

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 63036

**Manuscript Type:** MINIREVIEWS

**Liver injury in COVID-19: Known and unknown**

Feng Zhou, Jian Xia, Hai-Xia Yuan, Ying Sun, Ying Zhang

### Abstract

Since the first report of the 2019 novel coronavirus disease (COVID-19) in December 2019 in Wuhan, China, the outbreak of the disease is currently continuously evolving. Previous studies have shown varying degrees of liver damage in patients with COVID-19. However, the exact causes of liver injury and the relationship between COVID-19

### Match Overview

1	<b>Internet</b> 46 words crawled on 13-Nov-2020 <a href="http://www.frontiersin.org">www.frontiersin.org</a>	1%
2	<b>Crossref</b> 39 words Yong Lin, Jun Yuan, Quanxin Long, Jieli Hu, Haijun Deng, Zhenyu Zhao, Juan Chen, Mengji Lu, Ailong Huang. "Pat...	1%
3	<b>Crossref</b> 36 words Yong Li, Fan He, Ning Zhou, Jia Wei, Zeyang Ding, Luyun Wang, Peng Chen, Shuiming Guo, Binhao Zhang, Xiaoning	1%
4	<b>Crossref</b> 29 words Ben L. Da, Tatyana Kushner, Maan El Halabi, Pavan Paka et al. "Liver Injury in Hospitalized Patients with COVID-19..."	1%
5	<b>Internet</b> 29 words crawled on 12-Apr-2021 <a href="http://natap.org">natap.org</a>	1%
6	<b>Crossref</b> 24 words Wei Huang, Chenze Li, Zhiquan Wang, Hong Wang, Ning Zhou, Jiangan Jiang, Li Ni, Xin A. Zhang, Dao-Wen Wan	1%
7	<b>Crossref Posted Content</b> 23 words Xin Zhao, Zehua Lei, Fengwei Gao, Qingyun Xie, Kangyi L...	1%

Liver injury in COVID-19: known and unknown



ALL

IMAGES

VIDEOS

 Add the Give v

2,610,000 Results

Any time ▾

[PDF] [COVID-19 and Autoimmune Liver Disease - AASLD](https://www.aasld.org/sites/default/files/2020-10/COVID19-Flyer-AILD.pdf)

<https://www.aasld.org/sites/default/files/2020-10/COVID19-Flyer-AILD.pdf>

illness from **COVID-19**. • **COVID-19 infection** can cause **liver injury**; however, the injury is almost always mild and temporary. • Antiviral or anti-inflammatory medications that are currently being used to treat **COVID-19** can be used in people with AILD. • The safety of returning to work or other in-person activities depends on the severity of

[Pre-existing liver disease is associated with poor outcome ...](https://pubmed.ncbi.nlm.nih.gov/32623632)

<https://pubmed.ncbi.nlm.nih.gov/32623632>

Background and aims: **COVID-19** is a dominant **pulmonary disease**, with multisystem involvement depending upon comorbidities. Its profile in patients with pre-existing chronic **liver**

Search Toc

Turn off Hover



ALL

IMAGES

VIDEOS

 Add the Give with Bing extension >

1,850,000 Results

Any time ▾

## [COVID-19 and the liver](#)

<https://pubmed.ncbi.nlm.nih.gov/32553666>

Hepatic involvement in COVID-19 could be related to the direct cytopathic effect of the virus, an uncontrolled immune reaction, sepsis or drug-induced liver injury. The postulated mechanism of viral entry is through the host angiotensin-converting enzyme 2 (ACE2) receptors that are abundantly present in type 2 alveolar cells.

Cited by: 86

Author: Dinesh Jothimani, Radhika Venugopal, M...

Publish Year: 2020

## [Pre-existing liver disease is associated with poor outcome ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32623632>

Background and aims: **COVID-19** is a dominant **pulmonary disease**, with multisystem involvement, depending upon comorbidities. Its profile in patients with pre-existing chronic **liver disease** (CLD) is largely **unknown**. We studied the **liver injury** patterns of ...



See more

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

1,850,000 Results

Any time ▾

## COVID-19 and the liver

<https://pubmed.ncbi.nlm.nih.gov/32553666>

Hepatic involvement in COVID-19 could be related to the direct cytopathic effect of the virus, an uncontrolled immune reaction, sepsis or drug-induced liver injury. The postulated mechanism of viral entry is through the host angiotensin-converting enzyme 2 (ACE2) receptors that are abundantly present in type 2 alveolar cells.

Cited by: 86

Author: Dinesh Jothimani, Radhika Venugopal, Mo...

Publish Year: 2020

## Pre-existing liver disease is associated with poor outcome ...

<https://pubmed.ncbi.nlm.nih.gov/32623632>

Background and aims: **COVID-19** is a dominant **pulmonary disease**, with multisystem involvement, depending upon comorbidities. Its profile in patients with pre-existing chronic **liver disease** (CLD) is largely **unknown**. We studied the **liver injury** patterns of SARS-Cov-2 ...

Cited by: 19

Author: Shiv Kumar Sarin, Ashok Choudhury, Georg...

Publish Year: 2020

## What to Know About Liver Disease and COVID-19 || Rising ...

[www.risingkashmir.com/home/news\\_description/375758/...](http://www.risingkashmir.com/home/news_description/375758/...) ▾

May 02, 2021 · **Liver** involvement in COVID-19 can occur due to the direct cytopathic effect of the virus, uncontrolled immune reaction by the body in response to the virus, sepsis or drug-induced **liver injury**. Severe and critical cases of COVID-19 may develop raised **liver** ...

## Hepatic pathology in patients dying of COVID-19: a series ...

<https://www.nature.com/articles/s41379-020-00649-x>

Aug 13, 2020 · Nonetheless, the spectrum of histological liver injury in COVID-19 remains unknown.

Cited by: 15

Author: Stephen M. Lagana, Satoru Kudose, Alina C...

Publish Year: 2020

## Coagulopathy of COVID-19 correlates with liver injury

<https://www.healio.com/news/hepatology/20201123/...> ▾

Nov 23, 2020 · The coagulopathy of **COVID-19** driven by **endothelial Factor VIII** correlated with **liver injury**. Source: Adobe Stock. At Yale New Haven Hospital, McConnell and colleagues measured **coagulation** ...