

COVID-19, Mpox, and Other Infectious Diseases

# Situational Report in the ASEAN Region

— ASEAN BioDiaspora Virtual Center (ABVC)

December 14, 2022 | Issue No. 426



## ASSOCIATION OF SOUTHEAST ASIAN NATIONS



## ASEAN BIODIASPORA VIRTUAL CENTER (ABVC)



## GLOBAL PARTNERS





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## COVID-19: Highlights and Situation Overview

### Global Update

- **Worldwide**, there have been over 646 million cases and over 6 million deaths attributed to COVID-19.

### Regional Update

- **Cambodia**: Prime Minister Hun Sen said that the government has spent more than \$2 billion to tackle the COVID-19 outbreak while speaking to a group of roughly 2,000 Cambodians in Brussels, Belgium.<sup>9</sup> The prime minister is in Brussels for the ASEAN-EU Commemorative Summit on December 14, which he will co-chair with European Council President Charles Michel.<sup>9</sup> The event will commemorate the 45th anniversary of the ASEAN-EU Dialogue Partnership.<sup>9</sup> He also emphasized the disdain that certain industrialized countries appeared to have for the Kingdom's control over the pandemic.<sup>9</sup> The three dos and three don'ts policy, as well as the Kingdom's incredibly effective vaccination campaign, which resulted in an immunization rate of more than 96%, were the two most essential measures adopted by the Kingdom, he noted.<sup>9</sup> He stated that, despite Cambodia's poverty, the government had not hesitated to invest its reserves to ensure that immunizations were free for all Kingdom residents.<sup>9</sup> [\[Full Article\]](#)
- **Philippines**: The Department of Health (DOH) reported a modest increase in COVID-19 cases statewide on December 13, according to its officer-in-charge Maria Rosario Vergeire.<sup>10</sup> Vergeire stated that COVID-19 cases nationwide are six percent higher than the "prior two weeks," with an average of 1,181 new cases each day.<sup>10</sup> Despite this, the official stated that there is no reason to fear because the healthcare system across the country is not overburdened.<sup>10</sup> [\[Full Article\]](#)
- **Thailand**: On December 12, Pisit Mitkuakun, president of the Radio Control Airplane Modeller Sport Association (RCSA), stated that the research team was a partnership between RCSA, Rajavithi Hospital, Mahidol University, and the private sector, with funding from the NRCT.<sup>11</sup> The tool will be novel for screening COVID-19 because it will not require nasal swabs, blood tests, or saliva samples.<sup>11</sup> According to Pisit, the test has excellent sensitivity and specificity because it just takes five minutes to get a response, so patients will be checked fast to receive rapid treatment and limit the risk of spreading in a large region.<sup>11</sup> He stated that the research team is working to improve the instrument so that it can generate CT values equivalent to RT-PCR tests.<sup>11</sup> [\[Full Article\]](#)

### Vaccine Update

- **Brunei Darussalam** has one of the highest immunization rates in the world, with more than 100% of the Sultanate's total population receiving two doses of the COVID-19 vaccine, and more than 75% receiving three doses.<sup>8</sup> This was said by Dato Seri Setia Dr Haji Mohd Isham bin Haji Jaafar, Minister of Health, during a press conference on December 12.<sup>8</sup> Similarly, children aged five to eleven who had two doses of the vaccination achieved 87%, almost identical to those who received the first dose, which was 93%.<sup>8</sup>

### Research Update (Published and peer-reviewed studies)

- The study ***Nirmatrelvir Plus Ritonavir for Early COVID-19 in a Large U.S. Health System*** found that the antiviral drug Paxlovid drove down the risk of COVID-19 hospitalization or death by 44% in a highly vaccinated group of US adults aged 50 and



older.<sup>6</sup> The researchers studied the risk of hospitalization by 14 days and death by 28 days among 44,551 non-hospitalized COVID-19 patients aged 50 and older prescribed Paxlovid (nirmatrelvir-ritonavir) amid Omicron variant predominance from January to July 2022.<sup>6</sup> In the study, a total of 28.1% of patients were prescribed Paxlovid, 71.9% were not, and 90.3% of all participants had received at least three COVID-19 vaccine doses.<sup>6</sup> Researchers noted that the risk reductions were comparable across age groups, comorbidity scores, and body mass index (BMI) groups, but Paxlovid was tied to increased protection among the partially vaccinated (81% risk reduction) and those who received their most recent vaccine dose more than 20 weeks earlier.<sup>6</sup> [\[Full Text\]](#)

### **Travel Update**

- **Hong Kong** will ease some of its COVID-19 restrictions on international travelers visiting the Chinese territory starting December 14 (Wednesday). Travelers will be allowed to roam the city freely and will also no longer have to scan a QR code on their smartphones to enter venues. However, some establishments, including restaurants, will still require proof of a COVID-19 vaccination. Hong Kong's move to relax COVID-19 restrictions for travelers comes after authorities in mainland China started to lift some of their strict zero-COVID restrictions. There will be no more checkpoint PCR tests required for cross-border travelers from Hong Kong to Macau and mainland China but travelers will still need a negative PCR result taken within 48 hours of entry.



