



This report aims to provide the current situation on infectious and emerging diseases in the ASEAN Region. We collate various information from multiple official sources and publicly available sources and is published every week on Wednesday. For feedback and/or suggestions, please write to [support@biodiaspora.org](mailto:support@biodiaspora.org)

## Editorial

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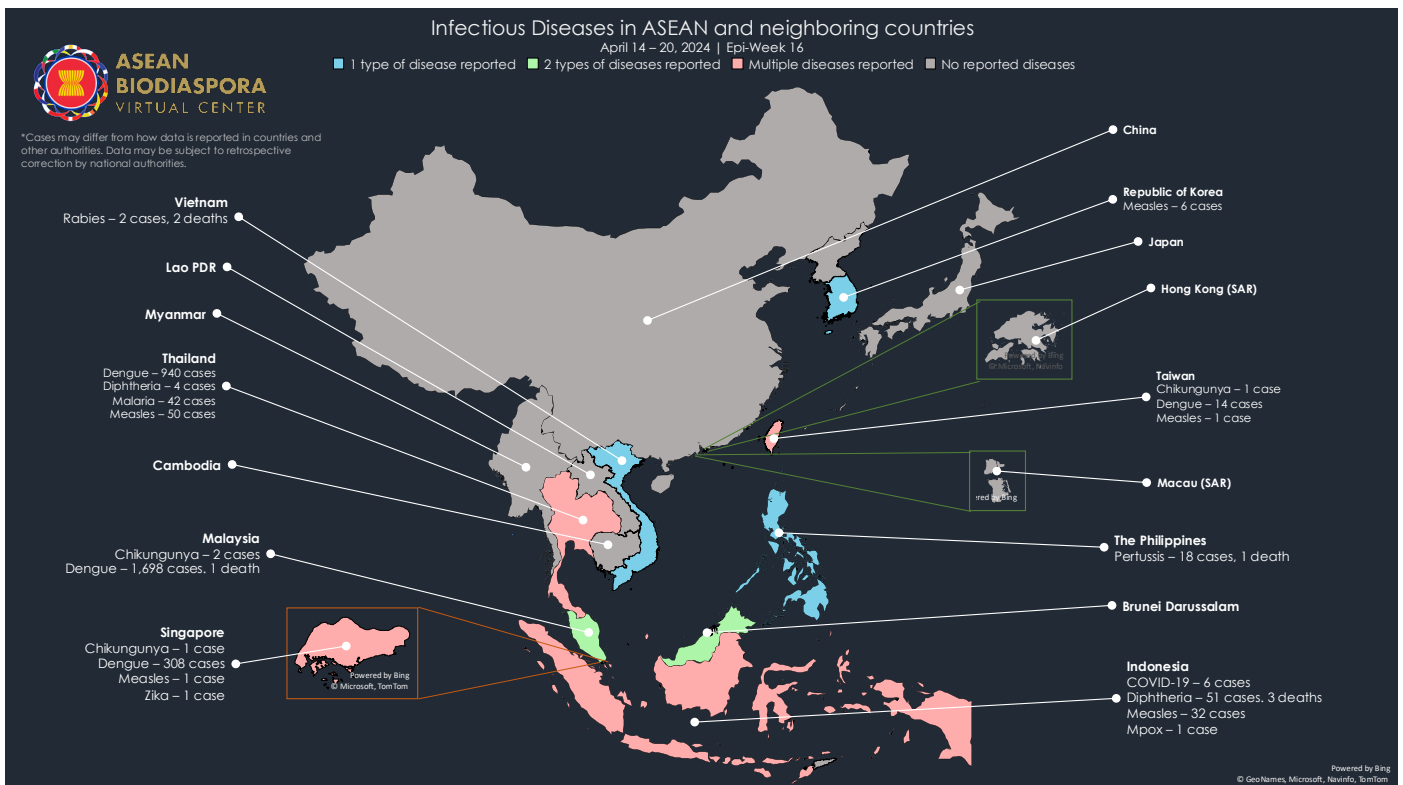
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## Key Findings

- While the trend of COVID-19 is decreasing significantly both globally and regionally, several ASEAN Member States (AMS) still reporting few cases of COVID-19.
- The **JN.1**, which is subtypes of **BA.2.86**, remains a dominant variant of interest spreading in the ASEAN region until the last report.
- Dengue cases has increased but not as much as the last report.
- Measles cases has increased significantly both globally and regionally.
- Rabies still being reported in several AMS.

## Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 16 | April 14 – 20, 2024



Source: AMS Official Sources, [Worldometer](#), [WHO](#), [Our World in Data](#), and [Bluedot Platform](#), accessed on April 23, 2024

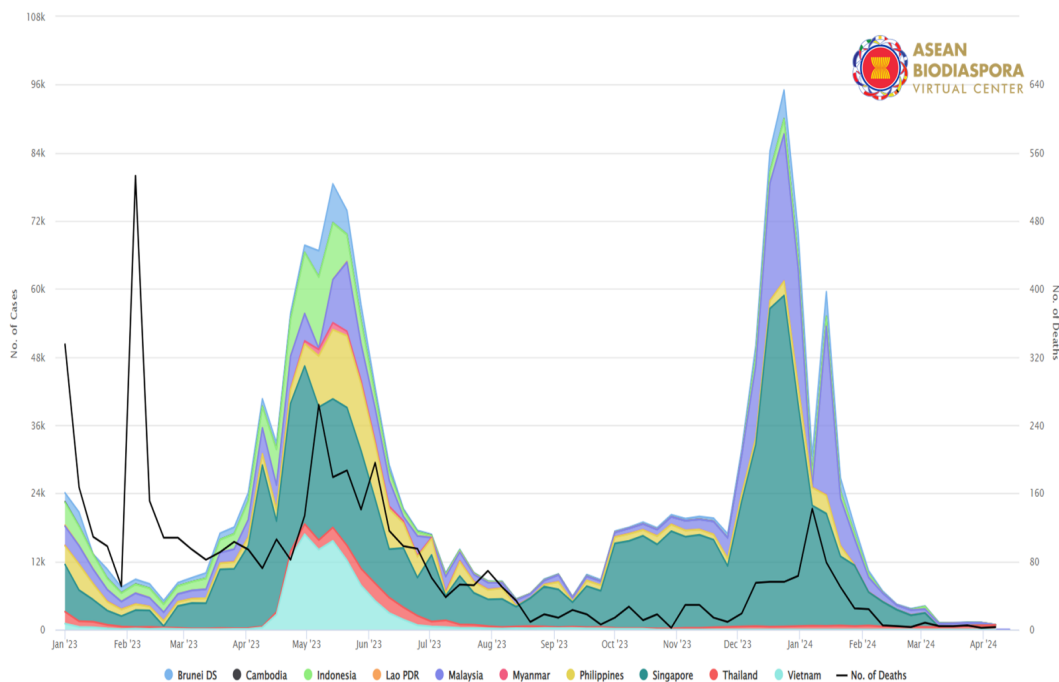
## EMERGING DISEASES

### COVID-19: Highlights and Situation Overview

- As of April 20, 2024 (5PM, GMT+7), there were **704,753,175** confirmed cases **worldwide**, including **7,010,666** deaths. Globally, Case Fatality Rate (CFR) was **1.00%**.
- **36,993,195** total confirmed cases of COVID-19 have been reported in the **ASEAN Region**.
- The CFR in the **ASEAN Region** was **1.00%**.

