

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

ASEAN Biodiaspora Virtual Center (ABVC)

as of April 27, 2020 (2:00 PM GMT+8)



## COVID-19: Highlights and Situation Overview

- World Health Organization (WHO), together with heads of state, global health leaders, private sector partners and other stakeholders launched the Access To COVID-19 Tools (ACT) Accelerator, a global collaboration to accelerate the development, production and equitable access to new COVID-19 diagnostics, therapeutics and vaccines.
- The provincial health Commission stated that no new confirmed cases of COVID-19 disease were reported in central China's Hubei Province as of April 27.
- Cambodia reports no new COVID-19 case/s since April 12.
- Laos reports no new COVID-19 case/s since April 12.
- Brunei reports no new COVID-19 case/s since April 19.
- On April 26, Thailand's Ramathibodi Hospital has learned tests on suspected persons' saliva for the COVID-19 is as precise as tests using secretions from the nose or throat. According to Department of Disease Control, the new system of saliva test is being developed at the Bamrasnaradura Infectious Diseases Institute. The Public Health Ministry will use saliva tests for asymptomatic persons in slums and at border checkpoints. However, patients under investigation (PUI) will still have to undergo more detailed tests.
- On April 26, the Indonesian government's COVID-19 Task Force received shipment of laboratory supplies and equipment from China on Saturday to help achieve a minimum testing number of 10,000 per day. These include viral ribonucleic acid (RNA) isolation kit, multiplex reverse transcription polymerase chain reaction (RT-PCR) machine and viral transport medium kit. These were immediately distributed to hardest-hit provinces including Jakarta, West Java, Central Java and East Java.
- Vietnam's locally made test kit for COVID-19 has been approved by the World Health Organization (WHO) after enduring five rounds of testing and quality assessments. The quality of Vietnam's test kits have been evaluated to be on par with that of WHO kit and the US Center for Disease Control and Prevention (CDC), but they also offer other advantages including their specificity, stability, and adaptability with multiple types of testing equipment.

### Travel Advisories (new update/s)

- Myanmar: The Myanmar Department of Civil Aviation (DCA) has released an announcement on late April 24 notifying all international airlines that its March 29 temporary measures have been extended until 11:59pm of May 15. However, the measures will not affect relief flights, medical evacuation flights, all-cargo flights, and special flights which received approval from the DCA.
- Philippines: The Philippines' major airlines said on late of April 24 that domestic and international flights will remain suspended until mid-May following the extension of coronavirus lockdown measures in the capital and affected cities and provinces.
- Singapore: Singapore Airlines (SIA) announced on late Friday (Apr 24) that it has extended its flight cancellations to June 30 amid global travel restrictions due to COVID-19. Out of SIA Group's fleet of approximately 200 aircrafts, only about 10 were in operation to serve a limited passenger network. Under the reduced schedule, SIA will fly to just 15 cities, including London, Los Angeles and Seoul. All flights are subject to regulatory approvals, said the airline.

- Thailand: The inbound passenger flight restriction is now going to be extended another 15 days whilst more repatriation flights for Thai citizens will continue this week. The Civil Aviation Authority of Thailand (CAAT) says they will extend the ongoing ban, currently scheduled to end on April 30.