## Cases and Deaths as of 14 December 2022

- As of 14 December 2022 (2PM, GMT+8), worldwide, there were **646,987,654** confirmed cases, including **6,665,279** deaths. Globally, Case Fatality Rate (CFR) was **1.2%**.
- 35,431,217 confirmed cases** of COVID-19 have been reported in the **ASEAN Region**.
- The Case Fatality Rate in the **ASEAN Region** is range between **0.1 to 3.1%**

### COVID-19 cases in ASEAN region

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST REPORT ON CONFIRMED CASE(S)	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS	CUMULATIVE CASES/ 100,000	CUMULATIVE VACCINATED	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTERED	FULLY VACCINATED/ 100
ASEAN REGION	Brunei Darussalam	10 Mar 20	13-Dec-22	261,440	-	225	-	60,339	450,404	445,929	338,987	99.3
	Cambodia	27 Jan 20	13-Dec-22	138,302	26	3,056	-	839	15,226,312	14,590,810	10,358,897	87.0
	Indonesia	02 Mar 20	13-Dec-22	6,702,132	2,117	160,287	32	2,477	203,715,848	174,119,714	66,624,569	63.2
	Lao PDR	24 Mar 20	13-Dec-22	217,237	76	758	-	3,030	5,888,649	5,222,417		69.4
	Malaysia	25 Jan 20	13-Dec-22	5,012,483	1,040	36,778	9	15,689	28,117,401	27,528,452	16,877,358	81.1
	Myanmar	23 Mar 20	13-Dec-22	633,475	18	19,488	-	1,172	34,777,314	27,545,329	2,227,351	50.8
	Philippines	30 Jan 20	13-Dec-22	4,050,866	821	64,921	19	3,747	78,196,194	73,738,568	20,946,059	63.8
	Singapore	23 Jan 20	13-Dec-22	2,178,405	740	1,707	-	38,194	5,156,279	5,113,405	4,440,289	90.7
	Thailand	13 Jan 20	13-Dec-22	4,715,489	-	33,392	-	6,773	57,005,497	53,486,086	32,143,431	74.6
	Vietnam	23 Jan 20	13-Dec-22	11,521,388	366	43,179	1	11,944	90,156,999	84,690,714	56,988,856	86.3
ASEAN COUNTRIES				35,431,217	5,204	363,791	61	144,202	518,690,897	466,481,424	210,945,797	

\*There have been no tests reported in the last 14 days in the ASEAN Region.

### COVID-19 cases in Asia-Pacific region

REGION	COUNTRY/ TERRITORY	FIRST CONFIRMED CASE(S)	LATEST REPORT ON CONFIRMED CASE(S)	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS	CUMULATIVE CASES/ 100,000	CUMULATIVE VACCINATED	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTERED	FULLY VACCINATED/ 100
ASIA-PACIFIC REGION	Afghanistan	24-Feb-20	13-Dec-22	206,743	41	7,843	3	543	11,320,910	10,615,628		25.8
	Australia	25-Jan-20	13-Dec-22	10,861,411	110,663	16,438	214	42,345	22,235,551	21,656,364	19,613,644	82.7
	Bangladesh	08-Mar-20	12-Dec-22	2,036,825	-	29,437	-	1,249	149,138,275	125,670,627	60,611,619	73.4
	Bhutan	05-Mar-20	06-Dec-22	62,512	-	21	-	8,192	699,116	677,669	634,641	86.6
	People's Republic of China*		13-Dec-22	11,142,309	33,191	30,984	0	66,735	1,334,003,248	1,300,815,376	209,906,904	89.1
	Cook Islands	17-Feb-22	14-Sep-22	6,389	-	1	-	29,872	15,084	14,715	10,209	86.4
	Fiji	18-Mar-20	04-Dec-22	68,451	-	878	-	7,692	711,429	640,282	169,174	68.9
	French Polynesia	12-Mar-20	13-Dec-22	77,646	371	649	-	27,802	190,765	186,059	112,237	60.8
	Guam	15-Mar-20	12-Dec-22	59,574	-	410	-	35,610	158,105	143,551		85.2
	India	30-Jan-20	13-Dec-22	44,675,095	114	530,658	-	3,270	1,027,087,217	950,909,151	221,686,727	67.1



Japan	16-Jan-20	19-Oct-22	21,858,528	-	46,014	-	17,312	104,463,749	103,036,970	150,730,081	83.1
Kiribati	25-Jan-22	25-Jul-22	3,430	-	13	-	2,917	96,184	73,888	23,419	56.3
Maldives	07-Mar-20	13-Dec-22	185,651	19	311	-	34,966	399,146	385,076	167,176	73.5
Marshall Islands	26-Oct-20	09-Dec-22	15,547	-	17	-	26,445	42,920	34,305		44.1
Micronesia	11-Jan-21	31-Oct-22	22,203	-	55	-	19,508	83,562	70,339		68.7
Mongolia	10-Mar-20	10-Dec-22	993,997	-	2,179	-	30,820	2,272,965	2,175,617	1,044,337	64.0
Nepal	24-Jan-20	13-Dec-22	1,000,941	2	12,019	-	3,499	27,398,529	23,857,858	8,674,375	78.1
New Caledonia	17-Mar-20	13-Dec-22	78,244	1,117	314	-	27,187	191,660	184,116	93,983	63.5
New Zealand	28-Feb-20	12-Dec-22	2,019,685	-	3,371	-	41,076	4,299,152	4,137,155	3,479,861	79.8
Niue	03-Sep-21	09-Dec-22	191	-	-	-	8,818	1,255		1,153	62.9
Northern Mariana Islands	28-Mar-20	07-Dec-22	13,227	-	41	-	23,118	46,340	43,770		84.4
Pakistan	26-Feb-20	13-Dec-22	1,575,487	7	30,635	-	727	139,644,465	132,317,738	48,935,695	56.1
Palau	31-May-21	13-Dec-22	5,933	37	9	2	32,946	20,714	18,458		85.7
Papua New Guinea	21-Mar-20	13-Dec-22	46,457	210	669	1	529	364,894	304,687	30,676	3.0
Samoa	18-Nov-20	25-Nov-22	15,967	-	29	-	8,101	231,546	215,077	79,061	96.7
Solomon Islands	03-Oct-20	24-Nov-22	24,575	-	153	-	3,669	343,821	254,352	27,783	35.1
Republic of Korea**	20-Jan-20	13-Dec-22	27,909,479	84,543	31,158	46	53,974	45,134,185	44,704,644	41,324,379	86.3
Sri Lanka	27-Jan-20	13-Dec-22	671,770	9	16,809	1	3,081	17,143,761	14,752,827	8,220,002	67.6
Timor Leste	21-Mar-20	10-Dec-22	23,364	-	138	-	1,807	872,617	779,475	291,233	58.1
Tonga	05-Nov-21	06-Sep-22	16,182	-	12	-	15,486	91,949	77,464	38,331	72.5
Türkiye	10-Mar-20	12-Dec-22	17,041,315	-	101,487	-	20,426	57,941,051	53,176,961	41,425,329	62.3
Vanuatu	11-Nov-20	02-Nov-22	11,952	-	14	-	3,986	144,824	131,697	16,996	40.3
Wallis et Futuna	17-Oct-20	28-Jul-22	761	-	7	-	4,749	7,136	6,794	3,742	58.6
ASIA PACIFIC			142,731,841	230,324	862,773	267	608,454	2,946,796,125	2,792,069,917	817,352,767	

