Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Supplementary appendix for the study

Lessons from countries implementing find, test, trace, isolation and support policies in the rapid response of the COVID-19 pandemic: a systematic review

Supplementary section one: Search strategy

Excample database: MEDLINE (PubMed)

We applied search terms "contact tracing" or "testing" or "self-isolation" or "quarantine" in the title in combination with "Covid-19" or "COVID-19" or "coronavirus" in the title or text. The studies were published between May 31th 2019 and May 31th 2020.

MEDLINE (PubMed) search: "contact"[Title] OR "contact tracing"[Title] OR "testing"[Title] OR "isolation"[Title] OR "quarantine"[Title] OR "self-isolation"[Title]) AND ("Covid-19"[Title/Abstract] OR "COVID-19"[Title/Abstract] OR "coronavirus"[Title/Abstract])

Filters applied: Clinical Study, Clinical Trial, Controlled Clinical Trial, Evaluation Study, Government Document, Journal Article, Meta-Analysis, Multicenter Study, Observational Study, Practice Guideline, Pragmatic Clinical Trial, Randomized Controlled Trial, Review, Systematic Reviews, Technical Report, in the last 1 year, Humans, English, MEDLINE.

We applied the same search strategy for Cochrane Library, SCOPUS and JSTOR.

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Supplementary section two: supplementary search strategy for the second review between June 2020 and January 2021

We applied search terms "contact tracing" or "testing" or "self-isolation" or "quarantine" in the title in combination with "Covid-19" or "COVID-19" or "coronavirus" in the title. The studies were published between June 1st 2020 and January 21st 2021.

Excample database: MEDLINE (PubMed)

 (("contact tracing"[Title] OR "testing"[Title] OR "self-isolation"[Title]) AND ("Covid-19"[Title] OR "COVID-19"[Title])) Filters: Clinical Trial, Controlled Clinical Trial, Evaluation Study, Government Publication, Journal Article, Meta-Analysis, Observational Study, Practice Guideline, Pragmatic Clinical Trial, Randomized Controlled Trial, Review, Systematic Review, Technical Report, Humans, English, MEDLINE, from 2020/6/1 - 2021/1/21

Result in 392 studies

Exclude 73 studies have citations not yet completed MEDLINE indexing.

Result in 319 studies

Other exclusion criteria:

Items that were not directly focused on COVID-19 or strategy of testing, contact tracing or isolation in the general population, or not in the format of a research report, and studies with very small sample size <=5

After title screening: remove 180, 139 remains

After abstract screening: remove 49, 95 remains

We applied the same search strategy for Cochrane Library, SCOPUS and JSTOR.

The total studies after abstract screening: 148

The total studies after text screening: 58

Table S1: Baseline table for reviewed studies.

Authors	Published year	Study type	Study aim(s)
Abdalhamid B et al.	2020	Laboratory report	To establish the optimal parameters for group testing of pooled specimens for the detection of SARS-CoV-2.
Aslam et al.	2020	Policy review	To analyse and provide policy recommendation for COVID-19 response
Banskota S et al.	2020	Narrative review	To narratively summarise 15 apps for older adults during quarantine
Binnicker MJ et al.	2020	Brief report	To provide suggestions on robust and sustainable system for testing
Brooks SK et al.	2020	Rapid review	Review of evidence on the psychological impact of quarantine
Canova V et al.	2020	Rapid assessment	To report on an urgent assessment of possible community transmission
Chen CM et al.	2020	Case study	To report on mass contact tracing and quarantine with big data
Döhla M et al.	2020	Technical report	To evaluate COVID-19 rapid testing methods
Eberhardt JN et al.	2020	Case study	To report on multi-stage group testing schemes
Ekong I et al.	2020	Rapid review	To exploratory review of COVID-19 contact tracing methods
Farooq A et al.	2020	Online survey	To evaluate the impact of online information on the individual-level intention to voluntarily self-isolate
Favaloro EJ et al.	2020	Commentary	To summarise a list of contemporary laboratory tests
Ferretti L et al.	2020	Simulation study	To model key parameters for COVID-19 transmission
Gupta N et al.	2020	Case study	To describe laboratory response to COVID-19 in India
Han E et al.	2020	Brief report	To summarise of COVID-19 response in Taiwan
Hellewell J et al.	2020	Simulation study	To develop a stochastic COVID-19 transmission model
Hill K et al.	2020	Technical report	To describe the drive-through coronavirus testing
Kakimoto K et al.	2020	Outbreak investigation	To investigate COVID-19 transmission on a cruise ship during quarantine
Keeley AJ et al.	2020	Technical report	To communicate results of the roll-out of SARS-CoV-2 testing
Klimburg et al.	2020	Policy review	To provide recommends digital contact tracing and quarantine tools.
Klonowska et al.	2020	Policy report	To report on the digital COVID-19 response in the EU
Koh D et al.	2020	Brief report	To discuss COVID-19 case finding
Lagier JC et al.	2020	Case study	To report on COVID-19 testing for repatriated flights passangers

