xRcovid: the smartphone app for rapid Covid-19 testing and analysis

Overview

The xRapid group presents xRcovid; the first mobile app to analyse and monitor results from RDTs (rapid diagnostic serological tests) for Covid-19. So simple it can be done by anyone with a smartphone and an RDT – allowing for widespread diagnosis in homes, businesses, hospitals and test centres.

Thanks to a patented artificial intelligence algorithm, first designed to detect malaria, the app can:
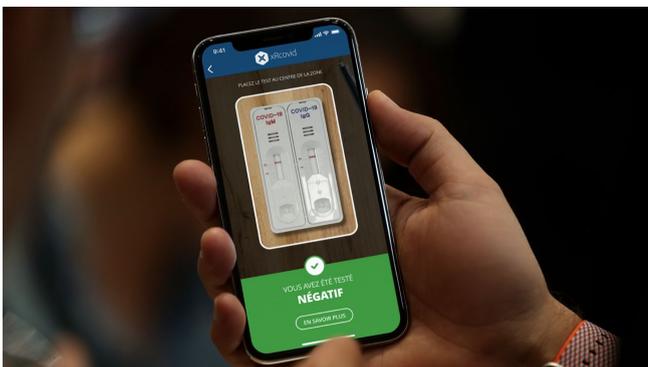
- Guarantee the reliability of the test and the clarity of the result
- Ensure compliance of rapid diagnostic tests (RDTs)
- Most importantly, by logging the results of hundreds of thousands of tests, we can understand in real time where the hotspots are and which places are past the peak. This allows authorities to make nimble, smart decisions about where to put resources and where to consider lifting restrictions.

Test results are only valuable when they're put in context and analysed.

Already available on iOS, xRcovid is currently being tested in France at the Kremlin-Bicêtre hospital and the Marseilles Nord hospital. Testing is expected to conclude by the end of April, at which time the app will be made available to governments and health authorities free of charge. The Android version is currently also in development.

How it works

A smartphone lens is considerably more accurate than the human eye. The smartphone camera takes a picture of an RDT and the artificial intelligence of the app then ensures the conformity of the test. It reads and interprets the result for the user, and displays whether the test is positive, negative or inconclusive.

The application sends the data to a secure server accessible to the health authority. The data governance will then be the responsibility of the authority.

xRcovid allows authorities to know in real time the data relating to the spread of the virus, while guaranteeing clear results and consistent tests whilst protecting personal data. This information will offer an accurate mapping of the spread of the virus, allowing authorities access to geographical data of those currently sick, immune or remaining vulnerable.

When the UK meets its target of 100,000 tests a day, a process will then be needed to analyse the data and allow decisions to be made in real time, based on the patterns that emerge. We need a system like xRcovid to make this possible that is both reliable and works at scale. As RDTs become available xRcovid offers a diagnostic solution unparalleled in the sector.

Watch the video here: https://www.youtube.com/watch?v=1Vdcs8Kuoaw&t=9s

About xRapid

xRapid Group is an international start-up created in 2015 and composed of 25 collaborators. Located in France, Great Britain, the United States and China, it launched an application to detect malaria in 2015, fiber analysis in 2018, and has just won an innovation award in the health and wellness category at CES 2020 in Las Vegas for its at-home blood tests. The team working on the xRcovid project is made up of health and blood biochemistry experts, as well as professionals in artificial intelligence and real-time diagnostic image analysis.

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