

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

ASEAN Biodiaspora Virtual Center (ABVC)

as of April 15, 2020 (2:00 PM GMT+8)



COVID-19: Highlights and Situation Overview

- WHO has published interim guidance on oxygen sources and distribution strategies for COVID-19 treatment. The document describes how to quantify oxygen demand, identify oxygen sources that are available, and select appropriate surge sources to best respond to COVID-19 patients' needs, especially in low-and-middle income countries (WHO Report 85)
- Indonesia President declared the COVID-19 outbreak in Indonesia a "non-natural national disaster" in a presidential decree last April 13. The decree also states that efforts to mitigate the outbreak are to be led by the COVID-19 task force with the cooperation of regional administrations, ministries and national agencies.
- On April 14, the Philippines rolls out its progressive mass testing to detect COVID-19 cases in the country. In the first wave of expanded testing, high-risk patients (people who are showing severe flu-like symptoms; elderly, those with pre-existing health conditions, and pregnant women with mild symptoms; and healthcare workers with respiratory symptoms) are prioritized. Currently, there are 15 subnational laboratories that can conduct COVID-19 tests nationwide. The Department of Health is also fast tracking the approval of 28 institutions undergoing DOH laboratory certification process, while 37 others have expressed intention to be certified.
- On April 14, Singapore's multi-ministry task force tackling the spread of COVID-19 announced that it will now be mandatory for everyone to wear a mask when leaving their residence. Starting today, April 15, anyone caught not wearing a mask faces a fine of SGD 300 for the first offense and SGD 1,000 in the next offense.

Travel Advisories (new updates)

- Myanmar: Myanmar government announced restriction of border crossing through Myanmar-Bangladesh border gates starting from Tuesday (April 14) to prevent the spread of COVID-19. This is an addition to the movement restriction through the border gates of its neighboring countries such as China, India, Thailand and Laos.
- Thailand: The Civil Aviation Authority of Thailand (CAAT) announced that ban on all incoming passenger flights has been extended for the second time until April 30, 2020. CAAT initially imposed the ban for three days (April 4-6, 2020), then extended it until April 18. The CAAT's third announcement on the ban, issued today (April 15), stated that any existing permission given to any passenger airlines that fall during the newly-extended ban period is null and void.

Cases and Deaths as of 15 April 2020

- As of April 15 (2PM, GMT+8), worldwide, there were 1,964,600** confirmed cases, including 124,038 deaths.
- In China, there were 83,700 confirmed cases with 3,354 deaths, including deaths in Hong Kong (4) and Taiwan (6). Confirmed cases in China include confirmed cases in Hong Kong (1,013), Macau (45), and Taiwan (393).
- 1,880,900** confirmed cases of COVID-19 have been reported in 210 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	14 Apr 2020	2,613 (41)	1.57
	Vietnam	23 Jan 2020	14 Apr 2020	266	
	Singapore	23 Jan 2020	14 Apr 2020	3,252 (10)	0.31
	Malaysia	25 Jan 2020	14 Apr 2020	4,987 (82)	1.64
	Cambodia	27 Jan 2020	12 Apr 2020	122	
	Philippines	30 Jan 2020	14 Apr 2020	5,223 (335)	6.41
	Indonesia	02 Mar 2020	14 Apr 2020	4,839 (459)	9.49
	Brunei	10 Mar 2020	10 Apr 2020	136 (1)	0.74
	Myanmar	23 Mar 2020	14 Apr 2020	63 (4)	6.35
	Lao PDR	24 Mar 2020	13 Apr 2020	19	
	Japan	16 Jan 2020	14 Apr 2020 8,351 (150)	7,655 (115)	1.38
				696 from quarantined ship	
	South Korea	20 Jan 2020	14 Apr 2020	10,564 (222)	2.10
	Nepal	24 Jan 2020	14 Apr 2020	16	0.00
	Australia	25 Jan 2020	14 Apr 2020	6,400 (61)	0.95
	Sri Lanka	27 Jan 2020	14 Apr 2020	219 (7)	3.20
	India	30 Jan 2020	14 Apr 2020	10,541 (358)	3.40
	Afghanistan	24 Feb 2020	14 Apr 2020	714 (23)	3.22
	Pakistan	26 Feb 2020	14 Apr 2020	5,837 (96)	1.64
	New Zealand	28 Feb 2020	14 Apr 2020	1,366 (9)	0.66
	Bhutan	05 Mar 2020	02 Apr 2020	5	
	Maldives	07 Mar 2020	12 Apr 2020	20	
	Bangladesh	08 Mar 2020	14 Apr 2020	1,012 (46)	4.55
	Mongolia	10 Mar 2020	14 Apr 2020	30	
	Turkey	10 Mar 2020	14 Apr 2020	61,049 (1,296)	2.12
	French Polynesia	12 Mar 2020	14 Apr 2020	55	
	Guam	15 Mar 2020	14 Apr 2020	135 (5)	3.70
	New Caledonia	17 Mar 2020	02 Apr 2020	18	
	Fiji	18 Mar 2020	10 Apr 2020	16	
Papua New Guinea	21 Mar 2020	06 Apr 2020	2		
Timor Leste	21 Mar 2020	14 Apr 2020	6		
Northern Mariana Islands	28 Mar 2020	09 Apr 2020	11 (2)	18.18	
AMERICAS	USA	21 Jan 2020	14 Apr 2020	596,220 (25,069)	4.20
	Canada	25 Jan 2020	14 Apr 2020	26,898 (947)	3.52
	Brazil	26 Feb 2020	14 Apr 2020	23,723 (1,355)	5.71
	Mexico	28 Feb 2020	14 Apr 2020	5,014 (332)	6.62
	Saint Martin	01 Mar 2020	07 Apr 2020	32 (2)	6.25
	Ecuador	01 Mar 2020	13 Apr 2020	7,529 (355)	4.72