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Lei L et al.	2020	Survey study	To assess anxiety and depression associated with COVID-19 quarantine
Manchein C et al.	2020	Modelling study	To analyse the mode of COVID-19 transmission
Marcel S et al.	2020	Case study	To describe the COVID-19 testing strategy in Switzerland
Mark K et al.	2020	Case study	To describe COVID-19 testing in Lothian, Scotland
Meinert E et al.	2020	Case study	To describe an app to mitigate isolation due to social distancing
Nussbaumer-Streit B et al.	2020	Rapid review	To implement a rapid review on the effectiveness of quarantine during COVID-19
Omori R et al.	2020	Modelling study	To model COVID-19 transmission
Parmet WE et al.	2020	Brief report	To discuss the legal aspects in COVID-19 quarantine
Peçanha T et al.	2020	Brief report	To discuss the cardiovascular burden of physical inactivity during COVID-19 self-isolation
Razai MS et al.	2020	Brief report	To discuss the psychological burden associated with COVID-19 self-isolation
Schulman R et al. .	2020	Brief report	To discuss the false knowledge associated with COVID-19
Schwartz J et al.	2020	Case study	To explore whether enhanced cooperation with local government and community institutions can effectively supplement state-centric public health epidemic responses.
Sjödin H. et al.	2020	Simulation study	To model the COVID-19 progression under different quarantine scenarios
Taghrir MH et al.	2020	Policy review	To review the effect of mass quarantine on COVID-19 in China.
Tang B et al.	2020	Simulation study	To model COVID-19 transmission
Tolia VM et al.	2020	Evaluation study	To evaluate COVID-19 testing program
Wang J et al.	2020	Outbreak investigation	To investigate route of COVID-19 transmission during a hospital outbreak
Webster RK et al.	2020	Rapid review	To identify and summarise factors associated with quarantine adherence
Wilder-Smith A et al.	2020	Narrative Review	To review of existing COVID-19 self-isolation measures and factors that influencing their efficacy
Xu JW et al.	2020	Technical report	To examine if isolation work in buildings with the example of the DIamond Princess as a case study
Yamahata Y et al.	2020	Case study	To describe COVID-response in Cruise Ship Diamond Princess outbreak
Yan Y et al.	2020	Narrative Review	To review COVID-19 laboratory testing methods
Yasaka TM et al.	2020	Case study	To develop an effective and non-intrusive contact tracing app

Yen MY, Lin YE, et al.	2020	Case study	To report strategies for controlling a hospital outbreak
Yen MY, Schwartz J, et al.	2020	Case study	To report strategies to control a hospital outbreak
Zhang MX et al.	2020	Simulation study	To model the optimal transportation of COVID-19 patients to minimise subsequent transmission
Zitek T.	2020	Technical report	To discuss on the appropriate use of COVID-19 testing
McCombs A et al.	2020	Simulation study	To establish a network model of COVID-19 transmission to inform policy choices
Wang S et al.	2020	Case study	To describe a mini-program within the app WeChat for contact tracing
Altmann S et al.	2020	Online survey	To investigate the user acceptability of a contact-tracing app
Kowalski J et al.	2020	Survey study	To examine whether conspiracy beliefs have an adverse effect on COVID-19 medical guidelines adherence
Walrave M et al.	2020	Survey study	To study factors influencing the intention of using a contact-tracing app
Vicentini C et al.	2020	Retrospective study	To examine whether testing could be associated with variations in COVID-19 fatality.
Park Y et al.	2020	Case study	To describe COVID-19 testing strategy in Seoul
Nijsingh N et al.	2020	Technical report	To discussion on the reversibility of a contact tracing app
Edjoc R et al.	2020	Comparative study	To compare the mathematical tool to Rt estimates in COVID-19 epidemic in Canada.
Bradshaw WJ et al.	2021	Simulation study	To examine whether a bidirectional contact tracing can effectively identify COVID-19 transmission.
Magno L et al.	2020	Case study	To report COVID-19 testing strategy in Brazil
Rahaman KR et al.	2020	Case study	To describe COVID-19 testing strategy in Banglades
Falaschi Z et al.	2020	Evaluation study	To assess the computed tomography diagnostic accuracy against RT-PCR
Brendish NJ et al.	2020	Evaluation study	To assess the point-of-care testing in reducing time to results
DB S et al.	2020	Brief report	To describe COVID-19 response in different countries
Grassly NC et al.	2020	Simulation study	To assess different testing and isolation strategies on SARS-Cov-2 transmission
Cheng HY et al.	2020	Clinical investigation	To investigate COVID-19 transmission among close contacts
Jian SW et al.	2020	Case study	To report the COVID-19 contact tracing in Taiwan

Wei C et al.	2021	Evaluation study	To compare COVID-19 population testing number and coverage on mortality
Eilersen A et al.	2020	Simulation study	To assess different COVID-19 response strategies through mathematical modelling
Ruebush E et al.	2021	Case study	To report on the COVID-19 contact tracing in the US
Jonker M et al.	2020	Simulation study	To model the uptake of a COVID-19 contact tracing app
Chanda A. et al.	2020	Modelling study	To study the COVID-19 transmission dynamics in India
Salameh P	2020	Evaluation study	To report COVID-19 epidemiology in countries of the Eastern Mediterranean Region
Brooks ZC et al.	2020	Simulation study	To model the effect of false-positive and false-negative COVID-19 testing results.
Mettler SK et al.	2020	Modelling study	To examine the indicator of diagnostic serial interval and its association with clinical onset of COVID-19
Malheiro R et al.	2020	Case series	To report the characteristics of COVID-19 patients in Portugal
Keeling MJ et al.	2020	Survey and modelling study	To model the effect of contact tracing on COVID-19 transmission based on network data.
de Wolff T et al.	2020	Mathematical modelling	To establish mathematical model to assess sample pooling method to enhance COVID-19 testing
Frowde R et al.	2020	Brief report	Critique on the COVID-19 response in the UK
Reiss S et al.	2020	Survey study and pathway analysis	To investigate psychological perceptions and defensive strategies towards COVID-19 and self-isolation.
Kretzschmar ME et al.	2020	Mathematical modelling	To identify factors for a succsddrul COVID-19 contact tracing
Smalley DL et al.	2021	Technical Report	To investigate the impact of pool testing and diluting RT-PCR testing reagent on COVID-19 testing.
Bodas M et al. Isr J Health Policy Res.	2020	Survey research	To assess public attitudes toward COVID-19
Li S et al.	2020	Cross-sectional survey	To investigate individual factors such as internet use and the uptake of COVID-19 prevention methods
Gray N et al.	2020	Modelling study	To assess strategies to end the lockdown for COVID-19 control.
Smyrlaki I et al.	2020	Technical report	To investigate the extracting method on rapid COVID-19 testing.
Bilinski A et al.	2020	Mathematical modelling	To assess contact tracing strategies within the ease of COVID-19 control measures.