### Cases and Deaths as of 27 April 2020

- As of April 27 (2PM, GMT+8), worldwide, there were **2,974,587** confirmed cases, including **206,065** deaths. Globally, Case Fatality Ratio (CFR)\* is **6.93**.
- In **China**, there were **84,339** confirmed cases with **4,642** deaths, including deaths in Hong Kong (4) and Taiwan (6). Confirmed cases in China include confirmed cases in Hong Kong (1,038), Macau (45), and Taiwan (429).
- 2,890,248 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	26 Apr 2020	2,922 (51)	1.75
	Vietnam	23 Jan 2020	24 Apr 2020	270	
	Singapore	23 Jan 2020	26 Apr 2020	13,624 (12)	0.09
	Malaysia	25 Jan 2020	26 Apr 2020	5,780 (98)	1.70
	Cambodia	27 Jan 2020	12 Apr 2020	122	
	Philippines	30 Jan 2020	26 Apr 2020	7,579 (501)	6.61
	Indonesia	02 Mar 2020	26 Apr 2020	8,882 (743)	8.37
	Brunei	10 Mar 2020	24 Apr 2020	138 (1)	0.72
	Myanmar	23 Mar 2020	26 Apr 2020	146 (5)	3.42
	Lao PDR	24 Mar 2020	13 Apr 2020	19	
	Japan	16 Jan 2020	26 Apr 2020	13,943 (373)	2.68
	South Korea	20 Jan 2020	26 Apr 2020	10,728 (242)	2.26
	Nepal	24 Jan 2020	26 Apr 2020	52	
	Australia	25 Jan 2020	26 Apr 2020	6,711 (83)	1.24
	Sri Lanka	27 Jan 2020	26 Apr 2020	471 (7)	1.49
	India	30 Jan 2020	26 Apr 2020	26,917 (826)	3.07
	Afghanistan	24 Feb 2020	26 Apr 2020	1,531 (50)	3.27
	Pakistan	26 Feb 2020	26 Apr 2020	12,723 (269)	2.11
	New Zealand	28 Feb 2020	26 Apr 2020	1,470 (18)	1.22
	Bhutan	05 Mar 2020	23 Apr 2020	7	
	Maldives	07 Mar 2020	26 Apr 2020	191	
	Bangladesh	08 Mar 2020	26 Apr 2020	5,416 (145)	2.68
	Mongolia	10 Mar 2020	26 Apr 2020	38	
Turkey	10 Mar 2020	26 Apr 2020	107,773 (2,706)	2.51	
French Polynesia	12 Mar 2020	22 Apr 2020	57		
Guam	15 Mar 2020	25 Apr 2020	141 (5)	3.55	
New Caledonia	17 Mar 2020	02 Apr 2020	18		

	<b>Fiji</b>	18 Mar 2020	20 Apr 2020	18	
	<b>Papua New Guinea</b>	21 Mar 2020	22 Apr 2020	8	
	<b>Timor Leste</b>	21 Mar 2020	25 Apr 2020	24	
	<b>Northern Mariana Islands</b>	28 Mar 2020	17 Apr 2020	14 (2)	14.29
<b>AMERICAS</b>	<b>USA</b>	21 Jan 2020	26 Apr 2020	983,298 (55,333)	5.63
	<b>Canada</b>	25 Jan 2020	26 Apr 2020	46,648 (2,636)	5.65