### ASEAN Weekly COVID-19 Cases and Deaths

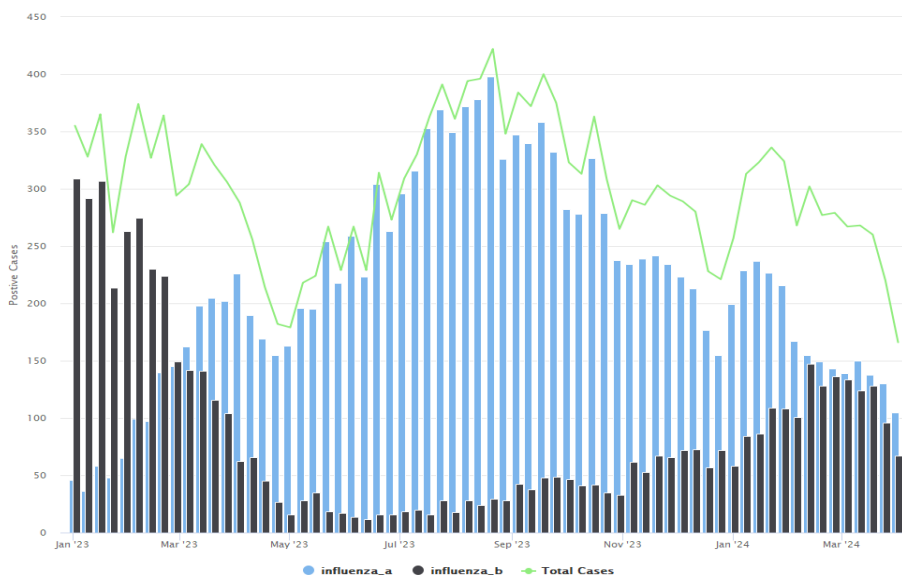
From January 1 to April 20, 2024



Source: [Worldometer](#), [WHO](#), and [Our World in Data](#), accessed on April 23, 2024

### Trends of Influenza Confirmed Cases in the ASEAN region

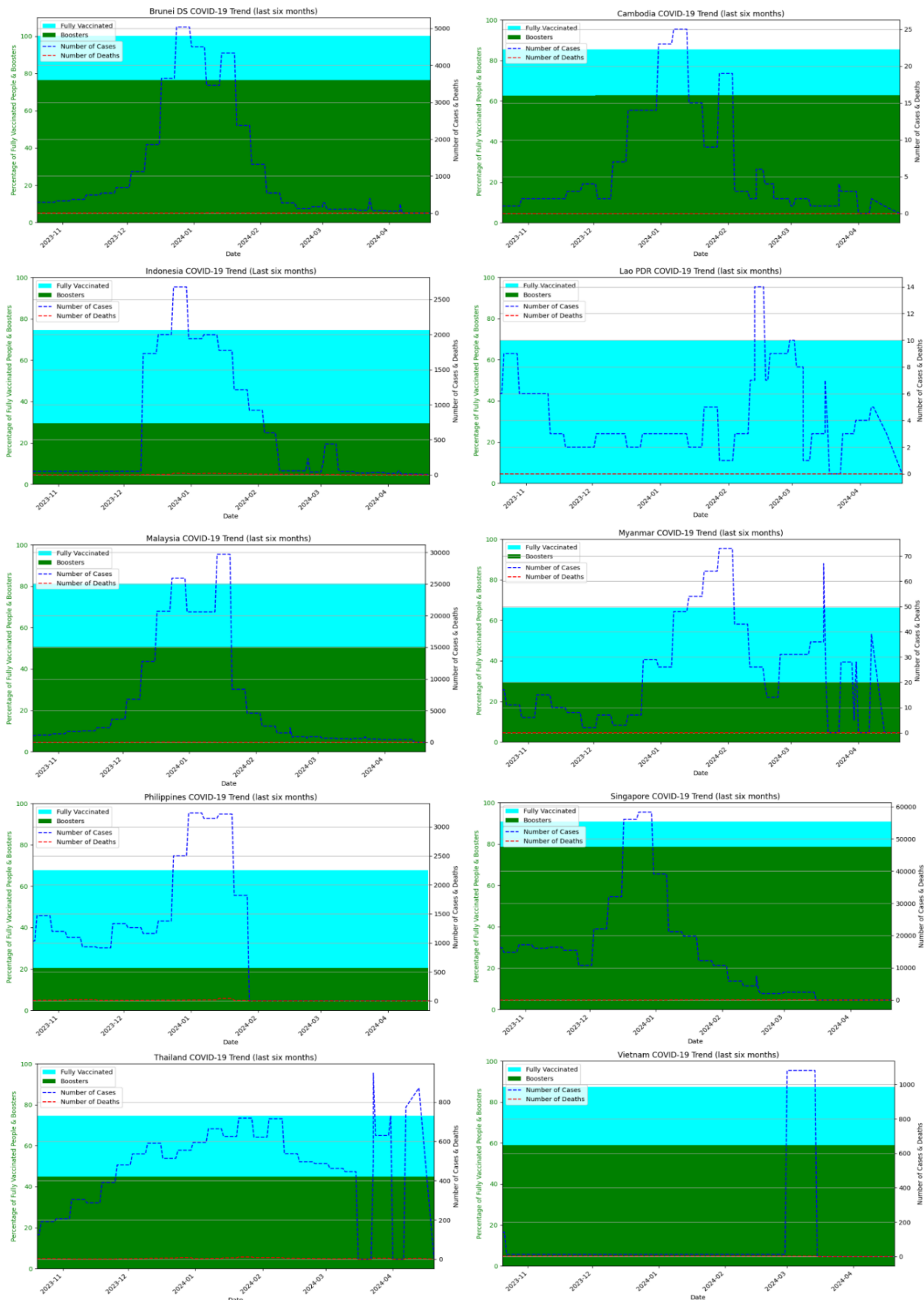
From January 1 to April 20, 2024



Source: FluNet, accessed on April 23, 2024 (<https://www.who.int/tools/flunet>)

# Trends of COVID-19 Cases, Deaths, and Vaccine Coverage among AMS

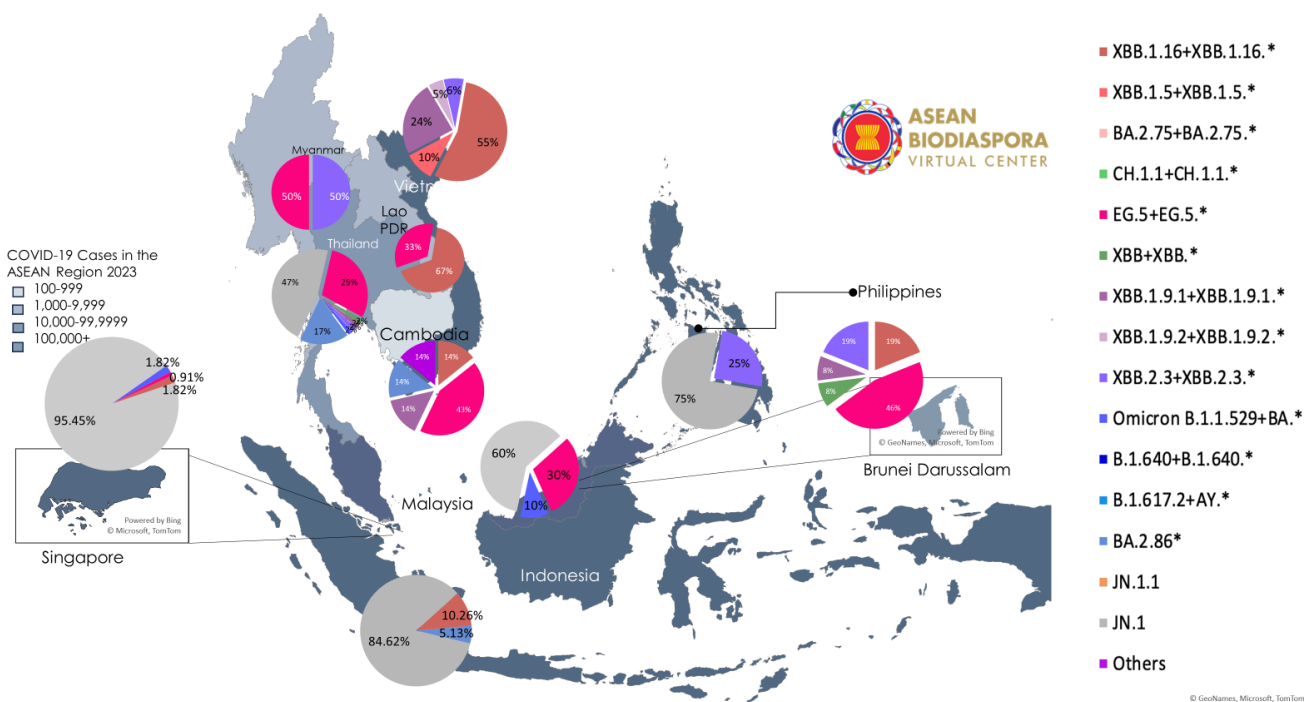
## From October 13, 2023 to April 20, 2024