7

Aleta A et al.	2020	Mathematical modelling	To model the impact of testing, contact tracing and household quarantine on second COVID-19 wave.
Kaspar K.	2020	Survey research	To examine central cognitive variables influencing individuals' motivations for up-taking social distancing and apps for COVID-19 control
Wells CR et al.	2021	Mathematical modelling	To study optimal COVID-19 quarantine and testing strategies.
Huang Z et al.	2020	Evaluation study	To compare the performance of the contact tracing app and a wearable tag-based real-time locating system
Yap KY et al.	2020	Technical report	To present a COVID-19 web-app
Ezeibe CC et al.	2020	Qualitative study	To investigate the impact of political distrust on COVID-19 pandemic in Nigeria.
Gopaul R et al.	2020	Evaluation study	To assess the accuracy of COVID-19 nasopharyngeal swab PCR testing
Ferrari D et al.	2020	Evaluation study	To examine whether combining RT-PCR with routine blood test can reduce false-negative COVID-19 testing.
Bodas M et al. Health Aff (Millwood).	2020	Survey research	To assess public attitudes toward COVID-19
Deckert A et al.	2020	Simulation study	To simulate and compare results of the pooled-sample strategies for COVID-19 mass testing
Li Y et al.	2020	Evaluation study	To evaluate the consistency of COVID-19 RT-PCR testing results in hospitalised patients.
Chiu WA et al.	2020	Modelling study	To assess the effect of relaxation of COVID-19 control measures.
Indenbaum V et al.	2020	Evaluation study	To compare COVID-19 antibody testing to RT-PCR testing results
Müller M et al.	2020	Simulation study	To examine whether frequent sampling of non-symptomatic but infectious individuals in addition to testing symptomatic individuals can improve COVID-19 management
Xie K et al.	2020	Mathematical modelling	To study the mechanism of the risk perception effect on social distancing
Jung J et al.	2020	Case study	To study the impact of mandatory COVID-19 testing before releasing individuals from the 14-day quarantine in Incheon, Korea.
Hong K et al.	2020	Technical report	To examine the indicator of the Serial Interval of COVID-19 for contact tracing
Gul S et al.	2020	Simulation study	To investigate probability of COVID-19 transmission via different social network.
Sawano T et al.	2020	Case series	To report the factors associated with regional variation of COVID-19 incidence in Japan

Jacofsky D et al.	2020	Technical report	To present a COVID-19 antibody tests
Szocska M et al.	2020	Case study	To report on using data on call detail records to monitor physical morbidity
Alger J et al.	2020	Evaluation study	To study the validity of COVID-19 antibody rapid tests
Schrager JD et al.	2020	Cross-sectional usability study	To test whether adult users could understand and recall the information provided by a COVID-19 web-based tool.
Bai AD et al.	2020	Point-prevalence study	To estimate the prevalence of COVID-19 among inhospital patients
Flynn EF et al.	2020	Case study	To report the design and implementation of COVID-19 drive-through testing for children and pediatric health care workers
Brendish NJ et al.	2020	Non-randomised clinical study	To assess the accuracy and effectiveness of point of care COVID-19 testing
Dinnes J et al.	2021	Systematic review	To assess the diagnostic accuracy of COVID-19 point-of-care antigen and molecular-based tests
Abera A et al.	2020	Case study	To report on establishing a COVID-19 testing laboratory in Ethiopia
Wu DC et al.	2020	Survey research	To report on the self-reported COVID symptoms from a national-representative poll in Canada
Younes N et al.	2020	Narrative review	To discuss laboratory and surveillance technologies for COVID-19 testing

Table S2: The methodological rigour assessment of included studies by the CASP Qualitative Studies Checklist

Authors	Published year	1. Was there a clear statement of the aims of the research?	2. Is a qualitative methodology appropriate?	3. Was the research design appropriate to address the aims of the research?	4. Was the recruitment strategy appropriate to the aims of the research?	5. Was the data collected in a way that addressed the research issue?	6. Has the relationship between researcher and participants been adequately considered?	7. Have ethical issues been taken into consideration?	8. Was the data analysis sufficiently rigorous?	9. Is there a clear statement of findings?	10. How valuable is the research?
Abdalhamid B et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Good
Aslam et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Banskota S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Binnicker MJ et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Brooks SK et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Canova V et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Chen CM et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Döhla M et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Eberhardt JN et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Ekong I et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Farooq A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Favaloro EJ et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Ferretti L et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Gupta N et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Han E et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Hellewell J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Hill K et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Kakimoto K et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Keeley AJ et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Klimburg et al. .	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Klonowska et al. .	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Koh D et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Lagier JC et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Lei L et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Manchein C et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Marcel S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Mark K et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Meinert E et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Nussbaumer-Streit B et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good

Omori R et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Parmet WE et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Peçanha T et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Razai MS et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Schulman R et al. .	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Schwartz J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Sjödin H. et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Taghrir MH et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Tang B et al.	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A	Moderate
Tolia VM et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wang J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Webster RK et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wilder-Smith A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Xu JW et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yamahata Y et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yan Y et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yasaka TM et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yen MY, Lin YE, et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yen MY, Schwartz J, et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Zhang MX et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Zitek T.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
McCombs A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wang S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Altmann S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Kowalski J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Walrave M et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Vicentini C et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Park Y et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Nijsingh N et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Edjoc R et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Bradshaw WJ et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Magno L et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Rahaman KR et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Falaschi Z et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Brendish NJ et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
DB S et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Grassly NC et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Cheng HY et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good

Jian SW et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wei C et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Eilersen A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Ruebush E et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Jonker M et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Chanda A. et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Salameh P	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Brooks ZC et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Mettler SK et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Malheiro R et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Keeling MJ et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
de Wolff T et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Frowde R et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Reiss S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Kretzschmar ME et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Smalley DL et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Bodas M et al. Isr J Health Policy Res.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Li S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Gray N et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Smyrlaki I et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Bilinski A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Aleta A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Kaspar K.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wells CR et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Huang Z et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Yap KY et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Ezeibe CC et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Gopaul R et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Ferrari D et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Bodas M et al. Health Aff (Millwood).	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Deckert A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Li Y et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Chiu WA et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Indenbaum V et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Müller M et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Xie K et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Jung J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Hong K et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Gul S et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Sawano T et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Jacofsky D et al.	2020	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Moderate
Szocska M et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Alger J et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good

Schrager JD et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Bai AD et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Flynn EF et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Brendish NJ et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Dinnes J et al.	2021	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Abera A et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Wu DC et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good
Younes N et al.	2020	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Good

Supplementary section three: List of reviewed articles:

For the first review between May 2019 and May 2020

Klonowska, Klaudia, and Pieter Bindt. The COVID-19 Pandemic: Two Waves of Technological Responses in the European Union. Hague Centre for Strategic Studies, 2020.