	<b>Brazil</b>	26 Feb 2020	26 Apr 2020	59,324 (4,057)	6.84
	<b>Mexico</b>	28 Feb 2020	26 Apr 2020	13,842 (1,305)	9.43
	<b>Saint Martin</b>	01 Mar 2020	23 Apr 2020	38 (2)	5.26
	<b>Ecuador</b>	01 Mar 2020	24 Apr 2020	22,719 (576)	2.54
	<b>Dominican Republic</b>	01 Mar 2020	25 Apr 2020	5,926 (273)	4.61
	<b>Chile</b>	03 Mar 2020	26 Apr 2020	13,331 (189)	1.42
	<b>Argentina</b>	03 Mar 2020	26 Apr 2020	3,780 (185)	4.89
	<b>Peru</b>	05 Mar 2020	26 Apr 2020	25,331 (700)	2.76
	<b>Costa Rica</b>	06 Mar 2020	26 Apr 2020	693 (6)	0.87
	<b>Colombia</b>	06 Mar 2020	26 Apr 2020	5,142 (233)	4.53
	<b>French Guiana</b>	06 Mar 2020	25 Apr 2020	111 (1)	0.90
	<b>Martinique</b>	06 Mar 2020	26 Apr 2020	175 (14)	8.00
	<b>Paraguay</b>	07 Mar 2020	26 Apr 2020	228 (9)	3.95
	<b>Panama</b>	10 Mar 2020	26 Apr 2020	5,538 (159)	2.87
	<b>Bolivia</b>	10 Mar 2020	26 Apr 2020	866 (47)	5.43
	<b>Honduras</b>	11 Mar 2020	26 Apr 2020	627 (59)	9.41
	<b>Cuba</b>	11 Mar 2020	25 Apr 2020	1,337 (51)	3.81
	<b>Guyana</b>	11 Mar 2020	26 Apr 2020	74 (8)	10.81
	<b>Jamaica</b>	12 Mar 2020	26 Apr 2020	307 (7)	2.28
	<b>St Vincent and the Grenadines</b>	12 Mar 2020	24 Apr 2020	14	
	<b>Saint Lucia</b>	13 Mar 2020	11 Apr 2020	15	
	<b>Trinidad and Tobago</b>	13 Mar 2020	22 Apr 2020	115 (8)	6.96
	<b>Venezuela</b>	13 Mar 2020	26 Apr 2020	323 (10)	3.10
	<b>Guatemala</b>	13 Mar 2020	26 Apr 2020	473 (11)	2.33
	<b>Uruguay</b>	13 Mar 2020	26 Apr 2020	596 (14)	2.35
	<b>Curacao</b>	13 Mar 2020	25 Apr 2020	16 (1)	6.25
	<b>Puerto Rico</b>	13 Mar 2020	26 Apr 2020	1,307 (52)**	3.98
	<b>Suriname</b>	13 Mar 2020	08 Apr 2020	10 (1)	10.00
	<b>Antigua and Barbuda</b>	13 Mar 2020	22 Apr 2020	24 (3)	12.50
	<b>Guadeloupe</b>	13 Mar 2020	24 Apr 2020	149 (12)	8.05
	<b>Cayman Islands</b>	13 Mar 2020	25 Apr 2020	70 (1)	1.43
	<b>Aruba</b>	14 Mar 2020	23 Apr 2020	100 (2)	2.00
	<b>Bahamas</b>	15 Mar 2020	26 Apr 2020	78 (11)	14.10
	<b>US Virgin Islands</b>	16 Mar 2020	23 Apr 2020	54 (3)	5.56
	<b>Sint Maarten</b>	17 Mar 2020	23 Apr 2020	73 (12)	16.44
	<b>Montserrat</b>	17 Mar 2020	25 Apr 2020	11 (1)	9.09
	<b>Barbados</b>	17 Mar 2020	26 Apr 2020	79 (6)	7.59

