**The COVID-19 Rapid Survey of Adherence to Interventions and Responses (CORSAIR) study: Final report. 22 June 2022**

Rubin GJ, Smith LE, Potts HWW, Fear NT, Amlôt R, Michie S.

***Background***

In 2012, our joint team from King’s College London, University College London and Public Health England (now the UK Health Security Agency) were awarded a grant by the National Institute of Health Research (NIHR) to develop a set of survey questions that could be used in the event of a future pandemic. The tool was intended to help academics and policy makers understand how the public were responding to the pandemic in terms of their behaviours, factors influencing those behaviours, and what impact official communications and policies were having. The NIHR funding allowed us to conduct preparatory work to develop the questions and then to ‘hibernate’ the study until a pandemic occurred. The plan was that, if and when a pandemic broke out, we would come out of hibernation and assist the English Department of Health and Social Care (DHSC) in launching, modifying and analysing their surveys. The result of the preparatory work was a tool which we named FluTEST (the Flu Telephone Survey Template).

***Activation***

In January 2020, as SARS-CoV-2 spread rapidly around the world, the communications team within DHSC began a series of surveys to understand how the UK public were responding based on FluTEST (initial work in 2012-4 had presumed surveys would be done by telephone, but changes in society’s usage of telecommunications meant that surveys switched to online). The first data were collected on 28 January 2020. Each survey wave collected data in an online questionnaire from around 2,000 respondents over the course of two to three days, with data collection being subcontracted to a market research company. FluTEST was activated by NIHR in February 2020 and the team set to work analysing the waves of data that had already been collected and proposing changes to future waves. The work continued under the new name of CORSAIR (the COVID-19 Rapid Survey of Adherence to Interventions and Responses) until 31 March 2022, analysing 73 waves of data collection (approximately 149,600 responses). We are continuing to produce publications from the data and so far we have produced 45 reports, 15 pre-prints and 12 peer-reviewed publications.

***Dissemination***

As intended, the DHSC and Cabinet Office communications teams were the primary ‘customers’ for CORSAIR outputs throughout the activation period. However, because we had close links to several Government advisory groups, we were also able to identify and respond to needs for data analyses from SAGE, SPI-B, NERVTAG, NHSE and NHSX.

Publications and pre-prints were regularly highlighted to academic and policy colleagues via the weekly UKHSA Behavioural Science Literature Report (available here: <https://ukhsalibrary.koha-ptfs.co.uk/coronavirusinformation/>), while presentations based on our data were provided to NHS Test and Trace, UKHSA and in cross-Whitehall seminars.

Key results were also disseminated to the public through engagement with the media. This included coverage in The Financial Times, Guardian, Independent, Daily Mail, Telegraph and Washington Post and interviews with our team on Sky News, Today, BBC Radio 5 and LBC, among others.

Our study website has links to all reports, pre-prints and papers arising from the work: <http://epr.hpru.nihr.ac.uk/our-research/research-themes/response/corsair-study>

***Impact***

Data from CORSAIR were cited in dozens of reports produced by SAGE and SPI-B. Analyses by the team informed, among other things:

* The finding by SAGE on 23rd March 2020 that the then voluntary arrangements in place to reduce the spread of infection left room for improvement, contributing to the evidence base behind the decision that the UK would enter a full, compulsory lockdown.
* The SAGE-endorsed SPI-B paper on improving rates of adherence to self-isolation (17 September 2020), which in turn informed the Government’s decision to offer £500 grants to those on low incomes who were asked to self-isolate.
* Routine briefings to UKHSA-led National Covid Response Centre Situational Awareness Meetings (NCRC SAM) across a range of policy and operational areas, including on symptom attribution/recognition, self-isolation adherence, vaccination uptake and public perceptions and behavioural intentions relating to the COVID-19 pandemic.

***Lessons***

Several successes were identified, including:

1. Collaboration between the academic and policy teams was a success, although it took time to build relationships. Regular meetings allowed both parties to understand priorities and develop analyses that were both academically interesting and had direct application to policy problems. We recommend a similar joint working style in future crises.
2. Being linked to a Health Protection Research Unit (HPRU) was helpful. The HPRU seconded a skilled research associate to work on the project allowing an immediate start and covered her salary during periods when we were awaiting confirmation of funding extensions from NIHR. The flexibility afforded by the HPRU funding scheme is an important element to our emergency response capabilities.
3. The involvement of team members in multiple advisory groups within Government allowed us to disseminate results quickly and understand a wider set of policy needs. Any future iteration of the FluTEST / CORSAIR project should seek to have at least one member attend the relevant scientific advisory groups, either as a member or at least as an observer.