Source: [Worldometer](#), [Our World In Data](#), and [WHO](#), accessed on 23 April 2024

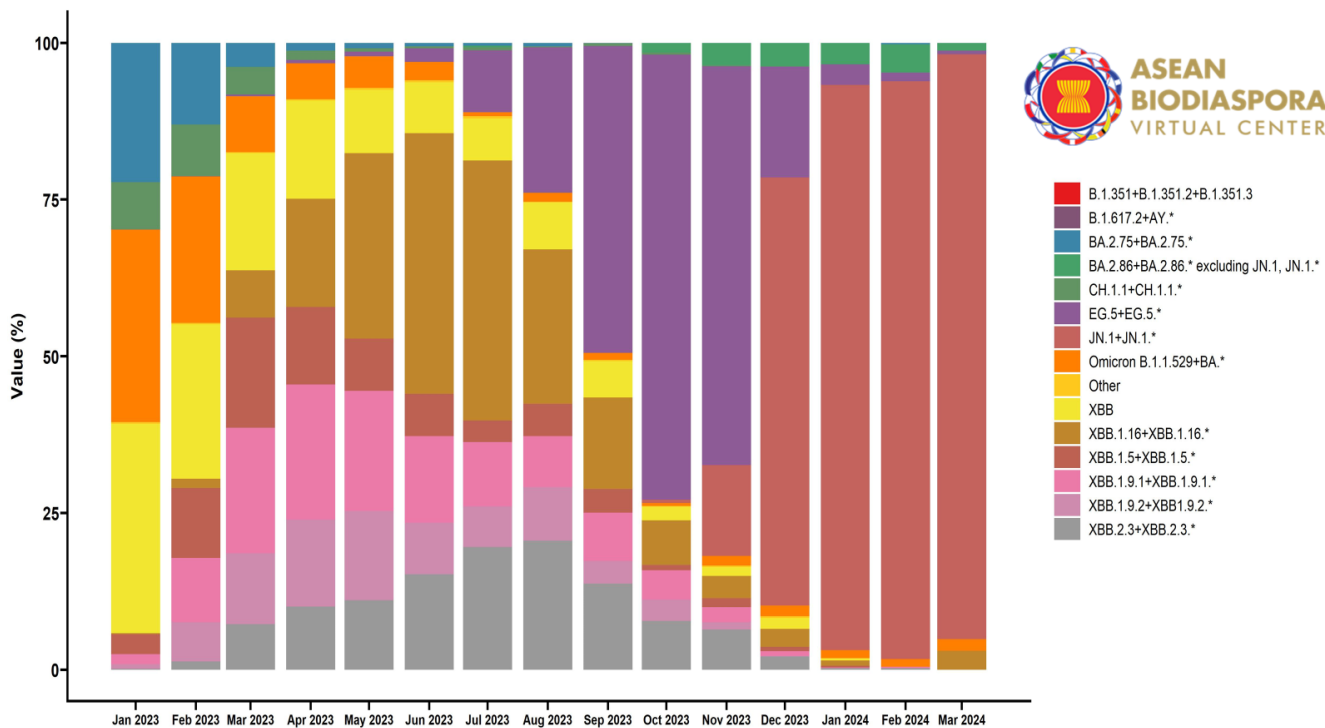


## COVID-19 Variants Frequencies Among the ASEAN Member States In March 2024



Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on April 23, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)

## COVID-19 Variants Frequencies in the ASEAN Region From January 2023 to March 2024

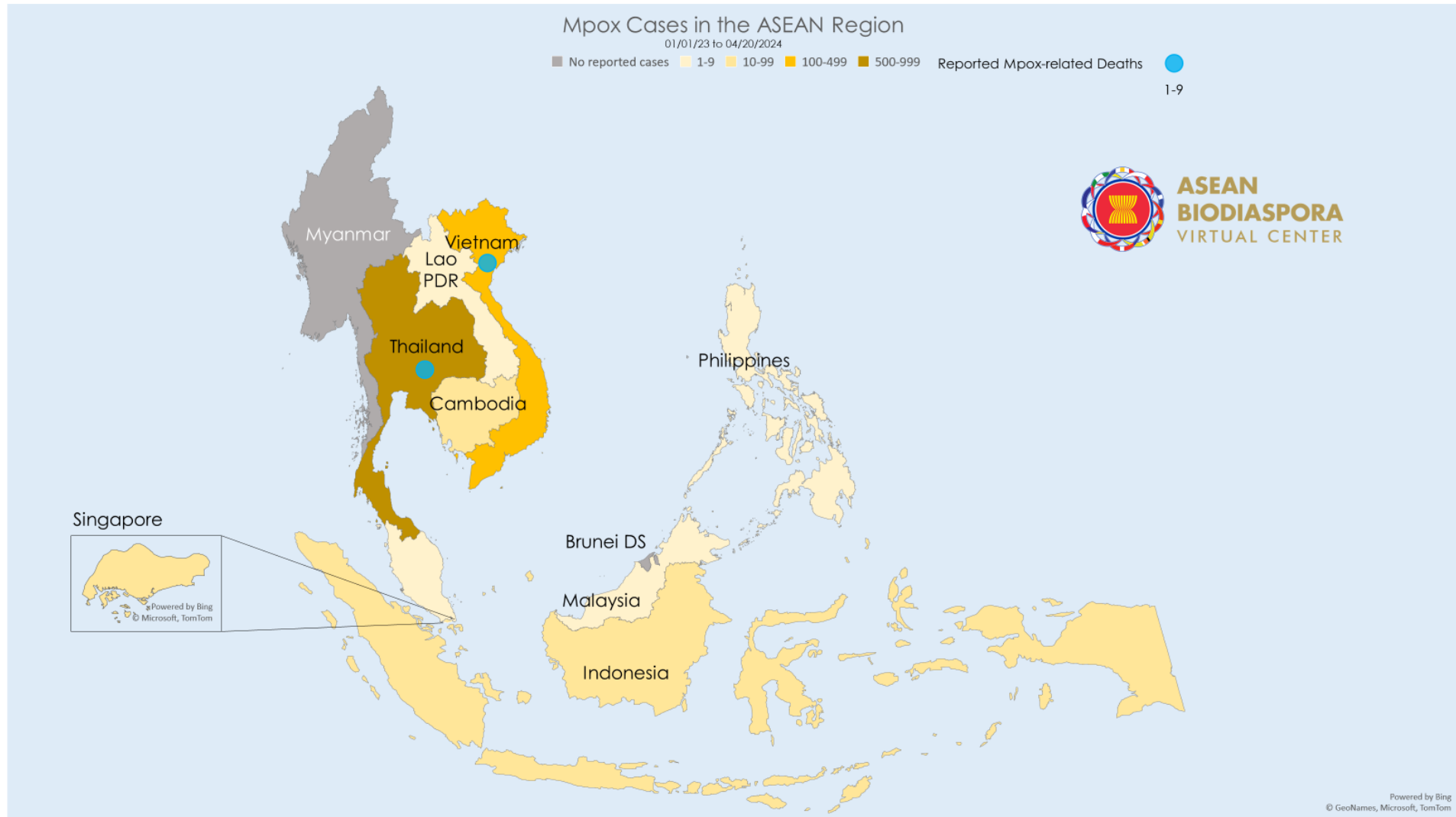


Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on April 23, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)