\*Includes cases from Hong Kong (SAR), Macau (SAR), and Republic of China (Taiwan)

\*\*Republic of Korea – South Korea

- **468,824,596 confirmed cases** of COVID-19 have been reported in other **4 regions** (other than ASEAN and Asia-Pacific countries):

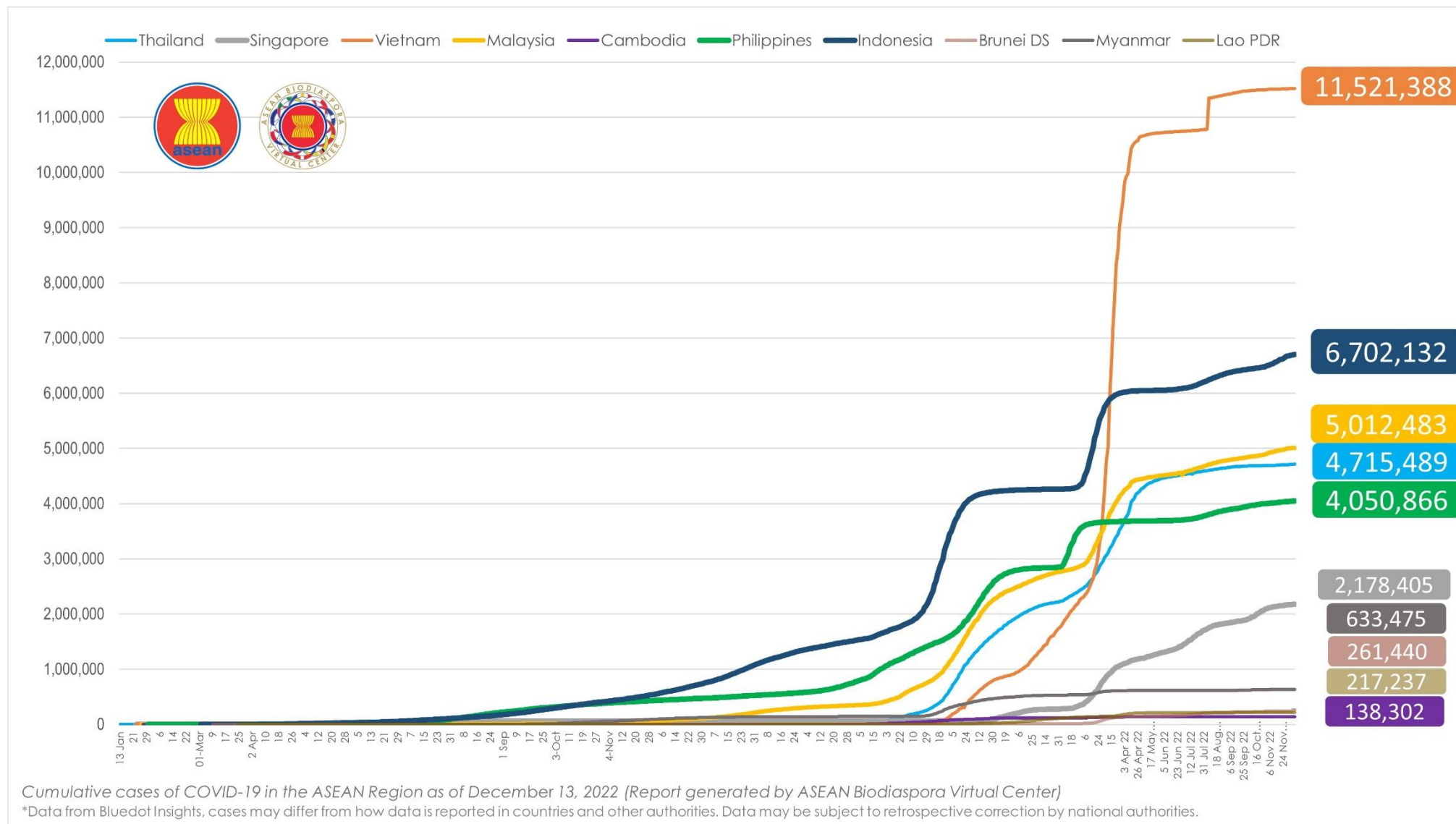
REGION	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS	CUMULATIVE CASES/ 100,000	CUMULATIVE VACCINATED	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTERED
AFRICA	12,987,072	816	259,210	3	12,987,072	246,828	456,803,234	371,428,151
AMERICAS	186,883,718	36,857	2,913,216	442	186,883,718	1,219,806	833,088,875	732,620,347
EUROPE	246,331,304	206,673	2,027,565	1,082	246,331,304	2,075,849	568,607,674	539,597,834
MIDDLE EAST	22,622,502	2,628	238,724	3	22,622,502	214,749	144,506,725	129,815,862
TOTAL	468,824,596	246,974	5,438,715	1,530	3,757,232	2,003,006,508	1,773,462,194	981,377,332





