

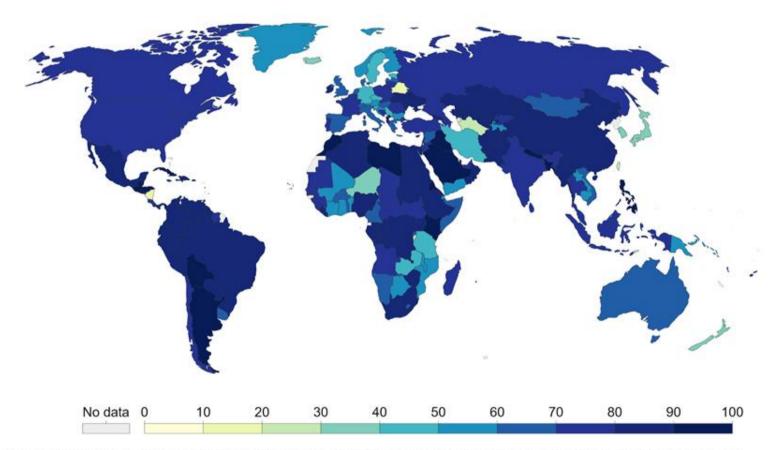
The implications of immunity certification

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COVID-19: Government Response Stringency Index, May 27, 2020



The Government Response Stringency Index is a composite measure based on nine response indicators including school closures, workplace closures, and travel bans, rescaled to a value from 0 to 100 (100 = strictest response).



Source: Hale, Webster, Petherick, Phillips, and Kira (2020). Oxford COVID-19 Government Response Tracker – Last Updated 7th July. Note: This index simply records the number and strictness of government policies, and should not be interpreted as 'scoring' the appropriateness or effectiveness of a country's response.

OurWorldInData.org/coronavirus • CC BY

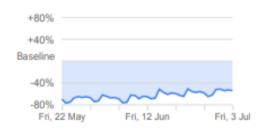
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Cambridgeshire

