Risk Assessment for International Dissemination of COVID-19 to the ASEAN Region

ASEAN Biodiaspora Virtual Center (ABVC) as of May 27, 2020 (2:00 PM GMT+8)



COVID-19: Highlights and Situation Overview

- World Health Organization's (WHO) Director-General, in his regular media briefing, mentioned that "over 400 hospitals in 35 countries are actively recruiting patients and nearly 3500 patients have been enrolled from 17 countries" as part of the Solidarity Trial which was established to evaluate the safety and efficacy of four drugs and drug combinations against COVID-19.
- Indonesia's National Police are tightening security at all mudik (exodus) checkpoints since Monday (May 25) to monitor post-Idul Fitri traffic. They say they will not allow people who have left Jakarta to return without an Exit and Entry Permit (SIKM). People wishing to enter Jakarta are required to obtain a permit from the Jakarta administration and the police. Any passengers who do not meet the requirements will be prevented from continuing the trip.
- Thailand's government extended its state of emergency until end of June as suggested by the Centre for COVID-19 Situation Administration (CCSA). According to the government spokesperson, the state of emergency is still necessary because it helps in the containment and prevention of the spread of COVID-19 and supports officials in their performance of duties, as well as their speed and continuity in helping people. As Thailand is approaching the third and fourth stages of lockdown relaxations, the spokesperson said that it is necessary that several measures remain in place and are implemented effectively to ensure that the contagion is kept under control, if not eliminated.
- The Philippines' Department of Health (DOH) announced on May 26 that it will stop administering hydroxychloroquine in its clinical trials on COVID-19 patients in accordance with the recommendation of the World Health Organization (WHO). The announcement was made a day after the WHO said that it is suspending the use of the anti-malaria drug due to safety reasons. Hydroxychloroquine is one of four drugs being administered in the WHO's experimental treatments in multiple countries, called a solidarity trial, in hopes of finding a cure for COVID-19.
- On May 25, Japan's Prime Minister has lifted its state of emergency in the
 country's last five prefectures, including Tokyo. During his press conference, he
 noted that the number of hospitalized COVID-19 patients has dropped from
 10,000 about 1 month ago to 2000. Although the state of emergency has been
 lifted, there will still be an extensive and detailed governmental guidelines for
 different sectors of the economy.

Travel Advisories (new update/s)

- Cambodia: After lifting travel ban from 5 countries (Iran, Italy, Germany, Spain, France and the US), the Health Minister announced on May 24 that effective May 25, Cambodia will be enforcing a strict mandatory 14-day quarantine for all passengers flying into the country. The mandatory measures come after Cambodia identified two new cases of COVID-19, with both passengers who departed from the United States (one via Philippines and one via South Korea) tested positive.
- Laos: Government official announced on May 26 that students, Lao citizens, experts and diplomats are now permitted to enter and exit Laos providing that they have travel documents authorized by the Ministry of Foreign Affairs.
- Indonesia: In accordance with Gubernatorial Decree No. 47/2020 on travel limitations out of and into Greater Jakarta, train operator PT Kereta Api

- Indonesia (KAI) is requiring passengers to obtain an Exit and Entry Permit (SIKM) to board trains headed toward the region.
- Singapore: Singapore will gradually allow travelers to transit through Changi Airport starting June 2. Currently, foreign passengers may only transit through Singapore if they are on repatriation flights arranged by their governments.
- South Korea: Jin Air Co. said it will resume flights on five international routes starting June 1 to cater incoming passengers and meet cargo-carrying demands. Jin Air plans to restart flight services on routes from Incheon (South Korea) to Bangkok (Thailand), Taipei (China), Narita and Osaka (Japan) and Vietnam from June 1, to bring overseas Koreans, those studying abroad and businessmen to the country. In addition, Jeju Air said it will reopen flights to Manila (Philippines) in June, while Air Busan and Air Seoul will restore international routes in July. In addition, starting on June 1, South Korea will temporarily require re-entry permits, which are usually waived for long-term visa holders. If the permit is not obtained at a local immigration office before departing South Korea, the resident will lose their visa. The provision does not apply to diplomatic or official visas or 'overseas Korean' visas given to people with a foreign parent or grandparent who once held Korean nationality.

