

Weekly Evidence Report

Health Technology Assessment Philippines



1 to 7 MAY 2021

Overview

The following report presents summaries of evidence the Department of Health (DOH) - Health Technology Assessment (HTA) Unit reviewed for the period of 1 to 7 May 2021. The HTA Unit reviewed a total of 8 studies for the said period.

Evidence includes 3 studies on Epidemiology; 1 study on Transmission; 0 studies on Drugs; 1 study on Vaccines, 2 studies on Equipment and Devices; 0 studies on Medical and Surgical Procedures; 0 studies on Traditional Medicine; and 1 study on Preventive & Promotive Health.

The following report notes that 5 studies have not been peer-reviewed, each highlighted accordingly.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
4 May 2021	WHO	Coronavirus Disease 2019 (COVID-19) External Situation Report	WHO (Situation Report)	<ul style="list-style-type: none"> For the second consecutive week, COVID-19 cases remain at an all-time high with 5.7 million new cases and over 93,000 deaths The Western Pacific Region has seen an increase in cases and deaths noted to be an increase of 1 to 2%
3 May 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"> 153 million cases and more than 3 million deaths worldwide has been due to COVID-19 India noted the highest single-day rise with 3,689 new deaths due to COVID-19. Variant B.1.617 which first appeared in India was detected for the first time in Malaysia coming from a traveler days after a ban on flights from India was noted. A cross-border travel scheme for compassionate reasons such as death and visiting critically-ill loved ones have been initiated between Malaysia and Singapore The Civil Aviation Authority of Thailand issued that airlines should render services between 11pm and 4am to reduce the impact on travelers between the airport and their accommodations. Moreover, social distancing is emphasized in seating passengers in an aircraft.

Evidence on Vulnerable Population Epidemiology

Date	Author/s	Title	Journal/ Article Type	Summary
3 May 2021	Stout, RL, et al	HIV and the seroprevalence of SARS-CoV-2	MedRxiv (Experimental Study)	<ul style="list-style-type: none"> 340 age and sex-matched COVID-19 positive with 170 HIV positive and 170 HIV negative are compared in the study Healthy HIV-positive have the similar antibody response as HIV-negative

Evidence on Transmission

Date	Author/s	Title	Journal/ Article Type	Summary
3 May 2021	Song, D, et al	<u>Passive and active immunity in infants born to mothers with SARS-CoV-2 infection during pregnancy: Prospective cohort study</u>	MedRxiv (Prospective cohort Study)	<ul style="list-style-type: none"> 145 SARS-CoV-2 positive mothers during pregnancy were included in the study The seropositivity rates of mothers at delivery were noted to be at 65% (95% CI 0.56 to 0.73) and cord blood was at 58% (95% CI 0.49 to 0.66) Maternally-derived passive immunity may protect newborns up to six months

Evidence on Drugs

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

Link to HTA Living Database: <https://bit.ly/3gOOSmG>
 LAST UPDATE: 19 MARCH 2021

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
3 May 2021	Safrai, M, et al	<u>BNT162b2 mRNA Covid-19 vaccine does not impair sperm parameters</u>	MedRxiv (Study)	<ul style="list-style-type: none"> 43 patients undergoing IVF were included in the study between February and March 2021 Knowing that SARS-CoV-2 may impair male fertility, couples desiring to conceive should vaccinate since the vaccine was not seen to impair sperm parameters

Evidence on Equipment & Devices

Date	Author/s	Title	Journal/ Article Type	Summary
3 May 2021	Makela, H, et al	<u>Detection of SARS-CoV-2 infection in gargle, spit and sputum specimens</u>	MedRxiv (Experimental Study)	<ul style="list-style-type: none"> 40 concomitant nasopharyngeal and gargle specimens, 40 gargle, 22 spit, and 16 sputum specimens were included in the study All specimen were as sensitive as nasopharyngeal specimen. Next morning spit and sputum showed a sensitivity of 1.00 (95% CI: 1.00-1.00) and 0.94 (95% CI 0.87 to 1.00), respectively Spit became more promising with a low Ct value of 23.51 (SD 4.57, p-value 0.11)
30 Apr 2021	HIQA	<u>Advice to HSE: Potential impact of different serial testing scenarios using rapid antigen detection tests (RADTs) to detect SARS-CoV-2 in meat processing plant workers</u>	HIQA (Guidance/Advice)	<ul style="list-style-type: none"> The high cases reported in Ireland from meat packing facilities represented a crude relative risk for infection of 3.22% (95% CI: 3.11 to 3.34) Despite following infection prevention and control policies, serial testing with RT-PCR using oropharyngeal/nasopharyngeal specimens The use of RADTs would be a practical, scalable, and cost-effective means to test staff in meat processing plants A minimum performance criteria of at least 80% sensitivity and at least 97% specificity has been set by the WHO and European CDC with at least 90% sensitivity and at least 97% specificity

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
3 May 2021	Stone, M, et al	<u>Use of US Blood Donors for National Serosurveillance of SARS-CoV-2 Antibodies: Basis for an Expanded National Donor Serosurveillance Program</u>	MedRxiv (Seroprevalence Study)	<ul style="list-style-type: none"> The REDS-IV-P Epidemiology Surveillance and Preparedness of the Novel SARS-CoV-2 Epidemic (RESPONSE) At least 1,000 serum specimen were collected monthly during March to August 2020 Seroprevalence showed the greatest increase in New York with higher seroprevalence in non-Hispanic white blood donors

Evidence on Personal Measures

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Evidence on Community Measures

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