<b>El Salvador</b>	18 Mar 2020	26 Apr 2020	298 (8)	2.68
<b>Nicaragua</b>	18 Mar 2020	24 Apr 2020	11 (3)	27.27
<b>Bermuda</b>	18 Mar 2020	26 Apr 2020	109 (5)	4.59
<b>Haiti</b>	19 Mar 2020	25 Apr 2020	72 (6)	8.33
<b>Dominica</b>	22 Mar 2020	11 Apr 2020	16	
<b>Grenada</b>	22 Mar 2020	26 Apr 2020	18	
<b>Belize</b>	23 Mar 2020	14 Apr 2020	18 (2)	11.11
<b>Turks and Caicos Islands</b>	23 Mar 2020	17 Apr 2020	11 (1)	9.09
<b>Saint Kitts and Nevis</b>	24 Mar 2020	20 Apr 2020	15	
<b>British Virgin Islands</b>	25 Mar 2020	26 Apr 2020	6 (1)	16.67
<b>Anguilla</b>	26 Mar 2020	03 Apr 2020	3	
<b>Caribbean Netherlands</b>	01 Apr 2020	19 Apr 2020	5	
<b>Falkland Islands</b>	03 Apr 2020	24 Apr 2020	13	
<b>Saint Pierre and Miquelon</b>	05 Apr 2020	05 Apr 2020	1	
<b>EUROPE</b>				
<b>France</b>	24 Jan 2020	26 Apr 2020	162,100 (22,856)	14.10
<b>Germany</b>	27 Jan 2020	26 Apr 2020	156,727 (5,880)	3.75
<b>Finland</b>	29 Jan 2020	26 Apr 2020	4,576 (190)	4.15
<b>Italy</b>	30 Jan 2020	26 Apr 2020	197,675 (26,644)	13.48
<b>Russian Federation</b>	31 Jan 2020	26 Apr 2020	80,949 (747)	0.92
<b>Spain</b>	31 Jan 2020	25 Apr 2020	223,759 (22,902)	10.24
<b>Sweden</b>	31 Jan 2020	26 Apr 2020	18,177 (2,192)	12.06
<b>United Kingdom of Great Britain</b>	31 Jan 2020	26 Apr 2020	152,840 (20,732)	13.56
<b>Belgium</b>	05 Feb 2020	26 Apr 2020	46,134 (7,094)	15.38
<b>Switzerland</b>	25 Feb 2020	25 Apr 2020	28,894 (1,593)	5.51
<b>Austria</b>	25 Feb 2020	26 Apr 2020	15,225 (542)	3.56
<b>Croatia</b>	25 Feb 2020	26 Apr 2020	2,030 (55)	2.71
<b>Norway</b>	26 Feb 2020	26 Apr 2020	7,499 (201)	2.68
<b>Romania</b>	26 Feb 2020	26 Apr 2020	11,036 (608)	5.51
<b>Estonia</b>	26 Feb 2020	26 Apr 2020	1,643 (49)	2.98
<b>Georgia</b>	26 Feb 2020	26 Apr 2020	485 (6)	1.24
<b>North Macedonia</b>	26 Feb 2020	26 Apr 2020	1,386 (61)	4.40
<b>Greece</b>	26 Feb 2020	26 Apr 2020	2,517 (134)	5.32
<b>Denmark</b>	27 Feb 2020	26 Apr 2020	8,757 (422)	4.82
<b>San Marino</b>	27 Feb 2020	26 Apr 2020	538 (41)	7.62
<b>Lithuania</b>	27 Feb 2020	26 Apr 2020	1,438 (41)	2.85
<b>Netherlands</b>	27 Feb 2020	26 Apr 2020	37,845 (4,475)	11.82
<b>Azerbaijan</b>	27 Feb 2020	26 Apr 2020	1,645 (21)	1.28
<b>Belarus</b>	28 Feb 2020	26 Apr 2020	10,463 (72)	0.69
<b>Iceland</b>	28 Feb 2020	26 Apr 2020	1,792 (10)	0.56
<b>Ireland</b>	28 Feb 2020	26 Apr 2020	18,561 (1,063)	5.73
<b>Monaco</b>	29 Feb 2020	24 Apr 2020	94 (4)	4.26

