

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

ASEAN Biodiaspora Virtual Center (ABVC)

as of March 29, 2021



COVID-19: Highlights and Situation Overview

Global Update

- Worldwide, there have been over 127.9 million cases and more than 2.7 million deaths attributed to COVID-19. According to the BlueDot COVID-19 Data Suite, as of March 25 the continent of Europe continues to have the highest proportion of countries reporting high rates of new cases over the past seven days. Of the 51 countries monitored in Europe, 16 (31%) are reporting a high rate of increasing new cases. Within Europe, the top five countries reporting a high rate of increasing new cases with the highest population-adjusted seven-day rolling average of daily new cases are Hungary, Poland, France, Bosnia and Herzegovina, and Kosovo. In addition, there are eight (17%) countries within the European region reporting a moderate rate of increasing new cases including Serbia, Andorra, Slovenia, Macedonia, and Lithuania. Of the 48 countries monitored in Asia, nine (19%) have a high rate of increasing new cases (including Armenia, Turkey, Oman, Azerbaijan, and the Philippines) and 14 (29%) are reporting moderate rates of increasing cases (including Qatar, Georgia, Kazakhstan, Mongolia, and Malaysia). Africa continues to lead the highest proportion of countries reporting a decreasing and a stable rate of new cases. Of the 56 countries currently monitored in Africa, 16 (29%) are reporting decreasing rates of new cases, including Algeria, South Africa, Senegal, Ghana, and the Democratic Republic of the Congo. In addition, 25 (45%) countries are reporting a stable rate of new cases including Egypt, Tunisia, Morocco, Burkina Faso, and Mauritania. Only three (5%) are reporting a high rate of increasing new cases (Ethiopia, Kenya, and Botswana). Of the 41 countries monitored in North and Central America, Canada is the only country reporting a high rate of new cases, whereas five (12%) are reporting a moderate rate of increasing new cases (i.e. Aruba, Bermuda, Puerto Rico, Guatemala, and Saint Vincent and the Grenadines). In South America, of the 14 countries monitored, two (14%) are reporting a high rate of increasing cases (i.e. Chile and Uruguay), whereas eight (57%) are reporting stable rates of new cases (including Ecuador, Brazil, Colombia, Argentina, and Venezuela). However, it is noteworthy that the current stability of most of the South American countries may be a reflection of the countries saturated healthcare system, as on certain days laboratories might not be able to report all their cases. Subsequent days may have a combination of the previous day and the current day's reports. As of March 24, nine (64%) of the countries monitored in South America were reporting a high rate of increasing cases (including Brazil, Paraguay, Peru, Argentina, Venezuela). This is aligned with a recent statement from PAHO/WHO warning of a steep rise and a potential new coronavirus wave that might collapse the already weakened healthcare systems in the region. Brazil's healthcare system is reportedly already overwhelmed, and the variant of concern (VOC) P.1 has been confirmed in over 15 countries within the region. Neighbouring countries are also experiencing record high numbers of daily new cases. For example, Venezuela's Bolivar and Amazonas states, and border regions of Peru and Bolivia have confirmed a significant upward trend in the number of cases and deaths. Similarly, the Southern Cone, including Chile, Paraguay, and Uruguay, has reported a rebound in COVID-19 cases. Uruguay has reported an all-time high number of new cases and deaths and, in Paraguay, ICU beds are at maximum capacity. To date, 10 countries have administered a total of 60% of all vaccinations globally. The top five countries/territories with the highest number of cumulative people vaccinated with at least one dose per 100,000 people are Gibraltar (89,550), Israel (60,120), United Kingdom (42,210), United Arab Emirates (35,190), and Bermuda (33,800).

Regional Update

- The Philippines announced on Saturday (March 27) that more than 24 million people in and around Manila will go into lockdown this week, as hospitals in the capital struggle to cope with a surge in COVID-19 infections. The tougher restrictions come as more contagious variants of the virus fuel a resurgence in cases. The week-long rules announced by presidential spokesman applies to Metro Manila and four surrounding provinces, which have already been placed in a travel bubble to try to prevent the spike from spreading further. Starting today (March 29), people will have to work from home unless they are considered essential workers, and public transport will be halted. All mass gatherings will be banned, night-time curfews from 6pm to 5am will be enforced and non-essential businesses will be shut.