## Mpox Cases Reported in the ASEAN Region

January 1, 2023 – April 20, 2024



Source:

1. Ministry of Health Republic of Indonesia
2. Bluedot Platform, accessed on April 23, 2024 (<https://portal.bluedot.global>)
3. Ministry of Health Singapore, accessed April 23, 2024 (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)



## Mpox: Highlights and Situation Overview

- From January 1, 2023 to April 20, 2024, **11,700** confirmed cases worldwide since 2023, including **123** deaths. Globally, the CFR was **1.05%**.
- **1039 confirmed cases** including **eight deaths** in the **ASEAN** region, with a CFR of **0.77%**.
- **10,661 confirmed cases** of mpox have been reported in **other regions** (other than the **ASEAN** region):

## Mpox cases in the ASEAN region (Jan. 1, 2023 to April 20, 2024)

ASEAN Member States	Cumulative Cases 2023-2024	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Cambodia <sup>1</sup>	13	0	0	0.00%
Indonesia <sup>2</sup>	86	1	0	0.00%
Lao PDR <sup>1</sup>	1	0	0	0.00%
Malaysia <sup>1</sup>	9	0	0	0.00%
Philippines <sup>1</sup>	5	0	0	0.00%
Singapore <sup>3</sup>	39	0	0	0.00%
Thailand <sup>1</sup>	731	0	1	0.14%
Vietnam <sup>1</sup>	155	0	7	4.52%
<b>ASEAN Total</b>	<b>1039</b>	<b>1</b>	<b>8</b>	<b>0.77%</b>

Source:

1. Bluedot Platform, accessed on April 23, 2024 (<https://portal.bluedot.global/>)
2. Ministry of Health Republic of Indonesia
3. Ministry of Health Singapore, accessed on April 23, 2024, (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)

## Top 5 countries with the most mpox cases globally (Jan. 1, 2023 to April 20, 2024)

Country	Cumulative Cases	New Cases Since Previous Report	Cumulative Deaths	CFR
United States of America	2,197	0	37	1.68%
People's Republic of China	2,028	0	1	0.05%
Democratic Republic of Congo	1,356	0	2	0.15%
Thailand	731	0	1	0.14%
Brazil	456	0	2	0.44%

Source: Our World in Data, accessed on April 23, 2024 (<https://ourworldindata.org/monkeypox>)

## Mpox cases per region (Jan. 1, 2023 to April 20, 2024)

REGIONS	CUMULATIVE CASES	NEW CASES SINCE THE PREVIOUS REPORT	CUMULATIVE DEATHS	CFR
AFRICA	1,543	0	7	0.45%
AMERICAS	4,276	0	86	2.01%
ASEAN	1,039	1	8	0.77%
ASIA & OCEANIA	3,522	0	17	0.48%
EUROPE	1,320	0	5	0.38%
<b>TOTAL</b>	<b>11,700</b>	<b>1</b>	<b>123</b>	<b>1.05%</b>

Source: Our World in Data, accessed on April 23, 2024 (<https://ourworldindata.org/monkeypox>)



## Media Monitoring for Emerging Diseases

Epidemiological Week 16 | April 14 – 20, 2024

### Global Situation for Emerging Diseases

#### COVID-19

- **Australia** reported 908 new COVID-19 cases in the past week, with 3,596 people receiving a PCR test, a 23% increase from the previous week (Mirage News, 2024). Rapid Antigen Tests are available for low-risk individuals with symptoms, and PCR testing is not necessary for confirmation. South Australia (SA) Health encourages everyone to be up-to-date with vaccinations and to have a plan with their General Practitioners (GP) for PCR testing and antiviral treatments if symptoms develop. [\[Full article\]](#)
- **Bangladesh** reported one more COVID-19-linked death and 36 new cases in a week, increasing its total fatalities to 29,494 and caseload to 2,049,800 (UNB News, 2024). The daily case test positivity rate was 4.15 percent. [\[Full article\]](#)
- **New Zealand:** New COVID-19 cases have been reported in Canterbury, with 434 active cases, followed by Waitemata and Counties Manukau (Rnz, 2024). As of midnight, 152 cases were in hospital, with 1,634 reinfections. The seven-day rolling average was 374. [\[Full article\]](#)
- The **United States (US):** Michigan public health officials reported 1,066 confirmed and probable COVID-19 cases and 16 additional deaths for the week ending Tuesday, a 27% drop from the previous week (Bridge Michigan, 2024). The number of confirmed COVID-19-positive hospital patients fell to 186, the first-time hospitalizations have been below 200 since August 11. [\[Full article\]](#)

The **United States (US):** Ohio's COVID-19 cases have dropped for the ninth consecutive week, dropping from 1,877 to 1,407, marking the lowest level since early July (Kroen, Gretchen Cuda, 2024). [\[Full article\]](#)

