

Daily evidence digest

16 May 2020

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

Call for robust trials, convalescent plasma, screening, mortality

Peer reviewed journals featured:

- An observational single centre cohort study reporting 30-fold increase in incidence of Kawasaki-like disease at the Italian epicentre of COVID-19 [here](#)
- A brief report on the characteristics and outcomes for 28 heart transplant recipients [here](#)
- A prospective, single-centre, case series of 11 patients with fatal outcome [here](#)
- Variation in false-negative rates by time since exposure in 1330 respiratory samples [here](#)
- The use of machine learning to predict mortality for COVID-19 patients [here](#)
- Web-based crisis management platform developed for use in Canada [here](#)
- A survey of 3109 healthcare workers in Spain about the psychological impact of COVID-19 [here](#)
- A summary of international recommendations in 23 languages for patients with cancer during COVID-19 [here](#)
- A rolling sample survey of 2195 people focused on collective interest vs self-interest as a motivator for mask usage in Canada [here](#)
- An editorial calling for robustly designed, larger, collaborative trials [here](#)
- A discussion of ethics around allocating staff to high-risk clinical roles during COVID-19 [here](#)
- A comment on use of telehealth in urology [here](#)
- Discussion about patterns of care for inflammatory bowel disease (IBD) in China [here](#) and a global survey of 3815 IBD patients [here](#)
- An article on medical education in Australia post-COVID-19 [here](#)
- A commentary on the Australian National Disability Insurance Scheme and COVID-19 [here](#)

Letters on:

- Implications for thiopurine continuation during COVID-19 [here](#)
- Asymptomatic seroconversion of immunoglobulins to COVID-19 in a paediatric dialysis unit [here](#)
- An update on the neurological manifestation of COVID-19 [here](#)
- The challenges of organising community primary care in disadvantaged areas of France during COVID-19 [here](#)

Pre-peer review papers feature:

- A systematic review and meta-analysis on the association of cardiovascular disease and other pre-existing comorbidities with COVID-19 mortality [here](#)
- Early safety indicators of convalescent plasma in 5,000 patients with severe COVID-19 in USA [here](#)
- A prospective observational study in France on the outbreak of Kawasaki disease in children [here](#)
- The estimated time-varying reproduction numbers (R_0) in 12 countries outside China [here](#)

Guidance and reviews released include:

- A Cochrane rapid review on the effectiveness and safety of convalescent plasma therapy for people with COVID-19 [here](#)
- Considerations for mass gatherings in the context of COVID-19 by WHO [here](#)
- Safety of extended use and reuse of N95 respirators by ECRI [here](#)
- ECRI evidence assessment concluded that infrared temperature screening is ineffective for detecting infected persons at a mass level [here](#)
- Updated flow-charts and guidance on respiratory support from National COVID-19 Clinical Evidence Taskforce [here](#)

Twitter:

@WHO news release on the need for substantial investment to avert mental health crisis in response to COVID-19 [here](#) and launch of the mobile learning app for healthcare workers [here](#)

Collection of international perspectives on COVID-19, mental health impacts and responses [here](#), [here](#), [here](#), [here](#) and from Australia [here](#) @OUPAcademic (Oxford Academic) sets out the principles of quality improvement and patient safety science for crisis situations such as pandemics [here](#), an article by @PeterLacman, @donberwick, @JBraithwaite1 on patient safety and quality improvement [here](#)

@AAGBI (Association of Anaesthetists) in-situ simulation crossover study on aerosol box [here](#)

An ECRI lab webcast on ultrasound in the age of COVID-19 [here](#)

@bmj_latest summary of available information for diagnoses of COVID-19 and references to available test options [here](#)

Shared learning through blogs, webinars and resources:

| Handles | Topics | Links |
|--|---|--|
| @ISQua | How is COVID-19 impacting patients and their care? The emotional toll of COVID-19: consequences for healthcare staff and patients Human Factors in the Design and Operation of Ventilators for COVID-19 | Click here Click here Click here |
| @EricTopol | AI (artificial intelligence) for Health Care in the time of COVID-19 | Click here |
| @SSHorg Society for Simulation in Healthcare | Webinar series webinars dedicated to helping healthcare simulation professionals navigate the COVID-19 pandemic | Click here |
| @Royal_College Royal College of Physicians and Surgeons of Canada | COVID 19 Research Q&A Series 10 Tips for Virtual Teaching in COVID-19 | Click here Click here |
| @rcgp | Use of Pulse Oximetry in care homes | Click here |
| Yale University through @coursera | The Science of Well-Being | Click here |