# COVID-19 Epi curve among ASEAN Countries:

From January 1, 2021 to December 13, 2022

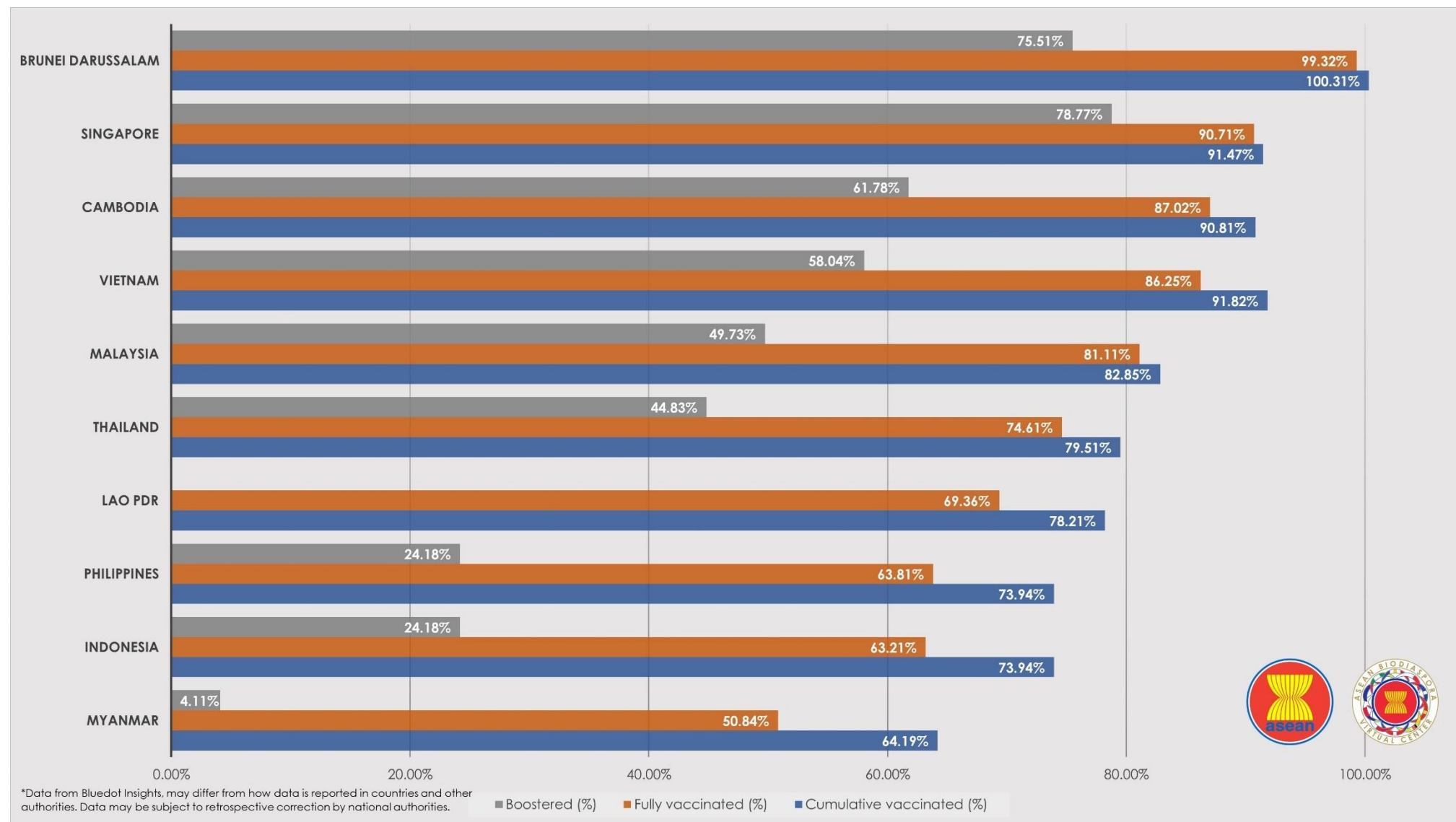






# ASEAN COVID-19 Vaccination Status


as of 13 December 2022





# ASEAN COVID-19 Outlook Assessment

as of 11 December 2022

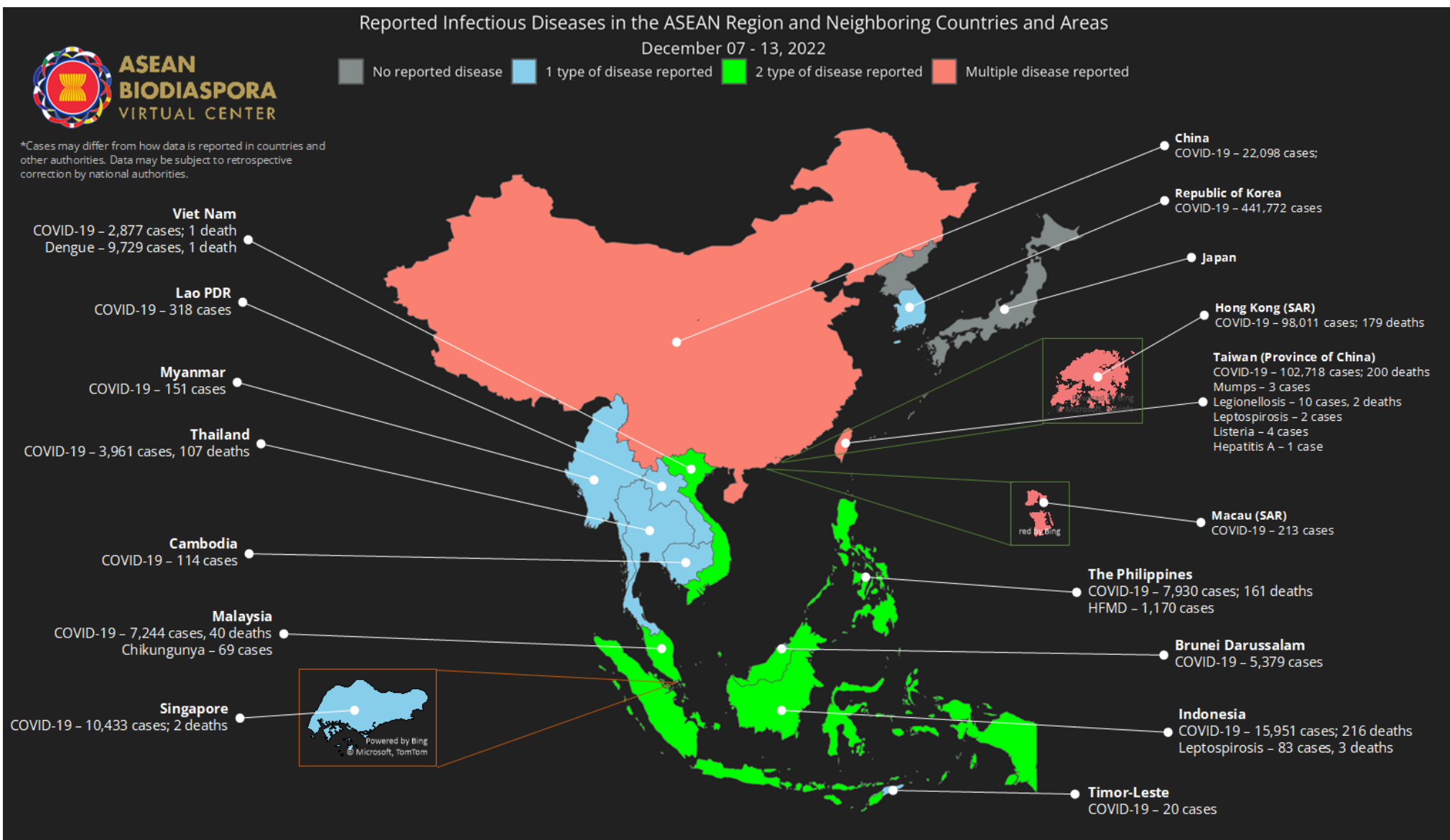
 <b>ASEAN MEMBER STATE</b>	<p>At least <b>65% of the total population has a level of immunity</b> to COVID-19; either recovered from COVID-19 or have been vaccinated with at least one dose of a COVID-19 vaccine.</p> <p><b>Case levels are generally low</b> (a 7-day rolling average number of daily new cases that is &lt;10 cases per 100,000, with each day's past-14-day test positivity is consistently &lt;5%).</p> <p><b>Government Policy</b> on containment and health (strictness and comprehensiveness in COVID-19 related government policies)</p>			
	% of Total population fully vaccinated / boosted	Population vaccinated/ day (7-day average)	Daily cases/ 100,000	Containment and health index score - Oxford COVID-19 Government Response Tracker (OxCGRT)
Brunei Darussalam	≥90.0/75.5	Unknown	672.47	31.0/100
Cambodia	≥90.0/61.8	Unknown	0.10	31.5/100
Indonesia	66.7/24.2	Unknown	0.93	54.2/100
Lao PDR	77.3/ND	Unknown	0.63	61.6/100
Malaysia	84.5/49.7	0%/day	4.26	51.8/100
Myanmar	52.1/4.1	Unknown	0.04	69.1/100
Philippines	71.4/18.1	Unknown	1.04	55.4/100
Singapore	≥90.0/78.8	Unknown	21.67	58.9/100
Thailand	77.7/44.8	Unknown	0.81	31.5/100
Vietnam	≥90.0/58.0	Unknown	0.43	43.5/100

All of the countries have achieved the Population vaccinated/ day (7-day average) except Vietnam



# Infectious Diseases in ASEAN Region and Neighboring Countries

From December 7-13, 2022





# Infectious Diseases Other than COVID-19 and Mpox

December 7-13, 2022

## Infectious Disease Update Globally

### Influenza

- **USA:** The US Centers for Disease Control and Prevention (CDC) reported in its latest weekly report that the flu activity remained at very high levels last week in the country, as hospitalizations soared and states reported seven more pediatric deaths. Most flu markers such as outpatient visits for flu-like illness and the percentage of respiratory samples positive for flu remained at high levels, similar to the previous week where 46 of the states reported flu at high or very high levels. The US Department of Health and Human Services surveillance shows that 