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

ASEAN Biodiaspora Virtual Center (ABVC)

as of April 17, 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
- Singapore is preparing to house hundreds of foreign workers in accommodation vessels as alternatives to dormitories. Tens of thousands of migrant workers, many from South Asia, live in cramped dormitories across Singapore, which have become the biggest source of coronavirus infections lately in Singapore.
- The Philippines will put up specimen collection booths as it ramps up COVID-19 testing efforts. An initial 132 specimen collection booths will be put up in different regions to complement the increasing number of COVID-19 testing centers.
- Japan declares nationwide state of emergency on April 16. Japan's Prime Minister that the emergency imposed in seven provinces earlier this month will now apply to all 47 provinces.

Travel Advisories (new updates)

- Indonesia: Airports across Indonesia have reduced their operational hours and services, including by closing terminals. State-owned airport operator PT Angkasa Pura II (AP II), which manages airports in western Indonesia, is applying basic minimum operations at Soekarno-Hatta International Airport in Tangerang, Banten, and Halim Perdanakusuma Airport in East Jakarta. The airport operator is temporarily closing terminals 1B, 1C and 2F at Soekarno-Hatta, while terminals 1A, 2D, 2E and all of Terminal 3 will remain open for 24 hours. Radin Inten II Airport in Lampung, for example, is now open from 10 a.m. to 8 p.m. instead of its usual schedule of 6 a.m. to 9 p.m. and Supadio Airport in Pontianak in West Kalimantan from 6 a.m. to 6.30 p.m. instead of 6 a.m. to midnight. Sultan Mahmud Badaruddin II International Airport in Palembang, South Sumatra, is open from 6 a.m. to 6 p.m. instead of 5 a.m. to midnight, and Depati Amir Airport