Dominican Republic	01 Mar 2020	13 Apr 2020	3,167 (177)	5.59
Chile	03 Mar 2020	13 Apr 2020	7,525 (82)	1.09
Argentina	03 Mar 2020	14 Apr 2020	2,277 (98)	4.30
Peru	05 Mar 2020	14 Apr 2020	9,784 (216)	2.21
Costa Rica	06 Mar 2020	14 Apr 2020	612 (3)	0.49
Colombia	06 Mar 2020	14 Apr 2020	2,852 (112)	3.93
French Guiana	06 Mar 2020	12 Apr 2020	86	
Martinique	06 Mar 2020	13 Apr 2020	157 (6)	3.82
Paraguay	07 Mar 2020	14 Apr 2020	159 (7)	4.40
Panama	10 Mar 2020	14 Apr 2020	3,472 (94)	2.71
Bolivia	10 Mar 2020	14 Apr 2020	354 (28)	7.91
Honduras	11 Mar 2020	14 Apr 2020	407 (26)	6.39
Cuba	11 Mar 2020	13 Apr 2020	726 (21)	2.89
Guyana	11 Mar 2020	14 Apr 2020	47 (6)	12.77
Jamaica	12 Mar 2020	14 Apr 2020	73 (4)	5.48
St Vincent and the Grenadines	12 Mar 2020	09 Apr 2020	12	
Saint Lucia	13 Mar 2020	11 Apr 2020	15	
Trinidad and Tobago	13 Mar 2020	13 Apr 2020	113 (8)	7.08
Venezuela	13 Mar 2020	14 Apr 2020	189 (9)	4.76
Guatemala	13 Mar 2020	14 Apr 2020	167 (5)	2.99
Uruguay	13 Mar 2020	14 Apr 2020	483 (8)**	1.66
Curacao	13 Mar 2020	09 Apr 2020	14 (1)	7.14
Puerto Rico	13 Mar 2020	13 Apr 2020	903 (45)	4.98
Suriname	13 Mar 2020	08 Apr 2020	10 (1)	10.00
Antigua and Barbuda	13 Mar 2020	13 Apr 2020	23 (2)	8.70
Guadeloupe	13 Mar 2020	14 Apr 2020	145 (8)	5.52
Cayman Islands	13 Mar 2020	14 Apr 2020	54 (1)	1.85
Aruba	14 Mar 2020	12 Apr 2020	92	
Bahamas	15 Mar 2020	14 Apr 2020	49 (8)	16.33
US Virgin Islands	16 Mar 2020	30 Mar 2020	30	
Sint Maarten	17 Mar 2020	14 Apr 2020	52 (9)	17.31
Montserrat	17 Mar 2020	13 Apr 2020	11	
Barbados	17 Mar 2020	14 Apr 2020	72 (4)	5.56
El Salvador	18 Mar 2020	14 Apr 2020	149 (6)	4.03
Nicaragua	18 Mar 2020	12 Apr 2020	9 (1)	11.11
Bermuda	18 Mar 2020	14 Apr 2020	57 (5)	8.77
Haiti	19 Mar 2020	14 Apr 2020	40 (3)	7.50
Dominica	22 Mar 2020	11 Apr 2020	16	
Grenada	22 Mar 2020	11 Apr 2020	14	
Belize	23 Mar 2020	14 Apr 2020	18 (2)	11.11
Turks and Caicos Islands	23 Mar 2020	14 Apr 2020	10 (1)	10.00
Saint Kitts and Nevis	24 Mar 2020	11 Apr 2020	12	