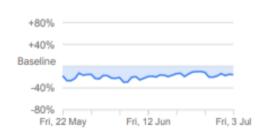


-54% compared to baseline



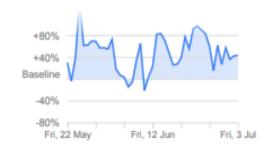
Supermarket and pharmacy

-16% compared to baseline



Parks

+44% compared to baseline



Public transport

-48% compared to baseline



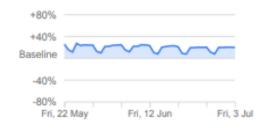
Workplaces

-51% compared to baseline

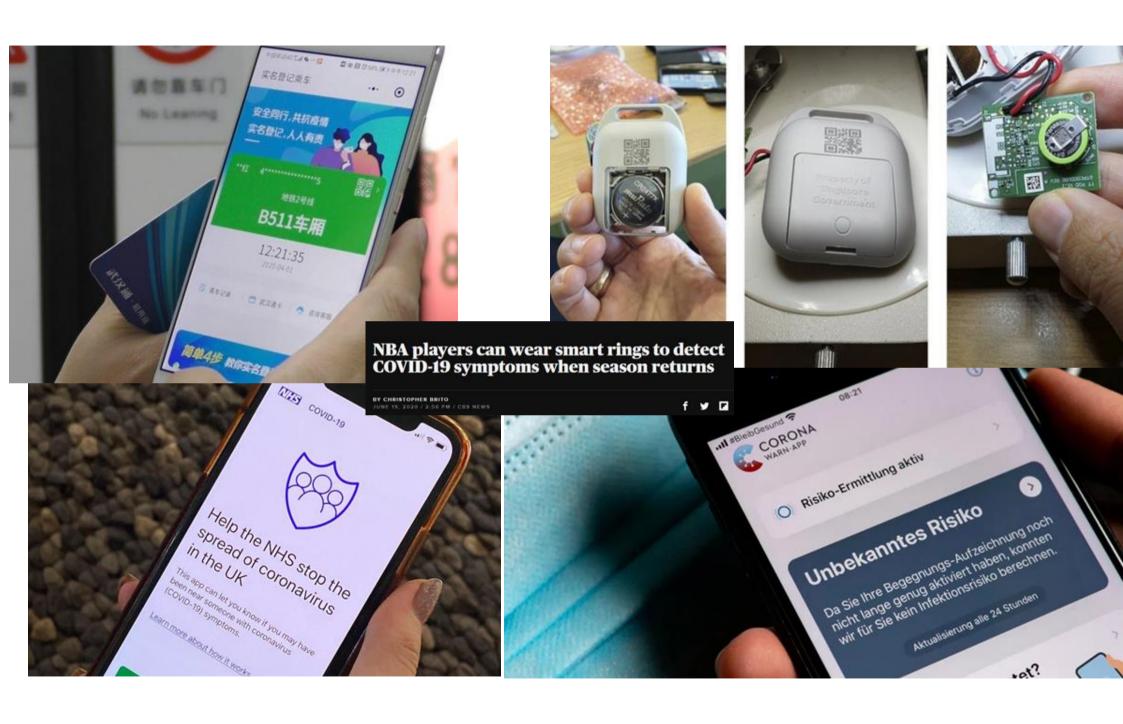


Residential

+20% compared to baseline



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NHS not ready to begin mass testing

Organization

Chris Smyth

Wednesday March 18 2020, 12:01am, The Times



Find more information and how to book a test at **gov.uk/coronavirus**

Scotland

Cymru Local News

NHS

STAY HOME

PROTECT

THE NHS

SAVE LIVES

Coronavirus: Boris Johnson vows more virus tests as UK deaths exceed 2,000

Alba

① 1 April 2020







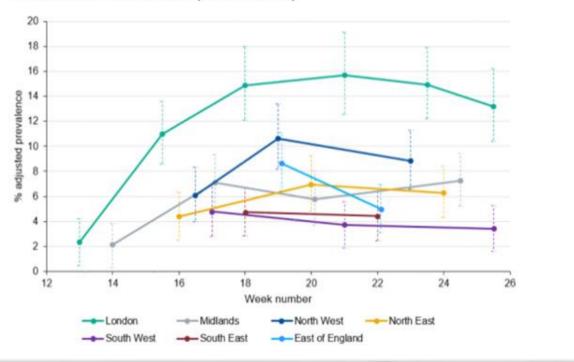
Coronavirus : NHS to ramp up testing capacity



6.3%

Sero-prevalence epidemiology, England

Figure 34: Overall SARS-CoV-2 antibody seroprevalence (%) in blood donors by PHE centres, using Euroimmun test adjusted for sensitivity (82.5%) and specificity (99.1%) and 95% confidence intervals (dashed lines)



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ONS Coronavirus infection survey Pilot <a href="https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/datasets/coronaviruscovidl9infectionsurveydata: genome campus PHE Weekly Coronavirus Disease 2019 (COMD-19) Surveillance Report

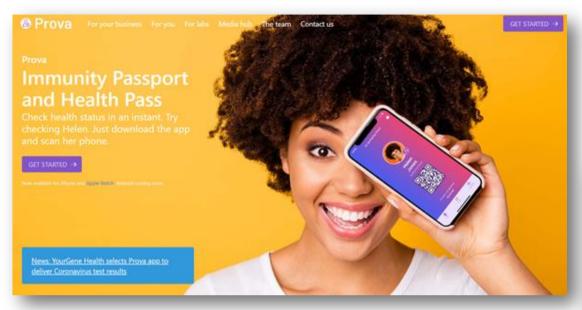
"We are looking at an immunity certificate how people who have had the disease, have got the antibodies and therefore have the immunity, can show that and so get back, as much as possible, to normal life," (Matt Hancock 2/4/20)



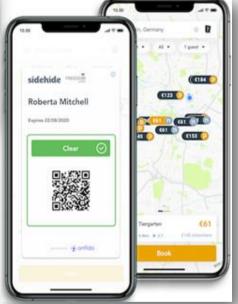
https://www.adalovelaceinstitute.org/our-work/identities-liberties/international-public-health-identity-systems-monitor/

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The value of immunity certification





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"Victory had perched upon my banner; I was an acclimated citizen, and as such, received into full favor in the good city of New-Orleans, where they distrust every body, and call them non-residents, until they become *endorsed* by the yellow fever."

(Roanoke in Olivarius)

"If a man intends to make himself a citizen of New Orleans, his first duty is to become acclimated. He owes it to himself and to society."