Aslam H, and Rohan H. Fighting COVID-19: Lessons from China, South Korea and Japan. Sustainable Development Policy Institute, 2020.

Klimburg A, Faesen L, Verhagen P, Mirtl P. Pandemic Mitigation in the Digital Age: Digital Epidemiological Measures to Combat the Coronavirus Pandemic. Hague Centre for Strategic Studies. 2020.

Parmet WE, Sinha MS. COVID-19 - The Law and Limits of Quarantine. N Engl J Med. 2020 Apr 9;382(15):e28. doi: 10.1056/NEJMp2004211. Epub 2020 Mar 18.

Yasaka TM, Lehrich BM, Sahyouni R. Peer-to-Peer Contact Tracing: Development of a Privacy-Preserving Smartphone App. JMIR Mhealth Uhealth. 2020 Apr 7;8(4):e18936. doi: 10.2196/1893

Taghrir MH, Akbarialiabad H, Ahmadi Marzaleh M. Efficacy of Mass Quarantine as Leverage of Health System Governance During COVID-19 Outbreak: A Mini Policy Review. Arch Iran Med. 2020 Apr 1;23(4):265-267. doi: 10.34172/aim.2020.08.

Hill K, Campbell R, Mutch C, Koch O, Mackintosh C. Drive-through testing in COVID-19: experience from NHS Lothian. Clin Med (Lond). 2020 May;20(3):290-291. doi: 10.7861/clinmed.2020-0160. Epub 2020 May 1.

Ferretti L, Wymant C, Kendall M, et al. Quantifying SARS-CoV-2 transmission suggests epidemic control with digital contact tracing. Science. 2020 May 8;368(6491):eabb6936. doi: 10.1126/science.abb6936. Epub 2020 Mar 31.

Xu JW, Wang XY, Qin Z, et al. Deep thought of COVID-19 based on Diamond Princess's quarantine and home quarantine. Eur Rev Med Pharmacol Sci. 2020 Apr;24(7):4027-4029. doi: 10.26355/eurrev_202004_20872.

Yan Y, Chang L, Wang L. Laboratory testing of SARS-CoV, MERS-CoV, and SARS-CoV-2 (2019-nCoV): Current status, challenges, and countermeasures. Rev Med Virol. 2020 May;30(3):e2106. doi: 10.1002/rmv.2106. Epub 2020 Apr 17.

Wilder-Smith A, Freedman DO. Isolation, quarantine, social distancing and community containment: pivotal role for old-style public health measures in the novel coronavirus (2019-nCoV) outbreak. J Travel Med. 2020 Mar 13;27(2):taaa020. doi: 10.1093/jtm/taaa020.

Abdalhamid B, Bilder CR, McCutchen EL, Hinrichs SH, Koepsell SA, Iwen PC. Assessment of Specimen Pooling to Conserve SARS CoV-2 Testing Resources. Am J Clin Pathol. 2020 May 5;153(6):715-718. doi: 10.1093/ajcp/aqaa064.

Mark K, Steel K, Stevenson J, Evans C, et al. Coronavirus disease (COVID-19) Community Testing Team in Scotland: A 14-day review, 6 to 20 February 2020, Euro Surveill. 2020 Mar;25(12):2000217. doi: 10.2807/1560-7917.ES.2020.25.12.2000217.

Binnicker MJ. Emergence of a Novel Coronavirus Disease (COVID-19) and the Importance of Diagnostic Testing: Why Partnership between Clinical Laboratories, Public Health Agencies, and Industry Is Essential to Control the Outbreak. Clin Chem. 2020 May 1;66(5):664-666. doi: 10.1093/clinchem/hvaa071.

Lagier JC, Colson P, Tissot Dupont H, et al. Testing the repatriated for SARS-Cov2: Should laboratory-based quarantine replace traditional quarantine?   Travel Med Infect Dis. 2020 Mar-Apr;34:101624. doi: 10.1016/j.tmaid.2020.101624. Epub 2020 Mar 14.

Ekong I, Chukwu E, Chukwu M. COVID-19 Mobile Positioning Data Contact Tracing and Patient Privacy Regulations: Exploratory Search of Global Response Strategies and the Use of Digital Tools in Nigeria. JMIR Mhealth Uhealth. 2020 Apr 27;8(4):e19139. doi: 10.2196/19139.

Farooq A, Laato S, Islam AKMN. Impact of Online Information on Self-Isolation Intention During the COVID-19 Pandemic: Cross-Sectional Study. J Med Internet Res. 2020 May 6;22(5):e19128. doi: 10.2196/19128.

Hellewell J, Abbott S, Gimma A, et al. Feasibility of controlling COVID-19 outbreaks by isolation of cases and contacts Version 2. Lancet Glob Health. 2020 Apr;8(4):e488-e496. doi: 10.1016/S2214-109X(20)30074-7. Epub 2020 Feb 28.

Nussbaumer-Streit B, Mayr V, Dobrescu AI, et al. Quarantine alone or in combination with other public health measures to control COVID-19: a rapid review. Cochrane Database Syst Rev. 2020 Apr 8;4(4):CD013574. doi: 10.1002/14651858.CD013574.

Favaloro EJ, Lippi G. Recommendations for Minimal Laboratory Testing Panels in Patients with COVID-19: Potential for Prognostic Monitoring. Semin Thromb Hemost. 2020 Apr;46(3):379-382. doi: 10.1055/s-0040-1709498. Epub 2020 Apr 12.

