Daily evidence digest

31 March 2022

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

SARS-CoV-2 reinfections in children, hydration of the nose, larynx, and trachea to reduce COVID-19 symptoms, a global epidemiological database

Peer reviewed journals featured:

- Observational studies on:
    - Risk of SARS-CoV-2 reinfections in children in England here and associated commentary here
    - Cytokine and chemokine profiles in Multisystem Inflammatory Syndrome in children (MIS-C) and in severe paediatric COVID-19 here
    - Effect of hydration of the nose, larynx, and trachea on COVID-19 symptoms here
    - Acute pancreatitis or severe increase in pancreatic enzyme levels after remdesivir administration in COVID-19 patients here
    - Pre-existing hypertension and its treatment in hospitalised COVID-19 patients here
- A modelling study on SARS-CoV-2 substitution processes to predict the next variant here
- An editorial on COVID-19 vaccine patent waivers here
- Commentary on:
    - A global epidemiological database for COVID-19 with fine-grained spatial resolution here
    - The Coronavirus Host Genetics South Africa (COHG-SA) database here
    - The world's refugees remain last in line for COVID-19 vaccines here
    - Scrapping free COVID-19 tests for NHS staff in England here
    - Whether antivirals are a COVID-19 game changer here
    - Access to medicines is an old problem that needs new solutions here

Letters and correspondence discussed:

- Serum neutralisation of the Omicron sublineage BA.2 here
- Masks for preventing respiratory virus infections including SARS-CoV-2, in healthcare and community settings here
- Implementation of a SARS-CoV-2 genotyping panel for prompt Omicron variant identification here
- Reflections on changes to palliative medicine training in light of COVID-19 here
- Trends in suicide following the COVID-19 pandemic in Japan here

Pre-peer review articles featured:

- Neutralisation of Omicron BA.1, BA.2, and BA.3 by 3 doses of Comirnaty (Pfizer) here

News and blogs

- The US tracker overestimated deaths among children here
- Genome data gaps could stymie search for next COVID-19 variant here
- A head-to-head comparison of COVID-19 vaccines reveals how they stack up here
- Oxygen shortages in low and middle income countries two years into pandemic 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, post-acute sequelae of COVID-19 (PASC), surgery and COVID-19, rapid testing and risk mitigation strategies.

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