in Bangka Belitung Islands from 8 a.m. to 5 p.m. instead of 6 a.m. to 9 p.m. According to Transportation Ministerial Regulation No. 18/2020, time slots for aircraft traffic at every airport must be reduced. The regulation also stipulates that each flight must operate at 50 percent of the total capacity.
- Thailand: On April 16, Thai Immigration Bureau announced that it will reopen 23 land borders on Saturday (April 17) so that Thai citizens from neighbouring countries can return home. The border closures have left many Thais stranded in Malaysia, Myanmar, Laos and Cambodia. Thai nationals would be allowed to enter Thailand after obtaining clearance from the respective Thai embassies and a health certificate. Foreigners will not be allowed to enter Thailand except for diplomats or work permit holders.

Cases and Deaths as of 17 April 2020

- As of April 17 (2PM, GMT+8), worldwide, there were **2,164,584** confirmed cases, including **144,477** deaths. Globally, Case Fatality Ratio (CFR)* is **6.67**.
- In **China**, there were **83,799** 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 (1,018), Macau (45), and Taiwan (395).
- **2,080,785 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	16 Apr 2020	2,672 (46)	1.72
	Vietnam	23 Jan 2020	16 Apr 2020	268	
	Singapore	23 Jan 2020	16 Apr 2020	4,427 (10)	0.23
	Malaysia	25 Jan 2020	16 Apr 2020	5,182 (84)	1.62
	Cambodia	27 Jan 2020	12 Apr 2020	122	
	Philippines	30 Jan 2020	16 Apr 2020	5,660 (362)	6.40
	Indonesia	02 Mar 2020	16 Apr 2020	5,516 (496)	8.99
	Brunei	10 Mar 2020	10 Apr 2020	136 (1)	0.74
	Myanmar	23 Mar 2020	16 Apr 2020	85 (4)	4.71
	Lao PDR	24 Mar 2020	13 Apr 2020	19	
	Japan	16 Jan 2020	16 Apr 2020	9,332 (185)	1.98
	South Korea	20 Jan 2020	16 Apr 2020	10,613 (229)	2.16
	Nepal	24 Jan 2020	14 Apr 2020	16	
	Australia	25 Jan 2020	16 Apr 2020	6,468 (63)	0.97
	Sri Lanka	27 Jan 2020	16 Apr 2020	238 (7)	2.94