Keeley AJ, Evans C, Colton H, et al. Roll-out of SARS-CoV-2 testing for healthcare workers at a large NHS Foundation Trust in the United Kingdom, March 2020. Euro Surveill. 2020 Apr;25(14):2000433. doi:10.2807/1560-7917.ES.2020.25.14.2000433.

Gupta N, Potdar V, Praharaj I, Giri S et al. Laboratory preparedness for SARS-CoV-2 testing in India: Harnessing a network of Virus Research & Diagnostic Laboratories. Indian J Med Res. 2020 Feb & Mar;151(2 & 3):216-225. doi: 10.4103/ijmr.IJMR_594_20.

Chen CM, Jyan HW, Chien SC, et al. Containing COVID-19 Among 627,386 Persons in Contact With the Diamond Princess Cruise Ship Passengers Who Disembarked in Taiwan: Big Data Analytics. J Med Internet Res. 2020 May 5;22(5):e19540. doi: 10.2196/19540.

Eberhardt J.N., Breuckmann N.P., Eberhardt C.S. Multi-Stage Group Testing Improves Efficiency of Large-Scale COVID-19 Screening. J Clin Virol . 2020 Apr 23;128:104382. doi: 10.1016/j.jcv.2020.104382

Webster R.K., Brooks S.K., Smith L.E., Woodland L., Wessely S., Rubin G.J. Public Health . 2020 May;182:163-169. doi: 10.1016/j.puhe.2020.03.007. Public Health. doi:10.1016/j.puhe.2020.03.007

Döhla M, Boesecke C, Schulte B, et al. Rapid point-of-care testing for SARS-CoV-2 in a community screening setting shows low sensitivity. Public Health . 2020 May;182:170-172. doi: 10.1016/j.puhe.2020.04.009. Epub 2020 Apr 18.

Yen MY, Lin YE, Lee CH, et al. Taiwan's traffic control bundle and the elimination of nosocomial severe acute respiratory syndrome among healthcare workers. J Hosp Infect. 2011 Apr;77(4):332-7. doi: 10.1016/j.jhin.2010.12.002. Epub 2011 Feb 12.

Schwartz J, Yen MY. Toward a collaborative model of pandemic preparedness and response: Taiwan's changing approach to pandemics. J Microbiol Immunol Infect. 2017 Apr;50(2):125-132. doi: 10.1016/j.jmii.2016.08.010. Epub 2016 Dec 18.

Yen MY, Schwartz J, Chen SY, King CC, Yang GY, Hsueh PR. Interrupting COVID-19 transmission by implementing enhanced traffic control bundling: Implications for global prevention and control efforts. J Microbiol Immunol Infect. 2020 Mar 14:S1684-1182(20)30071-2. doi: 10.1016/j.jmii.2020.03.011. Online ahead of print.

Salathé M, Althaus CL, Neher R, et al. COVID-19 epidemic in Switzerland: on the importance of testing, contact tracing and isolation. Swiss Med Wkly. 2020 Mar 19;150:w20225. doi: 10.4414/smw.2020.20225. eCollection 2020 Mar 9.

Schulman R and Siman-Tov D. From Biological Weapons to Miracle Drugs: Fake News about the Coronavirus Pandemic. Institute for National Security Studies, 2020, www.jstor.org/stable/resrep23529. Accessed 31 May 2020.

Chiew CJ, Li Z, Lee VJ. Reducing onward spread of COVID-19 from imported cases: quarantine and 'stay at home' measures for travellers and returning residents to Singapore. J Travel Med. 2020;27(3).

Tolia VM, Chan TC, Castillo EM. Preliminary Results of Initial Testing for Coronavirus (COVID-19) in the Emergency Department. West J Emerg Med. 2020;21(3):503-6.

Manchein C, Brugnago EL, da Silva RM, Mendes CFO, Beims MW. Strong correlations between power-law growth of COVID-19 in four continents and the inefficiency of soft quarantine strategies. Chaos. 2020;30(4):041102.

Sjodin H, Wilder-Smith A, Osman S, Farooq Z, Rocklov J. Only strict quarantine measures can curb the coronavirus disease (COVID-19) outbreak in Italy, 2020. Euro Surveill. 2020;25(13).

Omori R, Mizumoto K, Chowell G. Changes in testing rates could mask the novel coronavirus disease (COVID-19) growth rate. Int J Infect Dis. 2020;94:116-8.

Koh D, Cunningham AC. Counting Coronavirus Disease 2019 (COVID-19) Cases: Case Definitions, Screened Populations and Testing Techniques Matter. Ann Acad Med Singapore. 2020;49(3):161-5.

Zitek T. The Appropriate Use of Testing for COVID-19. West J Emerg Med. 2020;21(3):470-2.

Reusken CB, Buiting A, Bleeker-Rovers C, et al. Rapid assessment of regional SARS-CoV-2 community transmission through a convenience sample of healthcare workers, the Netherlands, March 2020. Euro Surveill. 2020;25(12).

Banskota S, Healy M, Goldberg EM. 15 Smartphone Apps for Older Adults to Use While in Isolation During the COVID-19 Pandemic. West J Emerg Med. 2020;21(3):514-25.

Meinert E, Milne-Ives M, Surodina S, Lam C. Agile Requirements Engineering and Software Planning for a Digital Health Platform to Engage the Effects of Isolation Caused by Social Distancing: Case Study. JMIR Public Health Surveill. 2020;6(2):e19297.

Zhang MX, Yan HF, Wu JY, Zheng YJ. Quarantine Vehicle Scheduling for Transferring High-Risk Individuals in Epidemic Areas. Int J Environ Res Public Health. 2020;17(7).

Kakimoto K, Kamiya H, Yamagishi T, Matsui T, Suzuki M, Wakita T. Initial Investigation of Transmission of COVID-19 Among Crew Members During Quarantine of a Cruise Ship - Yokohama, Japan, February 2020. MMWR Morb Mortal Wkly Rep. 2020;69(11):312-3.

Yamahata Y, Shibata A. Preparation for Quarantine on the Cruise Ship Diamond Princess in Japan due to COVID-19. JMIR Public Health Surveill. 2020;6(2):e18821.

