

Reinfection with SARS-CoV-2 described in 25-year-old

October 16 2020



(HealthDay)—A case of reinfection with severe acute respiratory

syndrome coronavirus 2 (SARS-CoV-2) is described in a study published online Oct. 12 in *The Lancet Infectious Diseases*.

Richard L. Tillett, Ph.D., from the University of Nevada, Las Vegas, and colleagues described an investigation of two instances of SARS-CoV-2 infection in a 25-year-old man who presented to [health authorities](#) on two occasions with symptoms of viral infection, once in April 2020 and a second time at the end of May and beginning of June 2020. At each presentation and twice during follow-up, nasopharyngeal swabs were obtained from the patient. To confirm SARS-CoV-2 infection, nucleic acid amplification testing was conducted. Next-generation sequencing of SARS-CoV-2 extracted from nasopharyngeal swabs was performed.

The researchers found that the patient had two positive tests for SARS-CoV-2—on April 18, 2020, and June 5, 2020—and two negative tests during follow-up in May 2020. Genetically significant differences were seen between each variant associated with each instance of infection in a genomic analysis of SARS-CoV-2. Symptomatically, the second [infection](#) was more severe than the first.

"It is important to note this is a singular finding and does not provide generalizability of this phenomenon. While more research is needed, the possibility of reinfections could have significant implications for our understanding of COVID-19 immunity, especially in the absence of an effective vaccine," one coauthor said in a statement.

One author disclosed ties to Qiagen Digital Insights.

More information: [Abstract/Full Text \(subscription or payment may be required\)](#)

[Editorial \(subscription or payment may be required\)](#)

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

Citation: Reinfection with SARS-CoV-2 described in 25-year-old (2020, October 16) retrieved 24 May 2024 from <https://medicalxpress.com/news/2020-10-reinfection-sars-cov-year-old.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.