

The evidence is in. WHO says corticosteroids really do save lives of people critically ill with COVID-19

4 September 2020, by Andrew McLachlan



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Readily available drugs, which dampen the runaway inflammatory response in patients severely ill with COVID-19, save lives, according to evidence released this week.

An [analysis by the World Health Organization](#) (WHO), which drew together results from several studies, confirms the benefit of this group of anti-inflammatory steroid drugs, known as corticosteroids.

While earlier studies showed the apparent benefit of one of these drugs, dexamethasone, this latest evidence goes further.

It shows other cheap and readily available corticosteroid drugs, including hydrocortisone, could benefit patients at the life-threatening stages of [coronavirus](#) infection.

Remind me again, what are corticosteroids?

[Corticosteroids](#) have been used for decades to treat a variety of inflammatory conditions. These include [severe forms of lung inflammation](#), such as pneumonia, shock due to infection, and severe

respiratory syndromes. They are also used to treat more common conditions, including asthma and eczema.

These medicines are on the [WHO list of essential medicines](#), meaning they are widely available (usually at low cost).

What do we already know about corticosteroids for COVID-19?

In June, early release of results from the [RECOVERY trial](#) showed dexamethasone reduced the risk of death by up to a third in people hospitalized with COVID-19 who needed a ventilator to help them breathe.

Despite the early release of the trial results, and limited details at the time, the findings were compelling and [clinical practice](#) changed.

Several other [trials](#) were stopped. All patients switched to receive active treatment with a corticosteroid.

The results of the RECOVERY trial have since been formally peer reviewed and [published](#).

What does the latest evidence say?

The WHO drew together results from [seven randomized clinical trials](#), including data from 1,703 critically ill patients with COVID-19.

This is a powerful and compelling way to combine information and truly address the question of whether these medicines benefit people in hospital critically unwell with COVID-19.

The study, which included patients from Australia and New Zealand, found almost 33% of people

treated with corticosteroids died within 28 days of treatment. This was compared with 41% of patients who received supportive care (or placebo). Corticosteroid treatment helped patients whether or not they needed ventilation or oxygen.

Importantly, the analysis also concluded the benefits were not specific to one corticosteroid drug but were the same for dexamethasone and hydrocortisone.

Corticosteroids can also have an impact on the immune system. So the researchers looked at the risk of infection from other causes, for example bacterial pneumonia, and found it was not a major concern.

What does this mean for patients?

The weight of evidence has led [WHO guidelines](#) this week to strongly recommend using corticosteroids to treat people with severe or critical COVID-19.

This aligns with current [Australian guidelines](#) for treating [hospitalized patients](#) with COVID-19 needing oxygen support.

Corticosteroids are not for everyone and are not a cure

It is important to remember these findings only apply to using corticosteroids in critically ill people hospitalized with COVID-19. There is currently limited information to suggest these medicines are appropriate for people with mild COVID-19.

While [corticosteroids](#) help treat the body's response to the coronavirus infection, they are not antiviral drugs. They do not inhibit the virus itself, so they are not a cure.

A new way of doing research

Usually, several [clinical trials](#) on a common theme are published over a series of years. Then a meta-analysis draws together their results, publishing these combined results much later.

But the amazing thing about this latest evidence is

the meta-[analysis](#) included [data from clinical trials published at the same time](#). This shows a degree of [co-operation and collaboration](#) between researchers to share data to urgently address important research questions that guide clinical care.

Evidence to guide the best treatments and management for people with COVID-19 continues to emerge. You can follow the evidence and how it's applied in Australia [here](#).

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