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Retrospective Cohort Study

Effectiveness of adjunctive corticosteroid therapy in patients with severe COVID-19:

A retrospective cohort study

Xiong B *et al.* Corticosteroid therapy in severe COVID-19 patients

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Abstract

BACKGROUND

The effectiveness of adjunctive corticosteroid uses in patients with coronavirus disease 2019 (COVID-19) remains inconclusive.

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Herein, after adjusting for both immortal bias and indication bias, we found that corticosteroid usage was not associated with prolonged viral RNA shedding time. Accordingly, a retrospective COVID-19 study by Shi et al. indicated that corticosteroid had little effect on the duration of viral excretion. The adverse effects of early initiation of corticosteroid therapy may be mediated by other side effects and require ...

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Emerging data have shown benefits of anti-inflammatory agents in the management of severe COVID-19 pneumonia [7, 8, 14–16]. The RECOVERY trial involving the use of dexamethasone in hospitalized patients with COVID-19 showed a 20% to 40% reduction in mortality in those with pneumonia requiring oxygen and invasive MV.

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In patients with severe COVID-19 who required oxygen support, using dexamethasone 6 mg daily for up to 10 days reduced mortality at 28 days. The benefit of dexamethasone was most apparent in hospitalized patients who were mechanically ventilated. There was no observed benefit of dexamethasone in patients who did not require oxygen support.

[Adjunctive Corticosteroids for COVID-19: A Retrospective ...](#)

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This is a retrospective, observational cohort study of patients with COVID-19 66 admitted to our hospital from February 9, 2020 to May 31, 2020. Data was retrieved

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

[https://covid.idea.medicine.uw.edu/page/treatment/...](https://covid.idea.medicine.uw.edu/page/treatment/) ▼

Much of the interest in treatment of persons with COVID-19 with corticosteroids is inferred from experience with SARS-CoV-1, MERS, and influenza; these data were largely retrospective and observational. [1, 2, 3, 4] Data specific to COVID-19 are limited. A retrospective cohort study of 201 patients in Wuhan, China showed a decreased risk of death in patients with ARDS who were treated

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Author: Yiming Li, Qinghe Meng, Xin Rao, Bi... Publish Year: 2020

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Nov 03, 2020 · In patients with severe COVID-19 who required oxygen support, using dexamethasone 6 mg daily for up to 10 days reduced mortality at 28 days. The benefit of...

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Oct 14, 2020 · Emerging data have shown benefits of anti-inflammatory agents in the management of severe COVID-19 pneumonia [7, 8, 14–16]. The RECOVERY trial involving the use...

Author: Say Tat Ooi, Purnima Parthasarathy,... Publish Year: 2020

Corticosteroid use in COVID-19 patients: a systematic ...

https://ccforum.biomedcentral.com/articles/10.1186/s13054-020-03400-9

Sep 02, 2020 · In this systematic review and meta-analysis on effectiveness and safety of corticosteroids in COVID-19 patients, the pooled estimate of the observational retrospective...

Author: Judith van Paassen, Jeroen S. Vos, ... Publish Year: 2020

Adjunctive Corticosteroids for COVID-19: A Retrospective ...

https://www.researchgate.net/publication/343119779...

Jul 21, 2020 · We aim to evaluate the efficacy of adjunctive corticosteroids in the management of COVID-19. Methods: This is a retrospective cohort study of hospitalized adults (≥18 years) who...

High versus standard doses of corticosteroids in severe ...

https://link.springer.com/10.1007/s10096-020-04078-1

Oct 20, 2020 · Despite the increasing evidence of the benefit of corticosteroids for the treatment of moderate-severe coronavirus disease 2019 (COVID-19) patients, no data are available about...

Corticosteroids | COVID-19: Evidence Based Medicine

https://covidbmn.umn.edu/evidence-based-therapies/corticosteroids

The RECOVERY Trial is an open label randomized evaluation of COVID-19 therapy at 175 NHS hospitals in the UK. The study compares usual care alone, lopinavir-ritonavir, hydroxychloroquine...