Global Distribution of Variants of Concern

- **B.1.1.7 (U.K. origin):** As of March 25, 102 countries have reported the B.1.1.7 variant. Worldwide, the countries with the highest seven-day rolling average number of B.1.1.7 variants reported daily are the United Kingdom (2,951), Germany (388), the United States (358), the Netherlands (201), and Italy (179). After adjusting for population size, the countries with the highest seven-day rolling average number of B.1.1.7 variants reported per 100,000 people are Gibraltar (55.1), the United Kingdom (4.4), Slovenia (2.0), Aruba (2.0) and Norway (1.8). As of March 25, among those countries with higher rates of testing (more than 1,000 cumulative sequences), Ireland, the United Kingdom, and Italy had the highest cumulative proportion of B.1.1.7 variants reported per total sequences completed since the first variant case was detected in each country (56%, 47%, and 38%, respectively). This proportion represents the number of variant cases detected relative to the dominant strain as it remains unclear what proportion of conducted tests were positive for other variant strains. As of March 25, the proportion of B.1.1.7 variants reported per sequences conducted over the past seven days in Ireland, the United Kingdom, and Italy was 95%, 97%, and 60% respectively. This provides evidence that the B.1.1.7 is both the dominant variant detected in these locations, but almost exclusively the cause of COVID-19 cases in two of these countries, assuming samples are representative across regions. Of countries that have completed at least 100 cumulative sequences, the countries with the highest proportions of B.1.1.7 variants reported per sequences conducted over the past seven days include Ukraine (100%), Curacao (86%), Israel (86%), the Czech Republic (74%), Bulgaria (63%), the Netherlands (60%), and Slovakia (60%). As of March 25, among the countries that have completed at least 100 sequences, the lowest cumulative proportion of B.1.1.7 per total sequences has been reported in South Africa (0.02%), Russia (0.10%), Mayotte (0.15%), and Kenya (0.15%).
- **B.1.351 Variant (South Africa origin):** As of March 25, 63 countries have reported the B.1.351 variant. Worldwide, the countries with the highest seven-day rolling average number of B.1.351 variants reported daily are South Africa (71), the United Kingdom (27), Belgium (26), France (22), and Germany (17). Additionally, worldwide, Mayotte has the highest seven-day rolling average number of B.1.351 variants reported per 100,000 people (8.8), followed by Belgium (0.23), Norway (0.15), and South Africa (0.12). As of March 25, among those countries with higher rates of testing (more than 1,000 cumulative sequences), South Africa has the highest cumulative proportion of B.1.351 variants reported per total sequences completed since the first variant case was detected (33%). The proportion of B.1.351 variants reported per sequences conducted over the past seven days in South Africa is 71%. In addition, as of March 25, of those countries that have completed under 1,000 but at least 100 cumulative sequences, the highest cumulative proportion of B.1.351 variants per total sequences completed since the first variant case was detected has been reported in Mayotte (51%), Zimbabwe (51%), and Mozambique (38%). As of March 25, among the countries that have completed at least 100 sequences, the lowest cumulative proportion of B.1.351 per total sequences has been reported in Denmark (0.02%), Russia (0.05%), Japan (0.06%), and Luxembourg (0.06%).

- **P.1 Variant (Brazil origin):** As of March 25, 29 countries have reported the P.1 variant. Worldwide, the countries with the highest seven-day rolling average number of P.1 variants reported daily are Italy (21), Brazil (6.4), Belgium (5.6), Canada (3.6), and the United Kingdom (2.4). Local transmission of the P.1 variant has been reported in several countries including Brazil, Peru, Belgium, Portugal, the Netherlands, Colombia, Turkey, France, Venezuela, Switzerland, Mexico, Sweden, Aruba, Chile, Guadeloupe, Philippines, Romania, the United Kingdom, the United Arab Emirates and Uruguay. As of March 25, among those countries with higher rates of testing (more than 1,000 cumulative sequences), Brazil has the highest cumulative proportion of P.1 variants reported per total sequences completed since the first variant case was detected (10%). The proportion of P.1 variants reported per sequences conducted over the past seven days in Brazil was 41%. Aside from Brazil, the countries with the highest proportion of P.1 variants reported per sequences conducted over the past seven days are Colombia (35%) and French Guiana (17%).

Vaccine Update

- China National Pharmaceutical Group (Sinopharm) said on March 28 that they will need to assess results from overseas Phase III clinical trials to decide whether its two-shot COVID-19 vaccine should be followed by a booster shot. Regulators and vaccine developers are looking at whether booster doses are necessary amid concerns that emerging variants of the new coronavirus might weaken protection of vaccines designed against older strains. According to China National Biotec Group (CNBG), the preliminary results so far showed that the booster vaccination can effectively increase the neutralizing antibody titer and antibody persistence, and also effectively improve the vaccine's ability to resist mutations.
- According to Indonesia's Health Minister on Saturday (March 27), Indonesia expects a slowdown in COVID-19 inoculations next month as India delays shipments of AstraZeneca vaccines. India has put a temporary hold on all major exports of the AstraZeneca coronavirus shot made by Serum Institute of India (SII), prioritizing domestic demand as infections rise. India's move will affect supplies to the GAVI/WHO-backed global COVAX vaccine-sharing facility, through which 64 lower-income countries including Indonesia are supposed to get doses from SII.

Travel Advisories (no new update/s)

- Thailand's Ministry of Public Health announced on March 28 the names of 11 countries where COVID virus variants have been reported and that travellers arriving from these countries will still be required to do the full 14-day quarantine when they arrive in Thailand. Starting April 1, foreign travellers, who carry proof of their vaccination against COVID-19, will be permitted to visit 6 tourism provinces starting next month – Phuket, Krabi, Chon Buri (Pattaya), Chiang Mai, Phang Nga and Surat Thani (Koh Samui, Koh Pha Ngan, Koh Tao). Travellers who have been vaccinated will still have to quarantine at this stage. But the mandatory quarantine period is being reduced from 14 days to 7 days.

Cases and Deaths as of 29 March 2021

- As of 29 March 2021 (2PM, GMT+8), worldwide, there were **127,985,535** confirmed cases, including **2,797,646** deaths. Globally, Case Fatality Rate (CFR) is **2.2**.
- In **China**, there were **102,684** confirmed cases with **4,851** deaths, including deaths in Hong Kong (205) and Taiwan (10). Confirmed cases in China include confirmed cases in Hong Kong (11,447), Macau (48), and Taiwan (1,022).

- **2,796,420 confirmed cases** of COVID-19 have been reported in the ASEAN region with a total of **58,252 deaths**, with a CFR of **2.1**.

