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New-onset diabetes in COVID-19 and clinical outcomes: A systematic review and meta-analysis

COVID-19 associated diabetes mellitus: A meta-analysis

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Background: /Aim: Various reports of the occurrence of type 1 **diabetes** mellitus (T1DM) in patients with COVID-19 have been published, denoting an association between both diseases. Therefore, we conducted this **systematic review** to summarize the prevalence of T1DM in COVID-19 patients and to identify the **clinical** presentations and **outcomes** in this patient population.

Author: Mahmoud Nassar, Nso Nso, Bahaaeld... Publish Year: 2021

Diabetes and COVID-19: Risks, Management, and Learnings ...

<https://care.diabetesjournals.org/content/43/8/1695> ▾

Aug 01, 2020 · Data on **diabetes** type and COVID-19 **outcomes** are only beginning to emerge, but preliminary (not yet peer reviewed) data from England (see Table 1) suggest risks may be higher in people with type 1 **diabetes** compared with type 2 (though risk was increased in all PWD regardless of type) . Data on glucose control and COVID-19 **outcomes** are discussed below.

Cited by: 23

Author: Jamie Hartmann-Boyce, Elizabeth Morris,...

Publish Year: 2020

Risk phenotypes of diabetes and association with COVID-19 ...

<https://link.springer.com/article/10.1007/s00125-021-05458-8> ▾

Apr 28, 2021 · **Diabetes** has been identified as a risk factor for poor prognosis of coronavirus disease-2019 (COVID-19). The aim of this study is to identify high-risk phenotypes of **diabetes** associated with COVID-19 severity and death. This is the first edition of a living **systematic review** and **meta-analysis** on observational studies investigating phenotypes in individuals with **diabetes** and COVID-19-related ...

Evidence growing COVID-19 can trigger onset of diabetes

<https://newatlas.com/health-wellbeing/coronavirus...> ▾

Mar 22, 2021 · A **systematic review** and **meta-analysis** published in late 2020 pooled data from eight studies encompassing 3,711 COVID-19 patients and detected 492 newly diagnosed cases of **diabetes**.

Diabetes Phenotype and COVID-19 Severity and Death ...

<https://www.acc.org/.../45/risk-phenotypes-of-diabetes> ▾

Apr 29, 2021 · This **systematic review** and **meta-analysis** reports higher risk of COVID-19–related death for individuals with **diabetes** and male sex, older age, CVD, CKD, COPD, high plasma blood



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Diabetes and COVID-19: A systematic review on the current ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7375314>

Jul 22, 2020 · There were no differences in symptoms between patients who suffered from both **diabetes** and **COVID-19** and other patients. Prevalence of **diabetes in COVID-19** patients was 14.5%. Severe symptoms and the death rate is higher among patients with both **diabetes** and **COVID-19**. We suggested some therapeutic consideration to diabetic patients with coronavirus

Cited by: 34

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Publish Year: 2020

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The association between COVID-19 and type 1 diabetes ...

<https://pubmed.ncbi.nlm.nih.gov/33592371>

The prevalence of T1DM in **COVID-19** patients ranged from 0.15% to 28.98%, while the rate of **COVID-19** in patients with T1DM ranged from 0% to 16.67%. Dry cough, nausea, vomiting, fever and elevated blood glucose levels were the most commonly reported presentations. The investigated **outcomes** varied widely among studied populations.

Cited by: 1

Author: Mahmoud Nassar, Nso Nso, Bahaaeldin ...

Publish Year: 2021

Diabetes is most important cause for mortality in COVID-19 ...

<https://pubmed.ncbi.nlm.nih.gov/33616801>

Diabetes is most important cause for mortality in **COVID-19** hospitalized patients: **Systematic review and meta-analysis** Rev Endocr Metab Disord . 2021 Feb 22;1-22. doi: 10.1007/s11154-021-09630-8.

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Author: Giovanni Corona, Alessandro Pizzocaro, ...

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Jul 22, 2020 · There were no differences in symptoms between patients who suffered from both **diabetes** and **COVID-19** and other patients. Prevalence of **diabetes in COVID-19** patients was 14.5%. Severe symptoms and the death rate is higher among patients with both **diabetes** and **COVID-19**. We suggested some therapeutic consideration to diabetic patients with coronavirus

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Author: Alireza Abdi, Milad Jalilian, Pegah Ahmadi ...

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Author: Mahmoud Nassar, Nso Nso, Bahaaeldin Ba...

Publish Year: 2021

[The association between COVID-19 and type 1 diabetes ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7872855>

Feb 10, 2021 · Inconsistently, Kumar et al. conducted a **systematic review and meta-analysis** of case-control studies to investigate the prevalence of **DM** in patients with confirmed **COVID-19** diagnosis. The authors included 33 studies in their final **meta-analysis**, which revealed that the pooled prevalence of **DM** in patients with **COVID-19** was 9.8% (95% confidence interval (CI) = 8.7%–10.9%) after adjusting for ...

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Author: Mahmoud Nassar, Nso Nso, Bahaaeldin Ba...

Publish Year: 2021

[Ethnicity and clinical outcomes in COVID-19: A systematic ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7658622>

Nov 12, 2020 · We therefore conducted a **systematic review and meta-analysis** of both published and preprint research to study the association of ethnicity with **COVID-19** infection and **outcomes**. Specifically, we aimed to identify ethnic differences in the risk of becoming infected with SARS-CoV-2 as well as subsequent intensive therapy unit (ITU) admission (a ...