	British Virgin Islands	25 Mar 2020	31 Mar 2020	3	
	Anguilla	26 Mar 2020	03 Apr 2020	3	
	Caribbean Netherlands	01 Apr 2020	12 Apr 2020	3	
	Falkland Islands	03 Apr 2020	09 Apr 2020	5	
	Saint Pierre and Miquelon	05 Apr 2020	05 Apr 2020	1	
EUROPE	France	24 Jan 2020	14 Apr 2020	143,303 (15,729)	10.98
	Germany	27 Jan 2020	14 Apr 2020	130,383 (3,215)**	2.47
	Finland	29 Jan 2020	14 Apr 2020	3,161 (64)	2.02
	Italy	30 Jan 2020	13 Apr 2020	159,516 (20,465)	12.83
	Russian Federation	31 Jan 2020	14 Apr 2020	21,102 (170)	0.81
	Spain	31 Jan 2020	14 Apr 2020	172,541 (18,056)	10.46
	Sweden	31 Jan 2020	14 Apr 2020	11,445 (1,033)	9.03
	United Kingdom of Great Britain	31 Jan 2020	13 Apr 2020	93,873 (12,107)	12.90
	Belgium	05 Feb 2020	14 Apr 2020	31,119 (4,157)	13.36
	Switzerland	25 Feb 2020	14 Apr 2020	25,913 (1,162)	4.48
	Austria	25 Feb 2020	14 Apr 2020	14,135 (384)	2.72
	Croatia	25 Feb 2020	14 Apr 2020	1,704 (31)	1.82
	Norway	26 Feb 2020	14 Apr 2020	6,623 (139)	2.10
	Romania	26 Feb 2020	14 Apr 2020	6,879 (351)	5.10
	Estonia	26 Feb 2020	14 Apr 2020	1,373 (31)	2.26
	Georgia	26 Feb 2020	14 Apr 2020	296 (3)	1.01
	North Macedonia	26 Feb 2020	14 Apr 2020	908 (44)	4.85
	Greece	26 Feb 2020	14 Apr 2020	2,145 (99)	4.62
	Denmark	27 Feb 2020	14 Apr 2020	6,496 (299)	4.60
	San Marino	27 Feb 2020	14 Apr 2020	371 (36)	9.70
	Lithuania	27 Feb 2020	14 Apr 2020	1,070 (26)	2.43
	Netherlands	27 Feb 2020	14 Apr 2020	27,419 (2,945)	10.74
	Azerbaijan	27 Feb 2020	14 Apr 2020	1,148 (12)	1.05
	Belarus	28 Feb 2020	14 Apr 2020	3,281 (33)	1.01
	Iceland	28 Feb 2020	14 Apr 2020	1,711 (8)	0.47
	Ireland	28 Feb 2020	14 Apr 2020	10,647 (365)	3.43
	Monaco	29 Feb 2020	13 Apr 2020	93 (1)	1.08
	Czech Republic	01 Mar 2020	14 Apr 2020	6,059 (147)	2.43
	Luxembourg	01 Mar 2020	13 Apr 2020	3,292 (69)	2.10
	Armenia	01 Mar 2020	14 Apr 2020	1,067 (16)	1.50
	Latvia	02 Mar 2020	14 Apr 2020	657 (5)	0.76
	Portugal	02 Mar 2020	14 Apr 2020	17,448 (567)	3.25
	Andorra	02 Mar 2020	13 Apr 2020	638 (29)	4.55
Liechtenstein	03 Mar 2020	11 Apr 2020	79 (1)	1.27	
Ukraine	03 Mar 2020	14 Apr 2020	3,372 (98)	2.91	
Slovenia	04 Mar 2020	14 Apr 2020	1,220 (56)	4.59	
Hungary	04 Mar 2020	14 Apr 2020	1,512 (122)	8.07	