Cases and Deaths as of 27 May 2020

- As of May 27 (2PM, GMT+8), worldwide, there were **5,648,381** confirmed cases, including **351,931** deaths. Globally, Case Fatality Ratio (CFR)* is **6.23**.
- In **China**, there were **84,544** confirmed cases with **4,645** deaths, including deaths in Hong Kong (4) and Taiwan (7). Confirmed cases in China include confirmed cases in Hong Kong (1,066), Macau (45), and Taiwan (441).
- 5,563,837 confirmed cases of COVID-19 have been reported in 212 countries/states (other than China, Hong Kong, Taiwan and Macau):

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST CONFIRMED CASE(S)	CONFIRMED CASES/ (Deaths)	CASE FATALITY RATIO*
ASIA PACIFIC	Thailand	13 Jan 2020	26 May 2020	3,065 (57)	1.86
	Vietnam	23 Jan 2020	26 May 2020	327	
	Singapore	23 Jan 2020	26 May 2020	32,343 (23)	0.07
	Malaysia	25 Jan 2020	26 May 2020	7,604 (115)	1.51
	Cambodia	27 Jan 2020	23 May 2020	124	
	Philippines	30 Jan 2020	26 May 2020	14,669 (886)	6.04
	Indonesia	02 Mar 2020	26 May 2020	23,165 (1,418)	6.12
	Brunei	10 Mar 2020	07 May 2020	141 (1)	0.71
	Myanmar	23 Mar 2020	26 May 2020	206 (6)	2.91
	Lao PDR	24 Mar 2020	13 Apr 2020	19	
	Japan	16 Jan 2020	26 May 2020	17,287 (837)	4.84
	South Korea	20 Jan 2020	26 May 2020	11,225 (269)	2.40

	Nepal	24 Jan 2020	26 May 2020	772 (4)	0.52
	Australia	25 Jan 2020	26 May 2020	7,133 (102)	1.43
	Sri Lanka	27 Jan 2020	26 May 2020	1,278 (14)	1.10
	India	30 Jan 2020	26 May 2020	150,259 (4,307)	2.87
	Afghanistan	24 Feb 2020	26 May 2020	11,831 (220)	1.86
	Pakistan	26 Feb 2020	26 May 2020	57,705 (1,197)	2.07
	New Zealand	28 Feb 2020	22 May 2020	1,504 (21)	1.40
	Bhutan	05 Mar 2020	25 May 2020	27	
	Maldives	07 Mar 2020	26 May 2020	1,395 (4)	0.29
	Bangladesh	08 Mar 2020	26 May 2020	36,751 (522)	1.42
	Mongolia	10 Mar 2020	22 May 2020	141	
	Turkey	10 Mar 2020	26 May 2020	157,814 (4,369)	2.77
	French Polynesia	12 Mar 2020	06 May 2020	60	
	Guam	15 Mar 2020	26 May 2020	167 (5)	2.99
	New Caledonia	17 Mar 2020	02 Apr 2020	18	
	Fiji	18 Mar 2020	20 Apr 2020	18	
	Papua New Guinea	21 Mar 2020	22 Apr 2020	8	
	Timor Leste	21 Mar 2020	25 Apr 2020	24	
	Northern Mariana Islands	28 Mar 2020	21 May 2020	22 (2)	9.09
AMERICAS	USA	21 Jan 2020	26 May 2020	1,719,666 (100,399)	5.84
	Canada	25 Jan 2020	26 May 2020	86,614 (6,720)	7.76
	Brazil	26 Feb 2020	26 May 2020	376,669 (23,522)	6.24
	Mexico	28 Feb 2020	26 May 2020	71,105 (7,633)	10.73
	Saint Martin	01 Mar 2020	20 May 2020	40 (3)	7.50
	Ecuador	01 Mar 2020	25 May 2020	37,355 (3,203)	8.57
	Dominican Republic	01 Mar 2020	26 May 2020	15,264 (468)	3.07
	Chile	03 Mar 2020	26 May 2020	77,961 (806)	1.03
	Argentina	03 Mar 2020	26 May 2020	12,628 (471)	3.73
	Peru	05 Mar 2020	26 May 2020	123,979 (3,629)	2.93
	Costa Rica	06 Mar 2020	26 May 2020	951 (10)	1.05
	Colombia	06 Mar 2020	26 May 2020	21,981 (750)	3.41
	French Guiana	06 Mar 2020	26 May 2020	353 (1)	0.28
	Martinique	06 Mar 2020	24 May 2020	197 (14)	7.11
	Paraguay	07 Mar 2020	26 May 2020	877 (11)	1.25
	Panama	10 Mar 2020	26 May 2020	11,183 (310)	2.77
	Bolivia	10 Mar 2020	26 May 2020	6,660 (261)	3.92
	Honduras	11 Mar 2020	26 May 2020	4,189 (182)	4.34
	Cuba	11 Mar 2020	26 May 2020	1,963 (82)	4.18
	Guyana	11 Mar 2020	26 May 2020	137 (11)	8.03
	Jamaica	12 Mar 2020	26 May 2020	556 (9)	1.62
	St Vincent and the Grenadines	12 Mar 2020	23 May 2020	18	

