

Symptoms of COVID-19 are a poor marker of infection, new UK population study shows

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86% of UK residents who tested positive for COVID-19 during lockdown did not have the specific virus symptoms (cough, and/or fever, and/or loss of taste/smell), finds a new study by UCL researchers. The authors say a more widespread testing programme is needed to catch 'silent' transmission and reduce future outbreaks.

The paper, which is published today in *Clinical Epidemiology*, used data from the Office for National Statistics Coronavirus (COVID-19) Infection Survey [pilot study](#)—a large population based survey looking at the association between COVID-19 symptoms and COVID-19 test results.

The research included data from a representative population sample of 36,061 people who were tested between 26 April and the 27 June 2020 and provided information of whether they had any symptoms.

The data showed 115 (0.32%) people out of the total 36,061 people in the pilot study had a positive test result. Focusing on those with COVID-19 specific symptoms (cough, and/or fever, and/or loss of taste/smell), there were 158 (0.43%) with such symptoms on the day of the test.

Of the 115 with a positive result, there were 16 (13.9%) reporting symptoms and in contrast, 99 (86.1%) did not report any specific symptoms on the day of the test.

The study also includes data on people reporting a wider range of symptoms such as fatigue and shortness of breath. Of the sample who

tested positive, 27 (23.5%) were symptomatic and 88 (76.5%) were asymptomatic on the day of the test.

The authors say the findings have significant implications for ongoing and future testing programmes.

Professor Irene Petersen (UCL Epidemiology & Health Care) explained: "The fact that so many people who tested positive were asymptomatic on the day of a positive test result calls for a change to future testing strategies. More widespread testing will help to capture "silent" transmission and potentially prevent future outbreaks.

"Future testing programmes should involve frequent testing of a wider group of individuals, not just [symptomatic cases](#), especially in high-risk settings or places where many people work or live close together such as meat factories or university halls. In the case of university halls, it may be particularly relevant to test all students before they go home for Christmas.

"Pooled testing could be one way to help implement a widespread testing strategy where several tests are pooled together in one analysis to save time and resources on individual testing. This strategy would be an efficient way to test when the overall prevalence is low as negative pooled samples can quickly show a large group of people are not infectious."

The authors did note that several studies have highlighted a lower proportion of individuals testing positive for COVID-19 are asymptomatic, however, the prevalence of asymptomatic cases varies substantially, possibly due to the sampling and the settings of the study. For example, the study references how among 262 confirmed cases admitted to hospitals in Beijing 13 (5%) were asymptomatic. In contrast, reports from a small village in Italy suggest that up to 40-75% were

asymptomatic. A study of 13,000 residents in Iceland found 43 out of 100 with a positive COVID-19 [test](#) were asymptomatic.

More information: Irene Petersen et al, Three Quarters of People with SARS-CoV-2 Infection are Asymptomatic: Analysis of English Household Survey Data, *Clinical Epidemiology* (2020). [DOI: 10.2147/CLEP.S276825](#)

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