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST REPORT ON CONFIRMED CASE(S)	TOTAL CONFIRMED CASES	NEW CASES (7-DAY ROLLING AVERAGE)	TOTAL DEATHS	NEW DEATHS (7-DAY ROLLING AVERAGE)	CASE FATALITY RATE	CUMULATIVE CASES/ 100,000	REPORTED TESTS LAST 14 DAYS /100,000	RT MEAN*	CUMULATIVE FULLY VACCINATED (FULLY VACCINATED/ 100,000)	CATEGORY BY RATE OF CHANGE IN NEW CASES**
ASEAN REGION	Brunei	10 Mar 20	28-Mar-21	207	1 (0)	3	-	1.4	47				B
	Cambodia	27 Jan 20	28-Mar-21	2,233	86 (78)	10	2 (1)	0.4	14		1.5		C
	Indonesia	02 Mar 20	28-Mar-21	1,496,085	4,083 (5,129)	40,449	85 (128)	2.7	573	3,152	0.9	3,235,027 (1,180)	B
	Lao PDR	24 Mar 20	17-Mar-21	49	-	-	-	-	1				F
	Malaysia	25 Jan 20	28-Mar-21	341,944	1,302 (1,272)	1,255	4 (3)	0.4	1,050	22,628	0.9		C
	Myanmar	23 Mar 20	28-Mar-21	142,385	8 (25)	3,206	-	2.3	269		1.6		D
	Philippines	30 Jan 20	28-Mar-21	721,892	9,450 (8,300)	13,170	11 (29)	1.8	699	8,998	1.2		E
	Singapore	23 Jan 20	28-Mar-21	60,300	12 (15)	30	-	0.0	1,558	214,628	1.1	310,000 (5,300)	D
	Thailand	13 Jan 20	28-Mar-21	28,734	77 (133)	94	1 (1)	0.3	42	4,521	1.0	5,862 (10)	C
	Vietnam	23 Jan 20	28-Mar-21	2,591	5 (3)	35	-	1.4	3		1.3		C
				2,796,420	15,024	58,252	103	2.1					

*time-varying reproduction number (Rt)

**Country Category by rate of change of new COVID-19 cases over the past week (represented by seven-day rolling averages): <100 cases (A), significantly decreasing (B), stable rate (C), significantly increasing moderate rate (D), significantly increasing high rate (E), insufficient data (F)

- **125,086,431 confirmed cases** of COVID-19 have been reported in **211 countries/states** (other than China, Hong Kong, Taiwan, Macau, and ASEAN countries):

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST REPORT ON CONFIRMED CASE(S)	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS	CASE FATALITY RATE	REPORTED CASES/ 100,000	REPORTED TESTS LAST 14 DAYS /100,000	RT MEAN*	FULLY VACCINATED/ 100,000	CATEGORY BY RATE OF CHANGE IN NEW CASES**
ASIA PACIFIC	Japan	16 Jan 2020	26-Mar-21	464,433	-	8,989	-	1.9	367	7,096	0.8	30	C
	South Korea	20 Jan 2020	28-Mar-21	101,757	482	1,722	1	1.7	197	14,432	1.0	10	C
	Nepal	24 Jan 2020	28-Mar-21	276,839	89	3,027	-	1.1	986	8,017	1.1		D
	Australia	25 Jan 2020	28-Mar-21	29,260	8	909	-	3.1	114	59,784	1.0		B
	Sri Lanka	27 Jan 2020	28-Mar-21	92,007	168	559	1	0.6	425	10,852	0.8		B

	India	30 Jan 2020	28-Mar-21	12,039,210	68,205	161,881	295	1.3	994	19,705	1.3	640	E
	Afghanistan	24 Feb 2020	28-Mar-21	56,322	28	2,472	2	4.4	152		1.0		C
	Pakistan	26 Feb 2020	28-Mar-21	654,591	4,767	14,215	57	2.2	308	4,701	1.2		E
	New Zealand	28 Feb 2020	28-Mar-21	2,482	1	26	-	1.0	51	38,381	0.9		C
	Bhutan	05 Mar 2020	28-Mar-21	872	1	1	-	0.1	116	77,197			D
	Maldives	07 Mar 2020	28-Mar-21	23,524	121	66	-	0.3	4,562	120,548	1.1		C
	Bangladesh	08 Mar 2020	28-Mar-21	595,714	3,908	8,904	35	1.5	369	2,796	1.4		E
	Mongolia	10 Mar 2020	28-Mar-21	7,014	321	6	-	0.1	221	67,691	1.6		E
	Turkey	10 Mar 2020	28-Mar-21	3,208,173	29,058	31,076	153	1.0	3,897	45,205	1.3	7,630	E
	French Polynesia	12 Mar 2020	26-Mar-21	18,607	-	141	-	0.8	6,701		0.8		B
	Guam	15 Mar 2020	28-Mar-21	7,800	3	134	-	1.7	4,705		1.5	19,140	D
	New Caledonia	17 Mar 2020	26-Mar-21	121	-	-	-	-	43				B
	Fiji	18 Mar 2020	19-Mar-21	67	-	2	-	3.0	8				F
	Papua New Guinea	21 Mar 2020	28-Mar-21	5,184	524	45	6	0.9	60		1.2		C
	Timor Leste	21 Mar 2020	28-Mar-21	491	11	-	-	-	39				C
	Northern Mariana Islands	28 Mar 2020	24-Mar-21	159	-	2	-	1.3	280				B
	North Korea	24 Jul 2020	25-Jul-20	1	-	-	-	-	0				F
	Solomon Islands	03 Oct 2020	08-Feb-21	18	-	-	-	-	3				F
	Wallis et Futuna	17 Oct 2020	28-Mar-21	374	7	4	-	1.1	2,334		0.7		B
	Marshall Islands	26 Oct 2020	17-Nov-20	4	-			-	7				F
	Vanuatu	11 Nov 2020	08-Mar-21	3	-	-	-	-	1				F
	Samoa	18 Nov 2020	12-Feb-21	3	-	-	-	-	2				F
	Micronesia	11 Jan 2021	11-Jan-21	1	-			-	1				F
AMERICAS	USA	21 Jan 2020	28-Mar-21	30,933,275	16,133	562,150	137	1.8	9,424	110,746	1.0	14,990	C
	Canada	25 Jan 2020	28-Mar-21	964,517	3,442	22,874	22	2.4	2,538	70,984	1.1	1,760	E
	Brazil	26 Feb 2020	07-Mar-21	12,496,748	-	310,872	-	2.5	5,901		0.9	1,900	C