25,906 individuals were hospitalized with lab-confirmed flu infections last week, up from more than 19,000 reported the week before. The cumulative hospitalization rate is 9.6 times higher than the highest cumulative rate for this point of the year since the 2010-11 season. According to the report, most hospitalizations were due to influenza A, whereas in subtyped samples, 80% were H3N2. Seniors continue to be the hardest-hit group for hospitalizations, followed by children ages 0 to age 4. [[Full Report](#)]

### Malaria

- **Worldwide:** The World Health Organization (WHO) reported that both cases and deaths of Malaria remained relatively stable in 2021. Although there were 247 million cases of malaria globally in 2021, infections increased at a slower rate from 245 million cases in 2020. The number of malaria-related deaths has declined to 619,000 in 2021, down from 625,000 in 2020. According to the WHO Global Malaria Program's strategic information response unit, the COVID-19 pandemic has caused considerable service disruptions resulting in increases in the malaria burden in many countries. According to the report, 95% of cases and 96% of deaths globally were in the African region among the 84 malaria-endemic nations across WHO regions. Additionally, WHO noted the emergence of the *Anopheles stephensi* mosquito, an invasive malaria vector native to Southern Asia that made its way through shipping routes in Djibouti and has spread west to Ethiopia. Additionally, WHO said that it is expecting vaccines to play a significant role against malaria, with several in development with RTS,S/AS01 (RTS,S) already in use. Furthermore, the early trial results for a monoclonal antibody showed the single-dose preventive treatment has prevented malaria infection in adults during malaria season in Mali. [[Full Report](#)]

## Infectious Disease in ASEAN region and Neighboring Countries Updates

### Chikungunya

- **Malaysia:** Tan Sri Dr. Noor Hisham Abdullah, director-general of health, said chikungunya surveillance reported 21 cases in the 48th ME, with 20 cases in Penang and one in Selangor.<sup>3</sup> "The accumulative number of chikungunya cases to date is 731 cases. For surveillance on Zika, a total of 2,003 blood samples and 17 urine samples were screened for Zika and the results were all negative," he said.<sup>3</sup> [[Full Article](#)]