	India	30 Jan 2020	16 Apr 2020	12,759 (423)	3.32
	Afghanistan	24 Feb 2020	16 Apr 2020	840 (30)	3.57
	Pakistan	26 Feb 2020	16 Apr 2020	6,919 (128)	1.85
	New Zealand	28 Feb 2020	16 Apr 2020	1,401 (9)	0.64
	Bhutan	05 Mar 2020	02 Apr 2020	5	
	Maldives	07 Mar 2020	16 Apr 2020	23	
	Bangladesh	08 Mar 2020	16 Apr 2020	1,572 (60)	3.82
	Mongolia	10 Mar 2020	16 Apr 2020	31	
	Turkey	10 Mar 2020	16 Apr 2020	74,193 (1,643)	2.21
	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	16 Apr 2020	17	
	Papua New Guinea	21 Mar 2020	16 Apr 2020	7	
	Timor Leste	21 Mar 2020	16 Apr 2020	18	
	Northern Mariana Islands	28 Mar 2020	15 Apr 2020	13 (2)	15.38
AMERICAS	**USA**	21 Jan 2020	16 Apr 2020	670,598 (34,233)	5.10
	Canada	25 Jan 2020	16 Apr 2020	29,929 (1,240)	4.14
	Brazil	26 Feb 2020	16 Apr 2020	29,015 (1,760)	6.07
	Mexico	28 Feb 2020	16 Apr 2020	5,847 (449)	7.68
	Saint Martin	01 Mar 2020	15 Apr 2020	35 (2)	5.71
	Ecuador	01 Mar 2020	16 Apr 2020	8,225 (403)	4.90
	Dominican Republic	01 Mar 2020	15 Apr 2020	3,614 (189)	5.23
	Chile	03 Mar 2020	15 Apr 2020	8,273 (94)	1.14

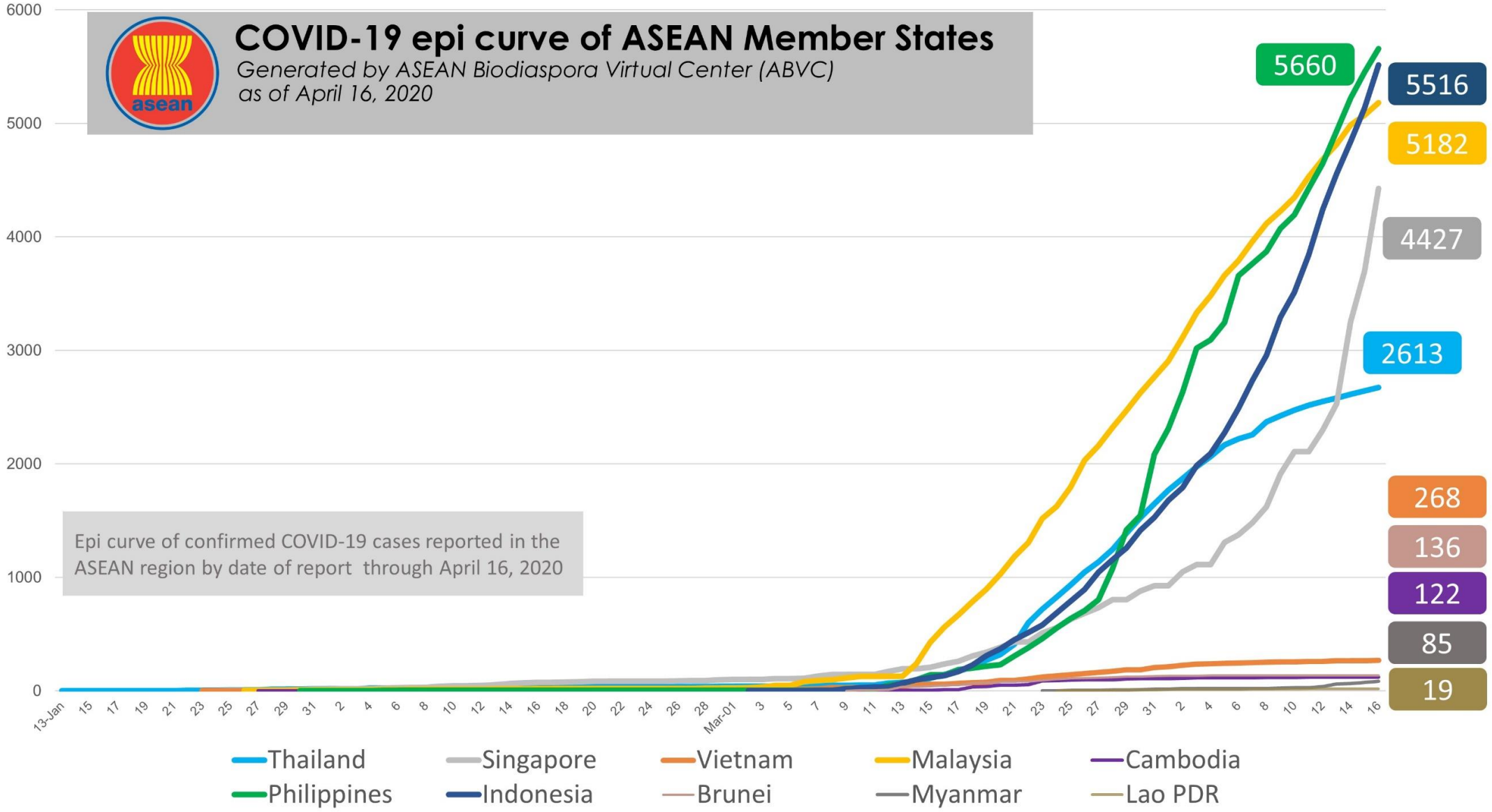
Argentina	03 Mar 2020	16 Apr 2020	2,571 (112)	4.36
Peru	05 Mar 2020	16 Apr 2020	11,475 (254)	2.21
Costa Rica	06 Mar 2020	16 Apr 2020	626 (4)	0.64
Colombia	06 Mar 2020	16 Apr 2020	3,105 (131)	4.22
French Guiana	06 Mar 2020	12 Apr 2020	86	
Martinique	06 Mar 2020	15 Apr 2020	158 (8)	5.06
Paraguay	07 Mar 2020	16 Apr 2020	174 (8)	4.60
Panama	10 Mar 2020	16 Apr 2020	3,751 (103)	2.75
Bolivia	10 Mar 2020	16 Apr 2020	441 (29)	6.58
Honduras	11 Mar 2020	16 Apr 2020	428 (36)	8.41
Cuba	11 Mar 2020	16 Apr 2020	814 (24)	2.95
Guyana	11 Mar 2020	16 Apr 2020	55 (6)	10.91
Jamaica	12 Mar 2020	16 Apr 2020	125 (5)	4.00
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	16 Apr 2020	114 (8)	7.02
Venezuela	13 Mar 2020	15 Apr 2020	197 (9)	4.57
Guatemala	13 Mar 2020	16 Apr 2020	196 (5)	2.55
