

New symptom tracking app aims to slow spread of coronavirus

March 24 2020



Credit: CC0 Public Domain

Kings College London is today launching a new app which tracks symptoms related to novel coronavirus (COVID-19), allowing anyone to self-report daily. Around 5,000 twins and their families across the UK have been recruited from the TwinsUK cohort study to trial the app, which tracks in real time how the disease progresses.

The aim of the app is to help slow the outbreak, by helping researchers identify:

- How fast the virus is spreading in your area
- High-risk areas in the country
- Who is most at risk, by better understanding symptoms linked to underlying health conditions

Twins using the app will record information about their health on a daily basis, including temperature, tiredness and symptoms such as coughing, breathing problems or headaches. Any participants showing signs of COVID-19 will be sent a home testing kit to better understand what symptoms truly correspond to the coronavirus infection. Researchers believe this is clinically urgent given the current limits on testing.

The app will be also available to the general public without the home testing component of the study.

Comparing genetically [identical twins](#) with [non-identical twins](#), who are as related as regular siblings, will enable researchers to separate the effects of genes from environmental factors such as diet, lifestyle, previous illnesses and infections, and the microbes within the gut (microbiome).

Samples taken from the twin group will be used to generate a biobank for use in future research projects investigating infection and immune responses.

Researchers believe that the data from the study will reveal important information about the symptoms and progress of the COVID-19 infection in different people, and why some go on to develop more severe or fatal disease while others have only mild symptoms.

They also say it will help the urgent clinical need to distinguish mild [coronavirus](#) symptoms from seasonal coughs and colds, which may be leading people to unnecessarily self-isolate when they aren't infected or inadvertently go out and spread the disease when they are.

Led by Professor Tim Spector, professor of genetic epidemiology at King's College London, TwinsUK is a scientific study of 15,000 identical and non-identical twins, which has been running for nearly three decades. Most already have taken part in comprehensive genetic analysis and immune profiling, as well as detailed gut microbiome profiling. At least 5,000 members of the existing twin cohort and their families are expected to sign up for this new study.

The free monitoring app has been developed as a partnership between researchers at King's College London and health data science company ZOE—itsself a spin-out from King's—and will be widely available to health staff and the [general public](#) who wish to contribute to this research. It will also be used by other large population studies in the UK and US.

Professor Tim Spector from King's College London said: "These are worrying times for everyone. Our [twins](#) are fantastically committed, enthusiastic health research participants who have already been studied in unprecedented detail, putting us in a unique position to provide vital answers to support the global fight against COVID-19. The more of the public that also use the app, the better the real-time data we will have to combat the outbreak in this country."

More information: COVID Symptom Tracker App:
covid.joinzoe.com/

Provided by King's College London

Citation: New symptom tracking app aims to slow spread of coronavirus (2020, March 24)
retrieved 27 April 2024 from

<https://medicalxpress.com/news/2020-03-symptom-tracking-app-aims-coronavirus.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.