

The daily evidence digest collates recently released reports and evidence – provision of these links does not imply endorsement nor recommendation.

False-negative COVID-19 tests, vaccine trials, artificial intelligence, framework for surge planning

Peer reviewed journals featured:

- A systematic review on false-negative results of initial RT-PCR assays for COVID-19 [here](#)
- A rapid scoping review on community use of face masks to prevent respiratory illness such as COVID-19 [here](#)
- Randomised controlled trials on:
 - Safety and efficacy of the BNT162b2 mRNA COVID-19 vaccine [here](#)
 - A SARS-CoV-2 recombinant spike protein nanoparticle vaccine [here](#)
 - Baricitinib plus remdesivir for hospitalised adults with COVID-19 [here](#)
- Observational studies on:
 - Rapid triage for COVID-19 using artificial intelligence screening [here](#)
 - Trivalent influenza vaccination and mortality among COVID-19 patients in Brazil [here](#)
 - Genetic mechanisms of critical illness in COVID-19 [here](#)
- A population-cohort study on HIV and COVID-19 death in the UK [here](#) and commentary [here](#)
- Surveys on
 - COVID-19 misinformation in Australia [here](#)
 - Community prevalence of SARS-CoV-2 in England [here](#)
- The 5S framework for policy and operational considerations for COVID-19 surge planning [here](#)
- An editorial on multiorgan symptoms in long COVID [here](#)
- Commentary on:
 - Community engagement and COVID-19 vaccines [here](#)
 - The challenges of distributing COVID-19 vaccinations [here](#) and [here](#)
 - Race-adjustment of spirometers and racial disparities in COVID-19 recovery [here](#)
 - The use of artificial intelligence for detecting COVID-19 [here](#)
 - Preexisting immunity and seasonal coronaviruses [here](#)
 - Personal protective equipment use in the community during COVID-19 [here](#)

Letters and correspondence discussed:

- The impact of COVID-19 on mental illness and self-harm episodes in the UK [here](#)
- Resuming liver transplantation amid the COVID-19 pandemic in the UK [here](#)
- Association of SARS-CoV-2 renal tropism with acute kidney injury [here](#) and authors' reply [here](#)

Reviews

- The Canadian National Collaborating Centre for Methods and Tools updated its rapid reviews on:
 - Risk factors associated with COVID-19 outbreaks and mortality in long-term care facilities and strategies for mitigating risk [here](#)
 - COVID-19 transmission in acute care settings [here](#)
- The Cochrane Library published:
 - A supplement on collaborating in response to COVID-19 [here](#) and editorial [here](#)
 - New Clinical Answers on white blood cell count and COVID-19, and targeted client communication and maternal and neonatal health [here](#)

Guidance and reports

- The US Centers for Disease Control and Prevention released:
 - Advisory Committee on Immunization Practices' interim guidance for allocating initial supplies of COVID-19 vaccine [here](#)
 - Summary of guidance for public health strategies to address high levels of community transmission of SARS-CoV-2 and related deaths [here](#)
- The World Health Organization published:
 - An evidence framework for assessing COVID-19 vaccine recommendations [here](#)
 - A policy framework for supporting COVID-19 prevention and management [here](#)
 - An assessment tool for responses to refugee and migrant health during COVID-19 [here](#)
 - COVID-19 weekly epidemiological update [here](#)

News and blogs

- Ensuring equitable access to COVID-19 vaccines [here](#)
- Emergency use authorisation for bamlanivimab for COVID-19 [here](#)
- The Australian Department of Health published the Prime Minister's update following the National Cabinet meeting on 11 December 2020 [here](#)
- Australian COVID vaccine trial abandoned after HIV 'false positives' [here](#)
- Pfizer COVID-19 vaccine efficacy [here](#)
- The US FDA panel votes to approve Pfizer BioNTech COVID-19 vaccine [here](#)
- BMJ blog on COVID-19 vaccination program and health inequalities [here](#)

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The final digest for 2020 will be released on 18 December and the service will resume on 20 January 2021. A skeleton service will monitor publications over the shutdown period. Should there be any highly significant developments, alerts will be issued to the digest mailing list. Upon resumption of services, key publications released during the break will be collated and a summary distributed.