Razai MS, Oakeshott P, Kankam H, Galea S, Stokes-Lampard H. Mitigating the psychological effects of social isolation during the COVID-19 pandemic. BMJ. 2020;369:m1904.

Pecanha T, Goessler KF, Roschel H, Gualano B. Social isolation during the COVID-19 pandemic can increase physical inactivity and the global burden of cardiovascular disease. Am J Physiol Heart Circ Physiol. 2020;318(6):H1441-H6.

Brooks SK, Webster RK, Smith LE, et al. The psychological impact of quarantine and how to reduce it: rapid review of the evidence. Lancet. 2020;395(10227):912-20.

Lei L, Huang X, Zhang S, Yang J, Yang L, Xu M. Comparison of Prevalence and Associated Factors of Anxiety and Depression Among People Affected by versus People Unaffected by Quarantine During the COVID-19 Epidemic in Southwestern China. Med Sci Monit. 2020;26:e924609.

Han E, Chiou S-T, McKee M, Legido-Quigley H. The resilience of Taiwan's health system to address the COVID-19 pandemic. (In press).

Tang B, Xia F, Tang S, Bragazzi NL, Li Q, Sun X, Liang J, Xiao Y, Wu J. The effectiveness of quarantine and isolation determine the trend of the COVID-19 epidemics in the final phase of the current outbreak in China. Int J Infect Dis. 2020 Jun;95:288-293.

For the second review between June 2020 and January 2021

McCombs A, Kadelka C.A model-based evaluation of the efficacy of COVID-19 social distancing, testing and hospital triage policies.PLoS Comput Biol. 2020

Wang S, Ding S, Xiong L.A New System for Surveillance and Digital Contact Tracing for COVID-19: Spatiotemporal Reporting Over Network and GPS.JMIR Mhealth Uhealth. 2020

Altmann S, Milsom L, Zillessen H, Blasone R, Gerdon F, Bach R, Kreuter F, Nosenzo D, Toussaert S, Abeler J.Acceptability of App-Based Contact Tracing for COVID-19: Cross-Country Survey Study.JMIR Mhealth Uhealth. 2020

Kowalski J, Marchlewska M, Molenda Z, Górska P, Gawęda Ł.Adherence to safety and self-isolation guidelines, conspiracy and paranoia-like beliefs during COVID-19 pandemic in Poland - associations and moderators.Psychiatry Res. 2020

Walrave M, Waeterloos C, Ponnet K.Adoption of a Contact Tracing App for Containing COVID-19: A Health Belief Model Approach.JMIR Public Health Surveill. 2020

Vicentini C, Bazzolo S, Gamba D, Zotti CM.Analysis of the Fatality Rate in Relation to Testing Capacity during the First 50 days of the COVID-19 Epidemic in Italy.Am J Trop Med Hyg. 2020

Park Y, Huh IS, Lee J, Kang CR, Cho SI, Ham HJ, Kim HS, Kim JI, Na BJ, Lee JY; Seoul Metropolitan Government COVID-19 Rapid Response (SCoRR) Team..Application of Testing-Tracing-Treatment Strategy in Response to the COVID-19 Outbreak in Seoul, Korea.J Korean Med Sci. 2020

Nijsingh N, van Bergen A, Wild V.Applying a Precautionary Approach to Mobile Contact Tracing for COVID-19: The Value of Reversibility.J Bioeth Inq. 2020

Edjoc R, Atchessi N, Lien A, Smith BA, Gabrani-Juma I, Abalos C, Heisz M.Assessing the progression of the COVID-19 pandemic in Canada using testing data and time-dependent reproduction numbers.Can J Public Health. 2020

Bradshaw WJ, Alley EC, Huggins JH, Lloyd AL, Esvelt KM.Bidirectional contact tracing could dramatically improve COVID-19 control.Nat Commun. 2021

Magno L, Rossi TA, Mendonça-Lima FW, Santos CCD, Campos GB, Marques LM, Pereira M, Prado NMBL, Dourado I.Challenges and proposals for scaling up COVID-19 testing and diagnosis in Brazil.Cien Saude Colet. 2020

Rahaman KR, Mahmud MS, Mallick B.Challenges of Testing COVID-19 Cases in Bangladesh.Int J Environ Res Public Health. 2020

Falaschi Z, Danna PSC, Arioli R, Paschè A, Zagaria D, Percivale I, Tricca S, Barini M, Aquilini F, Andreoni S, Carriero A.Chest CT accuracy in diagnosing COVID-19 during the peak of the Italian epidemic: A retrospective correlation with RT-PCR testing and analysis of discordant cases.Eur J Radiol. 2020

Brendish NJ, Poole S, Naidu VV, Mansbridge CT, Norton NJ, Wheeler H, Presland L, Kidd S, Cortes NJ, Borca F, Phan H, Babbage G, Visseaux B, Ewings S, Clark TW.Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital (COV-19POC): a prospective, interventional, non-randomised, controlled study.Lancet Respir Med. 2020

DB S, Undi M, Annadani R, Siddique A. Comparison of Measures adopted to combat COVID 19 Pandemic by different countries in WHO regions. Indian J Community Health [Internet]. 2020Apr.20 [cited 2021Feb.5];32(2 (Supp):288 -299.