Mexico	28 Feb 2020	27-Mar-21	2,224,767	-	201,429	-	9.1	1,855	4,620	0.9	640	C
Saint Martin	01 Mar 2020	19-Mar-21	1,619	-	12	-	0.7	4,345		0.1		F
Ecuador	01 Mar 2020	28-Mar-21	324,482	1,783	16,738	59	5.2	1,899	6,225	1.1	220	E
Dominican Republic	01 Mar 2020	28-Mar-21	251,983	401	3,304	2	1.3	2,371	12,090	0.8		B
Chile	03 Mar 2020	28-Mar-21	977,243	7,330	22,754	101	2.3	5,218	57,719	1.1	17,040	E
Argentina	03 Mar 2020	27-Mar-21	2,301,389	-	55,368	-	2.4	5,172		1.1	1,460	E
Peru	05 Mar 2020	27-Mar-21	1,520,973	-	51,238	-	3.4	4,755		1.0	780	C
Costa Rica	06 Mar 2020	26-Mar-21	215,178	-	2,931	-	1.4	4,304	12,987	1.1	1,060	D
Colombia	06 Mar 2020	27-Mar-21	2,375,591	-	62,790	-	2.6	4,785	24,979	1.0	290	C
French Guiana	06 Mar 2020	24-Mar-21	16,922	-	89	-	0.5	8,655		1.7		D
Martinique	06 Mar 2020	23-Mar-21	7,710	-	49	-	0.6	1,781		1.0		C
Paraguay	07 Mar 2020	27-Mar-21	206,597	-	4,003	-	1.9	2,970	12,425	0.9		B
Panama	10 Mar 2020	27-Mar-21	353,497	-	6,090	-	1.7	8,463	50,077	0.8		B
Bolivia	10 Mar 2020	27-Mar-21	269,302	-	12,165	-	4.5	2,372	7,616	0.9	760	B
Honduras	11 Mar 2020	27-Mar-21	187,015	-	4,557	-	2.4	1,951		1.0		C
Cuba	11 Mar 2020	28-Mar-21	72,503	919	415	1	0.6	639	25,079	1.1		D
Guyana	11 Mar 2020	27-Mar-21	10,072	-	225	-	2.2	1,293		0.9		C
Jamaica	12 Mar 2020	28-Mar-21	38,227	480	570	4	1.5	1,303	9,200	0.7		B
St Vincent and the Grenadines	12 Mar 2020	28-Mar-21	1,738	15	10	-	0.6	1,577		1.8		D
Saint Lucia	13 Mar 2020	26-Mar-21	4,191	-	58	-	1.4	2,304		0.8		C
Trinidad and Tobago	13 Mar 2020	28-Mar-21	7,977	23	142	-	1.8	574	7,721	1.3		D
Venezuela	13 Mar 2020	27-Mar-21	155,663	-	1,555	-	1.0	539		0.8		C
Guatemala	13 Mar 2020	27-Mar-21	193,050	-	6,794	-	3.5	1,119	5,968	1.0		C
Uruguay	13 Mar 2020	27-Mar-21	95,278	-	901	-	0.9	2,762	37,009	1.1	10	E
Curacao	13 Mar 2020	27-Mar-21	7,335	-	30	-	0.4	4,589		1.3		D
Puerto Rico	13 Mar 2020	28-Mar-21	200,999	685	2,112	3	1.1	6,294		1.0	12,110	C
Suriname	13 Mar 2020	27-Mar-21	9,095	-	177	-	1.9	1,579		0.8		B
Antigua and Barbuda	13 Mar 2020	28-Mar-21	1,128	6	28	-	2.5	1,172				C
Guadeloupe	13 Mar 2020	24-Mar-21	11,298	-	165	-	1.5	2,550		1.0		B

