

### [Cytokine Storm | NEJM](#)

<https://www.nejm.org/doi/10.1056/NEJMra2026131>

Patients with multisystem inflammatory syndrome very clearly meet the definition of cytokine storm, since SARS-CoV-2 is no longer present; however, it is unclear whether the cytokine storm is a ...

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In conclusion, COVID-19 patients experience a wide range of pathophysiological changes including immune response-based inflammation. A 'cytokine storm' or very high levels of cytokines have been identified in SARS-CoV-2 infected individuals, especially when they are severely ill (e.g., in the ICU, on ventilation, non-survivors) [9, 10].

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

[https://www.thelancet.com/journals/langas/article/PIIS2468-1253\(20\)30057-1/fulltext](https://www.thelancet.com/journals/langas/article/PIIS2468-1253(20)30057-1/fulltext)

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 ...

Cited by: 762

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

Publish Year: 2020

### [Frontiers | Controlling Cytokine Storm Is Vital in COVID ...](#)

<https://www.frontiersin.org/articles/10.3389/fimmu.2020.570993/full>

Nov 30, 2020 · The cytokine release syndrome (CRS), a kind of systemic inflammation syndrome caused by cytokine storm, was previously observed in patients infected with SARS-CoV and MERS-CoV, as well as in leukemia patients receiving engineered T cell therapy (8, 9, 11, 12). Mild cases are characterized by fever, fatigue, headache, rash, arthralgia, and myalgia.

Author: Lu Tang, Zhinan Yin, Zhinan Yin, Yu H... Publish Year: 2020

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

[https://www.thelancet.com/pdfs/journals/langas/PIIS2468-1253\(20\)30057-1.pdf](https://www.thelancet.com/pdfs/journals/langas/PIIS2468-1253(20)30057-1.pdf)

Liver damage in patients with coronavirus infections might be directly caused by the viral infection of liver cells. Approximately 2–10% of patients with COVID-19 present with diarrhoea, and SARS-CoV-2 RNA has been detected in stool and blood samples.<sup>11</sup> This evidence implicates the possibility of viral

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### The Effects of the COVID-19 Cytokine Storm - Frontiers

<https://www.frontiersin.org/articles/10.3389/fcvm.2020.602183>

The global pandemic of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) that causes coronavirus disease 2019 (COVID-19) has led to 47 m infected cases and 1.2 m (2.6%) deaths. A hallmark of more severe cases of SARS-CoV-2 in patients with acute respiratory distress syndrome (ARDS) appears to be a virally-induced over-activation or unregulated response of the immune system.

Author: Georgina M. Ellison-Hughes, Liam ... Publish Year: 2020

### Frontiers | Cytokine Storm in COVID ...

<https://www.frontiersin.org/articles/10.3389/fimmu.2020.01648/full>

Jul 10, 2020 - Cytokine storm is an acute hyperinflammatory response that may be responsible

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**Manuscript type:** REVIEW

**Title:** Impact of cytokine storm and systemic inflammation on liver impairment patients infected by SARS-CoV-2: Prospective therapeutic challenges

**Fares E.M. Ali, Zuhair M. Mohammedsleh, Mahmoud M. Ali, Osama M. Ghogar**

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Author: Subrata Deb, Scott Arrighi Publish Year: 2021

### [Potential Treatments for COVID-19 Related Cytokine Storm ...](#)

<https://www.frontiersin.org/articles/10.3389/fimmu.2020.01445>

Jun 16, 2020 · suggesting the presence of systemic inflammation, and from the work by Huang et al 1 , we noted that elevation of various proinflammatory cytokines was present in patients infected with SARSCoV-2, suggesting the possible existence of cytokine storm in a proportion of patients. Further, patients that require intensive care unit (ICU) admission showed higher concentrations of certain cytokines ...

Cited by: 3 Author: Yi Miao, Lei Fan, Jian-Yong Li

Publish Year: 2020

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