We also identified the following challenges:

1. Work in the early stages of the pandemic could have been more efficient if we were clearer as to the role of the academic team. Our USP was providing detailed examination of specific topics, rather than providing rolling reports about the data.
2. The academic and policy teams took different stances on the best timing for publications. While a compromise was found, we should have been clearer about this earlier. Future iterations of the project should include agreement on day one of what can be published when. This will need to balance the right of policy teams to consider their data before releasing it with the need to place academic findings into the public domain so that they can be reviewed and provide benefit to others.
3. Errors were identified in the data supplied to us, that required us to submit errata to our peer-reviewed publications. A change to the contracted market research company also caused challenges to us in matching-up data and identifying subtle changes to question formats. Future work should seek to retain a single supplier throughout and pay close attention to quality assurance. The relationship between the academic team and those collecting the data should be established as early as possible.

***Acknowledgments***

We are grateful to: NIHR and the Emergency Preparedness and Response Health Protection Research Unit for providing funding; our colleagues at the Department of Health and Social Care for granting access to their data and supporting the work; the teams at BMG and Savanta for discussing the polling with us on innumerable occasions; the members of our advisory group for providing a sounding board for our ideas; the dozens of peer reviewers who checked and improved our manuscripts; and the tens of thousands of people who contributed their data to the research.

***Publications and reports***

*Pre-hibernation papers*

* *Rubin GJ, Bakhshi S, Amlot R, Fear N, Potts HWW, Michie S.*[***The design of a survey questionnaire to measure perceptions and behaviour during an influenza pandemic: the Flu Telephone Survey Template (FluTEST).***](https://www.ncbi.nlm.nih.gov/books/NBK263566/)*Health Services and Delivery Research. 2014;2(41): 1-125. doi: 10.3310/hsdr02410*
* *Simpson CR, Knight M, Beever D, Challen K, De Angelis D, Fragaszy E, Goodacre S, Hayward A, Shen Lim W, Meakin G,* *Rubin GJ, Semple M, Walters H.*[***The UK's pandemic influenza research portfolio: a model for future research on emerging infections***](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099%2818%2930786-2/fulltext)*. The Lancet Infectious Diseases. 2019;19(8):e295-e300 doi:10.1016/S1473-3099(18)30786-2.*

