

Common asthma treatment reduces need for hospitalization in COVID-19 patients, study suggests

February 10 2021



Credit: CC0 Public Domain

Early treatment with a medication commonly used to treat asthma appears to significantly reduce the need for urgent care and hospitalization in people with COVID-19, researchers at the University



of Oxford have found.

The STOIC study found that inhaled <u>budesonide</u> given to patients with COVID-19 within seven days of the onset of symptoms also reduced recovery time. Budesonide is a corticosteroid used in the long-term management of asthma and <u>chronic obstructive pulmonary disease</u> (COPD).

Findings from the phase 2 randomized study, which was supported by the NIHR Oxford Biomedical Research Centre (BRC), were published on the medRxiv pre-print server.

The findings from 146 people—of whom half took 800 micrograms of the medication twice a day and half were on usual care—suggests that inhaled budesonide reduced the relative risk of requiring urgent care or hospitalization by 90% in the 28-day study period. Participants allocated the budesonide inhaler also had a quicker resolution of fever, symptoms and fewer persistent symptoms after 28 days.

Professor Mona Bafadhel of the University's Nuffield Department of Medicine, who led the trial, said: 'There have been important breakthroughs in hospitalized COVID-19 patients, but equally important is treating early disease to prevent clinical deterioration and the need for urgent care and hospitalization, especially to the billions of people worldwide who have limited access to hospital care.

'The vaccine programs are really exciting, but we know that these will take some time to reach everyone across the world. I am heartened that a relatively safe, widely available and well studied medicine such as an inhaled steroid could have an impact on the pressures we are experiencing during the pandemic.'

The study also demonstrated that there was a reduction in persistent



symptoms in those who received budesonide. Prof Bafadhel, a Respiratory Consultant also working at the Oxford University Hospitals NHS Foundation Trust, said: 'Although not the primary outcome of study, this is an important finding. I am encouraged to see the reduction in persistent symptoms at 14 and 28 days after treatment with budesonide. Persistent symptoms after the initial COVID-19 illness have emerged as a long-term problem. Any intervention which could address this would be a major step forward.'

The trial was inspired by the fact that, in the early days of the pandemic, patients with chronic respiratory disease, who are often prescribed inhaled steroids, were significantly under-represented among those admitted to hospital with COVID-19.

More information: Sanjay Ramakrishnan et al. Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial, *medRxiv* (2021). DOI: 10.1101/2021.02.04.21251134

Provided by University of Oxford

Citation: Common asthma treatment reduces need for hospitalization in COVID-19 patients, study suggests (2021, February 10) retrieved 10 May 2024 from https://medicalxpress.com/news/2021-02-common-asthma-treatment-hospitalization-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.