	Poland	04 Mar 2020	14 Apr 2020	7,202 (263)	3.65
	Faroe Islands	04 Mar 2020	07 Apr 2020	184	
	Bosnia and Herzegovina	05 Mar 2020	14 Apr 2020	1,083 (40)	3.69
	Gibraltar	05 Mar 2020	12 Apr 2020	129	
	Slovakia	06 Mar 2020	14 Apr 2020	835 (2)	0.24
	Serbia	06 Mar 2020	14 Apr 2020	4,465 (94)	2.11
	Vatican City	06 Mar 2020	09 Apr 2020	8	
	Malta	07 Mar 2020	14 Apr 2020	393 (3)	0.76
	Moldova	07 Mar 2020	14 Apr 2020	1,934 (38)	1.96
	Bulgaria	08 Mar 2020	14 Apr 2020	695 (35)	5.04
	Albania	09 Mar 2020	14 Apr 2020	475 (24)	5.05
	Cyprus	09 Mar 2020	13 Apr 2020	662 (12)	1.81
	Channel Islands	09 Mar 2020	14 Apr 2020	436 (9)	2.06
	Jersey	10 Mar 2020	05 Apr 2020	126 (3)	2.38
	Kazakhstan	13 Mar 2020	14 Apr 2020	1,202 (14)	1.16
	Kosovo	13 Mar 2020	14 Apr 2020	377 (8)	2.12
	Uzbekistan	15 Mar 2020	14 Apr 2020	1,113 (4)	0.36
	Greenland	16 Mar 2020	05 Apr 2020	11	
	Montenegro	17 Mar 2020	14 Apr 2020	283 (4)	1.41
	Kyrgyzstan	18 Mar 2020	14 Apr 2020	430 (5)	1.16
	Isle of Man	19 Mar 2020	14 Apr 2020	242 (2)	0.83
MIDDLE EAST	UAE	29 Jan 2020	14 Apr 2020	4,521 (25)	0.55
	Iran	19 Feb 2020	14 Apr 2020	74,877 (4,683)	6.25
	Israel	21 Feb 2020	14 Apr 2020	11,868 (117)	0.99
	Lebanon	21 Feb 2020	14 Apr 2020	641 (21)	3.28
	Kuwait	24 Feb 2020	14 Apr 2020	1,355 (3)	0.22
	Oman	24 Feb 2020	14 Apr 2020	813 (4)	0.49
	Bahrain	24 Feb 2020	14 Apr 2020	1,522 (7)	0.46
	Iraq	24 Feb 2020	14 Apr 2020	1,378 (78)	5.66
	Qatar	29 Feb 2020	14 Apr 2020	3,428 (7)	0.20
	Saudi Arabia	02 Mar 2020	14 Apr 2020	5,369 (73)	1.36
	Jordan	02 Mar 2020	14 Apr 2020	391 (7)	1.79
	Palestine	05 Mar 2020	14 Apr 2020	308 (2)	0.65
	Syria	22 Mar 2020	12 Apr 2020	25 (2)	8.00
	Yemen	10 Apr 2020	10 Apr 2020	1	
AFRICA	Egypt	14 Feb 2020	14 Apr 2020	2,190 (164)	7.49
	Algeria	25 Feb 2020	14 Apr 2020	1,983 (313)	15.78
	Nigeria	28 Feb 2020	14 Apr 2020	343 (10)	2.92
	Tunisia	02 Mar 2020	14 Apr 2020	726 (34)	4.68
	Morocco	02 Mar 2020	14 Apr 2020	1,888 (126)	6.67
	Senegal	02 Mar 2020	14 Apr 2020	299 (2)	0.67
	South Africa	05 Mar 2020	14 Apr 2020	2,415 (27)	1.12
	Cameroon	06 Mar 2020	14 Apr 2020	848 (12)	1.42
	Togo	06 Mar 2020	13 Apr 2020	77 (3)	3.90
	Burkina Faso	09 Mar 2020	14 Apr 2020	515 (27)	5.24
	Democratic Republic of Congo	10 Mar 2020	14 Apr 2020	241 (20)	8.30
	Ivory Coast	11 Mar 2020	14 Apr 2020	626 (6)	0.96
	Reunion	11 Mar 2020	14 Apr 2020	391	
	Ghana	13 Mar 2020	13 Apr 2020	566 (8)	1.41

