

[Diabetes and COVID-19: Global and regional perspectives](https://pubmed.ncbi.nlm.nih.gov/32623038)

<https://pubmed.ncbi.nlm.nih.gov/32623038>

Diabetes is one of the major risk factors for fatal outcomes from COVID-19. Patients with diabetes are vulnerable to infection because of hyperglycemia; impaired immune function; vascular complications; and comorbidities such as hypertension, dyslipidemia, and cardiovascular disease.

Cited by: 5 Author: In Kyung Jeong, Kun Ho Yoon, Moon Kyu...

Publish Year: 2020

[A Diabetic Patient With 2019-nCoV \(COVID-19\) Infection ...](https://journals.lww.com/thoracicimaging/fulltext/)

[https://journals.lww.com/thoracicimaging/fulltext/...](https://journals.lww.com/thoracicimaging/fulltext/)

The patient in this report is young but has underlying type II diabetes mellitus with poor glycemic control: the serum glucose level was 14.5 mmol/L and glycated hemoglobin was 14.1% at admission. This suggests that the patient has impaired immune function. The imaging manifestations of this patient were closely related to his clinical condition.

[COVID-19: What T1 Diabetes Patients Need to Know](https://www.webmd.com/lung/news/20200409/covid19...)

<https://www.webmd.com/lung/news/20200409/covid19...> ▾

Apr 09, 2020 · COVID-19: What T1 Diabetes Patients Need to Know. ... "Higher blood sugar levels for more than two weeks can impair immune function." But, she cautioned, "None of ...

[Effects of COVID-19 Infection on Beta-cell Function in ...](https://www.clinicaltrials.gov/ct2/show/NCT04463849)

<https://www.clinicaltrials.gov/ct2/show/NCT04463849> ▾

Jul 09, 2020 · There is no scientific evidence on the possible effects of this infection on the function of the β cell and on glycemic control. Clinical evidence seems to suggest that COVID-19 infection mostly affects the respiratory system, and an acute worsening of glycemic compensation is not described as generally observed in bacterial pneumonia.

[COVID-19 and comorbidities: Deleterious impact on infected ...](https://www.sciencedirect.com/science/article/pii/S1876034120305943)

<https://www.sciencedirect.com/science/article/pii/S1876034120305943>

Dec 01, 2020 · Another study reported that 39.1% of COVID-19 patients exhibit elevated ALT and AST levels, and 6% have increased bilirubin levels. Around 29% of the COVID-19 patients demonstrate liver injury and develop severe complications during later stages of infections. Besides abnormal liver function tests in COVID-19, elevated enzymes may also be released from cardiac and body muscles.

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Impact of Diabetes in Patients Diagnosed With COVID-19

<https://pubmed.ncbi.nlm.nih.gov/33335527>

Dec 20, 2020 - The main feature of SARS-CoV-2 that distinguishes it from other viruses is the speed of transmission combined with higher risk of mortality from acute respiratory distress syndrome (ARDS)...

Cited by: 5 Author: Mohamed Abu-Farha, Fahd Al-Mulla, Tha...
Publish Year: 2020

Diabetes and COVID-19: evidence, current status and ...

<https://pubmed.ncbi.nlm.nih.gov/32404898>

Abstract: Patients with diabetes who get coronavirus disease 2019 (COVID-19) are at risk of a severe disease course and mortality. Several factors especially the impaired immune response, heightened...

Cited by: 86 Author: Ritesh Gupta, Akhtar Hussain, Akhtar Hu...
Publish Year: 2020

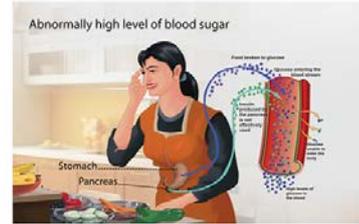
Why people with diabetes are being hit so hard by Covid-19

<https://www.statnews.com/2020/10/01/why-people...>

Oct 01, 2020 - People with diabetes tend to live in a chronic inflammatory state, setting them up for a more severe inflammatory response to Covid-19 that can culminate in a ...

Type 2 Diabetes

Medical Condition



A condition results from insufficient production of insulin, causing high blood sugar.



Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 63475

Manuscript Type: MINIREVIEWS

Effects of the impaired immune function of diabetic patients on COVID-19

Immune impairment of COVID-19 with diabetes

zhonghua lu, Weili Yu, Yun Sun

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[Diabetes Mellitus and COVID-19: Associations and Possible ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8025139>

Apr 01, 2021 · In consistent with this, a recent clinical study reported that compared to COVID-19 patients without diabetes, people with diabetes had activated inflammatory response (manifested as elevated levels of neutrophils, serum ferritin, IL-6, C-reactive protein (CRP), and erythrocyte sedimentation rate (ESR)) and suppressed immunity (manifested as markedly decreased levels of lymphocytes) .

Author: Gerui Li, Ze Chen, Zhan Lv, Hang Li, D... Publish Year: 2021

[COVID-19 and hyperglycemia/diabetes](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8107977>

May 15, 2021 · Resembling the inflammatory processes of COVID-19, prolonged hyperglycemia, regardless of diabetes type, can also impact immune function, whereas compromised immunological status is linked to macrovascular complications of DM.

Author: Konstantinos Michalakis, Ioannis Ilias Publish Year: 2021

[COVID-19 and diabetes mellitus: from pathophysiology to ...](#)

<https://www.nature.com/articles/s41574-020-00435-4>

Nov 13, 2020 · Potential pathogenetic links between COVID-19 and diabetes mellitus include effects on glucose homeostasis, inflammation, altered immune status and activation of the renin–angiotensin–aldosterone...

Cited by: 91 Author: Soo Lim, Jae Hyun Bae, Hyuk Sang Kwo...

Publish Year: 2021

[Frequently Asked Questions: COVID-19 and Diabetes | ADA](#)

<https://www.diabetes.org/coronavirus-covid-19/how...>

A: In considering whether patients should check their own blood glucose using home-use blood glucose meter, health care providers caring for COVID-19 patients will take into consideration the availability of other equipment in their hospitals to get timely and accurate blood glucose readings that can be easily transferred or logged into the ...

[COVID-19 pandemic, coronaviruses, and diabetes mellitus ...](#)

<https://journals.physiology.org/doi/full/10.1152/ajpendo.00124.2020>