(Picayune 1841 in Olivarius 2019)

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SOCIETY+ SOCIETY+ ETHICS RESEARCH Discrimination

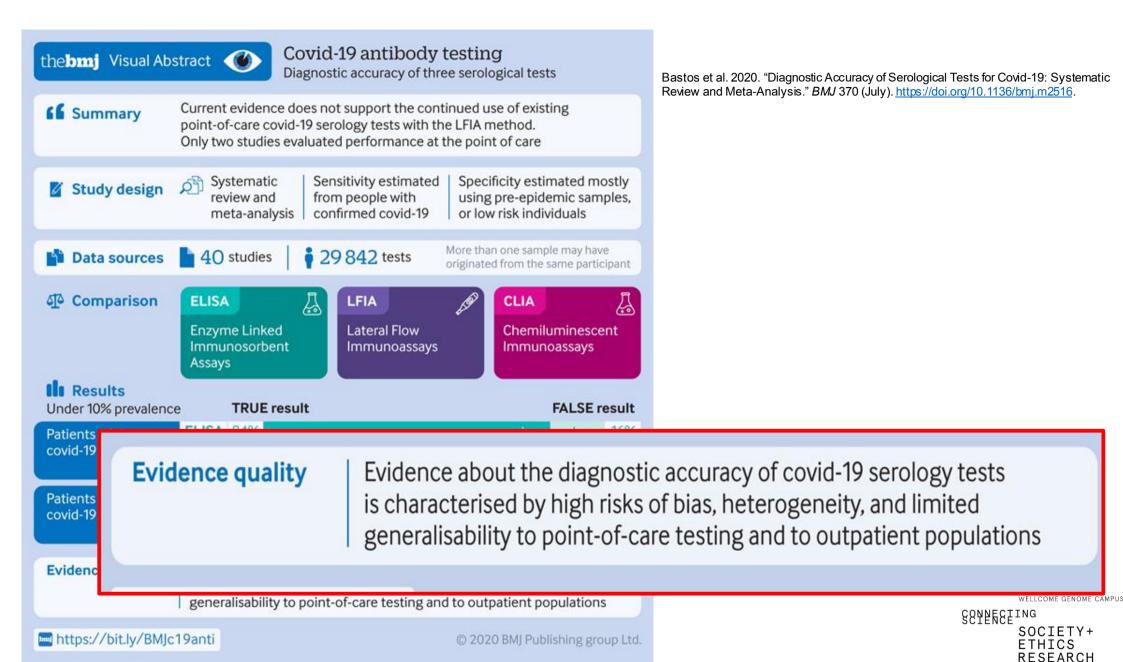
Equity

Perverse incentives

Evidence

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At this point in the pandemic, there is not enough evidence about the effectiveness of antibody-mediated immunity to guarantee the accuracy of an "immunity passport" or "risk-free certificate."

(WHO, 24 April)

"I know we all want it to be true that if we have antibodies it will then mean we are free to do things others are not...but at the moment ... if we have an antibody test, what it tells you is that you have antibodies."

(Dido Harding, 11/6/20)



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Conclusions

- Immunity passports are one a range of approaches being considered by governments and companies
- May enable restoration of economic and social freedoms
- May exacerbate existing inequalities, and present risks to individuals and to public health efforts
- Accuracy and implications of antibody testing are not fully understood
- Despite this, there may nevertheless be a market for testing if any privilege is seen to be associated with it

Further reading

- Ada Lovelace Institute (2020) International Monitor: Public Health Identity Systems
 https://www.adalovelaceinstitute.org/our-work/identities-liberties/international-public-health-identity-systems-monitor/
- Nuffield Council on Bioethics (2020) COVID-19 antibody testing and 'immunity certification': Rapid Policy Briefing https://www.nuffieldbioethics.org/assets/pdfs/Immunity-certificates-rapid-policy-briefing.pdf
- Togni, G. et al. https://discoversociety.org/2020/06/01/imagining-life-with-immunity-passports-managing-risk-during-a-pandemic/
- Kofler, Natalie, and Françoise Baylis. 2020. "Ten Reasons Why Immunity Passports Are a Bad Idea." *Nature* 581 (7809): 379–81. https://doi.org/10.1038/d41586-020-01451-0.
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- Phelan, Alexandra L. 2020. "COVID-19 Immunity Passports and Vaccination Certificates: Scientific, Equitable, and Legal Challenges." The Lancet 395 (10237): 1595–98. https://doi.org/10.1016/S0140-6736(20)31034-5.
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- Weinstein, Milton C., Kenneth A. Freedberg, Emily P. Hyle, and A. David Paltiel. 2020. "Waiting for Certainty on Covid-19 Antibody Tests At What Cost?" New England Journal of Medicine https://doi.org/10.1056/NEJMp2017739.

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