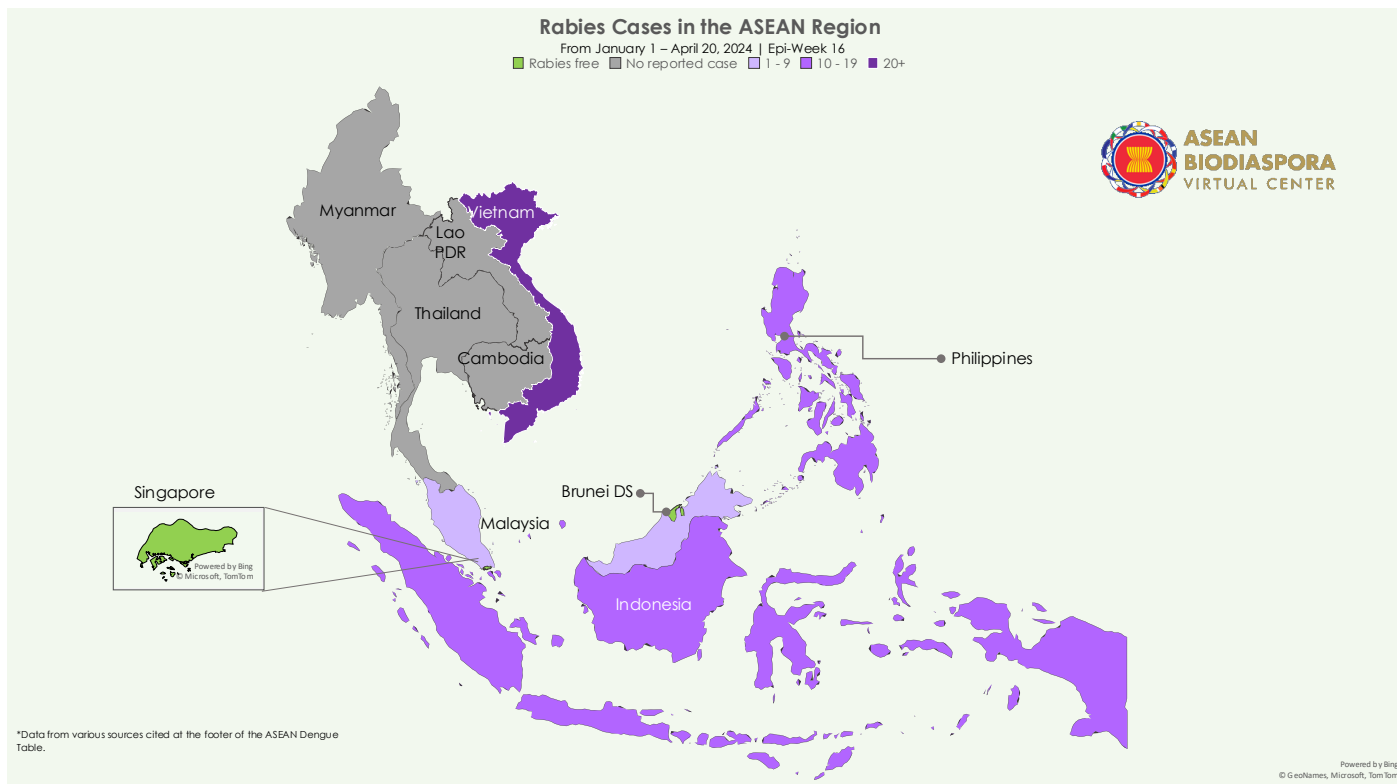
#### Mpox

- **Canada:** Mpox cases in Ontario are increasing, with 26 reported in 2024 (CBC, 2024). The rare viral disease, typically endemic in Africa, has been identified in Canada and other countries. Transmission can occur through sexual contact, cuts, respiratory tracts, and mucous membranes. Symptoms include a painful rash, fever, and swollen lymph nodes. Most cases occur in individuals who have not been vaccinated or received only one dose. The province recommends a two-dose series for eligible individuals. [\[Full article\]](#)

# ZOONOSIS

## Rabies Cases in the ASEAN Region

From January 1 to April 20, 2024 (Epi-Week 16)



### Rabies cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Rabies Cases	New Cases Since Previous Report	Cumulative Deaths	CFR
<b>Brunei Darussalam</b>			Rabies-free country		
<b>Cambodia</b>	-	-	-	-	-
<b>Indonesia<sup>1</sup></b>	Week 13	20	0	20	100%
<b>Lao PDR</b>	-	-	-	-	-
<b>Malaysia<sup>2</sup></b>	Week 4	3	0	3	100%
<b>Myanmar</b>	-	-	-	-	-
<b>Philippines<sup>2</sup></b>	Week 14	89	0	89	100%
<b>Singapore</b>			Rabies-free country		
<b>Thailand<sup>3</sup></b>	Week 14	0	0	0	0%
<b>Vietnam<sup>2</sup></b>	Week 14	29	2	29	100%
<b>Total</b>		<b>141</b>	<b>2</b>	<b>141</b>	<b>100%</b>

1. Ministry of Health, Republic of Indonesia  
 2. Bluedot Platform, accessed April 23, 2024 (<https://portal.bluedot.global/>)  
 3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 23, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **2** new rabies cases since the previous report. The region reported **141** total cases with **100%** CFR.

## Media Monitoring for Zoonosis

Epidemiological Week 16 | April 14 – 20, 2024

### Global Situation for Zoonosis

#### Rabies

- **India:** A man died of rabies from a stray dog in Adoor. Patient died in Adoor Vellakulangara Paravoor Kala (Mangalam, 2024). He died at Kottayam Medical College Hospital. He was bitten by a stray. No rabies vaccine. [\[Full article\]](#)

### Regional Situation for Zoonosis

#### Avian Influenza

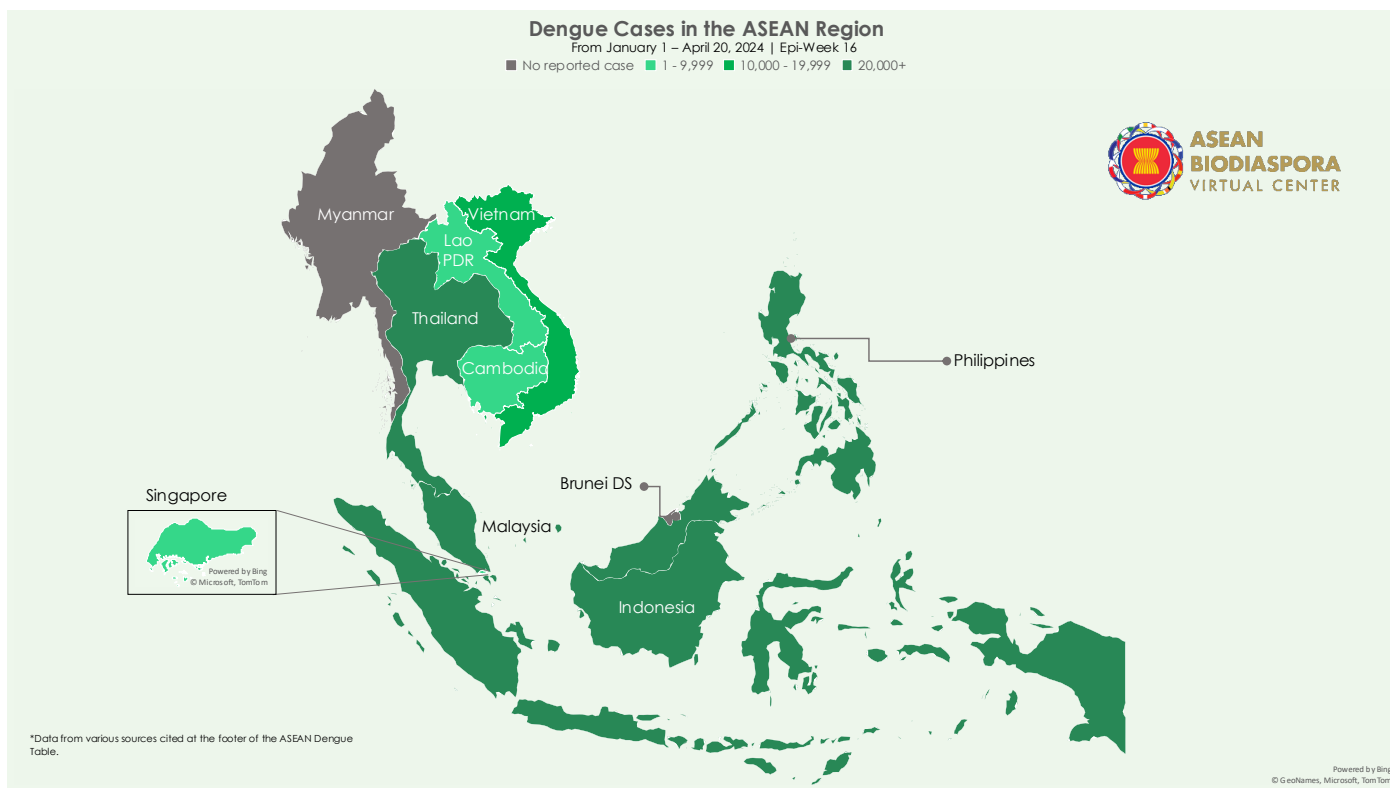
- **Vietnam:** The Vietnam Ministry of Health has issued an urgent dispatch to strengthen the prevention and control of avian influenza transmitted to humans after the first case of influenza A(H9) was recorded in the country (Trithuccuocsong, 2024). The patient, a 37-year-old man, developed symptoms of fever and self-medicated but did not buy medicine regularly. He was diagnosed with severe pneumonia suspected to be caused by a virus. Initial test results showed positive for influenza A and had gene segments similar to influenza A virus subtype H9. The patient's place of residence is in a poultry market, and no respiratory infection symptoms have been detected. From 2015 to now, 98 cases of influenza A(H9N2) have been recorded in the Western Pacific region, including 2 deaths, both of which were patients with underlying diseases. There is currently no evidence that influenza A(H9N2) is transmitted from person to person. [\[Full article\]](#)