Saint Lucia	13 Mar 2020	04 May 2020	18	
Trinidad and Tobago	13 Mar 2020	27 Apr 2020	116 (8)	6.90
Venezuela	13 Mar 2020	26 May 2020	1,177 (10)	0.85
Guatemala	13 Mar 2020	26 May 2020	3,760 (59)	1.57
Uruguay	13 Mar 2020	26 May 2020	787 (22)	2.80
Curacao	13 Mar 2020	25 May 2020	17 (1)	5.88
Puerto Rico	13 Mar 2020	26 May 2020	3,324 (129)	3.88
Suriname	13 Mar 2020	25 May 2020	11 (1)	9.09
Antigua and Barbuda	13 Mar 2020	02 May 2020	25 (3)	12.00
Guadeloupe	13 Mar 2020	25 May 2020	161 (14)	8.70
Cayman Islands	13 Mar 2020	26 May 2020	134 (1)	0.75
Aruba	14 Mar 2020	13 May 2020	101 (3)	2.97
Bahamas	15 Mar 2020	24 May 2020	100 (11)	11.00
US Virgin Islands	16 Mar 2020	15 May 2020	69 (6)	8.70
Sint Maarten	17 Mar 2020	17 May 2020	77 (15)	19.48
Montserrat	17 Mar 2020	25 Apr 2020	11 (1)	9.09
Barbados	17 Mar 2020	24 May 2020	92 (7)	7.61
El Salvador	18 Mar 2020	26 May 2020	2,042 (36)	1.76
Nicaragua	18 Mar 2020	22 May 2020	279 (17)	6.09
Bermuda	18 Mar 2020	24 May 2020	133 (9)	6.77
Haiti	19 Mar 2020	26 May 2020	1,063 (31)	2.92
Dominica	22 Mar 2020	11 Apr 2020	16	
Grenada	22 Mar 2020	26 May 2020	23	
Belize	23 Mar 2020	14 Apr 2020	18 (2)	11.11
Turks and Caicos Islands	23 Mar 2020	28 Apr 2020	12 (1)	8.33
Saint Kitts and Nevis	24 Mar 2020	20 Apr 2020	15	
British Virgin Islands	25 Mar 2020	15 May 2020	8 (1)	12.50
Anguilla	26 Mar 2020	03 Apr 2020	3	
Caribbean Netherlands	01 Apr 2020	04 May 2020	6	
Falkland Islands	03 Apr 2020	24 Apr 2020	13	
Saint Pierre and Miquelon	05 Apr 2020	05 Apr 2020	1	
France	24 Jan 2020	26 May 2020	182,722 (28,530)	15.61
Germany	27 Jan 2020	26 May 2020	181,179 (8,469)	4.67
Finland	29 Jan 2020	26 May 2020	6,628 (308)	4.65
Italy	30 Jan 2020	26 May 2020	230,555 (32,955)	14.29
Russian Federation	31 Jan 2020	26 May 2020	362,342 (3,807)	1.05
Spain	31 Jan 2020	23 May 2020	282,370 (28,752)	10.18
Sweden	31 Jan 2020	26 May 2020	34,440 (4,125)	11.98
United Kingdom of Great Britain	31 Jan 2020	26 May 2020	265,277 (37,048)	13.97
Belgium	05 Feb 2020	26 May 2020	57,455 (9,334)	16.25

