COVID-19 Critical Intelligence Unit

Daily evidence digest

19 June 2020

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

Genome, telemedicine, ethics, dexamethasone trial

Peer reviewed journals featured:

- Genome-wide association study of severe COVID-19 with respiratory failure here
- Management of used PPE and COVID-19 waste in South Korea here
- A framework for managing anticoagulation-related gastrointestinal bleeding during COVID-19 here
- A modelling study on border control and quarantine measures here
- Design and development of COVID-19 risk assessment decision support system for GPs here
- International comparison of guidelines for managing neonates during COVID-19 here
- A retrospective study on a triage and telemedicine protocol to optimise infection control in an emergency department in Taiwan here
- Telemedicine enabled accelerated discharge of hospitalised COVID-19 patients to isolation in repurposed hotel rooms here
- Ethical analysis of: triaging critical care resources in COVID-19 here and media focus on healthcare workers as heroes during COVID-19 here
- A comment article on delivering evidence-based critical care for mechanically ventilated patients with COVID-19 here
- Diabetic foot disease management during COVID-19 here
- Changes in indications for radiotherapy during COVID-19 here
- Use of telemedicine and virtual care for remote treatment here
- A scoping review on diagnosing COVID-19 in the emergency department here

Letters and correspondence discussed:

- A negative pressure individual isolation system for CT scans of suspected COVID-19 patients here
- Infection control in the medical imaging department here
- A retrospective study on incidence of acute ischaemic stroke and rate of mechanical thrombectomy in a US tertiary care telemedicine network here
- Prone positioning in awake, non-intubated patients with hypoxemic respiratory failure here

Pre-peer review papers feature:

- A systematic review and a meta-analysis of prevalence of chemosensory dysfunction here
- Cross-sectional survey on potential barriers and facilitators among high risk individuals for uptake of a COVID-19 vaccine here
- Observational cohort study on prevalence of delirium as a COVID-19 symptom in older adults here
- Longitudinal study on the National Early Warning Scores (NEWS /NEWS2) and COVID-19 deaths in UK care homes here
- External validation of the COVID-19 Vulnerability (C-19) Index using an international network of observational healthcare datasets here

Guidance and evidence checks

- The World Health Organisation (WHO)
  - published a scientific brief on releasing COVID-19 patients from isolation here
  - noted preliminary results on dexamethasone use in critically ill COVID-19 patients here
  - announced discontinuation of the hydroxychloroquine arm of the Solidarity Trial here
- The Australian Health Protection Principal Committee also noted the dexamethasone trial here
- The Organisation for Economic Co-operation and Development (OECD) published a broad-ranging report on the impact of COVID-19 on young people here
- The Newfoundland and Labrador Centre for Applied Health Research released a report on strategies to reduce the impact of a second wave of COVID-19 in long term care facilities here

Twitter update

Second waves, mental health and patient-provider communications

From @MJA_editor, cases increasing in China here, @AFP also reporting on the new cluster and response in China here, @minhealthnz New Zealand ends COVID-19 free streak here, and from the Guardian here. @EricTopol on the explainer of accuracy of false positive antibody tests to COVID-19 here with and fast and strong responses save lives here. @BMJ_latest on decision making during COVID-19 here.

@Ian_Hickie,@LRussellWolpe tweeting about the mental health surge from local news sources here, here and blog from @BMJ_latest on preparing for post-intensive care for COVID-19 patients through trauma-informed care framework here and indirect impact of COVID-19 and the de-conditioning pandemic here. @Harwardhealth featuring a blog on global mental health in the time of COVID-19 here

@BMJ_latest blog on how #COVID19 might change the patient-provider relationships here and from @Jpex communication for equity during COVID-19 here.