#### Rabies

- **Indonesia:** The first rabies patient treated in Atambua, Belu Regency, East Nusa Tenggara, died on 14/3/2023 (Liza, 2024). Rabies has spread in four districts in Timor, with one patient undergoing treatment in Malacca Regency. The doctor hopes the local government and community will prevent further deaths. [\[Full article\]](#)
- **Vietnam** has reported 29 rabies deaths this year, compared to 11 in 2023 (iO Foundation, 2024). Experts attribute this increase to a lack of animal vaccination and the country's significant dog and cat meat trade. Nationally, rabies vaccination rates stood at 58% in 2023, below the 70% required for "herd immunity." Only 19 cities and provinces have implemented vaccination campaigns, immunizing 550,000 dogs and cats. There is evidence that a higher rate of rabies-positive dogs are also euthanized and sold in public markets. [\[Full article\]](#)

# VECTOR-BORNE DISEASES

## Dengue Cases in the ASEAN Region From January 1 to April 20, 2024 (Epi-Week 16)



### Dengue cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-
Cambodia <sup>1</sup>	Week 13	4,620	0	16	0	0.35%
Indonesia <sup>2*</sup>	Week 15	62,001	0	475	0	0.77%
Lao PDR <sup>1</sup>	Week 11	1,499	0	0	0	0.00%
Malaysia <sup>3</sup>	Week 15	48,329	1,698	35	1	0.07%
Myanmar	-	-	-	-	-	-
Philippines <sup>4</sup>	Week 11	21,069	0	67	0	0.32%
Singapore <sup>5**</sup>	Week 15	5,886	308	0	0	0.00%
Thailand <sup>6***</sup>	Week 14	25,559	940	22	0	0.09%
Vietnam <sup>1</sup>	Week 13	14,542	0	0	0	0.00%
<b>Total</b>		<b>183,505</b>	<b>2,946</b>	<b>615</b>	<b>1</b>	<b>0.34%</b>

1. WHO WPRO, "Dengue," World Health Organization, accessed April 23, 2024 (<https://www.who.int/westpacific/emergencies/surveillance/dengue>).  
 2. Ministry of Health, Republic of Indonesia  
 3. Disease Control Division, Ministry of Health Malaysia, accessed April 23, 2024. [https://www.moh.gov.my/index.php/database\\_stores/store\\_view/17](https://www.moh.gov.my/index.php/database_stores/store_view/17)  
 4. Bluedot Developer Portal, accessed April 23, 2024, <https://developer-portal.bluedot.global/>.  
 5. Ministry of Health, "Weekly Infectious Disease Bulletin", accessed April 23, 2024. <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2024/weekly-infectious-diseases-bulletin>  
 6. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 23, 2024, <http://doe.moph.go.th/surdata/index.php>  
 \*Data were updated and collected from official sources, which may have a 2-8 weeks delay in reporting. Data must be interpreted cautiously.  
 \*\*Notified dengue cases only includes severe cases Dengue Hemorrhagic fever (DHF) and Dengue Shock Syndrome (DSS)  
 \*\*\*Notified dengue cases only includes Dengue Fever (DF) and DHF  
 \*\*\*\*Notified dengue cases include all type of cases DF, DHF, and DSS

- The **ASEAN** region reported **2,946** new dengue cases since the previous report. The region reported **183,505** total cases with **0.34%** CFR.

## Malaria Cases in the ASEAN Region

From January 1 to April 20, 2024 (Epi-Week 16)



### Malaria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Malaria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia <sup>1</sup>	Week 14	754	0	7	0.93%
Lao PDR	-	-	-	-	-
Malaysia <sup>1</sup>	Week 10	2	0	0	0.00%
Myanmar <sup>1</sup>	-	-	-	-	0.00%
Philippines <sup>1</sup>	Week 6	2	0	0	0.00%
Singapore <sup>3</sup>	Week 15	5	0	0	0.00%
Thailand <sup>2</sup>	Week 14	630	42	0	0.00%
Vietnam <sup>1</sup>	Week 11	1	0	0	0.00%
<b>Total</b>		<b>1,394</b>	<b>42</b>	<b>7</b>	<b>0.50%</b>

1. Bluedot Platform, accessed April 23, 2024 (<https://portal.bluedot.global/>)  
 2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 23, 2024 (<http://doe.moph.go.th/surdata/index.php>)  
 3. Ministry of Health Singapore, accessed April 23, 2024 (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)

- The **ASEAN** region reported **42** new malaria cases since the previous report. The region reported **1,394** total cases with **0.50%** CFR.



## Media Monitoring for Vector-borne Diseases

Epidemiological Week 16 | April 14 – 20, 2024

### Global Situation for Vector-borne Diseases

#### Dengue

- **Bangladesh** reported no new dengue deaths, but eight patients were hospitalized with viral fever (UBN News, 2024). Since January 1, 2024, 1,831 cases have been reported, with September being the deadliest month with 396 fatalities and 79,598 cases. Last year, 1,705 people lost their lives due to dengue. [[Full article](#)]
- **Canada:** Bahia has seen a 66.7% increase in dengue cases in 2024 compared to the previous year, with 269 municipalities experiencing an epidemic (Britto, 2024). The Southwest health macro-region accounted for 44% of cases and 65% of deaths. The state has a fatality rate of 2.7%, lower than the national average. Vitória da Conquista, the most worrying case, has three times as many probable cases and deaths as Salvador and four times more than Feira de Santana. [[Full article](#)]
- **India:** Kerala has experienced a rapid spread of dengue fever, with six people dying (Maalaimalar, 2024). Over the past two weeks, 1,373 people have been treated for the disease, with 294 confirmed infected. The state health department is taking precautionary measures against the flu and focusing on preventing mosquito breeding due to the potential spread of mosquito-borne diseases like dengue, chikungunya, malaria, and Zika. [[Full article](#)]
- **Italy:** A woman in Terni, contracted the Dengue virus after visiting Brazil (Orfei & Scardocci, 2024). The Municipality of Terni is implementing a mosquito disinfestation as a prevention measure, following a communication from the Umbria 2 Local Health Authority. The disinfestation will last approximately two hours, and following the disinfestation, requirements include not letting clothing dry outside, closing doors and windows, suspending air exchange systems, keeping animals indoors, and protecting crops and vegetables. [[Full article](#)]
- **Sri Lanka:** Dengue cases in Sri Lanka have surpassed 21,000, with 21,028 reported as of April 13 (Daily Mirror, 2024). The highest number was in Colombo district, with the Western Province having the highest. Health officials urge people to clean surroundings and destroy mosquito breeding sites. [[Full article](#)]
- The **United States (US):** The Pan American Health Organization (PAHO) has confirmed over 5.2 million dengue cases across the Americas this year, a 48% increase from the 3.5 million reported last month (O'Boyle et al., 2024). Over 1,800 people have died from the mosquito-borne viral illness, up from over 1,000 deaths reported last month. Argentina and Brazil have been hit the hardest, but recent weeks have seen a stabilization or reduction in cases. The current dengue vaccine supply is limited, and widespread vaccination will not immediately interrupt the outbreak. [[Full article](#)]

#### Leptospirosis

- The **United States (US):** New York City has seen a rise in cases of the deadly Human Leptospirosis disease, caused by exposure to rat urine (Anís, 2024). The New York City Department of Health and Mental Hygiene issued a health advisory warning about the continued increase in cases. Leptospirosis is a zoonotic disease caused by several species of spirochete bacteria of the genus *Leptospira*. Infected animals excrete the bacteria through their urine, which can survive in warm and moist environments for weeks. Transmission occurs when direct contact is made with infectious urine. As of April 10, 2024, there have been at least 6 cases reported so far. Symptoms include acute renal and hepatic failure, and occasionally severe pulmonary involvement. If not treated, kidney failure, meningitis, liver damage, and respiratory distress can occur. [[Full article](#)]