Cayman Islands	13 Mar 2020	26-Mar-21	487	-	2	-	0.4	759			23,520	D	
Aruba	14 Mar 2020	27-Mar-21	9,214	-	82	-	0.9	8,705		1.1		D	
Bahamas	15 Mar 2020	23-Mar-21	8,935	-	188	-	2.1	2,317		1.0		B	
US Virgin Islands	16 Mar 2020	28-Mar-21	2,907	6	26	-	0.9	2,717			12,330	D	
Sint Maarten	17 Mar 2020	27-Mar-21	2,130	-	27	-	1.3	5,239				D	
Montserrat	17 Mar 2020	14-Feb-21	20	-	1	-	5.0	214				F	
Barbados	17 Mar 2020	27-Mar-21	3,609	-	41	-	1.1	1,259		0.5		B	
El Salvador	18 Mar 2020	24-Mar-21	63,766	-	2,000	2	3.1	993		0.4		C	
Nicaragua	18 Mar 2020	23-Mar-21	6,629	-	177	-	2.7	103		1.0		C	
Bermuda	18 Mar 2020	28-Mar-21	1,028	81	12	-	1.2	1,607			21,120	D	
Haiti	19 Mar 2020	25-Mar-21	12,736	-	251	-	2.0	115		0.5		B	
Dominica	22 Mar 2020	25-Mar-21	161	-	-	-	-	225				D	
Grenada	22 Mar 2020	26-Mar-21	155	-	1	-	0.6	139				D	
Belize	23 Mar 2020	26-Mar-21	12,415	-	317	-	2.6	3,241		0.8		C	
Turks and Caicos Islands	23 Mar 2020	28-Mar-21	2,326	1	17	-	0.7	6,175				B	
Saint Kitts and Nevis	24 Mar 2020	18-Mar-21	44	-	-	-	-	84				F	
British Virgin Islands	25 Mar 2020	26-Feb-21	153	-	1	-	0.7	513				F	
Anguilla	26 Mar 2020	19-Mar-21	22	-	-	-	-	166				F	
Caribbean Netherlands	01 Apr 2020	27-Mar-21	1,300	-	10	-	0.8	7,217		0.8		C	
Falkland Islands	03 Apr 2020	16-Feb-21	54	-	-	-	-	2,047				F	
Saint Pierre and Miquelon	05 Apr 2020	28-Jan-21	24	-	-	-	-	342				F	
Saint Barthelemy	25 Jul 2020	19-Mar-21	775	-	1	-	0.1	9,172				F	
EUROPE	France	24 Jan 2020	28-Mar-21	4,545,589	37,014	94,596	131	2.1	6,786		1.1	3,870	E
	Germany	27 Jan 2020	28-Mar-21	2,786,345	25,428	76,468	136	2.7	3,350	58,810	1.2	4,500	E
	Finland	29 Jan 2020	28-Mar-21	76,003	458	817	-	1.1	1,377	69,659	0.9	1,600	B
	Italy	30 Jan 2020	28-Mar-21	3,532,057	19,604	107,933	297	3.1	5,845	79,609	1.0	4,830	B
	Russian Federation	31 Jan 2020	28-Mar-21	4,519,832	9,088	97,740	336	2.2	3,128	82,257	1.0	2,950	B

Spain	31 Jan 2020	26-Mar-21	3,255,324	-	75,010	-	2.3	6,922		1.2	5,360	E
Sweden	31 Jan 2020	26-Mar-21	780,018	-	13,402	-	1.7	7,660		0.7	4,430	C
United Kingdom of Great Britain	31 Jan 2020	28-Mar-21	4,333,042	3,862	126,592	19	2.9	6,517	175,525	0.9	4,850	C
Belgium	05 Feb 2020	28-Mar-21	866,063	5,332	22,870	18	2.6	7,582	94,298	1.3	4,290	E
Switzerland	25 Feb 2020	28-Mar-21	592,217	-	10,300	1	1.7	6,954	57,188	1.1	5,830	E
Austria	25 Feb 2020	28-Mar-21	536,465	2,679	9,256	25	1.7	6,064	239,031	1.0	4,370	E
Croatia	25 Feb 2020	28-Mar-21	267,222	1,321	5,893	21	2.2	6,535	36,764	1.3	1,970	E
Norway	26 Feb 2020	28-Mar-21	92,858	389	656	-	0.7	1,747	84,109	0.9	4,980	B
Romania	26 Feb 2020	28-Mar-21	936,618	4,439	23,114	117	2.5	4,810	33,630	1.0	4,750	E
Estonia	26 Feb 2020	28-Mar-21	103,630	892	868	8	0.8	7,846	84,547	0.9	4,560	B
Georgia	26 Feb 2020	28-Mar-21	280,301	365	3,751	5	1.3	7,513		1.1		D
North Macedonia	26 Feb 2020	28-Mar-21	126,938	708	3,675	33	2.9	6,094	28,952	1.1		D
Greece	26 Feb 2020	28-Mar-21	254,031	1,441	7,880	54	3.1	2,368	58,794	1.0	5,260	C
Denmark	27 Feb 2020	28-Mar-21	228,013	964	2,414	1	1.1	3,933	355,126	0.8	6,240	B
San Marino	27 Feb 2020	27-Mar-21	4,603	-	84	-	1.8	13,624			4,940	C
Lithuania	27 Feb 2020	28-Mar-21	213,941	494	3,551	12	1.7	7,669		1.2	5,540	E
Netherlands	27 Feb 2020	28-Mar-21	1,252,437	7,430	16,465	15	1.3	7,269	43,290	1.1	3,530	E
Azerbaijan	27 Feb 2020	28-Mar-21	256,201	1,831	3,491	27	1.4	2,577		1.4		E
Belarus	28 Feb 2020	28-Mar-21	318,681	1,050	2,219	8	0.7	3,360	55,585	1.0	110	C
Iceland	28 Feb 2020	26-Mar-21	6,163	-	29	-	0.5	1,743	84,051	1.4	6,080	D
Ireland	28 Feb 2020	28-Mar-21	234,541	604	4,666	13	2.0	4,832	80,292	1.0	4,100	D
Monaco	29 Feb 2020	27-Mar-21	2,254	-	28	-	1.2	5,827			21,230	D
Czech Republic	01 Mar 2020	28-Mar-21	1,515,029	4,008	25,874	96	1.7	14,258		0.8	4,110	B
Luxembourg	01 Mar 2020	27-Mar-21	60,755	-	738	-	1.2	9,997	385,416	0.9	3,170	C
Armenia	01 Mar 2020	28-Mar-21	190,317	777	3,464	14	1.8	6,448	27,869	1.1		E
Latvia	02 Mar 2020	28-Mar-21	101,040	324	1,878	6	1.9	5,245	91,561	1.0	1,160	C
Portugal	02 Mar 2020	28-Mar-21	820,407	365	16,837	10	2.1	7,979	86,759	0.9	4,590	B
Andorra	02 Mar 2020	28-Mar-21	11,850	41	115	-	1.0	15,388		1.2	1,640	D
Liechtenstein	03 Mar 2020	28-Mar-21	2,658	9	56	-	2.1	7,011				D