### Leptospirosis

- **Indonesia:** Rainy season arrival must be matched with increasing public awareness. This attention is related not only to hydrometeorological disasters, but also to many diseases



that emerge during the rainy season, one of which is Leptospirosis.<sup>4</sup> According to data from the DIY Health Service (Dinkes), there were 181 instances of leptospirosis discovered in the DI Yogyakarta area between November 2022 and November 2023.<sup>4</sup> 10 leptospirosis patients were declared deceased among the hundreds of infections discovered.<sup>4</sup> Setyarini Hestu Lestari, the Head of the DIY Health Office's Disease Control Division, explained that the most common leptospirosis sufferers were located in Bantul Regency, with 102 cases and one death.<sup>4</sup> Then there were 33 instances from Sleman Regency, with three individuals dying.<sup>4</sup> Meanwhile, there were 27 instances in Gunungkidul, with three deaths, and 10 cases in Kulonprogo, with one death. Meanwhile, the city of Yogyakarta has 9 instances, two of which have died.<sup>4</sup> [\[Full Article\]](#)

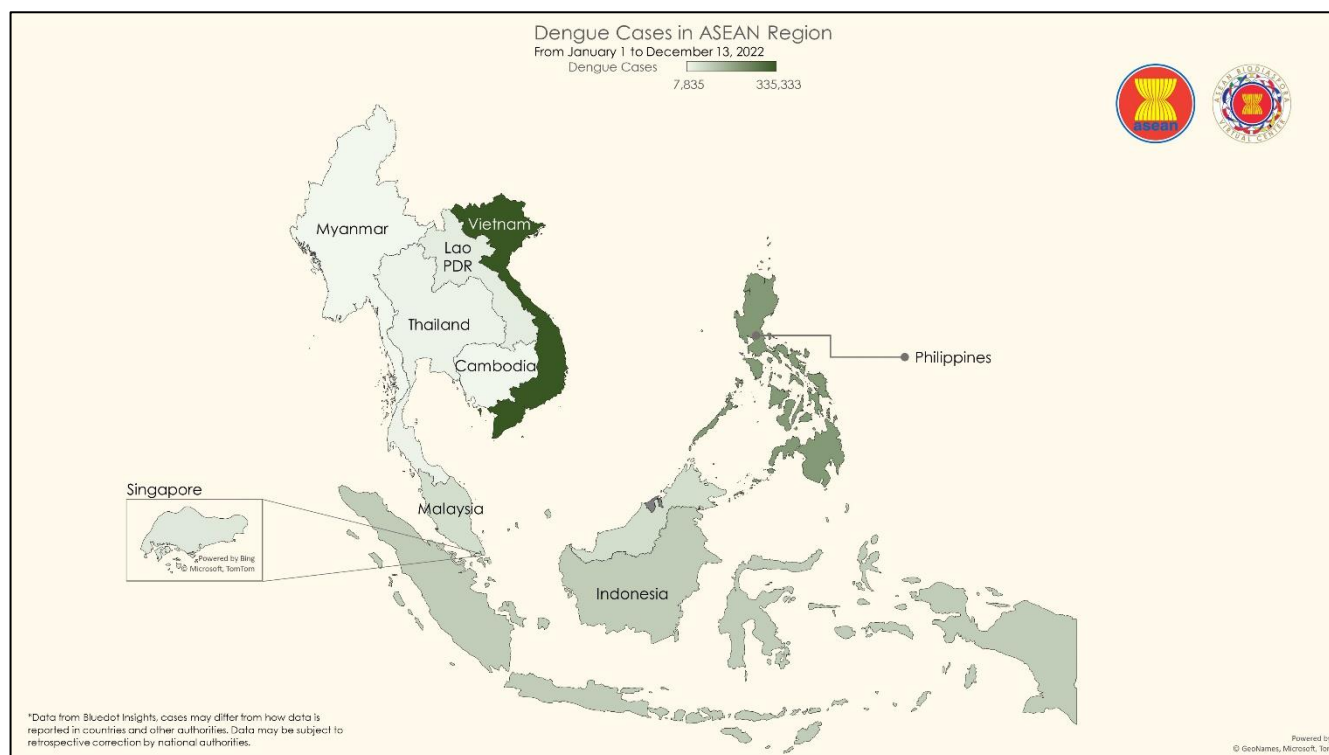
### **Hand, Foot, and Mouth Disease (HFMD)**

- Philippines:** According to the regional Department of Health (DOH) on Dec. 13, there has been an increase in the number of cases of hand, foot, and mouth disease (HFMD) in the Ilocos region, with health officials attributing the increase to "clustering of cases" in childcare facilities and elementary schools.<sup>5</sup> According to Dr. Rheuel Bobis, regional DOH medical officer, 1,170 suspected HFMD cases have been identified in the region since January.<sup>5</sup> At least 197 of these cases were "laboratory confirmed," he noted.<sup>5</sup> According to Bobis, the region's most recent surveillance report revealed a clustering of cases in various daycare centers and elementary schools in at least 16 municipalities across Ilocos Norte, Ilocos Sur, and Pangasinan.<sup>5</sup> "The most vulnerable age groups are 1-4 and 5-9 years old," Bobis stated.<sup>5</sup> The health agency is also beefing up its communication campaign in various regional schools. Bobis stated that the DOH and the Department of Education have been "collaborating" to ensure that preventive measures, such as "working handwashing facilities, frequent cleaning of classrooms, and encouraging kids [exhibiting] symptoms to isolate," are well placed in schools.<sup>5</sup> [\[Full Article\]](#)



# Dengue Cases in ASEAN Region

From January 1, 2022 to December 13, 2022



## Dengue cases in ASEAN region

Country	Dengue Cases	New Cases in the Past Week	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-
Cambodia	9,482	-	16	0.17%
Indonesia	94,355	-	853	0.90%
Lao PDR	30,085	-	22	0.07%
Malaysia	61,112	-	39	0.06%
Myanmar	7,835	-	31	0.40%
Philippines	201,509	4,781	656	0.33%
Singapore	31,037**	-	-	0.00%
Thailand	17,412	-	14	0.08%
Vietnam	335,333	9,729	123	0.04%
<b>Total</b>	<b>788,160</b>	<b>14,510</b>	<b>1,754</b>	<b>0.22%</b>

\*Data from Bluedot Insights, cases may differ from how data is reported in countries and other authorities. Data may be subject to retrospective correction by national authorities.