*Data reports*

* [**Worry, behaviour and stigma following UK Government communications during the COVID-19 outbreak: results from three UK surveys**](http://epr.hpru.nihr.ac.uk/sites/default/files/Covid19%20Report%201.docx) (Shared with DHSC, 24 February 2020)
* [**Worry, recommended behaviours and stigma. Wave 4 – 17th to 20th February 2020**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Worry%2C%20recommended%20behaviours%20and%20stigma%2026-2-20.docx) (Shared with DHSC, 26 February 2020)
* [**Vulnerable populations. Wave 6 – 2nd to 5th March 2020**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Vulnerable%20populations%209-3-20.docx) (Shared with DHSC, 9 March 2020)
* [**Key information sources, by wave**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Key%20info%20sources%20by%20wave%2017-3-20.docx) (Shared with DHSC, 17 March 2020)
* [**Hand hygiene behaviours – impact of handwashing campaign**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Handwashing%20and%20impact%20of%20campaign%2017-3-20.docx) (Shared with DHSC, 17 March 2020)
* [**Vulnerable populations. Wave 7 – 9th to 11th March 2020**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Vulnerable%20populations%2017-3-20.docx) (Shared with DHSC, 17 March 2020)
* [**Symptom knowledge and intentions when ill**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Symptom%20knowledge%20and%20intentions%20when%20ill%2018-3-20.docx) (Shared with DHSC, 18 March 2020)
* [**Self-reported adherence to social distancing measures**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Self-reported%20adherence%20to%20social%20distancing%203-4-20.docx) (Shared with DHSC, 3 April 2020)
* [**Self-reported adherence to self-isolation**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Self-reported%20adherence%20to%20self-isolation%207-4-20.docx) (Shared with DHSC, 7 April 2020)
* [**Handwashing behaviours**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Handwashing%20behaviours%209-4-20.docx) (Shared with DHSC, 9 April 2020)
* [**Symptom identification and associated factors**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Symptom%20identification%20and%20associated%20factors%209-4-20.docx)(Shared with DHSC, 9 April 2020)
* [**Changes in behaviour if you think you have ever had coronavirus or have had it confirmed by a test**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Changes%20in%20behaviour%20if%20you%20think%20you%20have%20ever%20had%20coronavirus%20or%20have%20had%20it%20confirmed%20by%20a%20test%2014-4-20.docx) (Shared with DHSC, 14 April 2020)
* [**Keeping well physically and psychological wellbeing during the Government “lockdown”, and impact on adherence to social distancing measures**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Wellbeing%20and%20impact%20on%20adherence%20to%20social%20distancing%20measures%2020-4-20.docx) (Shared with DHSC, 20 April 2020)
* [**Psychological wellbeing and self-reported general health**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Psychological%20wellbeing%20and%20quality%20of%20life%207-5-20.docx) (Shared with DHSC, 7 May 2020)
* [**Self-reported adherence to self-isolation and social distancing measures**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Self-reported%20adherence%20to%20social%20distancing%20and%20self-isolation%2011-5-20.docx) (Shared with DHSC, 11 May 2020)
* [**Personal protective behaviours in NHS workers**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20NHS%20England%20-%20Personal%20protective%20behaviours%20in%20NHS%20workers%2014-5-20.docx) (Shared with NHS England, 14 May 2020)
* [**Symptom prevalence**](http://epr.hpru.nihr.ac.uk/sites/default/files/Symptom%20prevalence%2022-5-20.docx) (Shared with SPI-B, 22 May 2020)
* [**Ethnicity, COVID-19-related behaviours, attitudes and outcomes**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20%20-%20Ethnicity%2C%20COVID-19-related%20behaviours%2C%20attitudes%20and%20outcomes%208-6-20.docx) (Shared with DHSC, 4 June 2020)
* [**Public perceptions of a COVID-19 tracking app**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Public%20perceptions%20of%20a%20COVID19%20app%208-6-20.docx) (Shared with DHSC, 8 June 2020)
* [**Factors associated with uptake of the Test, Trace and Isolate (TTI) system**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Factors%20associated%20with%20uptake%20of%20the%20Test%2C%20Trace%20and%20Isolate%20%28TTI%29%20system%2012-6-20.docx) (Shared with DHSC, 12 June 2020)
* [**Physical distancing and related behaviours: changes over time**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Physical%20distancing%20and%20related%20behaviours%20-%20changes%20over%20time%2016-6-20.docx) (Shared with DHSC, 16 June 2020)
* [**Public perceptions of a COVID-19 tracking app**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Public%20perceptions%20of%20a%20COVID-19%20tracking%20app%2013-7-20.docx) (Shared with DHSC, 13 July 2020)
* [**Factors associated with requesting an antigen test and self-isolating after developing symptoms of coronavirus**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Factors%20associated%20with%20requesting%20an%20antigen%20test%20and%20self-isolating%20after%20developing%20symptoms%20of%20coronavirus%2017-7-20.docx) (Shared with DHSC, 14 July 2020)
