

# More evidence of no survival benefit in COVID-19 patients receiving hydroxychloroquine

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A study of electronic medical records from US Veterans Health Administration medical centers has found that

hydroxychloroquine—with or without azithromycin—did not reduce the risk of ventilation or death and was associated with longer length of hospital stay. This analysis, published June 5 in the journal *Med*, is the first in the US to report data on hydroxychloroquine outcomes for COVID-19 from a nationwide integrated health system.

The study included data from 807 people hospitalized with COVID-19 at Veterans Affairs medical centers around the country. About half, 395 patients, did not receive hydroxychloroquine at any time during their hospitalization. Among those who did, 198 patients were treated with hydroxychloroquine and 214 were treated with both hydroxychloroquine and azithromycin. Most of the patients given hydroxychloroquine, about 86%, received it before being put on a mechanical ventilator.

After adjustment for clinical characteristics, the risk of death from any cause was higher in the hydroxychloroquine group but not in the hydroxychloroquine + azithromycin group when these were compared with the no-hydroxychloroquine group. The researchers also found that the length of hospital stay was 33% longer in the hydroxychloroquine group and 38% longer in the hydroxychloroquine + azithromycin group than in the no-hydroxychloroquine group. Pre-existing conditions such as [cardiovascular disease](#), [chronic obstructive pulmonary disease](#), and diabetes were relatively common and similar across all groups.

The researchers—from the Columbia VA Health Care System, the University of South Carolina, and the University of Virginia School of Medicine—reported that their study has strengths that earlier studies have not had. For example, because it employed data from comprehensive electronic medical records (the VA Informatics and Computing Infrastructure, or VINCI), rather than administrative health insurance claims, they were able to apply rigorously identified covariates and outcomes. Additionally, because the data came from an integrated national healthcare system, the findings were less susceptible to biases

that might occur in a single-center or regional study.

But they also acknowledge limitations: the [median age](#) in their study was about the same age as that in other studies of hospitalized patients, 70 years, but because the patients were older the findings might not apply to [younger people](#) with COVID-19, although a quarter of patients ranged from 22 to 60 years old. Additionally, the patients in the study were overwhelmingly male, nearly 96%, reflecting the demographics of veterans. The researchers also note that the findings don't provide insight into the use of these drugs in the outpatient setting or as prophylaxis, but they add that the FDA and the U.S. National Institutes of Health have both advised against the use of [hydroxychloroquine](#) outside of clinical trials.

**More information:** Magagnoli et al. "Outcomes of hydroxychloroquine usage in United States veterans hospitalized with COVID-19." *Med.* [DOI: 10.1016/j.medj.2020.06.001](https://doi.org/10.1016/j.medj.2020.06.001). [www.cell.com/med/fulltext/S2666-6340\(20\)30006-4](https://www.cell.com/med/fulltext/S2666-6340(20)30006-4)

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