Guinea	13 Mar 2020	14 Apr 2020	363	
Gabon	13 Mar 2020	13 Apr 2020	57 (1)	1.75
Sudan	13 Mar 2020	14 Apr 2020	29 (4)	13.79
Kenya	13 Mar 2020	13 Apr 2020	208 (9)	4.33
Ethiopia	13 Mar 2020	14 Apr 2020	82 (3)	
Central African Republic	14 Mar 2020	13 Apr 2020	11	
Seychelles	14 Mar 2020	06 Apr 2020	11	
Rwanda	14 Mar 2020	14 Apr 2020	127	
Namibia	14 Mar 2020	05 Apr 2020	16	
Swaziland	14 Mar 2020	14 Apr 2020	15	
Mauritania	14 Mar 2020	14 Apr 2020	7 (1)	14.29
Mayotte	14 Mar 2020	14 Apr 2020	217 (3)	1.38
Equatorial Guinea	15 Mar 2020	12 Apr 2020	21	
Republic of Congo	15 Mar 2020	09 Apr 2020	60 (5)	8.33
Benin	16 Mar 2020	11 Apr 2020	35 (1)	2.86
Liberia	16 Mar 2020	13 Apr 2020	59 (6)	10.17
Tanzania	16 Mar 2020	14 Apr 2020	49 (3)	6.12
Somalia	16 Mar 2020	14 Apr 2020	60 (2)	3.33
Gambia	17 Mar 2020	12 Apr 2020	9 (1)	11.11
Zambia	17 Mar 2020	13 Apr 2020	45 (2)	4.44
Mauritius	18 Mar 2020	12 Apr 2020	324 (9)	2.78
Djibouti	18 Mar 2020	14 Apr 2020	363 (2)	0.55
Niger	19 Mar 2020	14 Apr 2020	548 (13)	2.37
Chad	19 Mar 2020	14 Apr 2020	23	
Zimbabwe	20 Mar 2020	14 Apr 2020	17 (3)	17.65
Cape Verde	20 Mar 2020	13 Apr 2020	10 (1)	10.00
Madagascar	20 Mar 2020	14 Apr 2020	108	
Uganda	21 Mar 2020	13 Apr 2020	54	
Eritrea	21 Mar 2020	11 Apr 2020	34	
Angola	21 Mar 2020	09 Apr 2020	19 (2)	10.53
Mozambique	22 Mar 2020	14 Apr 2020	28	
Libya	24 Mar 2020	14 Apr 2020	26 (1)	3.85
Guinea-Bissau	25 Mar 2020	11 Apr 2020	38	
Mali	25 Mar 2020	14 Apr 2020	144 (13)	9.03
Botswana	30 Mar 2020	09 Apr 2020	13 (1)	7.69
Sierra Leone	31 Mar 2020	14 Apr 2020	11	
Burundi	31 Mar 2020	03 Apr 2020	3	
Malawi	02 Apr 2020	13 Apr 2020	16 (2)	12.50
South Sudan	05 Apr 2020	10 Apr 2020	4	
Sao Tome and Principe	06 Apr 2020	06 Apr 2020	4	
			1,880,900	
			(120,684)	

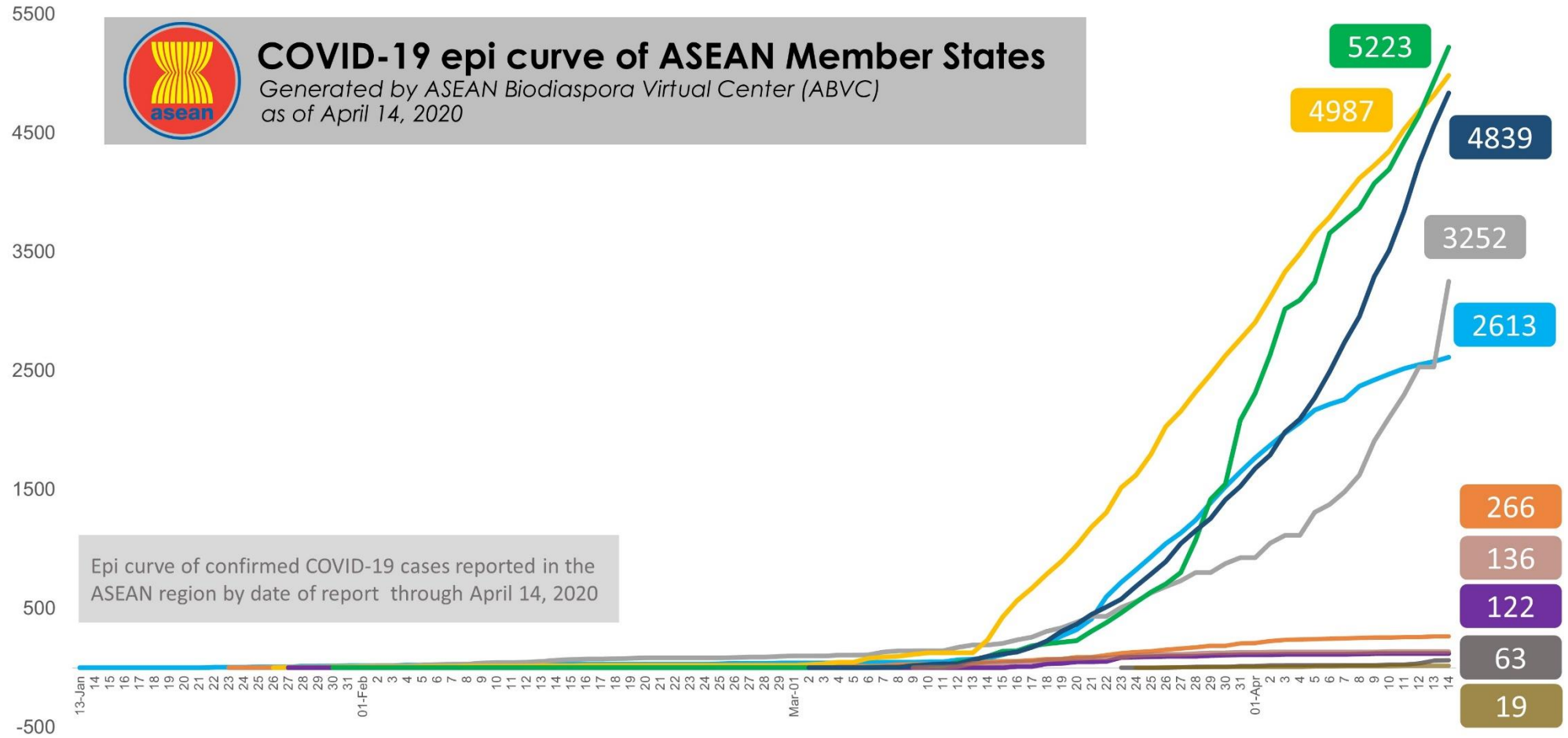
*The calculated CFR is based on reported deaths and reported case counts, and does not account for recovered cases over time or rate of testing in a particular region.

