

Evidence digest

7 October 2022

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

Peripartum outcomes and COVID-19 vaccination, how COVID-19 shaped mental health, long-term neurological sequelae of SARS-CoV-2 infection

Peer reviewed journals featured:

- A systematic review on peripartum outcomes and COVID-19 vaccination during pregnancy [here](#)
- A phase 2/3 clinical trial of a bivalent Omicron-containing booster COVID-19 vaccine [here](#)
- Narrative reviews on:
 - How COVID-19 shaped mental health [here](#)
 - The role of the humoral immune response during COVID-19 [here](#)
- Observational studies on:
 - Long-term neurological sequelae of SARS-CoV-2 infection [here](#)
 - Influenza vaccination and SARS-CoV-2 infection in elderly patients and associated hospitalisation and mortality [here](#)
 - Structural insights for neutralisation of Omicron variants BA.1, BA.2, BA.4 & BA.5 [here](#)
 - Clinical severity of Omicron BA.4/BA.5 lineages in South Africa [here](#)
 - Effectiveness of COVID-19 vaccines against Omicron and Delta hospitalisation [here](#)
 - Waning of vaccine effectiveness against moderate and severe COVID-19 [here](#)
- A series on translating data in a pandemic, including:
 - The importance of linkage and lessons from one pandemic to another [here](#)
 - Data capture and sharing in the COVID-19 pandemic [here](#)
 - An evaluation of prospective COVID-19 modelling studies in the US [here](#)
- Commentary on:
 - The COVID-19 Dashboard for real-time tracking of the pandemic [here](#)
 - Real-time COVID-19 forecasting [here](#)
 - Learning from rapidly developed patient decision aids produced during COVID-19 [here](#)
 - Implementation of COVID-19 vaccination in the UK [here](#)
 - Overcoming “failures of imagination” in the US COVID-19 pandemic response [here](#)
 - What COVID-19 taught us about preparing for the crises to come [here](#)
- A case report on paediatric COVID-19-associated cavernous sinus thrombosis [here](#)

Letters and correspondence discussed:

- Protective effect of previous SARS-CoV-2 infection against Omicron BA.4/BA.5 subvariants [here](#)
- Durability of booster mRNA vaccine against Omicron BA.2.12.1, BA.4, and BA.5 subvariants [here](#)
- Comirnaty (Pfizer) effectiveness and durability against Omicron sublineages in South Africa [here](#)
- Characteristics of retracted research articles about COVID-19 vs other topics [here](#)
- Anti-spike mucosal IgA protection against Omicron infection [here](#)

Pre-peer review articles featured:

- Infliximab for treatment of adults hospitalised with moderate or severe COVID-19 [here](#)
- Home-based, computerised training for cognitive dysfunction associated with long COVID [here](#)
- Tixagevimab-cilgavimab as an early treatment for COVID-19 in kidney transplant recipients [here](#)
- Spikevax (Moderna) effectiveness against Omicron infection and COVID-19 hospitalisation [here](#)
- Reduction in circulating monocytes correlates with persistent post-COVID pulmonary fibrosis in multi-omic comparison of long COVID and idiopathic pulmonary fibrosis [here](#)
- Prior infection and hybrid immunity protection against Omicron infection and severe disease [here](#)
- Effectiveness of nirmatrelvir-ritonavir (Paxlovid) against hospital admission in the US [here](#)
- Presentation of long COVID and associated risk factors in a mobile health study [here](#)

Guidance and reports

- The World Health Organization published:
 - Its weekly epidemiological report on COVID-19 [here](#)
 - Guidance on evaluating COVID-19 vaccine effectiveness [here](#)
 - An update to its technical document on COVID-19 variants of concern [here](#)
- The Therapeutic Goods Administration (TGA) issued:
 - Provisional determination to Moderna's COVID-19 bivalent (Original plus Omicron BA.4/BA.5) booster dose vaccine [here](#)
 - Provisional approval to Pfizer's COVID-19 vaccine, COMIRNATY (tozinameran) for use in children aged 6 months to less than 5 years [here](#)

News and blogs

- 100,000 coronavirus genomes reveal COVID's evolution in Africa [here](#)

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Living Evidence Tables

Living Evidence tables are up-to-date summaries of emerging evidence. Tables are available on SARS-CoV-2 [vaccines](#), and [variants](#) of concern, and [post-acute sequelae of COVID-19 \(long COVID\)](#).