* [**Adherence to the test, trace and isolate system (CORSAIR study). (Shared with SAGE, 3 September 2020).**](https://www.gov.uk/government/publications/adherence-to-the-test-trace-and-isolate-system-results-from-a-time-series-of-21-nationally-representative-surveys-in-the-uk-3-september-2020)
* [**Annex to Evidence summary of impacts to date of public health communications to minority ethnic groups and related challenges. (Annex to Report by Ethnicity Subgroup of SAGE, 23 September 2020)**](https://www.gov.uk/government/publications/evidence-summary-of-impacts-to-date-of-public-health-communications-to-minority-ethnic-groups-and-related-challenges-23-september-2020)
* [**Socialising indoors and outdoors**](http://epr.hpru.nihr.ac.uk/sites/default/files/Socialising%20indoors%20and%20outdoors%2020-10-20.docx) (Report to inform [**Nervtag paper**](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/933226/S0825_NERVTAG-EMG_Seasonality_and_its_impact_on_COVID-19.pdf), 20 October 2020)
* [**Use of the NHS COVID-19 App**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Use%20of%20the%20COVID-19%20app%202-11-20.docx) (Shared with DHSC, 2 November 2020)
* [**Clusters of behaviours and adherence**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20clusters%20of%20behaviour%20and%20adherence%205-11-20.docx) (Shared with DHSC, 5 November 2020)
* [**Ventilation**](http://epr.hpru.nihr.ac.uk/sites/default/files/Ventilation%2025-11-20.docx) (Shared with SPI-B and EMG, 25 November 2020)
* [**Clusters of self-reported behaviours and adherence in those who had COVID-19 symptoms**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20clusters%20of%20self-reported%20behaviour%204-12-20.docx) (Shared with DHSC, 4 December 2020)
* [**Workplace attendance in people able to work and factors predicting it: evidence from cross-sectional surveys. Report to SAGE 4 February 2021**](https://www.gov.uk/government/publications/academics-workplace-attendance-in-people-able-to-work-from-home-and-factors-predicting-it-evidence-from-cross-sectional-surveys-4-february-2021)
* [**Factors associated with vaccine hesitancy**](http://epr.hpru.nihr.ac.uk/sites/default/files/Factors%20associated%20with%20vaccine%20hesitancy%2010-3-21.docx) (Shared with SPI-B, 10 March 2021)
* [**Impact of vaccination on adherence to rules and guidance about personal protective behaviours (PPBs) and social distancing**](http://epr.hpru.nihr.ac.uk/sites/default/files/Impact%20of%20vaccination%20on%20PPBs%20w42-45%20150421.docx) (Shared with DHSC, 13 April 2021)
* [**Impact of attitudes and beliefs about COVID-19 on adherence to rules and guidance about personal protective behaviours (PPBs) and social distancing**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Impact%20of%20attitudes%20and%20beliefs%20about%20COVID-19%20on%20adherence%20to%20rules%20and%20guidance%20about%20personal%20protective%20beha%207-5-21.docx)(Shared with DHSC, 7 May 2021)
* [**Who is engaging with COVID-19 testing?**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Who%20is%20engaging%20with%20COVID-19%20testing%208-7-21.docx) (Shared with DHSC, 14 June 2021)
* [**Recognition of symptoms of COVID-19**](http://epr.hpru.nihr.ac.uk/sites/default/files/Symptom%20recognition%2014-6-21.docx)(Shared with PHE, 14 June 2021)
* [**Graphs of validated measures [PHQ4, SWEMWS, AUDIT-C]**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Graphs%20of%20validated%20measures%2023-6-21.docx) (Shared with DHSC, 23 June 2021)
* [**Impact of vaccination on adherence to rules and guidance about personal protective behaviours (PPBs) and social distancing**](http://epr.hpru.nihr.ac.uk/sites/default/files/Impact%20of%20vaccination%20on%20PPBs%20w51-52%20250621.docx) (Shared with DHSC, 25 June 2021)
* [**Do members of the public think they should use lateral flow tests or PCR tests when they have COVID-19-like symptoms? The COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Who%20is%20engaging%20with%20COVID-19%20testing%208-7-21_0.docx). (Shared with DHSC, 28 June 2021)
* [**Changes in behaviour following 19 July 2021**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Changes%20in%20behaviour%20after%2019%20July%202021%206-8-21.docx)(Shared with DHSC, 6 August 2021)
* [**Risky social mixing**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Risky%20social%20mixing%209-8-21.docx) (Shared with DHSC, 9 August 2021)
* [**Risky social mixing – age in bands**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Risky%20social%20mixing%20-%20age%20in%20bands%2018-8-21.docx) (Shared with DHSC, 18 August 2021)
* [**Testing when symptomatic, and staying at home with influenza-like illness, during autumn and winter 2021 (Report to SAGE, 30 September 2021)**](https://www.gov.uk/government/publications/testing-when-symptomatic-and-staying-at-home-with-influenza-like-illness-during-autumn-and-winter-2021-30-september-2021)
* [**Agency and risk  - impact on adopting protective behaviours**](http://epr.hpru.nihr.ac.uk/sites/default/files/Report%20to%20DHSC%20-%20Agency%20and%20risk%20analysis%20report%205-11-21.docx)(Shared with DHSC, 5 November 2021
* [**At risk groups**](http://epr.hpru.nihr.ac.uk/sites/default/files/At%20risk%20groups%2021-12-21.docx)(Shared with SPI-B Chairs, 21 December 2021)