EUROPE

Switzerland	25 Feb 2020	26 May 2020	30,761 (1,915)	6.23
Austria	25 Feb 2020	26 May 2020	16,557 (643)	3.88
Croatia	25 Feb 2020	25 May 2020	2,244 (100)	4.46
Norway	26 Feb 2020	26 May 2020	8,374 (235)	2.81
Romania	26 Feb 2020	26 May 2020	18,429 (1,216)	6.60
Estonia	26 Feb 2020	26 May 2020	1,834 (65)	3.54
Georgia	26 Feb 2020	26 May 2020	732 (12)	1.64
North Macedonia	26 Feb 2020	26 May 2020	` .	5.76
		· ·	2,014 (116)	
Greece	26 Feb 2020	26 May 2020	2,882 (172)	5.97
Denmark	27 Feb 2020	26 May 2020	11,428 (563)	4.93
San Marino	27 Feb 2020	26 May 2020	666 (42)	6.31
Lithuania	27 Feb 2020	26 May 2020	1,639 (65)	3.97
Netherlands	27 Feb 2020	26 May 2020	45,578 (5,856)	12.85
Azerbaijan	27 Feb 2020	25 May 2020	4,271 (51)	1.19
Belarus	28 Feb 2020	26 May 2020	38,059 (208)	0.55
Iceland	28 Feb 2020	23 May 2020	1,804 (10)	0.55
Ireland	28 Feb 2020	26 May 2020	24,698 (1,606)	6.50
Monaco	29 Feb 2020	20 May 2020	98 (4)	4.08
Czech Republic	01 Mar 2020	26 May 2020	9,004 (317)	3.52
Luxembourg	01 Mar 2020	26 May 2020	3,993 (110)	2.75
Armenia	01 Mar 2020	26 May 2020	7,402 (91)	1.23
Latvia	02 Mar 2020	26 May 2020	1,053 (22)	2.09
Portugal	02 Mar 2020	26 May 2020	31,007 (1,342)	4.33
Andorra	02 Mar 2020	26 May 2020	763 (51)	6.68
Liechtenstein	03 Mar 2020	27 Apr 2020	82 (1)	1.22
Ukraine	03 Mar 2020	26 May 2020	21,584 (644)	2.98
Slovenia	04 Mar 2020	25 May 2020	1,469 (107)	7.28
Hungary	04 Mar 2020	26 May 2020	3,771 (499)	13.23
Poland	04 Mar 2020	26 May 2020	22,074 (1,024)	4.64
Faroe Islands	04 Mar 2020	23 Apr 2020	187	
Bosnia and Herzegovina	05 Mar 2020	26 May 2020	2,416 (149)	6.17
Gibraltar	05 Mar 2020	24 May 2020	154	
Slovakia	06 Mar 2020	26 May 2020	1,513 (28)	1.85
Serbia	06 Mar 2020	26 May 2020	11,227 (239)	2.13
Vatican City	06 Mar 2020	08 May 2020	12	
Malta	07 Mar 2020	25 May 2020	611 (6)**	0.98
Moldova	07 Mar 2020	26 May 2020	7,305 (267)	3.66
Bulgaria	08 Mar 2020	26 May 2020	2,443 (130)	5.32
Albania	09 Mar 2020	26 May 2020	1,029 (33)	3.21
Cyprus	09 Mar 2020	25 May 2020	937 (17)	1.81
Channel Islands	09 Mar 2020	26 May 2020	559 (45)	8.05
Jersey	10 Mar 2020	26 May 2020	307 (29)	9.45
Kazakhstan	13 Mar 2020	26 May 2020	8,969 (37)	0.41
Kosovo	13 Mar 2020	26 May 2020	1,038 (30)	2.89
Uzbekistan	15 Mar 2020	26 May 2020	3,281 (13)	0.40

