

Weekly Evidence Report



Health Technology Assessment Philippines

5 to 11 June 2021

Overview

The following report presents summaries of evidence the Department of Health (DOH) - Health Technology Assessment (HTA) Unit reviewed for the period of 29 May to 4 June 2021. The HTA Unit reviewed a total of 10 studies for the said period.

Evidence includes 3 studies on Epidemiology; 1 study on Transmission; 0 studies on Drugs; 1 study on Vaccines, 1 study on Equipment and Devices; 1 study on Medical and Surgical Procedures; 0 studies on Traditional Medicine; and 3 studies on Preventive & Promotive Health.

The following report notes that 4 studies have not been peer-reviewed, each highlighted accordingly.



Sections

Epidemiology

Transmission

Drugs

Vaccines

Equipment & Devices

Medical & Surgical Procedures

Traditional Medicine

Preventive & Promotive Health

Evidence on Epidemiology

Local COVID-19 Tracker: <https://www.doh.gov.ph/covid19tracker>

Local COVID-19 Case Tracker: <https://www.doh.gov.ph/covid-19/case-tracker>

Date	Author/s	Title	Journal/ Article Type	Summary
8 Jun 2021	WHO Global	Coronavirus Disease 2019 (COVID-19) External Situation Report	WHO Global (Situation Report)	<ul style="list-style-type: none"> • Three million new cases and over 73,000 new deaths have been recorded in the previous week • A decline was noted from the European and Southeast Asian regions, an increase for the African regions, and a plateau for the region of Americas, the Western Pacific region, and the Eastern Mediterranean region
7 Jun 2021	ASEAN Biodiaspora Virtual Center	Risk Assessment for International Dissemination of COVID-19 to the ASEAN Region	ASEAN Biodiaspora Virtual Center (Risk Assessment)	<ul style="list-style-type: none"> • Overall, a total of 174 million cases and 3 million deaths have been related to COVID-19 • A decrease in India's cases to a now reported 114, 460 new cases in the past week was noted. As such, some restrictions have been eased • Thailand has started their mass vaccination campaign and aims to vaccinate 70% of the population by the end of the year

Evidence on Vulnerable Population Epidemiology

Date	Author/s	Title	Journal/ Article Type	Summary
7 Jun 2021	Moghadasi, AN, et al	The prevalence of COVID-19 infection in patients with multiple sclerosis (MS): a systematic review and meta-analysis	Neurological Science (Systematic Review and Meta-analysis)	<ul style="list-style-type: none"> • 101,462 patients from 12 articles with a mean age of 35 to 54 years old. • The pooled prevalence of COVID-19 suspected MS patients to be at 4% (95% CI: 3-4%) • The pooled prevalence of hospitalization in infected cases was at 10% (95% CI: 7-12%) • Meanwhile, the pooled prevalence of death in admitted cases was at 4% (95% CI: 1-6%)

Evidence on Transmission

Date	Author/s	Title	Journal/ Article Type	Summary
9 Jun 2021	Lacson, R. et al	<u>Assessing the Impact of Mask Usage on COVID-19 Transmission Using a Computer Simulation</u>	MedRxiv (Simulation Study)	<ul style="list-style-type: none"> • A visual simulation was developed in Python 3 creating a virtual indoor supermarket • As the number of masked individuals decreased, the number of infected customers increased • While at 50% mask usage, a 5% initial to no infection was noted • It concluded that mask usage should be implemented since it strongly correlated with increased transmission rates

Evidence on Drugs

Date	Author/s	Title	Journal/ Article Type	Summary
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Evidence on Vaccines

NYT Coronavirus Vaccine Tracker:

<https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>

Bloomberg Vaccine Tracker:

<https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/>

London School of Hygiene and Tropical Medicine Vaccine Trial Mapper and Tracker:

https://vac-lshtm.shinyapps.io/ncov_vaccine_landscape/

ACIP Files:

https://drive.google.com/drive/u/0/folders/1v-jd66qllxnUkfzXWKqiD0mkVvqy_VvJ

Date	Author/s	Title	Journal/ Article Type	Summary
9 Jun 2021	Spencer, AJ, et al	The ChAdOx1 vectored vaccine, AZD2816, induces strong immunogenicity against SARS-CoV-2 B.1.351 and other variants of concern in preclinical studies	BioRxiv (Pre-clinical studies)	<ul style="list-style-type: none"> A new ChAdOx1 nCoV-19 vector expressing the spike protein was created and tested to see antibody neutralisation against the B.1.351 variant AZD2816 used as a booster dose in mice given ChAdOx1 nCoV-19 increased antibody response and neutralising ability against the variant

Evidence on Medical and Surgical Procedures

Date	Author/s	Title	Journal/ Article Type	Summary
2 Jun 2021	Kurnianto, A, et al	Mechanical thrombectomy (MT) for acute ischemic stroke (AIS) in COVID-19 pandemic: a systematic review	Egyptian Journal for Neurology, Psychiatry, and Neurosurgery (Systematic Review)	<ul style="list-style-type: none"> 15 out of 294 total studies were included in the review Clinical outcomes and prognosis remained unchanged despite mechanical thrombectomies becoming prolonged due to the pandemic

Evidence on Equipment & Devices

Date	Author/s	Title	Journal/ Article Type	Summary
8 Jun 2021	Liu, DT, et al	Portable HEPA Purifiers to Eliminate Airborne SARS-CoV-2: A Systematic Review	Otolaryngology-Head and Neck Surgery (Systematic Review)	<ul style="list-style-type: none"> 11 studies were included in the review with 10 evaluating aerosols and submicron particles with similar size to that of COVID-19 All studies showed that portable HEPA purifiers reduced markedly the airborne surrogate particles

Evidence on Traditional Medicine

Date	Author/s	Title	Journal/ Article Type	Summary
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Evidence on Preventive & Promotive Health

Evidence on Screening

Date	Author/s	Title	Journal/ Article Type	Summary
4 Jun 2021	Abbas, M., et al	Hospital-onset COVID-19 infection surveillance systems: A systematic review	Journal of Hospital Infections (Systematic Review)	<ul style="list-style-type: none"> 9 studies on hospital-onset COVID-19 infections (HOCl) were included in the review with six reporting about 0 to 15.2% rate of infection All reported having a HOCl surveillance program in their institution However, the study was limited by having short follow-up periods

Evidence on Personal Measures

Date	Author/s	Title	Journal/ Article Type	Summary
9 Jun 2021	Kawasumi, M., et al	Association between Preventive Measures against Workplace Infection and Preventive Behavior against Personal infection	MedRxiv (Qualitative study)	<ul style="list-style-type: none"> A self-administered questionnaire was given from 22 to 25 December 2020 to adult respondents totaling 21,915 workers As the number of infection control measures increased, the infection prevention behavior of individuals also increased

Evidence on Community Measures

Date	Author/s	Title	Journal/ Article Type	Summary
9 Jun 2021	Kantor, RS, et al	Operationalizing a routine wastewater monitoring laboratory for SARS-CoV-2	MedRxiv (Procedures)	<ul style="list-style-type: none">• A laboratory was created at the University of California, Berkeley• The group detailed their establishment, procedures, and operations in the document• The information has been published to provide information to developing programs in terms of wastewater-based monitoring