** Corrected and updated from last report



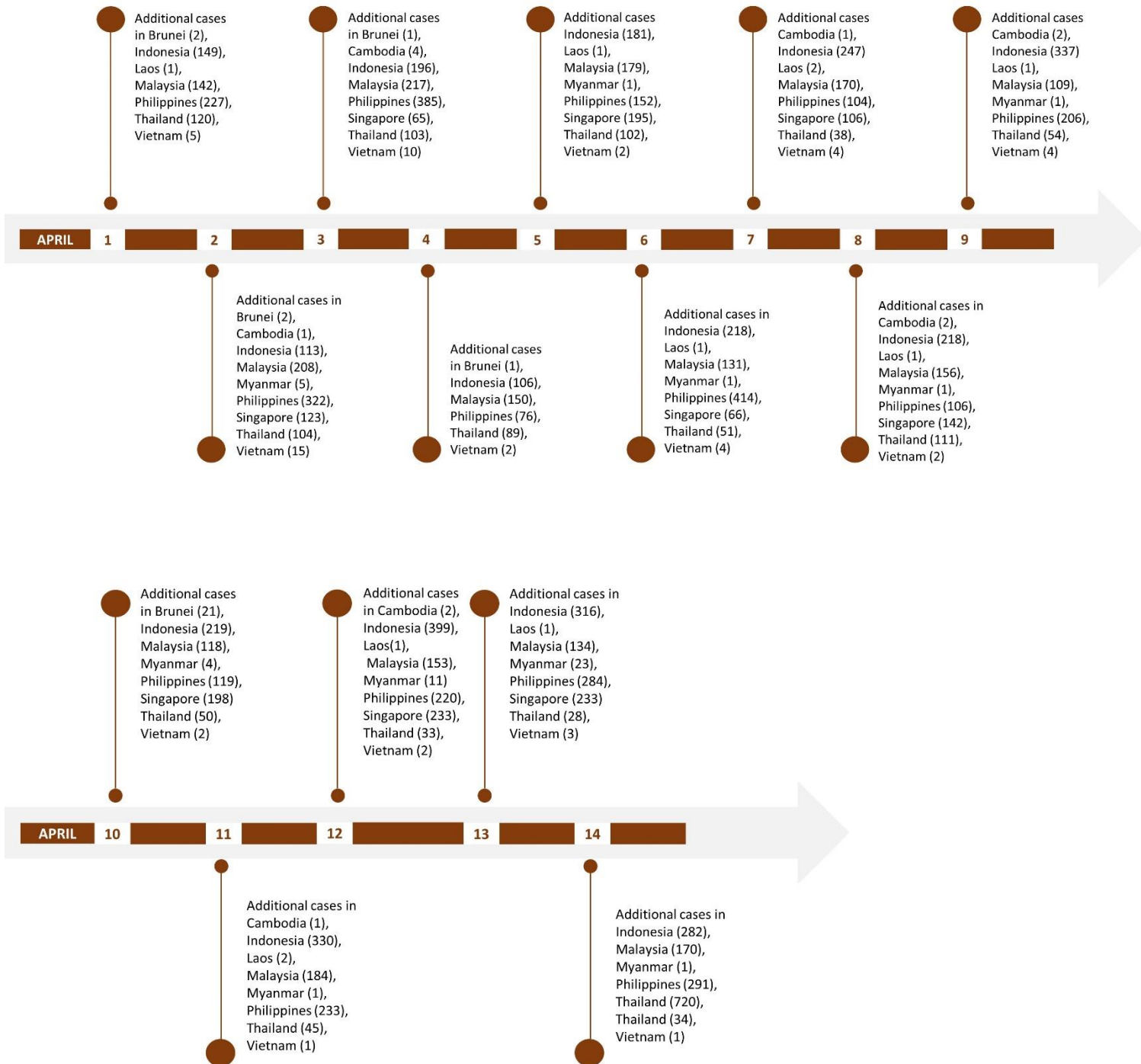
COVID-19 epi curve of ASEAN Member States

