

Weekly Evidence Report



Health Technology Assessment Philippines

6 to 12 MARCH 2021

Overview

The following report presents summaries of evidence the Department of Health (DOH) - Health Technology Assessment (HTA) Unit reviewed for the period of 6 to 12 March 2021. The HTA Unit reviewed a total of 11 studies for the said period.

Evidence includes 4 studies on Epidemiology; 1 study on Transmission; 0 studies on Drugs; 1 study on Vaccines, 2 studies on Equipment and Devices; 2 studies on Medical and Surgical Procedures; 0 studies on Traditional Medicine; and 1 study on Preventive & Promotive Health.

The following report notes that 1 study have not been peer-reviewed, each highlighted accordingly.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
3 Mar 2021	WHO WPRO	Coronavirus Disease 2019 (COVID-19) External Situation Report	WHO WPRO (Situation Report)	<ul style="list-style-type: none"> 18 WPRO countries reported new cases, including the Philippines (15,577) PDR, MARshall Islands, Samoa, Solomon Islands, Vanuatu Wallis, and Futuna reported no new cases within the past week Globally, a decreasing trend is seen in the Africam Region, Region of Americas. The European and Eastern Mediterranean regions were noted to be increasing and a plateau is seen in the Southeast Asian Region.
8 Mar 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"> 117.6 million case and 2.6 million deaths were recorded to be related to COVID-19. Vietnam launches its vaccination program with health workers with the first batch receiving the Astrazeneca vaccine Singapore begins vaccinations for migrant workers The Health minister mentioned that the Special committee on ensuring access to COVID-19 vaccine supply adds general practitioners in private practice in the second and third phases of the vaccination program.
3 Mar 2021	Parildar, U., et al	Excess Mortality across Countries in 2020	CEBM (Evidence Summary)	<ul style="list-style-type: none"> Weekly mortality data from 37 countries were used in the study and taking the average of the past 5 years (2015-2019) to calculate the expected mortality per country Relative excess mortality in the included countries were observed to have a range of -4.3% to 14.4% and strongly positively correlated with the recorded number of deaths (r=0.8)

Evidence on Vulnerable Population Epidemiology

Date	Author/s	Title	Journal/ Article Type	Summary
4 Mar 2021	DiLorenzo, MA, et al	COVID-19 guidelines for pregnant women and new mothers: A systematic evidence review	International Journal of Gynaecology and Obstetrics	<ul style="list-style-type: none"> 74 articles were included in the study Most recommended direct breastfeeding with enhanced precaution measures. Social distancing recommendations varied but more recently, rooming in was recommended Mask wearing, good hand hygiene, and proper cleaning of surfaces were recommended as well.

Evidence on Transmission

Date	Author/s	Title	Journal/ Article Type	Summary
8 Mar 2021	HIQA	Duration of immunity (protection from reinfection) following SARS-CoV-2 infection	HIQA (Evidence Summary)	<ul style="list-style-type: none"> Five studies from the UK, Qatar, and the US were included. They were all observational cohort studies The median number of PCR-or antibody-positive participants at baseline was 6,614 (range: 1,038 to 378,606) and the median duration of follow-up was 4.6 months (range: 1.8 to 6.7 months) The estimated risk of reinfection was low at 0.1% (95% CI, 0.08 to 0.11) in the Qatar study with a 43,044 person cohort. In the late convalescent period, a waning of antibody responses were observed

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 FEBRUARY 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-jd66qllxnUkfzXWKqiD0mkVvgy_VvJ

Date	Author/s	Title	Journal/ Article Type	Summary
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11 Mar 2021	Khoury, DS, et al	<u>What level of neutralising antibody protects from COVID-19?</u>	MedRxiv	<ul style="list-style-type: none"> The estimated 50% neutralisation level was about 20% of the average convalescent level (95% CI= 14-28%) The estimated neutralisation level for protection from severe infection is about six-fold lower than the level to protect from any infection
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Evidence on Equipment & Devices

Date	Author/s	Title	Journal/ Article Type	Summary
4 Mar 2021	Park, JY;, et al	The accuracy of chest CT in the diagnosis of COVID-19: An umbrella review	CEBM (Review)	<ul style="list-style-type: none"> In the study, there was a sensitivity of 90% and a specificity between 25 and 83% for chest CT in the diagnosis of symptomatic adult patients There was limited data regarding chest CT used in children
3 Mar 2021	Schumm, MA, et al	Filtering Facepiece Respirator (N95 Respirator) Reprocessing: A Systematic Review	JAMA (Systematic Review)	<ul style="list-style-type: none"> 42 studies which examined 65 types of masks were included in the review UV germicidal irradiation, vaporized hydrogen peroxide, moist heat, and microwave-generated steam processing sterilized N95 respirators effectively and retained filtration performance UV irradiation and vaporized hydrogen peroxide damaged the masks the least

Evidence on Medical & Surgical Procedures

Date	Author/s	Title	Journal/ Article Type	Summary
8 Mar 2021	Subramonioan , A., et al	Convalescent Plasma Therapy for the Treatment of COVID-19: A Review of Clinical Effectiveness	CADTH (Technology Review)	<ul style="list-style-type: none"> Four RCTs and 12 non-RCTs were included in the review with low-to-moderate quality and several methodological limitations, lack of clear reporting, high heterogeneity, and limited generalizability to Canadian settings The use of CP versus standard of care or placebo was unclear
3 Mar 2021	Kumar, P., et al	30-Day Mortality Rate in Hip Fractures Among the Elderly with Coexistent COVID-19 Infection: A Systematic Review	Indian Journal of Orthopaedics (Systematic Review)	<ul style="list-style-type: none"> 20 studies were included looking at the primary outcome of 30 day mortality An odds ratio of 6.09 (95% CI, 4.75-8.59, p<0.00001) was found for the primary outcome. Higher rates were noted for mortality, complication rate, and length of hospital stay in COVID-19 positive patients

Evidence on Traditional Medicine

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

Evidence on Screening

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Evidence on Personal Measures

Date	Author/s	Title	Journal/ Article Type	Summary
4 Mar 2021	HIQA	Reduction of the minimum age for the application of mask wearing requirements and recommendations	HIQA (Advise)	<ul style="list-style-type: none"> The mask in this advice was defined as a disposable medical or surgical mask or a reusable cloth face covering As of the Expert Advisory Group, individuals 13 years old and older are required to use a face covering on public transport and in shops or other settings. The current guidance with respect to mask use in children does not preclude them from wearing masks Parents may choose for the child to wear a mask based on their individual assessment

Evidence on Community Measures

Date	Author/s	Title	Journal/ Article Type	Summary
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