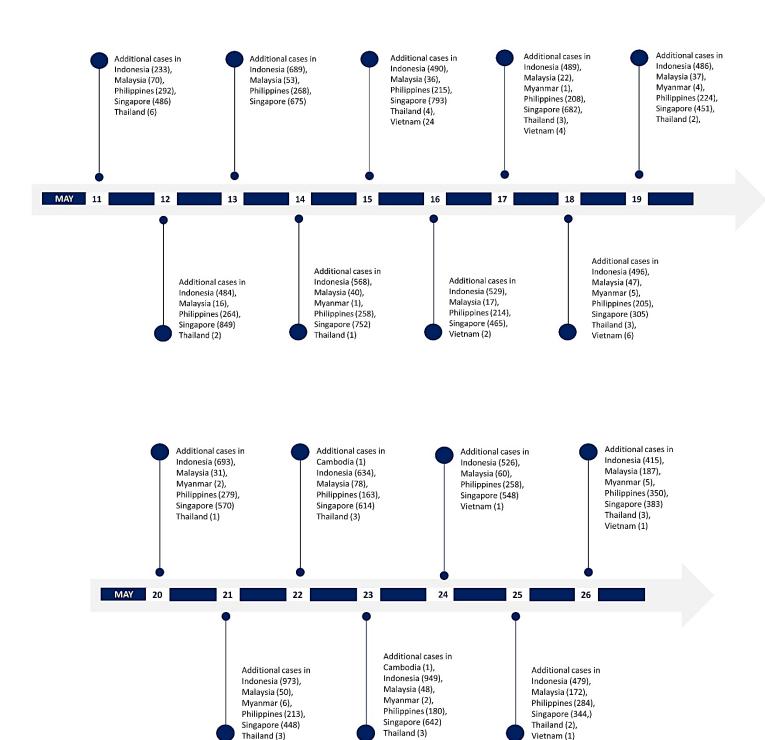
Greenland 16 Mar 2020 25 May 2020 12 Montenegro 17 Mar 2020 10 May 2020 324 (9) 2.78 Kyrgyztan 18 Mar 2020 26 May 2020 1,468 (16) 1.09 Isle of Man 19 Mar 2020 21 May 2020 336 (24) 7.14 Tajikistan 30 Apr 2020 26 May 2020 3,266 (47) 1.44 MIDDLE EAST UAE 29 Jan 2020 26 May 2020 31,086 (253) 0.81 Iran 19 Feb 2020 26 May 2020 139,511 (7,508) 5.38 Israel 21 Feb 2020 26 May 2020 16,743 (281) 1.68 Lebanon 21 Feb 2020 26 May 2020 1,140 (26)** 2.28 Kuwait 24 Feb 2020 26 May 2020 22,575 (172) 0.76
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Israel 21 Feb 2020 26 May 2020 16,743 (281) 1.68 Lebanon 21 Feb 2020 26 May 2020 1,140 (26)** 2.28
Lebanon 21 Feb 2020 26 May 2020 1,140 (26)** 2.28
Kuwait 24 Feb 2020 24 May 2020 22 575 (172) 0.74
NOWAII 24160 2020 20 MUY 2020 22,3/3 (1/2) 0./6
Oman 24 Feb 2020 26 May 2020 8,118 (37) 0.46
Bahrain 24 Feb 2020 26 May 2020 9,223 (14) 0.15
Iraq 24 Feb 2020 26 May 2020 4,632 (163) 3.52
Qatar 29 Feb 2020 26 May 2020 47,207 (28) 0.06
Saudi Arabia 02 Mar 2020 26 May 2020 76,726 (411) 0.54
Jordan 02 Mar 2020 26 May 2020 711 (9) 1.27
Palestine 05 Mar 2020 26 May 2020 605 (5) 0.83
Syria 22 Mar 2020 26 May 2020 121 (4) 3.31
Yemen 10 Apr 2020 26 May 2020 233 (44) 18.88
AFRICA Egypt 14 Feb 2020 26 May 2020 18,756 (797) 4.25
Algeria 25 Feb 2020 26 May 2020 8,697 (617) 7.09
Nigeria 28 Feb 2020 26 May 2020 8,068 (233) 2.89
Tunisia 02 Mar 2020 25 May 2020 1,051 (48) 4.57
Morocco 02 Mar 2020 26 May 2020 7,556 (202) 2.67
Senegal 02 Mar 2020 26 May 2020 3,161 (36) 1.14 South Africa: 05 May 2020 24 May 2020 22 (15 (481)) 2.04
South Africa 05 Mar 2020 26 May 2020 23,615 (481) 2.04 Cameroon 06 Mar 2020 26 May 2020 5,044 (171) 3.39
Cameroon 06 Mar 2020 26 May 2020 5,044 (171) 3.39 Togo 06 Mar 2020 26 May 2020 386 (13) 3.37
Burkina Faso 09 Mar 2020 25 May 2020 832 (52) 6.25
Democratic
Republic of Congo 10 Mar 2020 26 May 2020 2,403 (68) 2.83
Ivory Coast 11 Mar 2020 26 May 2020 2,423 (30) 1.24
Reunion 11 Mar 2020 26 May 2020 459 (1) 0.22
Ghana 13 Mar 2020 26 May 2020 6,964 (32) 0.46
Guinea 13 Mar 2020 25 May 2020 3,275 (20) 0.61
Gabon 13 Mar 2020 26 May 2020 2,135 (14) 0.66
Sudan 13 Mar 2020 26 May 2020 3,976 (170) 4.28
Kenya 13 Mar 2020 26 May 2020 1,348 (52) 3.86
Ethiopia 13 Mar 2020 26 May 2020 701 (6) 0.86
Central African 14 Mar 2020 26 May 2020 652 (1) 0.15
Seychelles 14 Mar 2020 06 Apr 2020 11 0.00
Rwanda 14 Mar 2020 26 May 2020 336 0.00
Namibia 14 Mar 2020 24 May 2020 21 0.00
Swaziland 14 Mar 2020 26 May 2020 261 (2) 0.77
Mauritania 14 Mar 2020 26 May 2020 262 (9) 3.44
Mayotte 14 Mar 2020 25 May 2020 1,609 (20) 1.24
Equatorial Guinea 15 Mar 2020 25 May 2020 1,043 (12) 1.15
Republic of Congo 15 Mar 2020 24 May 2020 487 (16) 3.29
Benin 16 Mar 2020 26 May 2020 208 (3) 1.44
Liberia 16 Mar 2020 25 May 2020 265 (26) 9.81
Tanzania 16 Mar 2020 15 May 2020 509 (21) 4.13
Somalia 16 Mar 2020 25 May 2020 1,689 (66) 3.91
Gambia 17 Mar 2020 23 May 2020 25 (1) 4.00
Zambia 17 Mar 2020 23 May 2020 920 (7) 0.76

