

Daily evidence digest

10 December 2021

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

Comirnaty (Pfizer) vaccine booster, post-acute COVID-19, Omicron studies, TGA approval for Spikevax (Moderna) booster

Peer reviewed journals featured:

- A randomised controlled trial of a third dose of CoronaVac (Sinovac) and immune persistence of a two-dose schedule in healthy adults [here](#) and associated commentary [here](#)
- Narrative reviews on:
 - Post-acute COVID-19 syndrome [here](#)
 - The emergence, genomic diversity, and global spread of SARS-CoV-2 [here](#)
- Observational studies on:
 - Comirnaty (Pfizer) vaccine booster and mortality due to COVID-19 [here](#)
 - Protection against COVID-19 by Comirnaty (Pfizer) booster across age groups [here](#)
 - SARS-CoV-2 rapid point-of-care antigen test in the hospital setting [here](#)
 - Trends in US surgical procedures and healthcare system response to policies [here](#)
- Commentary on the Novavax vaccine [here](#)

Letters and correspondence discussed:

- Nursing home staff vaccination and COVID-19 outcomes [here](#)
- Attitudes about COVID-19 contact tracing and public health guidelines in the US [here](#)

Pre-peer review articles featured:

- Reduced neutralisation of Omicron variant by vaccine sera and monoclonal antibodies [here](#)
- International risk of Omicron variant importations originating in South Africa [here](#)
- The Omicron variant binding to ACE2 and escape from monoclonal antibodies [here](#)
- Specific detection of Omicron variant by four RT-qPCR differential assays [here](#)
- The Omicron variant increases the interactions of spike glycoprotein with ACE2 [here](#)
- Waning antibody levels after Comirnaty (Pfizer) and inactivated CoronaVac (Sinovac) vaccines in Hong Kong blood donors [here](#)
- Neutralising antibody response to mRNA vaccination against the Delta variant [here](#)
- Cardiac adverse effects in children under 18 years of age after COVID-19 vaccination [here](#)

Guidance and reports

- The Therapeutic Goods Administration (TGA) issued provisional approval for booster doses of Spikevax (Moderna) COVID-19 vaccine [here](#)

News and blogs

- Omicron likely to weaken COVID-19 vaccine protection [here](#)

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Living Evidence Tables

Living Evidence tables are up-to-date summaries of emerging evidence. Tables are available on [COVID-19 transmission](#), SARS-CoV-2 [vaccines](#), and [variants](#) of concern, [post-acute sequelae of COVID-19 \(PASC\)](#), [surgery and COVID-19](#), [rapid testing](#) and [risk mitigation strategies](#).