Uruguay	13 Mar 2020	16 Apr 2020	493 (12)	2.43
Curacao	13 Mar 2020	09 Apr 2020	14 (1)	7.14
Puerto Rico	13 Mar 2020	16 Apr 2020	1,043 (56)	5.37
Suriname	13 Mar 2020	08 Apr 2020	10 (1)	10.00
Antigua and Barbuda	13 Mar 2020	16 Apr 2020	23 (3)	13.04
Guadeloupe	13 Mar 2020	14 Apr 2020	145 (8)	5.52
Cayman Islands	13 Mar 2020	16 Apr 2020	60 (1)	1.67
Aruba	14 Mar 2020	16 Apr 2020	93 (1)	1.08
Bahamas	15 Mar 2020	16 Apr 2020	53 (8)	15.09
US Virgin Islands	16 Mar 2020	30 Mar 2020	30	
Sint Maarten	17 Mar 2020	16 Apr 2020	57 (9)	15.79
Montserrat	17 Mar 2020	13 Apr 2020	11	
Barbados	17 Mar 2020	16 Apr 2020	75 (5)	6.67
El Salvador	18 Mar 2020	16 Apr 2020	164 (6)	3.66
Nicaragua	18 Mar 2020	12 Apr 2020	9 (1)	11.11
Bermuda	18 Mar 2020	16 Apr 2020	81 (5)	6.17
Haiti	19 Mar 2020	15 Apr 2020	41 (3)	7.32
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	15 Apr 2020	14	
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	15 Apr 2020	11	
	Saint Pierre and Miquelon	05 Apr 2020	05 Apr 2020	1	
EUROPE	**France**	24 Jan 2020	16 Apr 2020	165,027 (17,920)	10.86
	Germany	27 Jan 2020	16 Apr 2020	135,663 (3,867)	2.85
	Finland	29 Jan 2020	16 Apr 2020	3,369 (75)	2.23
	Italy	30 Jan 2020	16 Apr 2020	168,941 (22,170)	13.12
	Russian Federation	31 Jan 2020	16 Apr 2020	27,938 (232)	0.83
	Spain	31 Jan 2020	16 Apr 2020	182,816 (19,130)	10.46
	Sweden	31 Jan 2020	16 Apr 2020	12,540 (1,333)	10.63
	United Kingdom of Great Britain	31 Jan 2020	16 Apr 2020	103,093 (13,729)	13.32
	Belgium	05 Feb 2020	16 Apr 2020	34,809 (4,857)	13.95
	Switzerland	25 Feb 2020	16 Apr 2020	26,732 (1,281)	4.79
	Austria	25 Feb 2020	16 Apr 2020	14,412 (410)	2.84
	Croatia	25 Feb 2020	16 Apr 2020	1,791 (35)	1.95
	Norway	26 Feb 2020	16 Apr 2020	6,798 (150)	2.21
	Romania	26 Feb 2020	16 Apr 2020	7,707 (392)	5.09
	Estonia	26 Feb 2020	16 Apr 2020	1,434 (36)	2.51
	Georgia	26 Feb 2020	16 Apr 2020	348 (3)	0.86