	<b>Czech Republic</b>	01 Mar 2020	26 Apr 2020	7,352 (219)	2.98
	<b>Luxembourg</b>	01 Mar 2020	26 Apr 2020	3,723 (88)	2.36
	<b>Armenia</b>	01 Mar 2020	26 Apr 2020	1,746 (28)	1.60
	<b>Latvia</b>	02 Mar 2020	26 Apr 2020	812 (12)	1.48
	<b>Portugal</b>	02 Mar 2020	26 Apr 2020	23,864 (903)	3.78
	<b>Andorra</b>	02 Mar 2020	26 Apr 2020	738 (40)	5.42
	<b>Liechtenstein</b>	03 Mar 2020	21 Apr 2020	81 (1)	1.23
	<b>Ukraine</b>	03 Mar 2020	26 Apr 2020	8,617 (209)	2.43
	<b>Slovenia</b>	04 Mar 2020	26 Apr 2020	1,396 (82)	5.87
	<b>Hungary</b>	04 Mar 2020	26 Apr 2020	2,500 (272)	10.88
	<b>Poland</b>	04 Mar 2020	26 Apr 2020	11,395 (526)	4.62
	<b>Faroe Islands</b>	04 Mar 2020	23 Apr 2020	187	
	<b>Bosnia and Herzegovina</b>	05 Mar 2020	26 Apr 2020	1,516 (59)	3.89
	<b>Gibraltar</b>	05 Mar 2020	26 Apr 2020	136	
	<b>Slovakia</b>	06 Mar 2020	26 Apr 2020	1,379 (17)	1.23
	<b>Serbia</b>	06 Mar 2020	26 Apr 2020	8,042 (156)	1.94
	<b>Vatican City</b>	06 Mar 2020	10 Apr 2020	9	
	<b>Malta</b>	07 Mar 2020	26 Apr 2020	448 (4)	0.89
	<b>Moldova</b>	07 Mar 2020	26 Apr 2020	3,408 (94)	2.76
	<b>Bulgaria</b>	08 Mar 2020	26 Apr 2020	1,290 (55)	4.26
	<b>Albania</b>	09 Mar 2020	26 Apr 2020	726 (28)	3.86
	<b>Cyprus</b>	09 Mar 2020	26 Apr 2020	810 (14)	1.73
	<b>Channel Islands</b>	09 Mar 2020	26 Apr 2020	525 (35)	6.67
	<b>Jersey</b>	10 Mar 2020	05 Apr 2020	126 (3)	2.38
	<b>Kazakhstan</b>	13 Mar 2020	25 Apr 2020	2,693 (25)	0.93
	<b>Kosovo</b>	13 Mar 2020	26 Apr 2020	731 (21)	2.87
	<b>Uzbekistan</b>	15 Mar 2020	26 Apr 2020	1,865 (8)	0.43
	<b>Greenland</b>	16 Mar 2020	05 Apr 2020	11	
	<b>Montenegro</b>	17 Mar 2020	26 Apr 2020	321 (7)	2.18
	<b>Kyrgyzstan</b>	18 Mar 2020	26 Apr 2020	682 (8)	1.17
	<b>Isle of Man</b>	19 Mar 2020	25 Apr 2020	308 (18)	5.84
<b>MIDDLE EAST</b>	<b>UAE</b>	29 Jan 2020	26 Apr 2020	10,349 (76)	0.73
	<b>Iran</b>	19 Feb 2020	26 Apr 2020	90,481 (5,710)	6.31
	<b>Israel</b>	21 Feb 2020	26 Apr 2020	15,398 (199)	1.29
	<b>Lebanon</b>	21 Feb 2020	26 Apr 2020	707 (24)	3.39
	<b>Kuwait</b>	24 Feb 2020	26 Apr 2020	3,075 (20)	0.65
	<b>Oman</b>	24 Feb 2020	26 Apr 2020	1,998 (10)	0.50
	<b>Bahrain</b>	24 Feb 2020	26 Apr 2020	2,588 (8)	0.31
	<b>Iraq</b>	24 Feb 2020	26 Apr 2020	1,763 (86)	4.88
	<b>Qatar</b>	29 Feb 2020	26 Apr 2020	10,287 (10)	0.10
	<b>Saudi Arabia</b>	02 Mar 2020	26 Apr 2020	17,522 (139)	0.79
	<b>Jordan</b>	02 Mar 2020	25 Apr 2020	120 (11)	9.17
	<b>Palestine</b>	05 Mar 2020	26 Apr 2020	495 (2)	0.40
	<b>Syria</b>	22 Mar 2020	22 Apr 2020	42 (3)	7.14
	<b>Yemen</b>	10 Apr 2020	10 Apr 2020	1	0.00
<b>AFRICA</b>	<b>Egypt</b>	14 Feb 2020	26 Apr 2020	4,534 (317)	6.99
	<b>Algeria</b>	25 Feb 2020	26 Apr 2020	3,385 (425)	12.56
	<b>Nigeria</b>	28 Feb 2020	26 Apr 2020	1,182 (35)	2.96

