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1 **Name of Journal:** *World Journal of Critical Care Medicine*

**Manuscript NO:** 57157

**Manuscript Type:** EDITORIAL

**Low dose corticosteroids in COVID-19 with refractory shock: We are not sure?**

Amr Salah Omar

**Abstract**

Low dose corticosteroids to adult patients with coronavirus disease 2019 (COVID-19) and refractory shock was given some evidence, the evidence was of low quality given particularly for shock-reversal. Evidence. However bacterial sepsis may not provide a

Low dose corticosteroids in COVID-19 with refractory shock. We a



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## COVID-19: Corticosteroids For Hospitalized Patients ...

<https://covid-acts.ahrq.gov/display/COV/COVID-19:+Corticosteroids+For+Hospitalized...> ▾

For **adults with COVID-19** and **refractory shock**, we suggest using **low-dose corticosteroid therapy** ("shock- reversal"), over no **corticosteroid therapy** (weak recommendation, **low-quality** ...

## Corticosteroids - COVID-19 Treatment - COVID-19 Treatment

<https://covid.idea.medicine.uw.edu/page/treatment/drugs/corticosteroids> ▾

For mechanically ventilated patients with ARDS, there is insufficient evidence to recommend for or against the use of **systemic corticosteroids** (CI). For **adults with COVID-19** and **refractory shock**, the Panel recommends using **low-dose corticosteroid therapy** (i.e., **shock reversal**) over no **corticosteroids** (BII).

## COVID-19 and corticosteroids

[https://www.rnzcgp.org.nz/GPPulse/Clinical\\_news/2020/COVID-19 and corticosteroids.aspx...](https://www.rnzcgp.org.nz/GPPulse/Clinical_news/2020/COVID-19_and_corticosteroids.aspx...) ▾

Whether this includes **COVID-19** pneumonia is unknown, but the risk of pneumonia appears to be **dose-related** and when inhaled **corticosteroids** are indicated, **we** should aim to use **low** doses. International guidelines recommend inhaled **corticosteroids** for COPD patients with features of asthma (i.e. Asthma-COPD Overlap).

## [PDF] COVID-19: CORTICOSTEROIDS FOR HOSPITALIZED PATIENTS

<https://www.med.upenn.edu/.../documents/treatment-guidelines/corticosteroids-final.pdf>

For adults with COVID-19 and refractory shock, we suggest using **low-dose corticosteroid therapy** ("shock-reversal"), over no **corticosteroid therapy** (weak recommendation, **low-quality** evidence). A typical **corticosteroid regimen** in **septic shock** is **intravenous hydrocortisone 200**



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Low dose corticosteroids in COVID-19 with refractory shock: We are



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### [PDF] COVID-19: CORTICOSTEROIDS FOR HOSPITALIZED ...

<https://www.med.upenn.edu/uphscovid19education/...>

Jun 08, 2020 · For **adults with COVID-19 and refractory shock**, the Panel recommends using **low-dose corticosteroid therapy** (i.e., **shock reversal**) over no **corticosteroids** (moderate recommendation based on non-randomized studies).

### COVID-19: Corticosteroids For Hospitalized Patients ...

<https://covid-acts.ahrq.gov/display/COV/COVID-19...> ▾

For adults with **COVID-19** and refractory shock, we suggest using **low-dose corticosteroid therapy** (“**shock- reversal**”), over no **corticosteroid therapy** (weak recommendation, low-quality evidence). A typical **corticosteroid regimen** in **septic shock** is **intravenous hydrocortisone 200 mg** per day administered either as an infusion or **intermittent doses**.

### Pros and cons of corticosteroid therapy for COVID-19 ...

<https://www.sciencedirect.com/science/article/pii/S1569904820301506>

Based on the foregoing, the Surviving **Sepsis Campaign** suggests the use of **low-dose steroid therapy** in **COVID-19 patients with refractory shock**, with the aim of mitigating the **cytokine storm** caused by **SARS-CoV-2** and reducing peripheral vasodilation (Alhazzani et al., 2020). Download : Download high-resolution image (401KB)

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### [COVID-19: Corticosteroids For Hospitalized Patients ...](#)

<https://covid-acts.ahrq.gov/display/COV/COVID-19...> ▾

Jun 10, 2020 · For adults with **COVID-19** and refractory shock, we suggest using **low-dose** corticosteroid therapy ("**shock-reversal**"), over no **corticosteroid therapy** (weak recommendation, **low-quality** evidence). A typical **corticosteroid regimen** in **septic shock** is **intravenous hydrocortisone 200 mg per day** administered either as an infusion or intermittent doses.

### [Corticosteroids - COVID-19 Treatment - COVID-19 Treatment](#)

<https://covid.idea.medicine.uw.edu/page/treatment/drugs/corticosteroids> ▾

For mechanically ventilated patients with ARDS, there is insufficient evidence to recommend for or against the use of **systemic corticosteroids (CI)**. For adults with **COVID-19** and **refractory shock**, the Panel recommends using **low-dose corticosteroid therapy** (i.e., **shock reversal**) over no **corticosteroids (BII)**.

### [Pros and cons of corticosteroid therapy for COVID-19 ...](#)

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**Author:** Paula Mattos-Silva, Nathane Santann... **Publish Year:** 2020

### [\[PDF\] COVID-19: CORTICOSTEROIDS FOR HOSPITALIZED PATIENTS](#)

[www.uphs.upenn.edu/cep/COVID/Corticosteroids\\_final.pdf](http://www.uphs.upenn.edu/cep/COVID/Corticosteroids_final.pdf)

Jun 08, 2020 · For adults with **COVID-19** and **refractory shock**, we suggest using **low-dose corticosteroid** therapy ("**shock-reversal**"), over no **corticosteroid** therapy (weak recommendation, **low-quality** evidence). A typical **corticosteroid** regimen in **septic shock** is **intravenous hydrocortisone 200 mg per day** administered either as an infusion or intermittent doses.

### [High-dose but not low-dose corticosteroids potentially ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32588877>

**High-dose but not low-dose corticosteroids** potentially delay viral shedding of patients with **COVID-19**

Clin Infect Dis. 2020 Jun 26;ciaa829. doi: 10.1093/cid/ciaa829.