Generated by ASEAN Biodiaspora Virtual Center (ABVC)
as of April 14, 2020



- Thailand
- Singapore
- Vietnam
- Malaysia
- Cambodia
- Philippines
- Indonesia
- Brunei
- Myanmar
- Lao PDR

Timeline of COVID-19: ASEAN



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 11:00AM EST on April 14. 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

Note: on April 9, the categorization scheme changed. Those countries that would have formerly been in category E (formerly purple) will now be included in category A (light blue). The IDVI value is now represented by hatched lines on the map. Category E (grey) now represents countries where insufficient information is available on COVID-19 transmission.

- A** **Countries reporting <100 cases and a slowly increasing rate of COVID-19 transmission**
 - These countries have reported <100 cases of COVID-19, a CFR $\leq 4\%$, 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.
- B** **Countries reporting a steadily increasing OR stabilizing 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.
- C** **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.
- D** **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.
- E** **Countries where insufficient information is available on COVID-19 transmission**
 - These countries have not reported imported or local cases of COVID-19

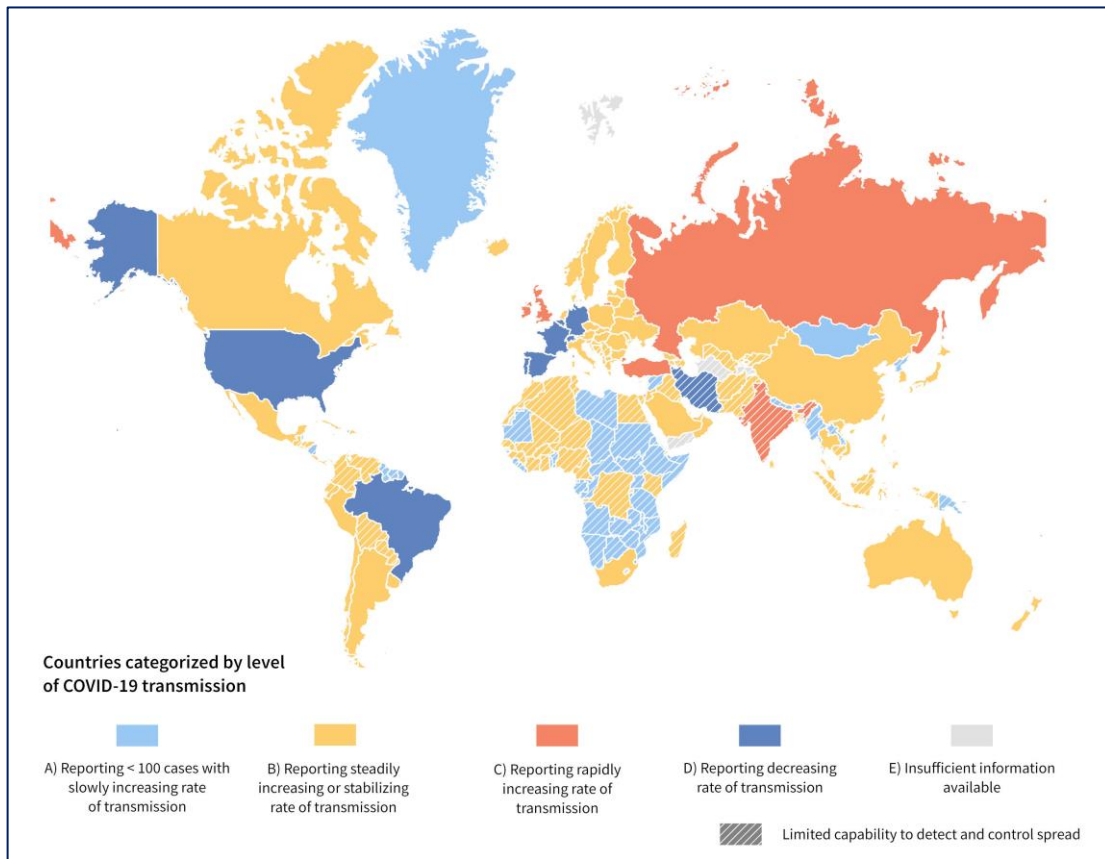


Figure 1. Map depicting countries by the corresponding COVID-19 transmission category