MIDDLE EAST	Ukraine	03 Mar 2020	28-Mar-21	1,644,063	11,932	31,954	203	1.9	3,684	17,681	1.1	-	E
	Slovenia	04 Mar 2020	28-Mar-21	212,678	638	4,018	7	1.9	10,287	120,932	1.1	5,030	E
	Hungary	04 Mar 2020	28-Mar-21	633,861	9,082	19,972	220	3.2	6,489	40,873	1.0	7,100	E
	Poland	04 Mar 2020	28-Mar-21	2,250,991	29,266	51,884	131	2.3	5,927	30,288	1.2	5,200	E
	Faroe Islands	04 Mar 2020	14-Mar-21	661	-	1	-	0.2	1,363			7,790	F
	Bosnia and Herzegovina	05 Mar 2020	26-Mar-21	162,032	-	6,220	-	3.8	4,875	22,991	1.1		E
	Gibraltar	05 Mar 2020	26-Mar-21	4,273	-	94	-	2.2	12,673		1.0	76,390	C
	Slovakia	06 Mar 2020	28-Mar-21	357,910	925	9,496	70	2.7	6,571	428,416	0.9	4,680	B
	Serbia	06 Mar 2020	28-Mar-21	585,506	3,889	5,190	39	0.9	8,386	47,704	1.0	13,470	B
	Vatican City	06 Mar 2020	17-Oct-20	27	-	-	-	-	2,932				F
	Malta	07 Mar 2020	28-Mar-21	28,875	67	387	2	1.3	5,972	164,550	0.6	11,340	B
	Moldova	07 Mar 2020	28-Mar-21	226,521	861	4,827	42	2.1	6,388		1.0		E
	Bulgaria	08 Mar 2020	27-Mar-21	327,770	-	12,650	-	3.9	4,682	28,914	1.0	1,260	C
	Albania	09 Mar 2020	28-Mar-21	124,134	493	2,210	6	1.8	4,331	18,040	0.9	20	B
	Cyprus	09 Mar 2020	27-Mar-21	44,305	-	250	-	0.6	3,725	281,037	0.8	4,110	B
	Channel Islands	09 Mar 2020	27-Feb-21	821	-	17	-	2.1	1,259			7,960	F
	Jersey	10 Mar 2020	23-Mar-21	3,225	-	69	-	2.1	3,551		1.4	3,280	C
	Kazakhstan	13 Mar 2020	28-Mar-21	240,381	1,596	2,994	14	1.2	1,315	46,277	1.1	100	C
	Kosovo	13 Mar 2020	28-Mar-21	87,024	873	1,820	11	2.1	4,716		1.1		D
	Uzbekistan	15 Mar 2020	28-Mar-21	82,340	194	626	1	0.8	250		1.2		D
	Greenland	16 Mar 2020	04-Mar-21	31	-	-	-	-	55				F
	Montenegro	17 Mar 2020	28-Mar-21	90,083	351	1,245	4	1.4	14,475		0.9	250	B
	Kyrgyzstan	18 Mar 2020	28-Mar-21	88,092	146	1,495	1	1.7	1,395		1.2		D
	Isle of Man	19 Mar 2020	27-Mar-21	1,555	-	27	-	1.7	1,849		0.4	13,340	B
Tajikistan	30 Apr 2020	10-Jan-21	13,308	-	90	-	0.7	146		5.0		F	
UAE	29 Jan 2020	28-Mar-21	455,197	2,128	1,481	4	0.3	4,726	376,366	1.0	22,120	D	
Iran	19 Feb 2020	28-Mar-21	1,855,674	8,751	62,397	89	3.4	2,269		1.0		C	
Israel	21 Feb 2020	28-Mar-21	831,924	541	6,185	20	0.7	9,365	166,358	0.6	54,350	B	
Lebanon	21 Feb 2020	28-Mar-21	461,062	2,724	6,096	38	1.3	6,732		1.0	1,020	C	
Kuwait	24 Feb 2020	28-Mar-21	228,299	1,121	1,286	7	0.6	5,518	48,473	1.0	890	B	
Oman	24 Feb 2020	28-Mar-21	156,087	2,249	1,661	11	1.1	3,232		1.2	370	E	
Bahrain	24 Feb 2020	27-Mar-21	140,818	-	513	-	0.4	8,973	221,943	0.9	14,450	C	