	North Macedonia	26 Feb 2020	15 Apr 2020	974 (45)	4.62
	Greece	26 Feb 2020	16 Apr 2020	2,207 (105)	4.76
	Denmark	27 Feb 2020	16 Apr 2020	6,879 (321)	4.67
	San Marino	27 Feb 2020	16 Apr 2020	426 (38)	8.92
	Lithuania	27 Feb 2020	16 Apr 2020	1,128 (30)	2.66
	Netherlands	27 Feb 2020	16 Apr 2020	29,214 (3,315)	11.35
	Azerbaijan	27 Feb 2020	16 Apr 2020	1,253 (13)	1.04
	Belarus	28 Feb 2020	16 Apr 2020	4,204 (40)	0.95
	Iceland	28 Feb 2020	15 Apr 2020	1,727 (8)	0.46
	Ireland	28 Feb 2020	16 Apr 2020	13,271 (486)	3.66
	Monaco	29 Feb 2020	16 Apr 2020	93 (3)	3.23
	Czech Republic	01 Mar 2020	16 Apr 2020	6,303 (166)	2.63
	Luxembourg	01 Mar 2020	16 Apr 2020	3,373 (69)	2.05
	Armenia	01 Mar 2020	16 Apr 2020	1,159 (18)	1.55
	Latvia	02 Mar 2020	16 Apr 2020	675 (5)	0.74
	Portugal	02 Mar 2020	16 Apr 2020	18,841 (629)	3.34
	Andorra	02 Mar 2020	16 Apr 2020	673 (33)	4.90
	Liechtenstein	03 Mar 2020	11 Apr 2020	79 (1)	1.27
	Ukraine	03 Mar 2020	16 Apr 2020	4,161 (116)	2.79
	Slovenia	04 Mar 2020	16 Apr 2020	1,268 (61)	4.81
	Hungary	04 Mar 2020	16 Apr 2020	1,652 (142)	8.60

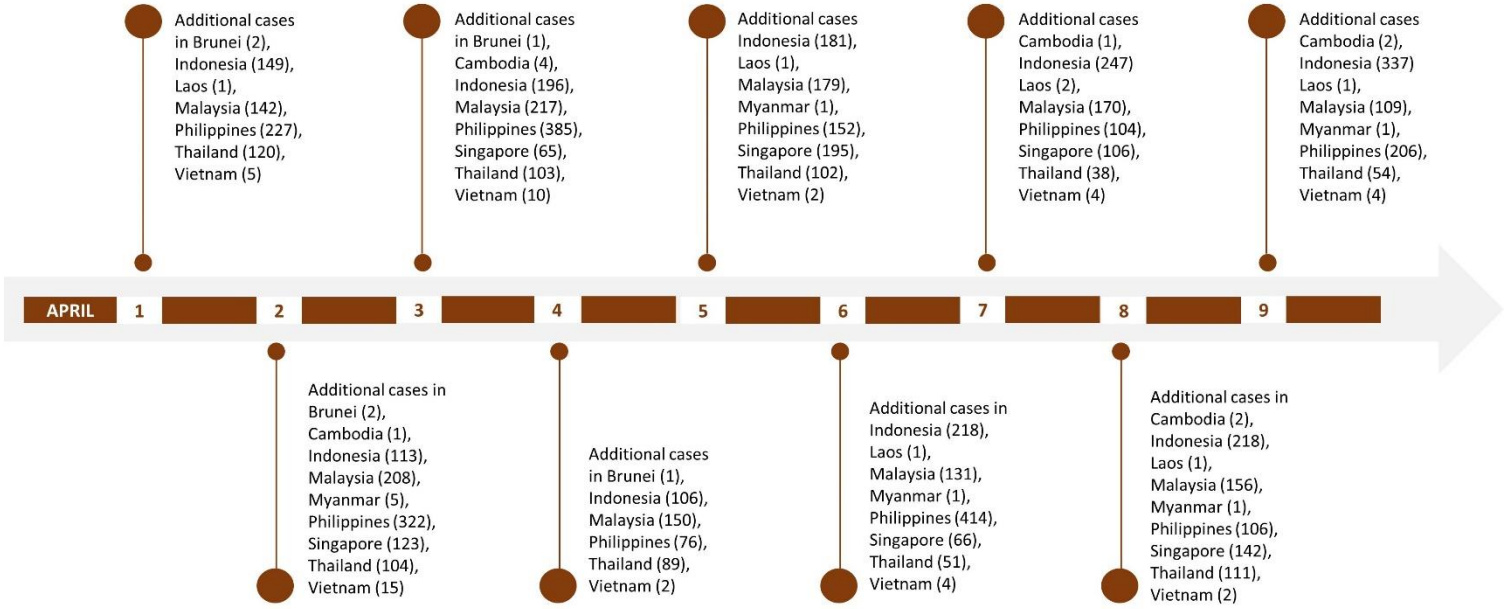
	Poland	04 Mar 2020	16 Apr 2020	7,918 (314)	3.97
	Faroe Islands	04 Mar 2020	07 Apr 2020	184	0.00
	Bosnia and Herzegovina	05 Mar 2020	16 Apr 2020	1,167 (43)	3.68
	Gibraltar	05 Mar 2020	15 Apr 2020	131	
	Slovakia	06 Mar 2020	16 Apr 2020	977 (8)	0.82
	Serbia	06 Mar 2020	16 Apr 2020	5,318 (103)	1.94
	Vatican City	06 Mar 2020	09 Apr 2020	8	
	Malta	07 Mar 2020	16 Apr 2020	412 (3)	0.73
	Moldova	07 Mar 2020	16 Apr 2020	2,049 (51)	2.49
	Bulgaria	08 Mar 2020	16 Apr 2020	783 (37)	4.73
	Albania	09 Mar 2020	16 Apr 2020	518 (29)	5.60
	Cyprus	09 Mar 2020	16 Apr 2020	715 (12)	1.68
	Channel Islands	09 Mar 2020	16 Apr 2020	447 (15)	3.36
	Jersey	10 Mar 2020	05 Apr 2020	126 (3)	2.38
	Kazakhstan	13 Mar 2020	16 Apr 2020	1,362 (17)	1.25
	Kosovo	13 Mar 2020	16 Apr 2020	423 (10)	2.36