## Malaria

- **India:** A 20-year-old guest worker died of malaria in Idukki's Nedunkandam (Kumari, 2024). A patient who had come to work in the palm grove of Nedunkandam Sanyasioda with her husband, was admitted to a private hospital in Hangkupalam. After a post-mortem the body will be cremated at Mundyeruma public cemetery. [\[Full article\]](#)

## Regional Situation for Vector-borne Diseases

### Dengue

- **Indonesia:** The number of dengue haemorrhagic fever (DHF) cases in Indonesia reached 60,296 in week 14, with 455 death (Marzuqi, 2024)s. Several districts have declared outbreak for dengue fever, highlighting the need for further intervention. [\[Full article\]](#)

Dengue outbreaks have been reported in Jawa Barat from January to April 2024, with 17,438 cases reported and 159 deaths (Costa, 2024). The highest cases were in Bandung, Bogor, and Bandung Barat, with 111 cases in Cirebon. The highest cases were in March and February, with 6,319 cases and 71 cases respectively. The highest cases were in children aged 5-14 years, with 83 cases. [\[Full article\]](#)

Banjarmasin, South Kalimantan, is still alert for DHF in April, totaling 41 people (Antara, 2024). The government must be aware of the increase in dengue cases and must ensure the rapid development of dengue mosquitoes. [\[Full article\]](#)

### Chikungunya

- **Indonesia:** Chikungunya is increasing in Banyuwangi, with the Health Service identifying residents in Singotrunan and Kertosari Villages (Hujaini, 2024). The *Aedes aegypti* mosquito, which transmits the *alphavirus*, is responsible for the disease. In the last two months, 58 Bondowoso residents have been infected by chikungunya. The Health Service and local health center are monitoring the progress of infected residents, and those infected have received treatment. Nine residents in Singonegaran Village have improved their condition, but not completely recovered. [\[Full article\]](#)

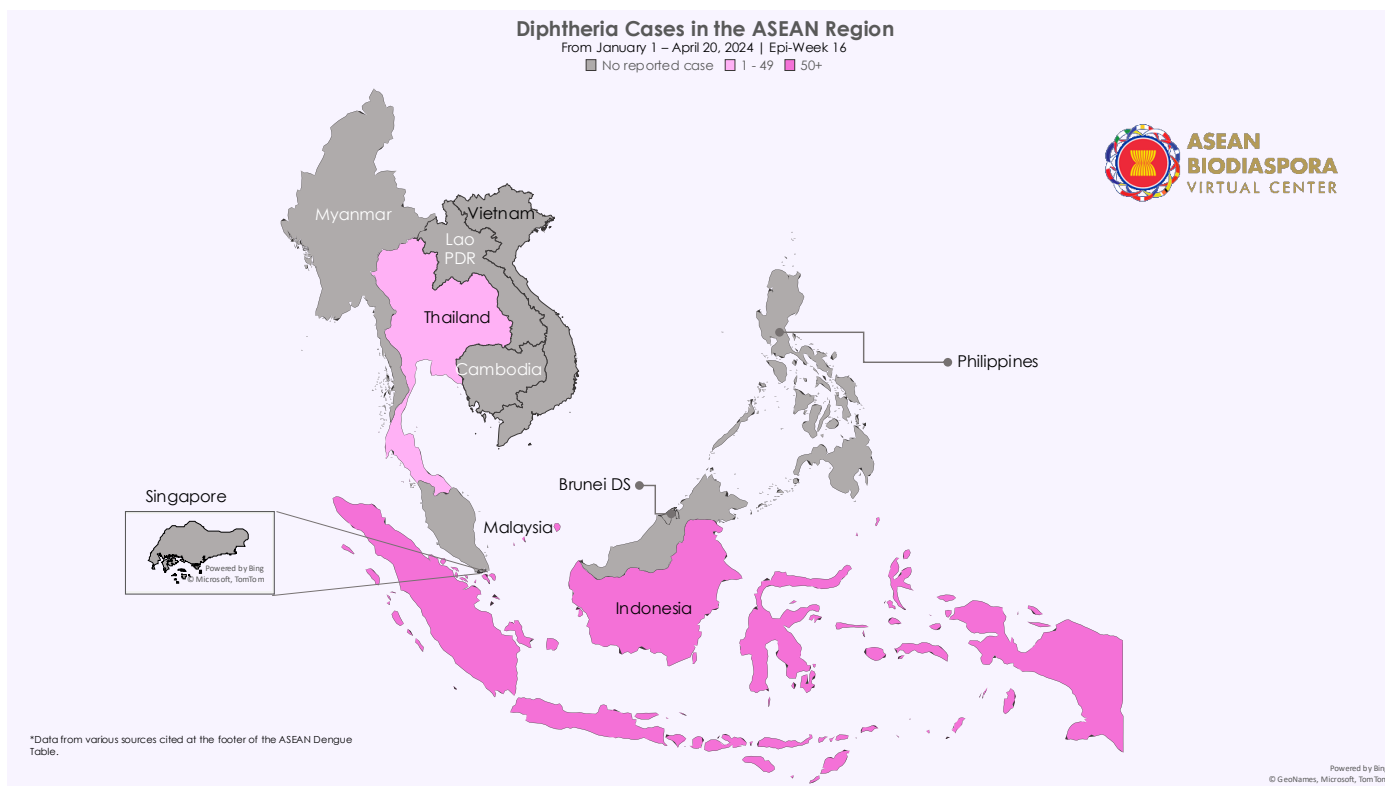
### Leptospirosis

- **Indonesia:** Leptospirosis, a disease caused by leptospira bacteria, has caused two deaths in Probolinggo City from January to mid-April 2024 (Rozani, 2024). The disease, which can spread through rat urine, pets, or livestock, is spread through contaminated water puddles. The head of Disease Prevention and Control, urges the public to maintain a clean environment and wash their hands with soap after activities to prevent further spread. [\[Full article\]](#)

## VACCINE-PREVENTABLE DISEASES

### Diphtheria Cases in the ASEAN Region

From January 1 to April 20, 2024 (Epi-Week 16)



### Diphtheria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia <sup>1</sup>	Week 16	243	51	12	4.94%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines <sup>2</sup>	-	-	-	-	-
Singapore <sup>3</sup>	Week 15	0	0	0	0.00%
Thailand <sup>4</sup>	Week 14	5	4	0	0.00%
Vietnam <sup>5</sup>	-	-	-	-	-
<b>Total</b>		<b>248</b>	<b>55</b>	<b>12</b>	<b>4.84%</b>