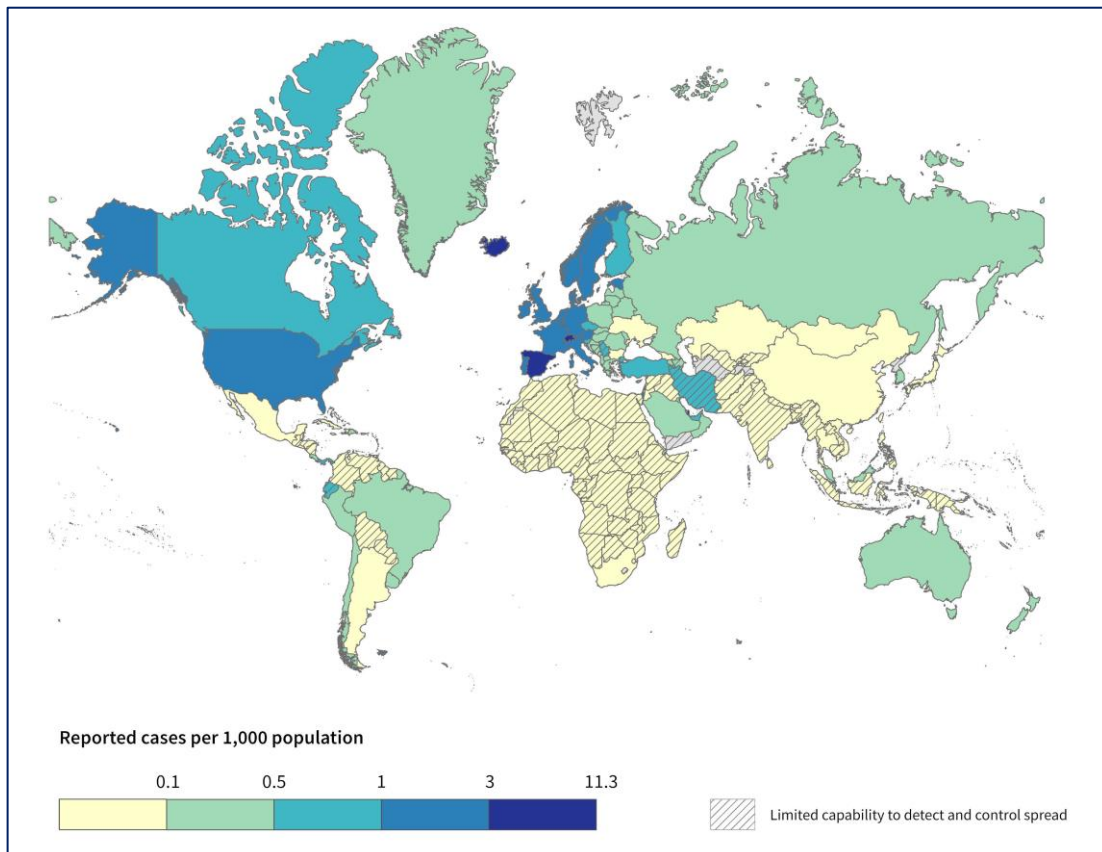


Figure 2. Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This include active cases, resolved cases, and fatalities

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

Country	COVID-19 Category As of April 3, 2020 ¹	COVID-19 Category As of April 7 ²	COVID-19 Category As of April 9 ^{2,3}	COVID-19 Category As of April 14 ^{2,3}	IDVI Score	Doubling Time (days) ⁴	Confirmed COVID-19 cases per 1,000 Population
Brunei	B	B	B	B	0.763	25	0.344
Cambodia	B	B	B	B	0.355	21	0.008
Indonesia	B	B	B	B	0.563	9	0.020
Laos	E	E	A	A	0.355	13	0.003
Malaysia	B	B	B	B	0.761	14	0.170
Myanmar	E	E	A	A	0.448	2	0.001
Philippines	D	B	B	B	0.545	12	0.049
Singapore	B	B	B	B	0.878	10	0.714
Thailand	B	B	B	B	0.711	17	0.039
Vietnam	B	B	B	B	0.626	22	0.003

*refer to additional file for country categorization globally

1 Categorization determined based on the 3-day rate-of-change in new case reports.

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

3 On April 9, the categorization scheme changed. Those countries that would have formerly been in category E (formerly purple) will now be included in category A (light blue). The IDVI value is now represented by hatched lines on the map. Category E (grey) now represents countries where insufficient information is available on COVID-19 transmission.

4 Doubling time is calculated retrospectively based on cumulative case reports as of April 14, 2020 at 11:00AM EST.



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