

# ACCEPTABILITY AND USABILITY OF HOME-BASED ANTIBODY TESTING

REACT-2 Study 3 aimed to explore how easily members of the public could use finger-prick antibody tests at home, before larger scale testing began.



## 25,000 INVITATION LETTERS SENT

Addresses from the Postal Address File were used to randomly select a sample of adults in England. Invitation letters were sent out in batches until at least 10,000 people registered to take part.



**17,411**

People registered to take part showing there is high public willingness and acceptability for antibody testing



## 14,400 TESTING KITS POSTED

Finger-prick antibody testing kits were couriered to participants along with an instructional booklet and a link to an online video. Two antibody kits were tested during this phase.



**10,600**

Wondfo testing kits sent [Kit 1]



**3,800**

Orient Gene testing kits sent [Kit 2]



## 11,604 PEOPLE ATTEMPTED TEST

The test involved performing a finger-prick to draw a drop of blood. The blood is then added to the antibody testing stick, followed by a few drops of a test liquid. The test result appeared 10-15 minutes later, depending on the kit received.



**Around 97%**

Successfully completed the antibody test



**Up to 94%**

Achieved a valid test result



**About 1 in 4**

Got help from someone to perform the test



## 11,711 FEEDBACK FORMS RETURNED

Participants shared their experiences via phone or an online feedback form. They also had the option of uploading a photo of their test result to confirm results were being read correctly.



**Almost 3 in 4**

Would prefer to perform the test at home over a clinical setting or testing centre



**Over 97%**

Willing to perform an antibody test again, which reconfirms the high public acceptability for testing



**Of the 3%**

That did not successfully complete the test, reasons included not applying enough blood, not applying the blood and test liquid correctly, spilling test liquid



## KEY NOTES FOR FUTURE TESTING

Several changes to the instruction booklet and testing kit items appeared to improve the overall usability, but some key points need further thought. Kit 2 selected for use in larger scale testing.



**Getting blood drop and transferring blood**

Still raised as an issue despite changes to instructions



**Impact on behaviour & mental well-being**

Further research is needed to understand the meaning that people place on these antibody test results

For the full published findings and further updates on REACT, visit [www.imperial.ac.uk/medicine/research-and-impact/groups/react-study/](http://www.imperial.ac.uk/medicine/research-and-impact/groups/react-study/)

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