	Iraq	24 Feb 2020	28-Mar-21	832,428	5,271	14,212	35	1.7	2,166	20,278	1.1		E
	Qatar	29 Feb 2020	28-Mar-21	177,774	639	284	-	0.2	6,391	60,915	1.1		D
	Saudi Arabia	02 Mar 2020	28-Mar-21	388,325	531	6,650	7	1.7	1,152	43,955	1.2		D
	Jordan	02 Mar 2020	28-Mar-21	589,316	7,183	6,554	82	1.1	5,919	56,893	0.9	680	B
	Palestine	05 Mar 2020	28-Mar-21	264,934	1,714	2,834	24	1.1	5,798		0.9		B
	Syria	22 Mar 2020	27-Mar-21	18,356	-	1,227	-	6.7	109		0.9		C
	Yemen	10 Apr 2020	28-Mar-21	4,033	64	851	19	21.1	14		1.0		C
AFRICA	Egypt	14 Feb 2020	27-Mar-21	199,364	-	11,845	-	5.9	203		0.9		C
	Algeria	25 Feb 2020	28-Mar-21	116,836	86	3,080	3	2.6	277		0.9		B
	Nigeria	28 Feb 2020	27-Mar-21	162,489	-	2,041	-	1.3	83	882	0.8		B
	Tunisia	02 Mar 2020	28-Mar-21	250,565	862	8,735	30	3.5	2,167		1.2		E
	Morocco	02 Mar 2020	28-Mar-21	494,659	301	8,798	-	1.8	1,373	15,019	1.1	9,030	D
	Senegal	02 Mar 2020	28-Mar-21	38,520	64	1,037	3	2.7	243	2,779	0.8		B
	South Africa	05 Mar 2020	28-Mar-21	1,545,431	965	52,663	15	3.4	2,675	16,827	1.0	390	C
	Cameroon	06 Mar 2020	25-Mar-21	47,669	-	721	-	1.5	189		2.2		E
	Togo	06 Mar 2020	28-Mar-21	9,827	151	107	-	1.1	125	3,393	1.1		C
	Burkina Faso	09 Mar 2020	27-Mar-21	12,673	-	145	-	1.1	64		0.8		B
	Democratic Republic of Congo	10 Mar 2020	28-Mar-21	27,930	43	739	5	2.6	33		0.8		B
	Ivory Coast	11 Mar 2020	28-Mar-21	43,180	319	237	5	0.5	172	1,983	1.0		C
	Reunion	11 Mar 2020	23-Mar-21	15,561	-	102	-	0.7	2,003		0.7		C
	Ghana	13 Mar 2020	28-Mar-21	90,287	-	740	-	0.8	303	3,290	0.4		B
	Guinea	13 Mar 2020	26-Mar-21	19,670	169	120	4	0.6	158		0.9		C
	Gabon	13 Mar 2020	27-Mar-21	18,777	-	111	-	0.6	886		1.0		C
	Sudan	13 Mar 2020	24-Mar-21	29,661	-	2,028	-	6.8	71		0.5		C
	Kenya	13 Mar 2020	28-Mar-21	130,214	884	2,117	13	1.6	253		1.1		E
	Ethiopia	13 Mar 2020	28-Mar-21	200,563	1,769	2,801	17	1.4	184	2,087	1.1		E
	Central African Republic	14 Mar 2020	24-Mar-21	5,088	-	64	-	1.3	109		0.1		B
Seychelles	14 Mar 2020	28-Mar-21	4,084	88	20	-	0.5	4,221		0.8	33,950	B	
Rwanda	14 Mar 2020	28-Mar-21	21,419	49	301	-	1.4	174	8,964	1.0		C	
Namibia	14 Mar 2020	28-Mar-21	43,632	133	509	1	1.2	1,782	13,807	0.9		C	
Swaziland	14 Mar 2020	28-Mar-21	17,321	3	667	1	3.9	1,524		0.8		B	
Mauritania	14 Mar 2020	27-Mar-21	17,756	-	448	-	2.5	403		0.9		C	
Mayotte	14 Mar 2020	25-Mar-21	19,306	-	154	-	0.8	12,139		1.0		C	
Equatorial Guinea	15 Mar 2020	27-Mar-21	6,902	-	102	-	1.5	527		0.6	60	C	
Republic of Congo	15 Mar 2020	24-Mar-21	9,681	-	135	-	1.4	185		0.6		C	

