

SARS-CoV-2 reinfection risk drops with presence of antibodies

December 29 2020



(HealthDay)—Health care workers with anti-spike or anti-nucleocapsid



immunoglobulin G (IgG) antibodies have a reduced risk for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) reinfection in the following six months, according to a study published online Dec. 23 in the *New England Journal of Medicine*.

Sheila F. Lumley, B.M., B.Ch., from Oxford University Hospitals NHS Foundation Trust in the United Kingdom, and colleagues examined the incidence of SARS-CoV-2 infection in seropositive and seronegative health care workers attending testing of staff at Oxford University Hospitals. A total of 12,541 health care workers participated and were followed for 31 weeks after anti-spike and anti-nucleocapsid IgG measurements.

The researchers found that 11,364 health care workers had negative antibody results and 1,265 had positive antibody results, including 88 with seroconversion during follow-up. Overall, 223 anti-spikeseronegative health care workers had a positive polymerase chain reaction (PCR) test: 100 and 123 during screening while they were asymptomatic and symptomatic, respectively. Two anti-spikeseropositive health care workers had a positive PCR test, both of whom were asymptomatic when tested (1.09 and 0.13 per 10,000 days at risk, respectively; adjusted incidence rate ratio, 0.11). None of the workers with anti-spike antibodies had symptomatic infections. The results were similar when baseline status was determined using anti-nucleocapsid IgG assay alone or in combination with anti-spike IgG assay.

"The presence of anti-spike antibodies was associated with a substantially <u>reduced risk</u> of PCR-confirmed SARS-CoV-2 infection over 31 weeks of follow-up," the authors write.

Several authors disclosed financial ties to the pharmaceutical industry.

More information: <u>Abstract/Full Text</u>



Copyright © 2020 HealthDay. All rights reserved.

Citation: SARS-CoV-2 reinfection risk drops with presence of antibodies (2020, December 29) retrieved 2 May 2024 from https://medicalxpress.com/news/2020-12-sars-cov-reinfection-presence-antibodies.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.