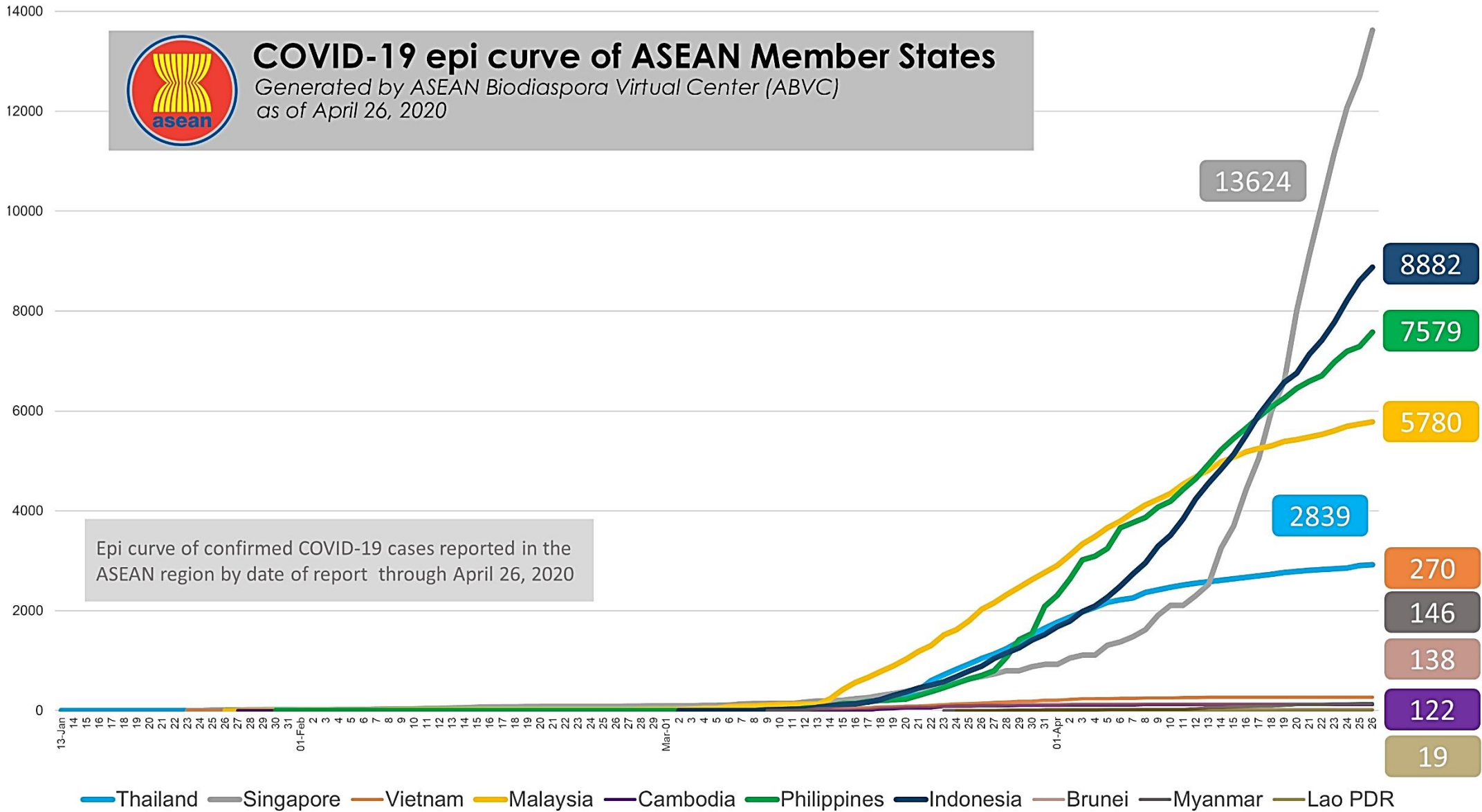
<b>Tunisia</b>	02 Mar 2020	26 Apr 2020	939 (38)	4.05
<b>Morocco</b>	02 Mar 2020	26 Apr 2020	4,047 (160)	3.95
<b>Senegal</b>	02 Mar 2020	26 Apr 2020	671 (8)	1.19
<b>South Africa</b>	05 Mar 2020	26 Apr 2020	4,361 (86)	1.97
<b>Cameroon</b>	06 Mar 2020	26 Apr 2020	1,518 (53)	3.49
<b>Togo</b>	06 Mar 2020	26 Apr 2020	96 (6)	6.25
<b>Burkina Faso</b>	09 Mar 2020	25 Apr 2020	629 (41)	6.52
<b>Democratic Republic of Congo</b>	10 Mar 2020	26 Apr 2020	442 (28)	6.33
<b>Ivory Coast</b>	11 Mar 2020	26 Apr 2020	1,111 (14)	1.26
<b>Reunion</b>	11 Mar 2020	26 Apr 2020	417	
<b>Ghana</b>	13 Mar 2020	26 Apr 2020	1,550 (11)	0.71
<b>Guinea</b>	13 Mar 2020	26 Apr 2020	996 (7)	0.70
<b>Gabon</b>	13 Mar 2020	26 Apr 2020	176 (3)	1.70
<b>Sudan</b>	13 Mar 2020	26 Apr 2020	213 (17)	7.98
<b>Kenya</b>	13 Mar 2020	26 Apr 2020	355 (15)	4.23
<b>Ethiopia</b>	13 Mar 2020	26 Apr 2020	123 (3)	2.44
<b>Central African Republic</b>	14 Mar 2020	26 Apr 2020	19	
<b>Seychelles</b>	14 Mar 2020	06 Apr 2020	11	
<b>Rwanda</b>	14 Mar 2020	26 Apr 2020	183	
<b>Namibia</b>	14 Mar 2020	05 Apr 2020	16	
<b>Swaziland</b>	14 Mar 2020	26 Apr 2020	56 (1)	1.79
<b>Mauritania</b>	14 Mar 2020	14 Apr 2020	7 (1)	14.29
<b>Mayotte</b>	14 Mar 2020	25 Apr 2020	401 (4)	1.00
<b>Equatorial Guinea</b>	15 Mar 2020	26 Apr 2020	258 (1)	0.39
<b>Republic of Congo</b>	15 Mar 2020	26 Apr 2020	200 (6)	3.00
