COVID-19 Critical Intelligence Unit

Daily evidence digest 19 July 2021

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

COVID-19 and mental disorders, learning disability, increased virulence of variants

Peer reviewed journals featured:

• A systematic review on mental disorders and the risk of COVID-19-related mortality, hospitalisation, and ICU admission here

• Observational studies on:
  o The risk of COVID-19 hospital admission and death for people with a learning disability here and associated editorial here
  o Use of a paediatric headbox as an aerosol and droplet barrier here
  o Association of remdesivir treatment with survival and hospital length of stay among US veterans here and associated commentary here
  o SARS-CoV-2 testing and sequencing for international arrivals in the UK here
  o Characteristics and outcomes of COVID-19 patients living with and without obesity in the US, Spain, and the UK here

• Modelling studies on:
  o The impact of vaccination to control COVID-19 burden in the US here
  o Predictability of COVID-19-related morbidity and mortality to establish proactive protocols of countermeasures here

• Editorials on:
  o Defining COVID-19 elimination and eradication here
  o Caution, vaccines, testing here

• Commentary on:
  o Potential benefits of expanded COVID-19 surveillance in the US here
  o SARS-CoV-2 vaccination in immunosuppressed interstitial lung disease patients here
  o Averting future vaccine injustice here

Letters and correspondence discussed:

• Long-term symptoms after SARS-CoV-2 infection in children and adolescents here
• Comparative immunogenicity of mRNA and inactivated vaccines against COVID-19 here
Pre-peer review articles featured:

- Progressive increase in virulence of novel SARS-CoV-2 variants in Ontario, Canada [here](#)
- The infection fatality rate of COVID-19 in community-dwelling populations [here](#)
- Appropriate relaxation of non-pharmaceutical interventions to minimise the risk of a resurgence in SARS-CoV-2 infections [here](#)
- SARS-CoV-2 variants of concern exhibit reduced sensitivity to live-virus neutralisation in sera from Sinovac recipients and COVID-19 patients [here](#)
- The health impacts of a 4-month long community-wide COVID-19 lockdown in Victoria [here](#)

Guidance and reports

- The National COVID-19 Clinical Evidence Taskforce released updated recommendations and clinical flowcharts [here](#)
- The Australian Technical Advisory Group Immunisation (ATAGI) released its weekly update [here](#)

News and blogs

- Vaccine centres operating at 30% capacity as young people stay away in England [here](#)
- RSV, flu, and COVID-19 could push NHS to breaking point in England [here](#)
- Enforced restrictions to care home access in the UK [here](#)
- Emergency use authorisation of COVID-19 vaccines in children is appropriate and necessary [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), and surgery and COVID-19.