COVID-19 Critical Intelligence Unit

Daily evidence digest

4 May 2022

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

Human genetic epidemiology of COVID-19, pathophysiology of COVID-19 ARDS and MIS-C in children, mRNA vaccine effectiveness over time

Peer reviewed journals featured:

- A narrative review on the human genetic epidemiology of COVID-19 here
- Observational studies on:
    - Pathophysiological pathway differences in children with COVID-19 ARDS and COVID-19 induced MIS-C here
    - Comparative effectiveness over time of mRNA vaccines here
    - Impact of COVID-19 on female breast, colorectal and non-small cell lung cancer incidence, stage, and healthcare pathway to diagnosis in Wales here
- A machine learning-based model for prediction of clinical deterioration in hospitalised patients here

Letters and correspondence discussed:

- Real-world studies on the effectiveness of COVID-19 vaccines here
- Concerns over Molnupiravir trials here, here and here

Pre-peer review articles featured:

- Epidemiological and clinical features of SARS-CoV-2 infection in children during the Omicron outbreak in Shanghai here
- A systematic review on the effectiveness of COVID-19 vaccines against the Omicron variant here
- Evidence for aerosol transfer of SARS-CoV2-specific humoral immunity here

Guidance and reports

- The Therapeutic Goods Administration (TGA) released updates on the provisional approval for Pfizer Australia - COMIRNATY (tozinameran) booster in 12-15 year olds here

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