*Pre-prints*

* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Worry and behaviour at the start of the COVID-19 outbreak: results from three UK surveys (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://osf.io/h28gq/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/h28gq
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Holding a stigmatising attitude at the start of the COVID-19 outbreak (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://osf.io/uqvxs/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/uqvxs
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Engagement with protective behaviours in the UK during the COVID-19 pandemic: A series of cross-sectional surveys (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://osf.io/g6qbx/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/g6qbx
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Adherence to the test, trace and isolate system: results from a time series of 21 nationally representative surveys in the UK (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://www.medrxiv.org/content/10.1101/2020.09.15.20191957v1). medRxiv (2020). DOI [pre-print]: 10.1101/2020.09.15.20191957
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Psychological wellbeing in the English population during the COVID-19 pandemic: a series of cross-sectional surveys**](https://osf.io/yj5nb/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/yj5nb
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Intention to adhere to test, trace, and isolate during the COVID-19 pandemic (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://osf.io/s85cm/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/s85cm
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**How have patterns of social mixing changed during the pandemic? A series of cross-sectional nationally representative surveys**](https://osf.io/duxvf/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/duxvf
* Michie S, Potts HWW, West R, Amlôt R, Smith LE, Fear NT, Rubin GJ. [**Factors associated with nonessential workplace attendance during the Covid-19 pandemic in the UK in early 2021: evidence from cross-sectional surveys**](https://osf.io/tzhm6/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/tzhm6
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Tiered restrictions for COVID-19 in England: knowledge, motivation to adhere and self-reported behaviour (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study)**](https://osf.io/ukvw2/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/ukvw2
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Who is engaging with lateral flow testing for COVID-19 in the UK? The COVID-19 Rapid Survey of Adherence to Interventions and Responses (CORSAIR) study**](https://osf.io/atn5u/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/atn5u
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Do members of the public think they should use lateral flow tests or PCR tests when they have COVID-19-like symptoms? The COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study**](https://osf.io/jz8kp/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/jz8kp
* Smith LE, West R, Potts HWW, Amlȏt R, Fear NT, Rubin GJ, Michie S. [**Knowledge of self-isolation rules in the UK for those who have symptoms of Covid-19: a repeated cross-sectional survey study**](https://osf.io/dx26j/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/dx26j
* Davies R, Martin AF, Smith LE, Mowbray F, Woodland L, Amlôt R, Rubin GJ. [**The impact of “freedom day” on COVID-19 health protective behaviour in England: An observational study of hand hygiene, face covering use and physical distancing in public spaces pre and post the relaxing of restrictions**](https://osf.io/twgbf/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/twgbf
* Rubin GJ, Amlȏt R, Fear NT, Potts HWW, Michie S, Smith LE. [**Do people with symptoms of an infectious illness follow advice to stay at home? Evidence from a series of cross-sectional surveys in the UK**](https://osf.io/u52fx/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/u52fx
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**How has the emergence of the Omicron SARS-CoV-2 variant of concern influenced worry, perceived risk, and behaviour in the UK? A series of cross-sectional surveys**](https://osf.io/rpcu2/). OSF (2021). DOI [pre-print]: 10.31219/osf.io/rpcu2