Grassly NC, Pons-Salort M, Parker EPK, White PJ, Ferguson NM; Imperial College COVID-19 Response Team..Comparison of molecular testing strategies for COVID-19 control: a mathematical modelling study.Lancet Infect Dis. 2020

Cheng HY, Jian SW, Liu DP, Ng TC, Huang WT, Lin HH; Taiwan COVID-19 Outbreak Investigation Team..Contact Tracing Assessment of COVID-19 Transmission Dynamics in Taiwan and Risk at Different Exposure Periods Before and After Symptom Onset.JAMA Intern Med. 2020

Jian SW, Cheng HY, Huang XT, Liu DP.Contact tracing with digital assistance in Taiwan's COVID-19 outbreak response.Int J Infect Dis. 2020

Wei C, Lee CC, Hsu TC, Hsu WT, Chan CC, Chen SC, Chen CJ.Correlation of population mortality of COVID-19 and testing coverage: a comparison among 36 OECD countries.Epidemiol Infect. 2020

Eilersen A, Sneppen K.Cost-benefit of limited isolation and testing in COVID-19 mitigation.Sci Rep. 2020

Ruebush E, Fraser MR, Poulin A, Allen M, Lane JT, Blumenstock JS.COVID-19 Case Investigation and Contact Tracing: Early Lessons Learned and Future Opportunities.J Public Health Manag Pract. 2021

Jonker M, de Bekker-Grob E, Veldwijk J, Goossens L, Bour S, Rutten-Van Mölken M.COVID-19 Contact Tracing Apps: Predicted Uptake in the Netherlands Based on a Discrete Choice Experiment.JMIR Mhealth Uhealth. 2020

Chanda A.COVID-19 in India: transmission dynamics, epidemiological characteristics, testing, recovery and effect of weather.Epidemiol Infect. 2020

Salameh P.COVID-19 in the Eastern Mediterranean Region: testing frequency, cumulative cases and mortality analysis.East Mediterr Health J. 2020

Brooks ZC, Das S.COVID-19 Testing.Am J Clin Pathol. 2020

Mettler SK, Kim J, Maathuis MH.Diagnostic serial interval as a novel indicator for contact tracing effectiveness exemplified with the SARS-CoV-2/COVID-19 outbreak in South Korea.Int J Infect Dis. 2020

Malheiro R, Figueiredo AL, Magalhães JP, Teixeira P, Moita I, Moutinho MC, Mansilha RB, Gonçalves LM, Ferreira E.Effectiveness of contact tracing and quarantine on reducing COVID-19 transmission: a retrospective cohort study.Public Health. 2020

Keeling MJ, Hollingsworth TD, Read JM.Efficacy of contact tracing for the containment of the 2019 novel coronavirus (COVID-19).J Epidemiol Community Health. 2020

de Wolff T, PflügerD, Rehme M, Heuer J, Bittner MI. Evaluation of pool-based testing approaches to enable population-wide screening for COVID-19.PLoS One. 2020

Frowde R, Dove ES, Laurie GT.Fail to Prepare and you Prepare to Fail: the Human Rights Consequences of the UK Government's Inaction during the COVID-19 Pandemic.Asian Bioeth Rev. 2020

Reiss S, Franchina V, Jutzi C, Willardt R, Jonas E.From anxiety to action-Experience of threat, emotional states, reactance, and action preferences in the early days of COVID-19 self-isolation in Germany and Austria.PLoS One. 2020

Kretzschmar ME, Rozhnova G, Bootsma MCJ, van Boven M, van de Wijgert JHHM, Bonten MJM.Impact of delays on effectiveness of contact tracing strategies for COVID-19: a modelling study.Lancet Public Health. 2020

Smalley DL, Cisarik PM, Grantham J, Cloud W, Neil RB, DePriest P.Impact of Pool Testing in Detection of Asymptomatic Patients with COVID-19.Lab Med. 2021

Bodas M, Peleg K.Income assurances are a crucial factor in determining public compliance with self-isolation regulations during the COVID-19 outbreak - cohort study in Israel.Isr J Health Policy Res. 2020

Li S, Feng B, Liao W, Pan W.Internet Use, Risk Awareness, and Demographic Characteristics Associated With Engagement in Preventive Behaviors and Testing: Cross-Sectional Survey on COVID-19 in the United States.J Med Internet Res. 2020

Gray N, Calleja D, Wimbush A, Miralles-Dolz E, Gray A, De Angelis M, Derrer-Merk E, Oparaji BU, Stepanov V, Clearkin L, Ferson S.Is "no test is better than a bad test"? Impact of diagnostic uncertainty in mass testing on the spread of COVID-19.PLoS One. 2020

Smyrlaki I, Ekman M, Lentini A, Rufino de Sousa N, Papanicolaou N, Vondracek M, Aarum J, Safari H, Muradrasoli S, Rothfuchs AG, Albert J, Högberg B, Reinius B.Massive and rapid COVID-19 testing is feasible by extraction-free SARS-CoV-2 RT-PCR.Nat Commun. 2020

Bilinski A, Mostashari F, Salomon JA.Modeling Contact Tracing Strategies for COVID-19 in the Context of Relaxed Physical Distancing Measures.JAMA Netw Open. 2020

Aleta A, Martín-Corral D, Pastore Y Piontti A, Ajelli M, Litvinova M, Chinazzi M, Dean NE, Halloran ME, Longini IM Jr, Merler S, Pentland A, Vespignani A, Moro E, Moreno Y.Modelling the impact of testing, contact tracing and household quarantine on second waves of COVID-19.Nat Hum Behav. 2020

Kaspar K. Motivations for Social Distancing and App Use as Complementary Measures to Combat the COVID-19 Pandemic: Quantitative Survey Study.J Med Internet Res. 2020

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Wells CR, Townsend JP, Pandey A, Moghadas SM, Krieger G, Singer B, McDonald RH, Fitzpatrick MC, Galvani AP.Optimal COVID-19 quarantine and testing strategies.Nat Commun. 2021

Huang Z, Guo H, Lee YM, Ho EC, Ang H, Chow A.Performance of Digital Contact Tracing Tools for COVID-19 Response in Singapore: Cross-Sectional Study.JMIR Mhealth Uhealth. 2020

Yap KY, Xie Q.Personalizing symptom monitoring and contact tracing efforts through a COVID-19 web-app.Infect Dis Poverty. 2020

Ezeibe CC, Ilo C, Ezeibe EN, Oguonu CN, Nwankwo NA, Ajaero CK, Osadebe N.Political distrust and the spread of COVID-19 in Nigeria.Glob Public Health. 2020

Gopaul R, Davis J, Gangai L, Goetz L.Practical Diagnostic Accuracy of Nasopharyngeal Swab Testing for Novel Coronavirus Disease 2019 (COVID-19).West J Emerg Med. 2020

