

Evidence digest

2 December 2022

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

Reinfection risk, post-COVID-19 syndrome in children and adolescents, medical masks vs N95 respirators for healthcare workers

Peer reviewed journals featured

- A systematic review and meta-analysis on the association of COVID-19 with diabetes: [here](#)
- Updated living reviews on:
 - Antibody response and risk of reinfection after SARS-CoV-2 infection [here](#)
 - Outpatient treatment of confirmed COVID-19 [here](#)
- Observational studies on:
 - Post-COVID syndrome prevalence and risk factors in children and adolescents [here](#)
 - Medical masks versus N95 respirators for health care workers [here](#) and associated editorial [here](#)
 - Temporal improvements in COVID-19 outcomes for hospitalised adults [here](#)
 - Trends, mitigating and aggravating factors in clinician burnout during COVID-19 [here](#)
 - Clinical outcomes of pregnant patients treated with nirmatrelvir and ritonavir [here](#)
 - Antibody levels and cellular response in children one year post infection [here](#)
 - Neutralising antibodies following mRNA booster vaccination in adults >65 years [here](#)
 - Comparison of antibody responses to SARS-CoV-2 variants in Australian children [here](#)
 - Protection against symptomatic infection with Delta and Omicron variants after previous infection and vaccination in adolescents [here](#) and associated commentary [here](#)
 - Immune phenotypes that are associated with subsequent COVID-19 [here](#)
 - Medical complaints following infection with Omicron versus Delta variants [here](#)
 - Impact of community asymptomatic rapid antigen testing on hospital admissions [here](#)
 - Impact of vaccination on long COVID in patients with rheumatic diseases [here](#)
 - Cardiopulmonary exercise testing in patients recovering from COVID-19 [here](#)
 - Electrocardiographic findings in patients hospitalised with COVID-19 [here](#)
 - Impact of COVID-19 on psychosocial work factors and emotional exhaustion among healthcare sector workers [here](#)
- Commentary on:
 - SARS-CoV-2 infection and cardiac arrhythmias [here](#)
 - COVID-19 and the lessons that science forgot [here](#)
 - Understanding and neutralising COVID-19 misinformation and disinformation [here](#)
 - Surveillance of the effects of COVID-19 and emerging infections in pregnancy [here](#)
 - Shifting mortality dynamics in the US during the COVID-19 pandemic [here](#)

Letters and correspondence discussed

- Six-month follow-up after a fourth BNT162b2 vaccine dose [here](#)
- Withholding methotrexate after COVID-19 vaccination [here](#) and [here](#)
- Failure rates for COVID-19 entrance screening [here](#) and associated editorial [here](#)
- In vitro efficacy of antiviral agents against omicron subvariant BA.4.6 [here](#)

Pre-peer review featured:

- Characteristics and outcomes of patients with COVID-19 at high-risk of disease progression receiving sotrovimab, oral antivirals or no treatment in England [here](#)
- Antibody evasion properties of rising SARS-CoV-2 BQ and XBB subvariants [here](#)
- Customer engagement with health apps and the COVID-19 pandemic [here](#)
- Comparative effectiveness of heterologous booster schedules with AZD1222, BNT162b2, or mRNA-1273 vaccines against COVID-19 during Omicron [here](#)
- Neutralisation of BQ1.1 and XBB.1 after booster and COVID-19 [here](#)
- Persistent alveolar dysfunction and lung structural derangement in post-acute COVID-19 [here](#)

Guidance and reports

- The World Health Organization published its weekly epidemiological update on COVID-19 [here](#)
- The UK Health and Security Agency released its weekly variants surveillance report [here](#)
- The National Clinical Evidence Taskforce released updated recommendations and clinical flowcharts [here](#)

News and blogs

- US CDC begins agency-wide changes after pandemic failures [here](#)
- Can China end its 'zero COVID' policy — and minimise COVID deaths? [here](#)
- Protests against lockdowns in China reignite amid crackdown [here](#)
- "Grotesque inequity" that only a quarter of Paxlovid courses go to poorer countries [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 \(PASC\)](#), [surgery and COVID-19](#), [rapid testing](#) and [risk mitigation strategies](#).