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Front Endocrinol (Lausanne). 2021; 12: 609470.

PMCID: PMC8044543

Published online 2021 Mar 31. doi: [10.3389/fendo.2021.609470](#)

PMID: [33868163](#)

Type 2 Diabetes Mellitus and COVID-19: A Narrative Review

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Abstract

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The pandemic of coronavirus disease (COVID-19), caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), has involved more than one hundred million individuals, including more than two million deaths. Diabetes represents one of the most prevalent chronic conditions worldwide and significantly increases the risk of hospitalization and death in COVID-19 patients. In this review, we discuss the prevalence, the pathophysiological mechanisms, and the outcomes of COVID-19 infection in people with diabetes. We propose a rationale for using drugs prescribed in patients with diabetes and some pragmatic clinical recommendations to deal with COVID-19 in this kind of patient.

Keywords: COVID-19, SARS-CoV-2, coronavirus, diabetes, chronic conditions, review

Introduction

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In early December 2019, the first pneumonia cases of unknown origin were identified in Wuhan, the capital city of Hubei province. The novel pathogen was an enveloped RNA beta coronavirus 2 named SARS-CoV-2.

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Sabri S *et al.* Diabetes & COVID-19

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Diabetes represents one of the most prevalent chronic conditions worldwide and significantly increases the risk of hospitalization and death in COVID-19 patients. In this **review**, we discuss the prevalence, the pathophysiological mechanisms, and the outcomes of COVID-19 infection in people with **diabetes**.

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Type 2 Diabetes Mellitus and COVID-19: A Narrative Review

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