

This 'update edition' of the CIU Daily Evidence Digest includes publications from the holiday period. CIU digests collate recently released reports and evidence – provision of links to the evidence does not imply endorsement nor recommendation.

Distribution of regular daily digests will recommence tomorrow, 20 January.

### Saliva versus nasopharyngeal swabs, vaccine schedule and adverse events, post-acute COVID-19

#### Peer reviewed journals featured:

- Systematic review and meta-analysis of saliva and nasopharyngeal swab nucleic acid amplification testing for SARS-CoV-2 [here](#)
- Randomised trials on:
  - A neutralising monoclonal antibody for hospitalised COVID-19 patients [here](#)
  - Tocilizumab in patients hospitalised with COVID-19 pneumonia [here](#)
- An experimental study on the stability of SARS-CoV-2 on critical personal protective equipment [here](#)
- A simulation study on fluid dynamics of COVID-19 airborne infection [here](#)
- A comparison study of SARS-CoV-2 detection using self-collected saline gargle, oral swab and combined oral-anterior nasal swab versus provider collected nasopharyngeal swab [here](#)
- Cohort studies on:
  - Prevalence and risk factors for delirium in critically ill patients with COVID-19 [here](#) and associate commentary [here](#)
  - Risks of and risk factors for COVID-19 disease in people with diabetes in Scotland [here](#) and associated commentary [here](#)
  - The development and validation of the ISARIC 4C deterioration model for adults hospitalised with COVID-19 [here](#)
- Modelling studies on:
  - Bidirectional contact tracing to improve COVID-19 control [here](#)
  - SARS-CoV-2 transmission from people without COVID-19 symptoms [here](#)
- Observational studies on:
  - Correlation of population mortality of COVID-19 and testing coverage in 36 OECD countries [here](#)
  - The failure of epidemic model parameter estimation [here](#)
  - Duration and key determinants of infectious virus shedding in hospitalised COVID-19 patients [here](#)
  - Psychological characteristics associated with COVID-19 vaccine hesitancy and resistance in Ireland and the United Kingdom [here](#)

- Immunological memory to SARS-CoV-2 [here](#)
- Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health [here](#)
- Antibody status and incidence of SARS-CoV-2 infection in health care workers [here](#)
- Convalescent plasma antibody levels and the risk of death [here](#)
- Editorials on:
  - Vitamin D and COVID-19 [here](#)
  - Asymptomatic transmission of COVID-19 [here](#)
  - The National Institute for Health and Care Excellence (NICE) guideline on post-acute COVID (long COVID) [here](#)
- Commentary on:
  - COVID-19 testing [here](#)
  - Herd immunity by infection [here](#)
  - Wastewater surveillance in monitoring COVID-19 vaccine distribution [here](#)
  - New variant SARS-CoV-2 in the UK [here](#)
  - COVID-19 and the Swedish enigma [here](#)
  - Long COVID guidelines and lived experience [here](#)
  - Allocating scarce intensive care resources during the COVID-19 pandemic [here](#)
  - The potential for COVID-19 breath diagnostics [here](#)
  - Emergence of a highly fit SARS-CoV-2 variant [here](#)
  - The COVID-19 response in Australia [here](#)
  - Elimination as the optimal response strategy for COVID-19 and other emerging pandemic diseases [here](#)

## Guidance and reports

- The Cochrane Library published updates to six special collections were updated [here](#) and rapid scoping reviews on:
  - Care bundles for improving outcomes in patients with COVID-19 or related conditions in intensive care [here](#)
  - Measures implemented in the school setting to contain the COVID-19 pandemic [here](#)
- The World Health Organization published guidance on:
  - Analysing and using routine data to monitor the effects of COVID-19 on essential health services [here](#)
  - Infection prevention and control principles and procedures for COVID-19 vaccination activities [here](#)
  - Interim recommendations for use of the Pfizer–BioNTech COVID-19 vaccine under emergency use listing [here](#)
  - Infection prevention and control guidance for long-term care facilities in the context of COVID-19 [here](#)
  - Rational use of personal protective equipment for COVID-19 and considerations during severe shortages [here](#)
  - A living guideline on therapeutics and COVID-19 [here](#)
  - COVID-19 weekly epidemiological update [here](#)

- First meeting of the technical advisory group on safe schooling during the COVID-19 pandemic in Denmark [here](#) and the second meeting [here](#)
- The Australian National COVID-19 Clinical Evidence Taskforce released new or updated recommendations and clinical flowcharts [here](#)
- A NICE COVID-19 rapid evidence summary on tocilizumab for COVID-19 [here](#)

## News and blogs

- BMJ news articles on:
  - Norwegian investigation of 23 deaths in frail elderly patients after the Pfizer/BioNTec vaccine [here](#)
  - The evidence for extending the dosing interval [here](#)
  - Vaccine brands can be mixed in “extremely rare occasions” [here](#)
  - Controversial rapid test policy divides doctors and scientists [here](#)
  - Medical leaders call for revised PPE guidance to reflect new variants [here](#)
  - Past infection of healthcare workers provides 83% protection for five months but may not stop transmission [here](#)
  - Convalescent plasma may cut deaths in patients not on ventilation [here](#)
  - When to start invasive ventilation with a lack of evidence [here](#)
- Nature news articles on:
  - UK health-care workers suggesting most people are immune for months [here](#)
  - Scientists divided over dosing strategies for COVID-19 vaccines? [here](#)
  - AstraZeneca joins Russia to boost coronavirus vaccine [here](#)
- JAMA news articles on:
  - Hospital readmission among COVID-19 survivors [here](#)
  - Health workers’ antibody levels wane after SARS-CoV-2 infection [here](#)

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