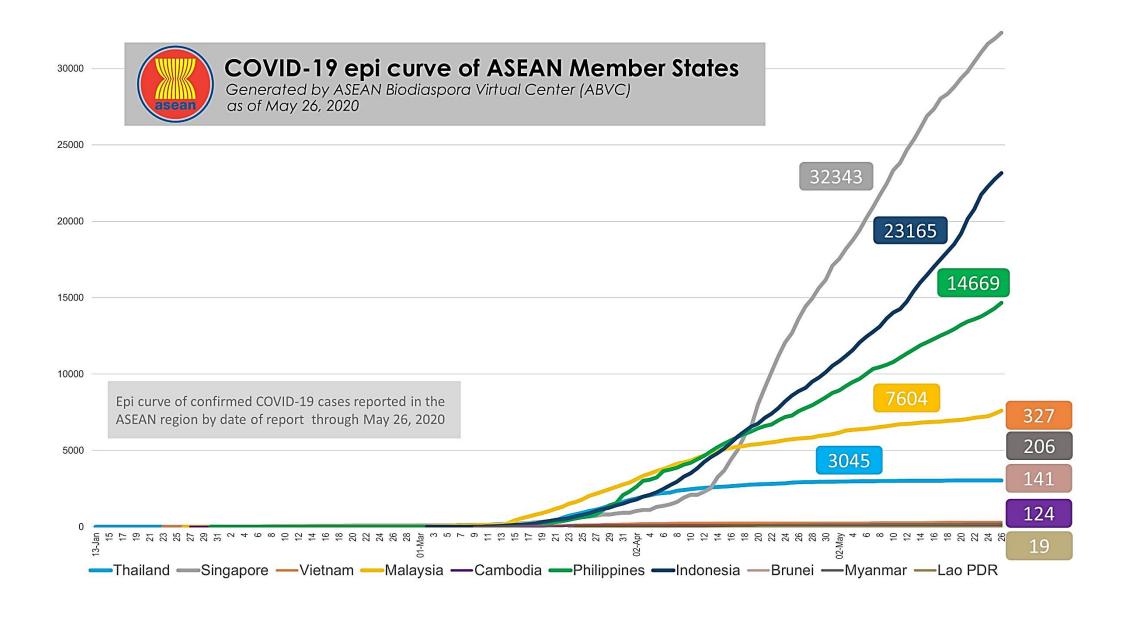
AA	10.140000	0444 0000	224 (12)	0.00
Mauritius	18 Mar 2020	24 May 2020	334 (10)	2.99
Djibouti	18 Mar 2020	24 May 2020	2,468 (14)	0.57
Niger	19 Mar 2020	26 May 2020	951 (62)	6.52
Chad	19 Mar 2020	26 May 2020	687 (61)	8.88
Zimbabwe	20 Mar 2020	24 May 2020	56 (4)	7.14
Cape Verde	20 Mar 2020	25 May 2020	390 (3)	0.77
Madagascar	20 Mar 2020	26 May 2020	586 (2)	0.34
Uganda	21 Mar 2020	26 May 2020	222	
Eritrea	21 Mar 2020	19 Apr 2020	39	
Angola	21 Mar 2020	26 May 2020	70 (4)	5.71
Mozambique	22 Mar 2020	26 May 2020	213 (1)	0.47
Libya	24 Mar 2020	25 May 2020	75 (3)	4.00
Guinea-Bissau	25 Mar 2020	26 May 2020	1,178 (7)	0.59
Mali	25 Mar 2020	26 May 2020	1,077 (70)	6.50
Botswana	30 Mar 2020	25 May 2020	35 (1)	2.86
Sierra Leone	31 Mar 2020	25 May 2020	735 (42)	5.71
Burundi	31 Mar 2020	18 May 2020	42 (1)	2.38
Malawi	02 Apr 2020	25 May 2020	101 (4)	3.96
South Sudan	05 Apr 2020	26 May 2020	806 (8)	0.99
Sao Tome and Principe	06 Apr 2020	25 May 2020	299 (11)	3.68
Lesotho	13 May 2020	23 May 2020	2	
			5,563,837 (347,286)	