\*\*Adjusted and corrected from previous report.

- ASEAN region reported **14,510** new dengue cases in the past week from the Philippines and Vietnam, an increase of **22.47%** in new cases in the region compared to the previous week. The region reported **788,160** total cases and **1,754** deaths since January 2022 with **0.22%** CFR.



## Dengue

- **Vietnam:** Health officials in Vietnam reported an extra 10,000 dengue fever cases in the last week, increasing the overall number of cases in the country to 335,333.<sup>2</sup> Dengue fever has claimed the lives of 123 people in the country thus far.<sup>2</sup> The number of illnesses increased by 4.9 times compared to the same period in 2021, while the number of deaths climbed by 98 cases.<sup>2</sup> From the beginning of 2022 until the present, Hanoi has registered 16,314 cases of dengue fever (a 4.9-fold increase over the same period in 2021), with 18 deaths.<sup>2</sup> Ho Chi Minh City has registered 76,239 instances of the disease since the beginning of the year, an increase of over 7 times compared to the same period in 2021.<sup>2</sup> The number of severe dengue fever cases is 1,838; the ratio of severe cases to total cases is up to a week. 48 is 2.41%, up 3.2% from the same time last year.<sup>2</sup> [\[Full Article\]](#)





## Special Report on Notable Diseases

### *Ebola Disease Outbreak*

#### *Sudan Ebolavirus in Uganda*

On December 8, Uganda received the first doses of one of three potential vaccines against Sudan ebolavirus.<sup>1</sup> These will be tested in a clinical experiment known as the Tokomeza Ebola or Solidarity Against Ebola.<sup>1</sup>

The availability of 1,200 doses of candidate vaccinations barely 79 days after the outbreak was notified on September 20th marks a historical milestone in the worldwide response capacity to outbreaks.<sup>1</sup> It took 7 months from declaration to arrival of vaccinations in Guinea during the West Africa Ebola outbreak in 2015.<sup>1</sup> This was a tremendous accomplishment that set historical records at the time.<sup>1</sup> This study looked at the safety and efficacy of vaccines against the Zaire ebolavirus, which was responsible for the West African pandemic and, more recently, outbreaks in the Democratic Republic of the Congo.<sup>1</sup> However, there are no licensed vaccines against the Sudan ebolavirus species that is causing the current outbreak in Uganda, necessitating the current experiment.<sup>1</sup>

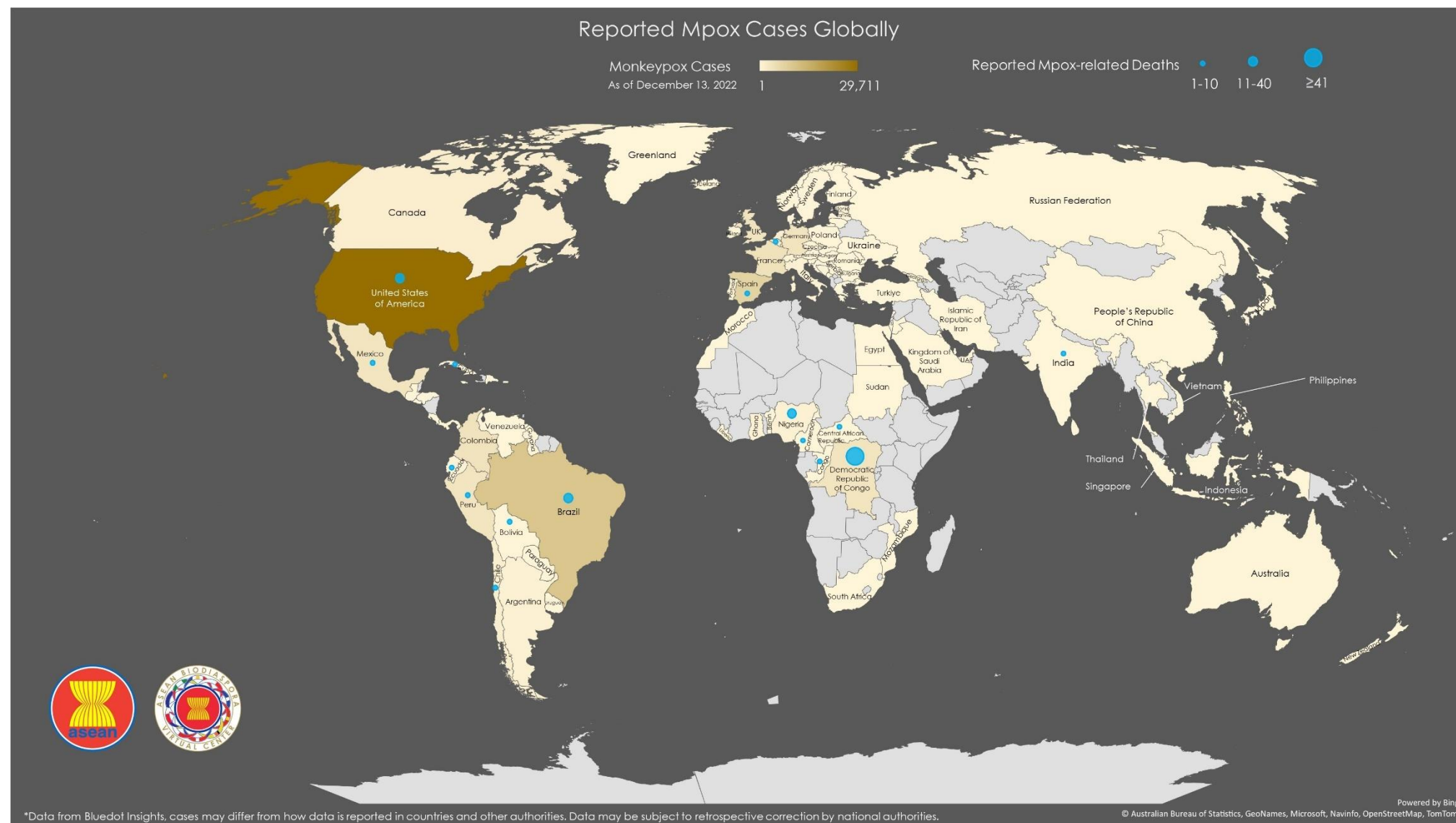
The vaccine is one of three candidates suggested for the study by an independent WHO expert panel: Sabin Institute's ChAd3-SUDV and the other two, cAdOx1 biEBOV from Oxford University/Jenner Institute/Serum Institute of India and Merck/ IAVI's SV-SUDV.<sup>1</sup>