	Uzbekistan	15 Mar 2020	16 Apr 2020	1,349 (4)	0.30
	Greenland	16 Mar 2020	05 Apr 2020	11	
	Montenegro	17 Mar 2020	16 Apr 2020	290 (4)	1.38
	Kyrgyztan	18 Mar 2020	16 Apr 2020	466 (5)	1.07
	Isle of Man	19 Mar 2020	16 Apr 2020	283 (4)	1.41
MIDDLE EAST	**UAE**	29 Jan 2020	16 Apr 2020	5,365 (33)	0.62
	Iran	19 Feb 2020	16 Apr 2020	77,995 (4,869)	6.24
	Israel	21 Feb 2020	16 Apr 2020	12,591 (140)	1.11
	Lebanon	21 Feb 2020	16 Apr 2020	663 (21)	3.17
	Kuwait	24 Feb 2020	16 Apr 2020	1,524 (3)	0.20
	Oman	24 Feb 2020	16 Apr 2020	1,019 (4)	0.39
	Bahrain	24 Feb 2020	16 Apr 2020	1,698 (7)	0.41
	Iraq	24 Feb 2020	16 Apr 2020	1,434 (80)	5.58
	Qatar	29 Feb 2020	16 Apr 2020	4,103 (7)	0.17
	Saudi Arabia	02 Mar 2020	16 Apr 2020	6,380 (83)	1.30
	Jordan	02 Mar 2020	15 Apr 2020	401 (7)	1.75
	Palestine	05 Mar 2020	16 Apr 2020	374 (2)	0.53
	Syria	22 Mar 2020	16 Apr 2020	33 (2)	6.06
	Yemen	10 Apr 2020	10 Apr 2020	1	
AFRICA	**Egypt**	14 Feb 2020	16 Apr 2020	2,505 (183)	7.31
	Algeria	25 Feb 2020	16 Apr 2020	2,160 (336)	15.56
	Nigeria	28 Feb 2020	16 Apr 2020	407 (12)	2.95
	Tunisia	02 Mar 2020	16 Apr 2020	780 (35)	4.49
	Morocco	02 Mar 2020	16 Apr 2020	2,251 (128)	5.69
	Senegal	02 Mar 2020	16 Apr 2020	335 (2)	0.60
	South Africa	05 Mar 2020	15 Apr 2020	2,506 (34)	1.36
	Cameroon	06 Mar 2020	15 Apr 2020	848 (17)	2.00
	Togo	06 Mar 2020	16 Apr 2020	81 (5)	6.17
	Burkina Faso	09 Mar 2020	16 Apr 2020	542 (32)	5.90
	Democratic Republic of Congo	10 Mar 2020	16 Apr 2020	267 (22)	8.24
	Ivory Coast	11 Mar 2020	16 Apr 2020	654 (6)	0.92
	Reunion	11 Mar 2020	14 Apr 2020	391	

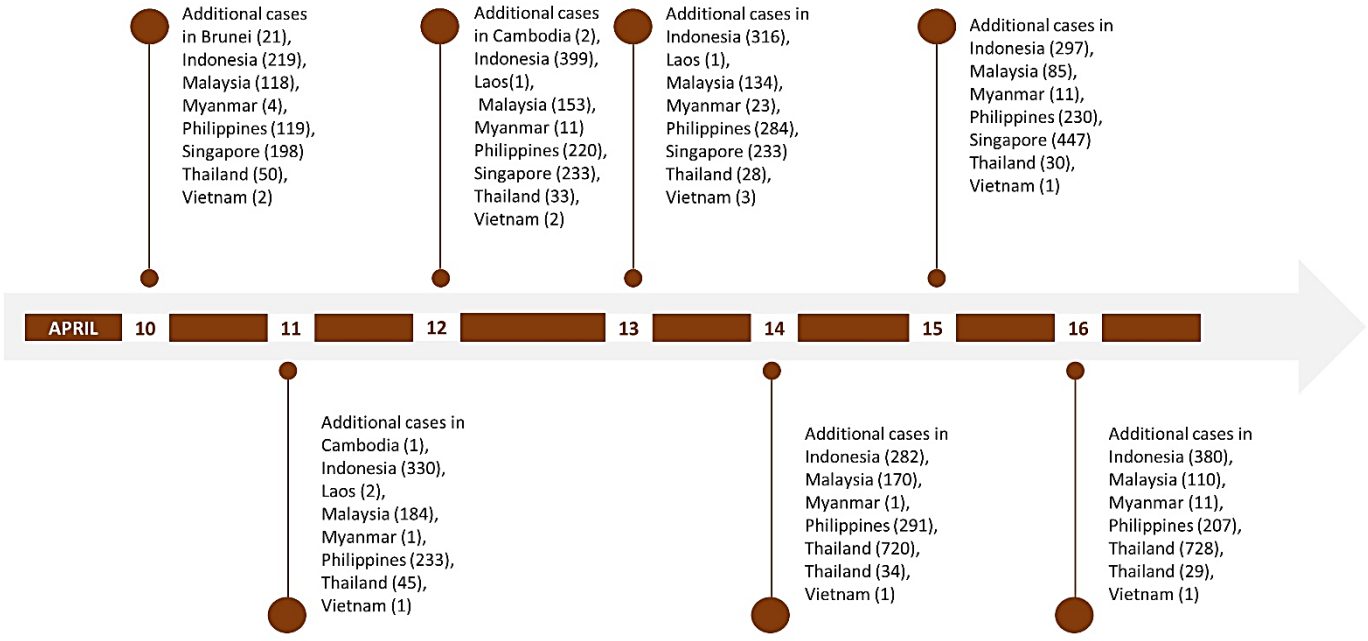
	Ghana	13 Mar 2020	16 Apr 2020	641 (8)	1.25
	Guinea	13 Mar 2020	16 Apr 2020	438 (1)	0.23
	Gabon	13 Mar 2020	15 Apr 2020	80 (1)	1.25
	Sudan	13 Mar 2020	15 Apr 2020	32 (5)	15.63
	Kenya	13 Mar 2020	15 Apr 2020	225 (10)	4.44
	Ethiopia	13 Mar 2020	16 Apr 2020	92 (3)	3.26
