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Bidirectional link between Diabetes Mellitus and COVID-19 Leading to cardiovascular disease: A Narrative Review

Diabetes and COVID-19: A Bidirectional link

Abstract

Coronavirus Disease 2019 (COVID-19) is a global pandemic where several comorbidities have been shown to have a significant effect on mortality. Patients with diabetes mellitus (DM) have a higher mortality rate than non-DM patients if they get COVID-19. Recent studies have indicated that patients with a history of diabetes can increase the risk of SARS-CoV-2 infection. Additionally, patients without any history of diabetes can acquire new-onset DM when infected with COVID-19. Thus, there is a need to explore the bidirectional link between these two conditions, confirming the

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The most common comorbidities with Covid-19 infection are **metabolic diseases** including diabetes, **hypertension**, obesity and cardiovascular disease (9, 10, 13). The mechanisms behind these increased risks remain unclear, and will be discussed in the present review, with a focus on the possibility that direct actions of the virus on disease-relevant tissues outside of the ...

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COVID-19 and Endocrinology – A Bidirectional Relationship ...
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Diabetes is one of the most important risk factors associated with mortality caused by COVID-19. 1 Diabetes is known to be characterised by impaired immunity, which may lead to an increased **susceptibility to** COVID-19 infection, especially **in** those **with uncontrolled glucose levels.** 2 Cardiovascular disease, a common comorbidity of endocrine disease including diabetes, is a ...

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Covid-19 is a recently-emerged infectious **disease** caused by the novel severe acute respiratory syndrome coronavirus SARS-CoV2. SARS-CoV2 differs from previous coronavirus infections (SARS and MERS ...

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between diabetes and COVID-19, in that not only does the presence of **diabetes** impact developing COVID-19 complications but the COVID-19 virus may impact the development of diabetes. We must address the possibility that the relationship is, in fact, not bidirectional. The detection of diabetes in COVID-19 patients could be a case of undiagnosed prediabetes, diabetes, or pre-existing ...

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Background and aims **Diabetes** mel**litus** is associated with **poor prognosis in** patients with COVID-19. **On the** other hand, COVID-19 contributes **to worsening of** dysglycemia **in** people with diabetes...