

Tocilizumab cuts progression to ventilation or death in COVID-19

December 18 2020



(HealthDay)—Tocilizumab reduces the risk for progression to

ventilation or death among hospitalized patients with COVID-19 pneumonia, according to a study published online Dec. 18 in the *New England Journal of Medicine*.

Carlos Salama, M.D., from the Icahn School of Medicine at Mount Sinai Hospital in New York City, and colleagues randomly assigned [patients](#) hospitalized with COVID-19 pneumonia who were not receiving mechanical [ventilation](#) to receive either standard care plus one or two doses of tocilizumab or placebo (249 and 128 patients, respectively).

The researchers found that the cumulative percentage of patients who had received [mechanical ventilation](#) or who had died by day 28 was 12.0 and 19.3 percent in the tocilizumab and placebo groups, respectively (hazard ratio, 0.56; 95 percent confidence interval, 0.33 to 0.97; $P = 0.04$). Tocilizumab was favored over placebo for clinical failure as assessed in a time-to-event analysis (hazard ratio, 0.55; 95 percent confidence interval, 0.33 to 0.93). By day 28, death from any cause occurred in 10.4 and 8.6 percent of those in the tocilizumab and placebo groups, respectively (weighted difference, 2.0 percentage points; 95 percent confidence interval, -5.2 to 7.8). Serious adverse events occurred in 15.2 and 19.7 percent of patients in the tocilizumab and placebo groups, respectively, in the safety population.

"Ongoing trials are underway to provide clarity on the patient subgroups that are most likely to benefit from specific immunomodulatory therapies," the authors write.

The study was funded by Genentech, the manufacturer of tocilizumab.

More information: [Abstract/Full Text](#)

Copyright © 2020 [HealthDay](#). All rights reserved.

Citation: Tocilizumab cuts progression to ventilation or death in COVID-19 (2020, December 18) retrieved 29 March 2023 from <https://medicalxpress.com/news/2020-12-tocilizumab-ventilation-death-covid-.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.