The trial is being led by Makerere University in Uganda and is being co-sponsored by the Ministry of Health and WHO.<sup>1</sup> WHO collaborated with the Ugandan government and researchers to develop the study protocol, ensuring that regulatory and ethical processes were expedited, train research teams, and establish the cold chain that will keep the vaccinations at ideal temperature.<sup>1</sup> [[Full Report](#)]



# Mpox (Monkeypox) Cases Reported Globally

as of December 13, 2022





## Mpox: Highlights and Situation Overview

- As of 14 December 2022 (2PM, GMT+8), worldwide, there were **87,701** confirmed cases, including **213** deaths. Globally, Case Fatality Rate (CFR) was **0.24%**.
- 40 confirmed cases** in the ASEAN region, with CFR of **0%**.
- 87,661 confirmed cases** of Mpox have been reported in other **5 regions** (other than ASEAN region):

### Mpox cases in ASEAN region

Country	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
Indonesia	1	-	-	0.00%
Philippines	4	-	-	0.00%
Singapore	19	-	-	0.00%
Thailand	12	-	-	0.00%
Vietnam	4	-	-	0.00%
<b>ASEAN Total</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>0.00%</b>

### Mpox cases in Asia-Pacific region

Country/Territory	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
Australia	144	1	-	0.00%
Hong Kong (SAR)	1	-	-	0.00%
India	23	4	1	5.00%
Japan	7	-	-	0.00%
New Caledonia	1	-	-	0.00%
New Zealand	40	1	-	0.00%
People's Republic of China*	5	-	-	0.00%
Republic of China*	4	-	-	0.00%
Republic of Korea*	4	-	-	0.00%
Sri Lanka	2	-	-	0.00%
<b>Asia-Pacific Total</b>	<b>231</b>	<b>6</b>	<b>1</b>	<b>0.45%</b>

\*People's Republic of China – China, Republic of China – Taiwan, Republic of Korea – South Korea

### Top 5 countries with most mpox cases globally

Country	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
United States of America	29,711	-	20	0.07%
Brazil	10,235	4	14	0.14%
Spain	7,412	-	3	0.04%
France	4,110	-	-	0.00%
Colombia	3,880	-	-	0.00%



## Mpox cases per region

REGION	TOTAL CONFIRMED CASES SINCE JANUARY 1, 2022	NEW CASES SINCE THE PREVIOUS REPORT	TOTAL DEATHS	CASE FATALITY RATE
AFRICA	5,137	1	160	3.11%
AMERICAS	55,992	20	47	0.08%
ASEAN	40	-	-	0.00%
ASIA PACIFIC	231	6	1	0.43%
EUROPE	25,982	-	4	0.02%
MIDDLE EAST	319	-	-	0.00%
<b>TOTAL</b>	<b>87,701</b>	<b>27</b>	<b>213</b>	<b>0.24%</b>

## Research Update

- The study by the US Centers for Disease Control and Prevention (CDC) on **Safety Monitoring of JYNNEOS Vaccine During the 2022 Mpox Outbreak — United States, May 22–October 21, 2022** reported that the vaccine safety profile of JYNNEOS vaccine for mpox was consistent with prelicensure studies, given that nearly 1 million JYNNEOS doses were administered in the United States from May 2022 to October 21, 2022.<sup>7</sup> The most common adverse health events reported were nonserious and included injection site reactions, adding that the adverse events were rare among adults, and no serious adverse events have been identified among persons aged <18 years.<sup>7</sup> JYNNEOS (Modified Vaccinia Ankara vaccine, Bavarian Nordic) was recommended in the United States for persons exposed to or at high risk for exposure to the Monkeypox virus during the 2022 monkeypox (mpox) outbreak.<sup>7</sup> As of October 2022, there were 987,294 JYNNEOS vaccine doses administered in the United States, including 652,641 (66%) first doses and 334,568 (34%) second doses, wherein most common types of adverse health events reported differed by route of administration and only 14 (1%) reports were classified as a serious adverse effect.<sup>7</sup> There were two deaths in males aged 37 and 58 years, both within 2 days of vaccination.<sup>7</sup> Nine reports were classified as serious because of hospitalization for the following events: myocarditis (n=2), pericarditis (n=2), appendicitis (n=1), aseptic meningitis (n=1), atrial fibrillation (n=1), idiopathic thrombocytopenic purpura (n=1), and methemoglobinemia (n=1).<sup>7</sup> Three vaccinated persons reported the following events as representing disability or permanent damage in their own assessment: injection site discoloration (n=1), injection site pain (n=1), and injection site scar (n=1).<sup>7</sup> [\[Full Text\]](#)



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