low serum albumin on hospital admission is ...

[Pathophysiology of COVID-19: Mechanisms Underlying Disease ...](https://journals.physiology.org/doi/full/10.1152/physiol.00019.2020)

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Aug 12, 2020 · Specifically, in a study of 417 COVID-19 patients, 76.3% had abnormal **liver** tests, and 21.5% had **liver injury** during hospitalization . Patients with abnormal **liver** function tests, particularly elevated alanine aminotransferase (ALT) and aspartate aminotransferase (AST), also had significantly higher risk of developing severe pneumonia (14).

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Author: Mary Kathryn Bohn, Alexandra Hall, Lusía S...

Publish Year: 2020

[Pathophysiology, Transmission, Diagnosis, and Treatment of ...](https://pubmed.ncbi.nlm.nih.gov/32648899)

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Importance: The coronavirus disease 2019 (COVID-19) pandemic, due to the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), has caused a worldwide sudden and substantial increase in hospitalizations for pneumonia with multiorgan disease. This review discusses current evidence regarding the **pathophysiology**, transmission, **diagnosis**, and management of COVID-19.