*Peer reviewed publications*

* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Adherence to the test, trace, and isolate system in the UK: results from 37 nationally representative surveys**](https://www.bmj.com/content/372/bmj.n608). *BMJ* 2021;372:n608. DOI: 10.1136/bmj.n608
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Do members of the public think they should use lateral flow tests (LFT) or polymerase chain reaction (PCR) tests when they have COVID-19-like symptoms? The COVID-19 Rapid Survey of Adherence to Interventions and Responses study**](https://www.sciencedirect.com/science/article/pii/S0033350621002936?via%3Dihub). *Public Health* 2021. DOI: 10.1016/j.puhe.2021.07.023
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Tiered restrictions for COVID-19 in England: knowledge, motivation, and self-reported behaviour**](https://www.sciencedirect.com/science/article/pii/S0033350621004789?via%3Dihub). *Public Health* 2021. DOI: 10.1016/j.puhe.2021.12.016
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Intention to adhere to test, trace, and isolate during the COVID-19 pandemic (the COVID-19 Rapid Survey of Adherence to Interventions and Responses study)**](https://bpspsychub.onlinelibrary.wiley.com/doi/full/10.1111/bjhp.12576). *British Journal of Health Psychology* 2021. DOI: 10.1111/bjhp.125761
* Smith LE, Potts HW, Amlȏt R, Fear NT, Michie S, Rubin GJ. [**COVID-19 and Ventilation in the Home; Investigating Peoples' Perceptions and Self-Reported Behaviour (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] Study)**](https://pubmed.ncbi.nlm.nih.gov/34035649/). *Environmental Health Insights* 2021;15: 1–2. DOI: 10.1177/11786302211015588
* Michie S, Potts HWW, West R, Amlôt R, Smith LE, Fear NT, Rubin GJ. [**Factors associated with nonessential workplace attendance during the Covid-19 pandemic in the UK in early 2021: evidence from cross sectional surveys.**](https://www.sciencedirect.com/science/article/pii/S0033350621002651) *British Journal of Health Psychology*2021; 198: 106-113. DOI: 10.1016/j.puhe.2021.07.002
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Holding a stigmatizing attitude at the start of the COVID-19 outbreak: A cross-sectional survey**](https://bpspsychub.onlinelibrary.wiley.com/doi/full/10.1111/bjhp.12564). *British Journal of Health Psychology* (2021). DOI: 10.1111/bjhp.12564
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S, Rubin GJ. [**Worry and behaviour at the start of the COVID-19 outbreak. Results from three UK surveys (the COVID-19 Rapid Survey of Adherence to Interventions and Responses [CORSAIR] study).**](https://www.sciencedirect.com/science/article/pii/S2211335521003776) *Preventive Medicine Reports*2021. DOI: 10.1016/j.pmedr.2021.101686.
* Smith LE, Potts HWW, Amlôt R, Fear NT, Michie S & Rubin GJ. [**Who is engaging with lateral flow testing for COVID-19 in the UK? The COVID-19 Rapid Survey of Adherence to Interventions and Responses (CORSAIR) study.**](https://bmjopen.bmj.com/content/12/2/e058060) *BMJ Open* 2022;**12:**e058060. doi: 10.1136/bmjopen-2021-058060.
* Smith LE, Potts HWW, Amlȏt R, Fear NT, Michie S, Rubin GJ.  [**How have patterns of social mixing changed during the pandemic? A series of cross-sectional nationally representative surveys**](https://www.nature.com/articles/s41598-022-14431-3). Science Reports 2022; 12: 10436. DoI: 10.1038/s41598-022-14431-3
* Rubin GJ**,** Smith LE, Amlȏt R, Fear NT, Potts HWW, Michie S. [**Do people with symptoms of an infectious illness follow advice to stay at home? Evidence from a series of cross-sectional surveys in the UK**](https://bmjopen.bmj.com/content/12/5/e060511). BMJ Open 2022; 12: e060511. Doi:10.1136/bmjopen-2021-060511
* Simpson CR, Thomas BD, Challen K, De Angelis D, Fragaszy E, Goodacre S, Hayward A, Lim WS, Rubin GJ, Semple MG, Knight M. [**The UK hibernated pandemic influenza research portfolio: triggered for COVID-19.**](https://www.thelancet.com/pdfs/journals/laninf/PIIS1473-3099%2820%2930398-4.pdf) Lancet Infectious Diseases 2020; doi: 10.1016/S1473-3099(20)30398-4

*Non-peer reviewed*

* Potts HWW, Amlôt R, Fear NT, Michie S, Smith LE, Rubin GJ. [**Rapid research in a pandemic: foresight, preparedness and collaboration.**](https://blogs.bmj.com/bmj/2021/03/31/rapid-research-in-a-pandemic-foresight-preparedness-and-collaboration/) BMJ Opinion 1 April 2021.