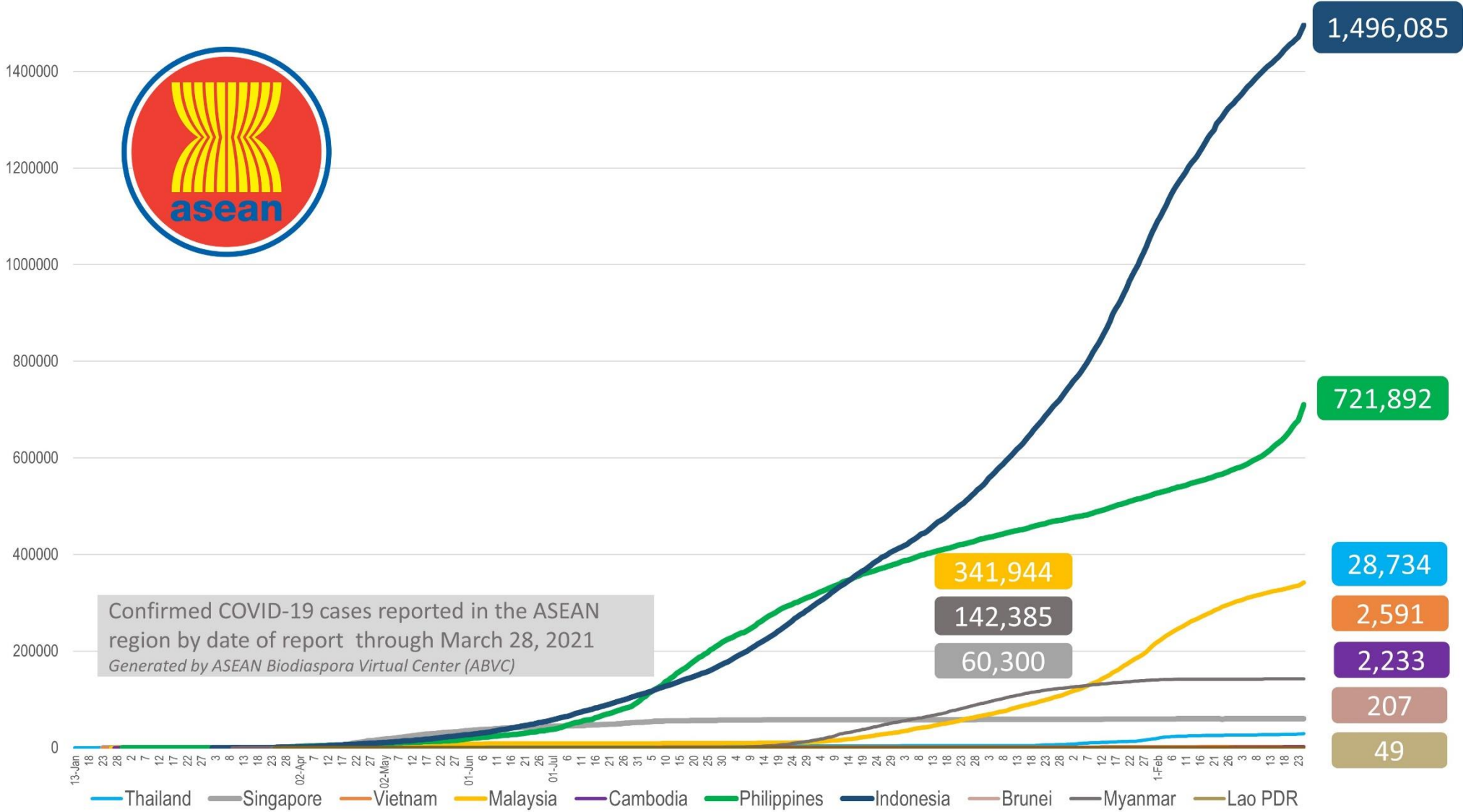
Benin	16 Mar 2020	24-Mar-21	7,100	-	90	-	1.3	62		0.7		C
Liberia	16 Mar 2020	17-Mar-21	2,042	-	85	-	4.2	42				F
Tanzania	16 Mar 2020	09-May-20	509	-	21	-	4.1	1		5.0		F
Somalia	16 Mar 2020	27-Mar-21	10,838	-	488	-	4.5	72		0.8		C
Gambia	17 Mar 2020	28-Mar-21	5,401	36	163	-	3.0	237		0.7		C
Zambia	17 Mar 2020	28-Mar-21	87,872	289	1,200	2	1.4	506	7,024	0.9		B
Mauritius	18 Mar 2020	28-Mar-21	933	33	10	-	1.1	74				C
Djibouti	18 Mar 2020	28-Mar-21	7,361	112	67	1	0.9	768		1.6		D
Niger	19 Mar 2020	28-Mar-21	4,987	15	185	-	3.7	22		1.2		C
Chad	19 Mar 2020	28-Mar-21	4,506	5	162	2	3.6	29				B
Zimbabwe	20 Mar 2020	27-Mar-21	36,818	-	1,519	-	4.1	255	2,934	0.9		B
Cape Verde	20 Mar 2020	27-Mar-21	17,018	-	165	-	1.0	3,130		1.2		D
Madagascar	20 Mar 2020	28-Mar-21	23,585	161	387	6	1.6	90		0.9		C
Uganda	21 Mar 2020	28-Mar-21	40,794	27	335	-	0.8	95	2,165	1.1		C
Eritrea	21 Mar 2020	28-Mar-21	3,208	-	9	-	0.3	90		1.0		C
Angola	21 Mar 2020	28-Mar-21	22,063	32	533	-	2.4	72		1.0		C
Mozambique	22 Mar 2020	28-Mar-21	67,197	186	764	2	1.1	228	1,597	0.7		B
Libya	24 Mar 2020	28-Mar-21	156,849	733	2,618	16	1.7	2,349		0.9		B
Guinea-Bissau	25 Mar 2020	28-Mar-21	3,634	4	61	-	1.7	194		0.6		B
Mali	25 Mar 2020	28-Mar-21	9,871	98	379	3	3.8	52		1.1		D
Botswana	30 Mar 2020	25-Mar-21	38,466	-	506	-	1.3	1,706		1.2		D
Sierra Leone	31 Mar 2020	28-Mar-21	3,970	8	79	-	2.0	52		2.0		C
Burundi	31 Mar 2020	28-Mar-21	2,757	100	6	-	0.2	25		1.1		C
Malawi	02 Apr 2020	28-Mar-21	33,481	23	1,114	1	3.3	191	1,221	0.7		B
South Sudan	05 Apr 2020	28-Mar-21	10,098	19	108	-	1.1	122	1,554	0.7		B
Sao Tome and Principe	06 Apr 2020	28-Mar-21	2,212	2	34	-	1.5	1,119		1.0		C
Comoros	30 Apr 2020	27-Mar-21	3,690	-	146	-	4.0	443		0.8		C
Lesotho	13May 2020	24-Mar-21	10,686	-	315	-	2.9	507		1.4		C
			123,348,228	436,028	2,704,104	5,527	2.2					

*time-varying reproduction number (Rt)

**Country Category by rate of change of new COVID-19 cases over the past week (represented by seven-day rolling averages): <100 cases (A), significantly decreasing (B), stable rate (C), significantly increasing moderate rate (D), significantly increasing high rate (E), insufficient data (F)

COVID-19 Epi curve among ASEAN Countries

as of 28 March 2021



ASEAN Country Categorization

as of 27 March 2021

Country	Category
Brunei	B – Significantly decreasing rate of new cases
Cambodia	C – Stable rate of new cases
Indonesia	B - Significantly decreasing rate of new cases
Lao PDR	F - Insufficient information or no new case reports in 7 days
Malaysia	C - Stable rate of new cases
Myanmar	D - Significantly increasing rate of new cases (moderate rate of change)
Philippines	E - Significantly increasing rate of new cases (high rate of change)
Singapore	D - Significantly increasing rate of new cases (moderate rate of change)
Thailand	D - Significantly increasing rate of new cases (moderate rate of change)
Vietnam	B - Significantly decreasing rate of new cases



Report generated by
ASEAN Biodiaspora Virtual Center (ABVC)
 in collaboration with **Bluedot Inc.**
 Email: support@biodiaspora.org

