

Daily evidence digest

17 January 2022

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

COVID-19 in adolescents, indirect impacts of COVID-19 on childhood infections, clinical outcomes in the Omicron wave

Peer reviewed journals featured:

- A systematic review on self-collected saliva versus nasopharyngeal sampling for RT-PCR [here](#)
- Randomised controlled trials of:
 - Linagliptin plus insulin compared with insulin alone in hospitalised COVID-19 patients with hyperglycaemia [here](#)
 - Additional heterologous vs homologous booster in immunosuppressed patients [here](#)
 - High dose ivermectin for the early treatment of COVID-19 (COVER study) [here](#)
- Observational studies on:
 - Outcomes of SARS-CoV-2–positive youths tested in emergency departments [here](#)
 - Comirnaty (Pfizer) vaccine effectiveness against critical COVID-19 in adolescents [here](#)
 - Duration of protection against mild and severe disease by COVID-19 vaccines [here](#)
 - Rapid antigen testing in responding to nosocomial SARS-CoV-2 outbreak risk [here](#)
 - Antibody-resistant SARS-CoV-2 variants in breakthrough cases in San Francisco [here](#)
 - Serological response following paediatric SARS-CoV-2 infection [here](#)
 - Third dose of Comirnaty (Pfizer) and SARS-CoV-2 infection in healthcare workers in Israel [here](#)
 - SARS-CoV-2 in saliva of Comirnaty (Pfizer) vaccinated nursing home workers [here](#)
 - COVID-19 infection following Sinopharm vaccine in the United Arab Emirates [here](#)
 - Dynamics of spike-and nucleocapsid specific immunity during long-term follow-up and vaccination of SARS-CoV-2 convalescents [here](#)
 - COVID-19 herd immunity threshold in Spain [here](#)
 - Effectiveness of COVID-19 vaccines over 9 months in North Carolina [here](#)
 - SARS-CoV-2 infection and vaccination rates in pregnant women in Scotland [here](#)
 - Cross-reactive memory T cells protect COVID-19 contacts against SARS-CoV-2 [here](#)
 - Indirect effects of COVID-19 on childhood infection in England [here](#) and associated editorial [here](#)
 - The effect of maternal SARS-CoV-2 infection timing on birth outcomes [here](#) and associated commentary [here](#)
 - The use of COVID-19 mortality indicators [here](#)
 - Patient accounts of illness severity, treatments, and lasting symptoms in the US [here](#)
 - Quarantine and testing strategies to ameliorate transmission due to travel [here](#)

- A strategy to safely provide surgical care during COVID-19 in Houston [here](#)
- An editorial on country adaptations to COVID-19 [here](#)
- Commentary on France's health pass and mandatory COVID-19 vaccination [here](#)

Letters and correspondence discussed:

- COVID-19 infections, hospitalisations, and deaths following US vaccination campaigns [here](#)
- Immunological dysfunction following mild-to-moderate SARS-CoV-2 infection [here](#)
- Antibody response and variant cross-neutralisation after breakthrough infection [here](#)
- School learning format and children's behavioural health during COVID-19 in the US [here](#)
- Omicron variant neutralisation in serum from vaccinated and convalescent persons [here](#)

Pre-peer review articles featured:

- Protective effect of a first SARS-CoV-2 infection from reinfection in England [here](#)
- Clinical outcomes among patients infected with Omicron variant in southern California [here](#)
- Outcomes in the Omicron wave compared with previous COVID-19 waves in South Africa [here](#)
- The impact of post-hospital remote monitoring of COVID-19 using pulse oximetry [here](#)
- Durability and cross-reactivity of mRNA vaccine in adolescent children [here](#)
- The dynamics of SARS-CoV-2 infectivity with changes in aerosol microenvironment [here](#)
- SARS-CoV-2 transmission risk model for large scale Dutch test-events [here](#)
- Neutralising monoclonal antibodies for preventing hospitalisation and mortality in COVID-19 outpatients during the Delta wave [here](#)
- COVID-19 infection severity in children aged under 5 years during US Omicron outbreak [here](#)
- Rapid and accurate identification of Omicron variants using droplet digital PCR [here](#)

Guidance and reports

- The World Health Organization published:
 - Interim statement on COVID-19 vaccines in the context of the Omicron variant [here](#)
 - Updates of its COVID-19 epidemiological report [here](#), operational report [here](#), COVID-19 vaccine tracker [here](#), and technical brief on enhancing response to Omicron variant [here](#)
- The National COVID-19 Clinical Evidence Taskforce released updated recommendations and clinical flowcharts [here](#)
- The Therapeutic Goods Administration (TGA) published:
 - A list of approved COVID-19 rapid antigen self-tests in Australia [here](#)
 - Information for health professionals on COVID-19 testing in Australia [here](#)
- The UK Health Security Agency published updated technical briefings on variants of concern [here](#) and on vaccine surveillance [here](#)

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