<b>Benin</b>	16 Mar 2020	20 Apr 2020	54 (1)	1.85
<b>Liberia</b>	16 Mar 2020	25 Apr 2020	120 (11)	9.17
<b>Tanzania</b>	16 Mar 2020	25 Apr 2020	299 (10)	3.34
<b>Somalia</b>	16 Mar 2020	26 Apr 2020	390 (18)	4.62
<b>Gambia</b>	17 Mar 2020	20 Apr 2020	10 (1)	10.00
<b>Zambia</b>	17 Mar 2020	25 Apr 2020	84 (3)	3.57
<b>Mauritius</b>	18 Mar 2020	24 Apr 2020	331 (9)	2.72
<b>Djibouti</b>	18 Mar 2020	25 Apr 2020	1,008 (2)	0.20
<b>Niger</b>	19 Mar 2020	26 Apr 2020	684 (27)	3.95
<b>Chad</b>	19 Mar 2020	26 Apr 2020	46	0.00
<b>Zimbabwe</b>	20 Mar 2020	26 Apr 2020	31 (4)	12.90
<b>Cape Verde</b>	20 Mar 2020	26 Apr 2020	90 (1)	1.11
<b>Madagascar</b>	20 Mar 2020	26 Apr 2020	124	
<b>Uganda</b>	21 Mar 2020	25 Apr 2020	75	
<b>Eritrea</b>	21 Mar 2020	19 Apr 2020	39	
<b>Angola</b>	21 Mar 2020	23 Apr 2020	25 (2)	8.00
<b>Mozambique</b>	22 Mar 2020	26 Apr 2020	70	
<b>Libya</b>	24 Mar 2020	25 Apr 2020	61 (2)	3.28
<b>Guinea-Bissau</b>	25 Mar 2020	25 Apr 2020	52	0.00
<b>Mali</b>	25 Mar 2020	26 Apr 2020	370 (21)	5.68
<b>Botswana</b>	30 Mar 2020	23 Apr 2020	22 (1)	4.55
<b>Sierra Leone</b>	31 Mar 2020	26 Apr 2020	93	
<b>Burundi</b>	31 Mar 2020	22 Apr 2020	11 (1)	9.09
<b>Malawi</b>	02 Apr 2020	26 Apr 2020	34 (3)	8.82
<b>South Sudan</b>	05 Apr 2020	26 Apr 2020	6	
<b>Sao Tome and Principe</b>	06 Apr 2020	06 Apr 2020	4	
			<b>2,890,248 (210,423)</b>	