	Central African Republic	14 Mar 2020	16 Apr 2020	12	
	Seychelles	14 Mar 2020	06 Apr 2020	11	
	Rwanda	14 Mar 2020	16 Apr 2020	136	
	Namibia	14 Mar 2020	05 Apr 2020	16	
	Swaziland	14 Mar 2020	16 Apr 2020	16	
	Mauritania	14 Mar 2020	14 Apr 2020	7 (1)	14.29
	Mayotte	14 Mar 2020	16 Apr 2020	233 (3)	1.29
	Equatorial Guinea	15 Mar 2020	16 Apr 2020	51	
	Republic of Congo	15 Mar 2020	16 Apr 2020	117 (5)	4.27
	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	16 Apr 2020	94 (4)	4.26
	Somalia	16 Mar 2020	16 Apr 2020	80 (5)	6.25
	Gambia	17 Mar 2020	12 Apr 2020	9 (1)	11.11
	Zambia	17 Mar 2020	15 Apr 2020	48 (2)	4.17
	Mauritius	18 Mar 2020	12 Apr 2020	324 (9)	2.78
	Djibouti	18 Mar 2020	15 Apr 2020	435 (2)	0.46
	Niger	19 Mar 2020	16 Apr 2020	584 (14)	2.40
	Chad	19 Mar 2020	16 Apr 2020	27	
	Zimbabwe	20 Mar 2020	16 Apr 2020	23 (3)	13.04
	Cape Verde	20 Mar 2020	15 Apr 2020	56 (1)	1.79
	Madagascar	20 Mar 2020	16 Apr 2020	111	
	Uganda	21 Mar 2020	15 Apr 2020	55	
	Eritrea	21 Mar 2020	15 Apr 2020	35	
	Angola	21 Mar 2020	09 Apr 2020	19 (2)	10.53
	Mozambique	22 Mar 2020	16 Apr 2020	29	
	Libya	24 Mar 2020	16 Apr 2020	48 (1)	2.08
	Guinea-Bissau	25 Mar 2020	15 Apr 2020	43	
	Mali	25 Mar 2020	15 Apr 2020	148 (13)	8.78
	Botswana	30 Mar 2020	16 Apr 2020	15 (1)	6.67
	Sierra Leone	31 Mar 2020	16 Apr 2020	15	
	Burundi	31 Mar 2020	15 Apr 2020	5 (1)	20.00
	Malawi	02 Apr 2020	13 Ap 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	
				2,080,785 (141,123)	

**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 16, 2020
Epi curve of confirmed COVID-19 cases reported in the ASEAN region by date of report through April 16, 2020
6000
5000
4000
3000
2000
1000
0
13-Jan
Mar-01
5660
5516
5182
4427
2613
268
136
122
85
19
Thailand
Singapore
Vietnam
Malaysia
Cambodia
Philippines
Indonesia
Brunei
Myanmar
Lao PDR

Timeline of COVID-19: ASEAN





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