Ferrari D, Sabetta E, Ceriotti D, Motta A, Strollo M, Banfi G, Locatelli M.Routine blood analysis greatly reduces the false-negative rate of RT-PCR testing for Covid-19.Acta Biomed. 2020

Bodas M, Peleg K.Self-Isolation Compliance In The COVID-19 Era Influenced By Compensation: Findings From A Recent Survey In Israel.Health Aff (Millwood). 2020

Deckert A, Bärnighausen T, Kyei NN.Simulation of pooled-sample analysis strategies for COVID-19 mass testing.Bull World Health Organ. 2020

Li Y, Yao L, Li J, Chen L, Song Y, Cai Z, Yang C.Stability issues of RT-PCR testing of SARS-CoV-2 for hospitalized patients clinically diagnosed with COVID-19.J Med Virol. 2020

Chiu WA, Fischer R, Ndeffo-Mbah ML.State-level needs for social distancing and contact tracing to contain COVID-19 in the United States.Nat Hum Behav. 2020

Indenbaum V, Koren R, Katz-Likvornik S, Yitzchaki M, Halpern O, Regev-Yochay G, Cohen C, Biber A, Feferman T, Cohen Saban N, Dhan R, Levin T, Gozlan Y, Weil M, Mor O, Mandelboim M, Sofer D, Mendelson E, Lustig Y.Testing IgG antibodies against the RBD of SARS-CoV-2 is sufficient and necessary for COVID-19 diagnosis.PLoS One. 2020

Müller M, Derlet PM, Mudry C, Aeppli G.Testing of asymptomatic individuals for fast feedback-control of COVID-19 pandemic.Phys Biol. 2020

Xie K, Liang B, Dulebenets MA, Mei Y.The Impact of Risk Perception on Social Distancing during the COVID-19 Pandemic in China.Int J Environ Res Public Health. 2020

Jung J, Jang H, Kim HK, Kim J, Kim A, Ko KP.The Importance of Mandatory COVID-19 Diagnostic Testing Prior to Release from Quarantine.J Korean Med Sci. 2020

Hong K, Yum S, Kim J, Chun BC.The Serial Interval of COVID-19 in Korea: 1,567 Pairs of Symptomatic Cases from Contact Tracing.J Korean Med Sci. 2020

Gul S, Tuncay K, Binici B, Aydin BB.Transmission dynamics of Covid-19 in Italy, Germany and Turkey considering social distancing, testing and quarantine.J Infect Dev Ctries. 2020

Sawano T, Kotera Y, Ozaki A, Murayama A, Tanimoto T, Sah R, Wang J.Underestimation of COVID-19 cases in Japan: an analysis of RT-PCR testing for COVID-19 among 47 prefectures in Japan.QJM. 2020

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Jacofsky D, Jacofsky EM, Jacofsky M.Understanding Antibody Testing for COVID-19.J Arthroplasty. 2020

Miklos Szocska, Peter Pollner, Istvan Schiszler et al. Countrywide population movement monitoring using mobile devices generated (big) data during the COVID-19 crisis. Scientific Reports. 2021

Alger, J; Cafferata, ML; Alvarado, T; Ciganda, A; Corrales, A; Desale, H; Drouin, A; Fusco, D; Garcia, J; Gibbons, L; Harville, E; Lopez, W; Lorenzana, I; Munoz-Lara, F; Palou, E; Retes, E; Sierra, M; Stella, C; Xiong, X; Zambrano, LI; Buekens, PUsing Prenatal Blood Samples to Evaluate COVID-19 Rapid Serologic Tests Specificity. Maternal and child health journal. 2020

Schrager, JD; Schuler, K; Isakov, AP; Wright, DW; Yaffee, AQ; Jacobson, KL; Parker, RM; Goolsby, CDevelopment and Usability Testing of a Web-based COVID-19 Self-triage Platform. Western journal of emergency medicine. 2020

Bai AD, Li XX, Alsalem M, Khan S, Smieja M, Mertz D, Chagla Z.Utility of asymptomatic inpatient testing for COVID-19 in a low-prevalence setting: A multicenter point-prevalence study. Infect Control Hosp Epidemiol. 2020

Flynn EF, Kuhn E, Shaik M, Tarr E, Scattolini N, Ballantine A.Drive-Through COVID-19 Testing During the 2020 Pandemic: A Safe, Efficient, and Scalable Model for Pediatric Patients and Health Care Workers. Acad Pediatr. 2020

Brendish NJ, Poole S, Naidu VV, Mansbridge CT, Norton NJ, Wheeler H, Presland L, Kidd S, Cortes NJ, Borca F, Phan H, Babbage G, Visseaux B, Ewings S, Clark TW.Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital (COV-19POC): a prospective, interventional, non-randomised, controlled study. Lancet Respir Med. 2020

Dinnes J, Deeks JJ, Berhane S, et al.Rapid, point-of-care antigen and molecular-based tests for diagnosis of SARS-CoV-2 infection. Cochrane Database Syst Rev 2021

Abera A, Belay H, Zewude A, Gidey B, Nega D, Dufera B, Abebe A, Endriyas T, Getachew B, Birhanu H, Difabachew H, Mekonnen B, Legesse H, Bekele F, Mekete K, Seifu S, Sime H, Yemanebrhan N, Tefera M, Amare H, Beyene B, Tsige E, Kebede A, Tasew G, Tollera G, Abate E, Woyessa A, Assefa A.Establishment of COVID-19 testing laboratory in resource-limited settings: challenges and prospects reported from Ethiopia. Glob Health Action. 2020

Wu DC, Jha P, Lam T, Brown P, Gelband H, Nagelkerke N, Birnboim HC, Reid A; Action to Beat Coronavirus in Canada/Action pour Battre le Coronavirus (Ab-C) Study Group.Predictors of self-reported symptoms and testing for COVID-19 in Canada using a nationally representative survey. PLoS One. 2020

Younes N, Al-Sadeq DW, Al-Jighefee H, Younes S, Al-Jamal O, Daas HI, Yassine HM, Nasrallah GK.Challenges in Laboratory Diagnosis of the Novel Coronavirus SARS-CoV-2. Viruses. 2020