Tocilizumab in patients with severe COVID-19: a ...

https://www.sciencedirect.com/science/article/pii/S2665991320301739

Aug 01, 2020 · The Tocilizumab in Patients with Severe COVID-19 Pneumonia (TESEO) Study is a retrospective, observational cohort study done in three tertiary care centres in the Emilia-...

Tocilizumab use in patients with moderate to severe COVID ...

https://onlinelibrary.wiley.com/doi/10.1111/jcpt.13303

In this retrospective observational study involving a large sample of consecutive patients who had been hospitalized with COVID-19, the risk of intubation or death was significantly lower among...

Tocilizumab in patients with severe COVID-19: a ...

https://www.thelancet.com/journals/lanrhe/article/...

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Tocilizumab for treatment of patients with severe COVID–19 ...

https://www.thelancet.com/journals/eclinm/article/...

In this retrospective cohort study, treatment of severe COVID–19 patients with a single intravenous infusion of low–dose tocilizumab (8 mg/kg up to 400 mg) resulted in favorable...

The Use of Corticosteroid as Treatment in SARS ... - PubMed

https://pubmed.ncbi.nlm.nih.gov/16038758

Objective: To study the effect of corticosteroids in the treatment of severe acute respiratory syndrome (SARS). Methods: A retrospective cohort of 78 consecutive adult SARS patients...

Ribavirin therapy for severe COVID-19: a retrospective ...

https://www.sciencedirect.com/science/article/pii/S0924857920302971

Sep 01, 2020 · The aim of this study was to compare ribavirin therapy versus supportive therapy only for patients with severe coronavirus disease 2019 (COVID-19). A total of 115 patients with...

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Efficacy and Safety of Corticosteroid Treatment in ...

<https://pubmed.ncbi.nlm.nih.gov/33013412>

Treatment with corticosteroids in patients with COVID-19 may cause mild adverse outcomes. The quality of evidence was low or very low for all outcomes. Conclusion: The findings of our **study** indicate that **corticosteroid therapy** is not highly **effective**, but it appears to improve prognosis and promote clinical recovery in patients with severe COVID-19.

Cited by: 3

Author: Wenwen Cheng, Yufeng Li, Liyan Cui, Ying ...

Publish Year: 2020

The Use of Corticosteroid as Treatment in SARS ... - PubMed

<https://pubmed.ncbi.nlm.nih.gov/16038758>

Objective: To **study** the effect of **corticosteroids** in the treatment of **severe** acute respiratory syndrome (SARS). Methods: A **retrospective cohort** of 78 consecutive adult SARS **patients** admitted to a regional hospital in Hong Kong between March and May 2003 was analysed to **study** the **effectiveness** of **corticosteroid**. They were categorized according to whether or not **corticosteroid therapy** was given ...

Cited by: 166

Author: Tung Wai Auyeung, Jenny S.W. Lee, Wing K...

Publish Year: 2005

Corticosteroids | COVID-19 Treatment Guidelines

<https://www.covid19treatmentguidelines.nih.gov/imm...> ▾

Nov 03, 2020 · Last Updated: November 3, 2020. **Patients with severe COVID-19** can develop a systemic inflammatory response that can lead to lung injury and multisystem organ dysfunction. It has been proposed that the potent anti-inflammatory effects of **corticosteroids** might prevent or mitigate these deleterious effects. The Randomised Evaluation of **COVID-19 Therapy** (RECOVERY) trial, a multicenter, randomized, open-label trial in hospitalized **patients** ...

Corticosteroids | COVID-19: Evidence Based Medicine

<https://covidbm.umn.edu/evidence-based-therapies/corticosteroids> ▾

The RECOVERY Trial is an open label randomized evaluation of **COVID-19 therapy** at 175 NHS hospitals in the UK. The **study** compares usual care alone, lopinavir-ritonavir, hydroxychloroquine, azithromycin, and **corticosteroids**. Eligible **patients** were also allocated simultaneously to no additional treatment vs. convalescent plasma.

Glucocorticoids with low dose anti-IL-1 cytokine response in