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.



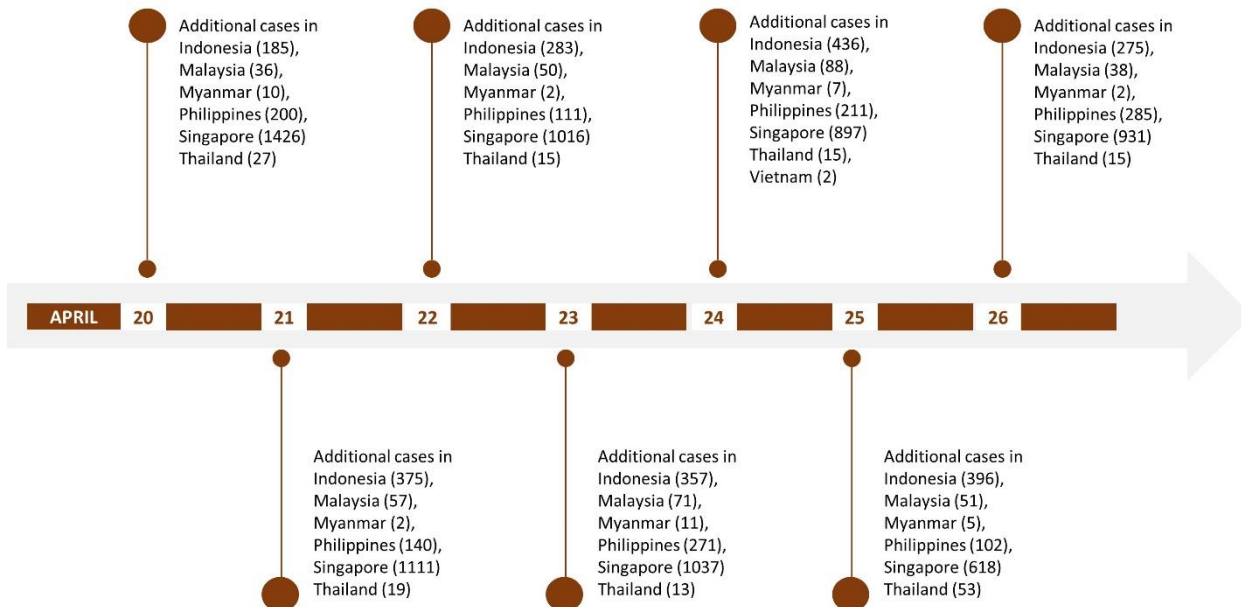
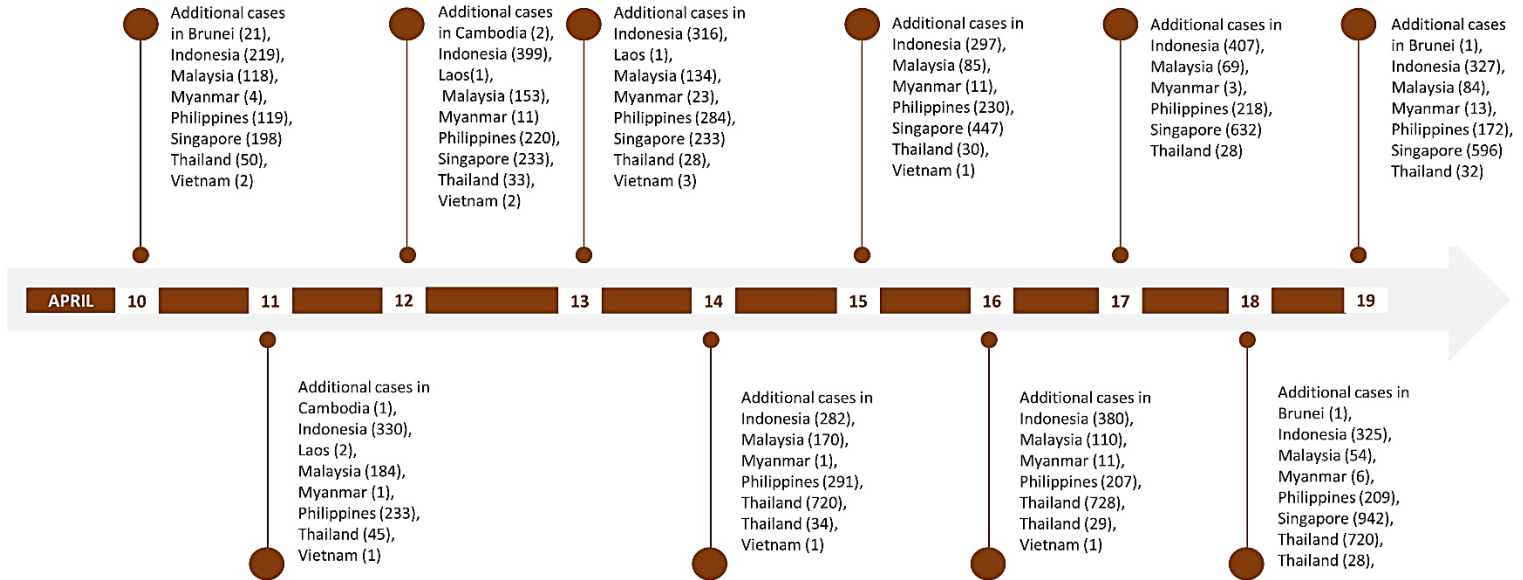
# COVID-19 epi curve of ASEAN Member States

Generated by ASEAN Biodiaspora Virtual Center (ABVC)  
as of April 26, 2020





## Timeline of COVID-19: ASEAN (continuation)





Report generated by  
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