^{*}The calculated CFR is based on reported deaths and reported case counts, and does not account for recovered cases over time or rate of testing in a particular region.

**Adjusted cumulative count from last report

Timeline of COVID-19: ASEAN (continuation)





Transmission Category of COVID-19 Affected Countries

BlueDot has classified countries worldwide into categories based on the observed rate of COVID-19 transmission using data generated by Bluedot's global epidemic surveillance system, as of 4:00PM EDT on 22 May 2020. To contextualize each country's current situation, Bluedot calculated: (1) each country's rate of change for COVID-19 case reports over 7 days, (2) case fatality ratios (CFR) for each country, (3) each country's COVID-19 case burden, per 1,000 population and (4) each country's case doubling time (in days). We also utilized the Infectious Disease Vulnerability Index as a measure of each country's public health capacity to detect, respond, and/or control a COVID-19 outbreak.

The following report includes the following figures and table:

Map 1: Map depicting countries by the corresponding COVID-19 transmission category, as defined below.

Map 2: Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This case count includes active cases, resolved cases, and fatalities.

Table: Summary of country categorizations, IDVI value, and COVID-19 cases per 1,000 population



Countries reporting <100 cases and a slowly increasing rate of COVID-19 transmission

- These countries have reported <100 cases of COVID-19, a CFR ≤4%, and have a favorable IDVI suggesting adequate capacity to detect, respond, and/or control an epidemic.
- Interpretation: These countries may be in an early phase of the epidemic, with limited community-based transmission.



Countries reporting a <u>steadily increasing OR stabilizing</u> rate of COVID-19 transmission

- These countries have reported ≥100 cases of COVID-19 and have a steadily increasing OR stabilizing rate of COVID-19 transmission (i.e. the number of new cases reported each day is consistent, or increasing at a low rate).
- Interpretation: These countries may be in an early stage of the epidemic with either steadily increasing community-based transmission, OR demonstrating early evidence of effective epidemic control measures, OR have incomplete testing/reporting.



