

His Royal Highness The Duke of Edinburgh

10 June 1921 to 9 April 2021

[Read about the arrangements following The Duke of Edinburgh's death](#)

→ [Coronavirus \(COVID-19\)](#) | Rules, guidance and support

[Home](#) > [Coronavirus \(COVID-19\)](#) > [Testing for coronavirus \(COVID-19\)](#)

Press release

Largest testing programme for coronavirus publishes its initial findings

Over 120,000 volunteers tested across England between 1 May and 1 June as part of the country's largest study into coronavirus.

From: [Department of Health and Social Care](#)
 Published: 15 July 2020



- Health Secretary welcomes initial findings from Imperial College London suggesting there was a significant reduction of the virus before lockdown restrictions were eased
- Findings provide a baseline for further research into how the virus is spreading in England

The Health Secretary has today welcomed the findings of the largest study to date into coronavirus rates of infection by Imperial College London.

The research, which examined levels of infection in the general population in England, has been posted by Imperial College London. The report will undergo peer review before a final report is published.

Imperial's research shows the rates of infection fell during May, the last month of lockdown, halving every 8 to 9 days. There were on average 13 positive cases for every 10,000 people, with an overall reproduction number of 0.57 – lower than previously reported.

These findings show the virus was circulating with relatively low prevalence and was declining in May, ahead of the decision being made to begin to lift lockdown restrictions.

Related content

[REACT-1 study of coronavirus transmission: May 2020 results](#)

[REACT-1 study of coronavirus transmission: August 2020 results](#)

[Testing for coronavirus before hospital](#)

[Coronavirus antibody test kit: guides in different languages](#)

[REACT-1 study of coronavirus transmission: January 2021 interim results](#)

Brexit

✔ Check ✔ Change ✔ Go

[Check what you need to do](#)

Health and Social Care Secretary Matt Hancock said:

“ This ambitious testing programme will help us better understand the spread of the virus to date, predict how it may spread in the future and inform our response to the pandemic.

“ It shows the impact our national lockdown efforts have had and demonstrates that we have taken the right actions at the right time.

“ As a country we have made great strides towards beating this virus but we mustn't take our foot off the pedal, and such studies will be vital as we continue to fight this virus.”

The report provides an insight into who was infected with the virus between 1 May and 1 June over lockdown, comparing geography, age, sex, ethnicity, key worker status and symptoms.

The key findings include:

- Young adults, aged 18 to 24, were more likely to test positive than other age groups, reinforcing the need for this age group to adhere to social distancing measures to protect vulnerable friends and family
- Those of Asian ethnicity were more likely to test positive than those of white ethnicity. It is possible that higher infection rates have contributed towards the higher death rates observed in this ethnic group
- Care home staff and healthcare workers were more likely to be infected with COVID-19 during lockdown than the general population, at a time when the public was following government advice to stay at home, therefore limiting their exposure to the virus. Those who had patient-facing roles were more likely to be in contact with known cases as part of their work

The report also shows anyone who had recent contact with a known COVID-19 case was 24 times more likely to test positive than those with no such contacts.

The NHS Test and Trace service is therefore playing an integral role in stopping the virus from spreading further having already contacted 130,000 people at risk of unwittingly transmitting the virus and advising them to self-isolate.

The Real-time Assessment of Community Transmission (REACT-1) programme is the largest, most significant piece of research looking at how the virus is spreading across the country.

It was commissioned by DHSC and carried out by a world-class team of scientists, clinicians and researchers at Imperial College London, Imperial College Healthcare NHS Trust and Ipsos MORI.

Professor Paul Elliott, FMedSci, Director of the programme at Imperial College London, said:

“ Community testing is a vital step in ongoing efforts to mitigate the pandemic, but to be successful this must be based on robust scientific evidence and sound statistics.

“ Through this surveillance programme with DHSC and Ipsos MORI we're gathering the critical knowledge base necessary to underpin community testing and facilitate a greater understanding of the prevalence of COVID-19 in every corner of England.”

Kelly Beaver, Managing Director, Public Affairs at Ipsos MORI, said:

“ At home community testing at this scale has not been delivered before across England. As a partnership between DHSC, Imperial College London, and Ipsos MORI it has taken significant innovation, perseverance and skill to ensure it has been a success, with lessons learned feeding into future phases of this study and shared with the wider academic community through a transparent publication process.

“ We want to thank all the study participants for their time, and contribution, it has been fantastic to be engaging with the public at this scale on an issue of such national importance.”

This first report provides a baseline for further research and the information will provide local authorities with a clearer picture of the spread of the virus to help inform measures tailored to limit its spread and save lives.

The study has also been upscaled and repeated for the month of June, with a report expected within weeks.

In the second part of the programme (REACT-2), a number of different antibody tests have been assessed for their accuracy and ease of use at home. These tests look for evidence that someone has been infected in the past. This has been rolled out to 100,000 people to identify the levels of antibodies against the virus that causes COVID-19 in the general public.

Background information

- Other key findings include:
 - There were no significant differences seen between males and females and no significant evidence of geographic clustering although measured levels were highest in London and lowest in the South West
 - 69% of people testing positive reported no symptoms on the day of the test or the previous week. However, they may have developed symptoms later on and it doesn't show how infectious they might have been at this time
- In the first report from REACT-1, over 120,000 randomly selected people over the age of 5 from across England volunteered to provide nose and throat swabs. These were tested for antigens indicating the presence of the virus to show whether someone is currently infected with COVID-19
- In line with government guidance those with positive test results and their household were asked to self-isolate
- This study was upscaled and repeated at the end of June with 150,000 participants
- The pre-print report can be accessed at www.medrxiv.org
- The report was commissioned by DHSC and carried out by a world-class team of scientists, clinicians and researchers at Imperial College London, Imperial College Healthcare NHS Trust and Ipsos MORI
- More information on the REal-time Assessment of Community Transmission (REACT) programme of work can be found at www.reactstudy.org
- This study falls under pillar 4 of the COVID-19 National Testing Programme, which focuses on mass surveillance in the general population. This is the first study which looks at a representative cross-section of the whole population
- Read a [summary of the results on GOV.UK](#)

Share this page



Facebook



Twitter

Published 15 July 2020

Explore the topic

[Testing for coronavirus \(COVID-19\)](#)

Is this page useful?

Yes

No

There is something wrong with this page

Coronavirus (COVID-19)

[Coronavirus \(COVID-19\): guidance and support](#)

Services and information

[Benefits](#)

[Births, deaths, marriages and care](#)

[Business and self-employed](#)

[Childcare and parenting](#)

[Citizenship and living in the UK](#)

[Crime, justice and the law](#)

[Disabled people](#)

[Driving and transport](#)

[Education and learning](#)

[Employing people](#)

[Environment and countryside](#)

[Housing and local services](#)

[Money and tax](#)

[Passports, travel and living abroad](#)

[Visas and immigration](#)

[Working, jobs and pensions](#)

Brexit

[Check what you need to do](#)

Departments and policy

[How government works](#)

[Departments](#)

[Worldwide](#)

[Services](#)

[Guidance and regulation](#)

[News and communications](#)

[Research and statistics](#)

[Policy papers and consultations](#)

[Transparency and freedom of information releases](#)

[Help](#) [Privacy](#) [Cookies](#) [Contact](#) [Accessibility statement](#) [Terms and conditions](#)
Rhestr o Wasanaethau Cymraeg Built by the [Government Digital Service](#)

OGI All content is available under the [Open Government Licence v3.0](#), except where otherwise stated



© Crown copyright