Countries reporting a rapidly increasing rate of COVID-19 transmission

- These countries have reported ≥100 cases of COVID-19 and have a rapidly accelerating rate of COVID-19 transmission.
- Interpretation: These countries may be in the most aggressive stages of the epidemic and are experiencing widespread community-based transmission and likely have sufficient testing capacity.



Countries reported a negative rate of COVID-19 transmission

- These countries have reported ≥100 cases of COVID-19 and have a decelerating rate of COVID-19 transmission.
- Interpretation: These countries may be in the mid- or later stages of the epidemic, with a negative rate of transmission (i.e. fewer new cases reported each day) due to robust and effective control measures.



Countries where insufficient information is available on COVID-19 transmission

• These countries have not reported imported or local cases of COVID-19

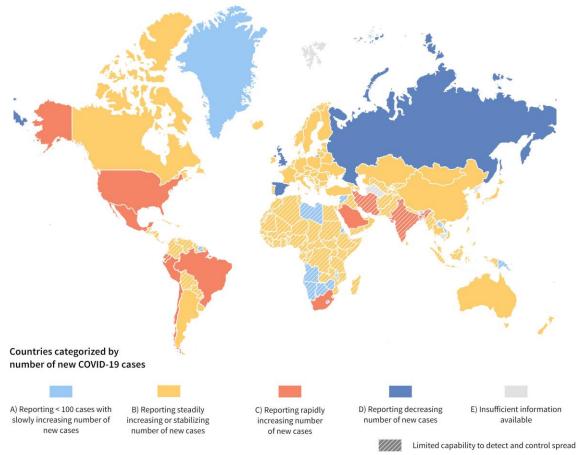


Figure 1. Map depicting countries by the corresponding COVID-19 transmission category

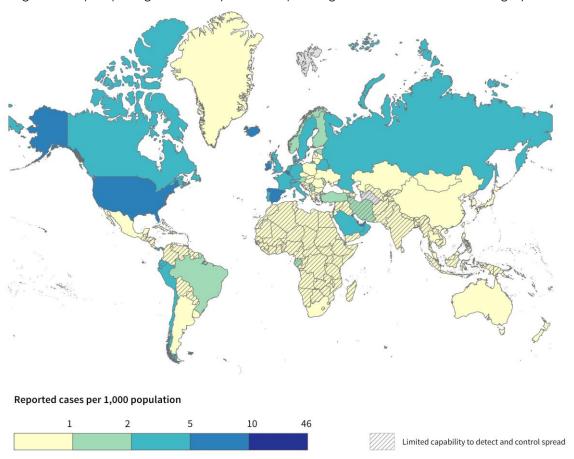


Figure 2. Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This include active cases, resolved cases, and fatalities

Table 1. Summary of ASEAN Member States' country categorization, IDVI value, and COVID-19 cases per 1,000 population as of 28 April 2020

Country	COVID-19 Category As of May 151	COVID-19 Category As of May 201	COVID-19 Category As of May 22 ¹	IDVI Score	Doubling Time (days) ⁴	Confirmed COVID-19 cases per1,000 Population
Brunei	В	В	Е	0.763	50	0.357
Cambodia	В	E	E	0.355	21	0.008
Indonesia	В	В	В	0.563	22	0.083
Laos	А	А	А	0.355	13	0.003
Malaysia	В	В	В	0.761	47	0.250
Myanmar	В	В	В	0.448	33	0.004
Philippines	В	В	В	0.545	29	0.134
Singapore	В	В	В	0.878	24	8.403
Thailand	В	В	В	0.711	53	0.045
Vietnam	В	В	В	0.626	53	0.004

(refer to additional file for country categorization globally)

^{*} Categorized based on suspected cases of COVID-19. Confirmed COVID-19 cases count & cases per 1,000 population unavailable.

¹ Categorization determined based on the 7-day rate-of-change in new case reports.

² Doubling time is calculated retrospectively based on cumulative case reports as of May 22, 2020 at 4:00PM EDT.