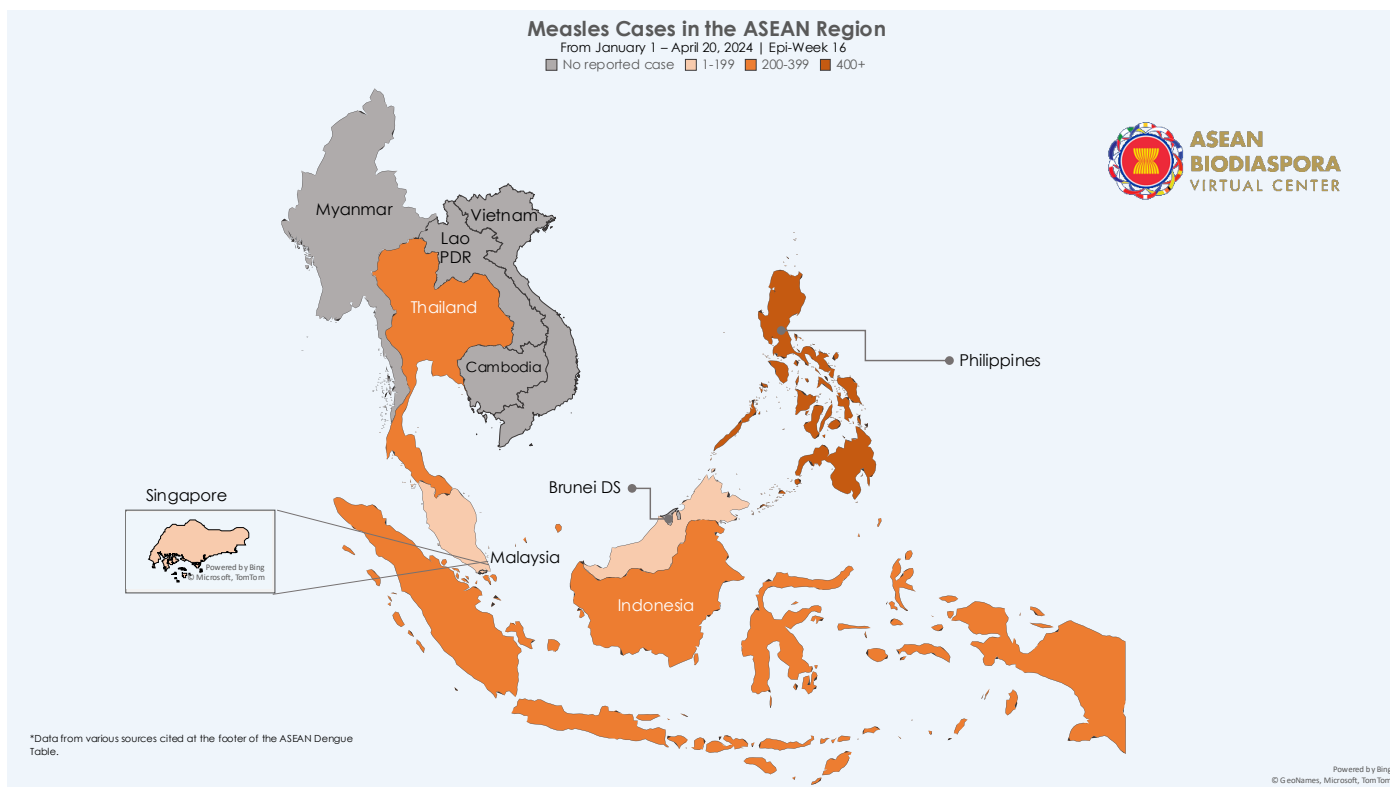
1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed April 23, 2024 "Statistics" (<https://doh.gov.ph/statistics>)
3. Ministry of Health Singapore, accessed April 23, 2024 (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)
4. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 23, 2024 (<http://doe.moph.go.th/surdata/index.php>)
5. BlueDot Platform, accessed April 23, 2024 (<https://developer-portal.bluedot.global/>)

- The ASEAN region reported **55** new diphtheria cases since the previous report. The region reported **248** total cases with **4.84%** CFR.



## Measles Cases in the ASEAN Region

From January 1 to April 20, 2024 (Epi-Week 16)



### Measles cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Measles Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia <sup>1</sup>	Week 16	504	32	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia <sup>2</sup>	Week 11	34	0	0	0.00%
Myanmar	-	-	-	-	-
Philippines <sup>2</sup>	Week 15	2,500	0	3	0.12%
Singapore <sup>4</sup>	Week 15	4	1	0	0.00%
Thailand <sup>5</sup>	Week 14	564	50	0	0.00%
Vietnam <sup>2</sup>	Week 13	42	0	0	0.00%
<b>Total</b>		<b>3,648</b>	<b>83</b>	<b>3</b>	<b>0.08%</b>

1. Ministry of Health, Republic of Indonesia
2. Bluedot Platform, accessed April 23, 2024 (<https://developer-portal.bluedot.global/>)
3. Ministry of Health Singapore, accessed April 23, 2024, (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)
4. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 23, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **83** new measles cases since the previous report. The region reported **3,648** total cases with **0.08%** CFR.



## Media Monitoring for Vaccine-Preventable Diseases

Epidemiological Week 16 | April 14 – 20, 2024

### Global Situation for Vaccine-Preventable Diseases

#### Measles

- **Canada** has seen a significant increase in measles cases in the first months of 2024, with over three times the number recorded in 2022 (Staff, 2024). Public health leaders are expecting more measles infections in the coming months, urging people to ensure full vaccination to combat the highly infectious disease. [[Full article](#)]
- **Iraq:** The Iraqi Ministry of Health has urged citizens to vaccinate their children to protect their lives from measles (NBA News, 2024). The Ministry recorded over 27,000 cases, with 96% of them being unvaccinated. The number of deaths reached 43, with 42 unvaccinated. The Ministry aims for schools to record high approval rates within ten days of the vaccine campaign. The measles vaccine, originating from international companies, is approved within health centers' schedules. A comprehensive campaign targeting 7 million students is being launched to combat the rapid spread of the disease. [[Full article](#)]
- **Taiwan:** A man in his 20s was fined NT\$200,000 by the Health Bureau for knowingly importing measles from abroad (Yiyan, 2024). The man, who had been infected during the infectious period, did not report his activity history during the epidemic investigation. The Health Bureau urged people with similar activity footprints to wear masks and contact the health department if they develop symptoms before the autonomous health monitoring period ends. The Health Bureau stated that most Taiwanese adults over 50 are naturally infected with measles and can be immune for life. The MMR vaccine has been fully implemented since 1981, but antibodies may decrease with age. People with frequent contact with foreigners, medical staff, or those planning to travel to measles-endemic areas should receive an additional dose at their own expense. [[Full article](#)]
- The **United Kingdom (UK):** Measles outbreaks have been reported in various countries, with a focus on Chicago and London (Hackett, 2024). The UK Health Security Agency reported 86 measles cases in England, bringing the total to 1,109. London has seen 39% of the cases. The MMR jab offers the best protection against measles. [[Full article](#)]
- The **United States (US):** An adult from Cicero has contracted measles, becoming the second case in suburban Cook County this year (Norkol, 2024). The first case was in late March and linked to an outbreak at a migrant shelter in the Pilsen neighborhood. The Cook County Department of Public Health (CDPH) said there is no known connection between the Cicero measles case and the one at the Chicago migrant shelter. Statewide, there are 64 confirmed cases of measles, most of which are in Chicago. [[Full article](#)]

#### Pertussis

- **Canada:** Pertussis, also known as whooping cough, has been confirmed in Kawartha Lakes, Ontario (Davis, 2024). The Haliburton Kawartha Pine Ridge District Health Unit advises parents and guardians to ensure their child's immunizations are up to date. Pertussis is a serious, highly contagious bacterial infection of the respiratory system, spreading via droplets from the noses and mouths of the infected. It was one of the most common childhood diseases and a cause of child mortality in the 20th century. The health unit states that routine childhood immunization, along with protection from polio, tetanus, and diphtheria, has significantly decreased cases of the disease. [[Full article](#)]



- The **United Kingdom (UK):** The Public Health Agency (PHA) in Northern Ireland has reported a significant rise in cases of the "100-day cough," a highly contagious and sometimes serious bacterial infection (McDaid, 2024). Since January 1, 2024, there have been over 460 cases of "clinically suspected" whooping cough, also known as pertussis, notified to the PHA. Of those, 352 were laboratory-confirmed, a massive increase from previous years. The PHA has advised that parents and pregnant women should get vaccinated against whooping cough as part of the childhood vaccination program, as it can protect their babies from getting the disease in the weeks after birth. [[Full article](#)]

## **Regional Situation for Vaccine-Preventable Diseases**

### **Pertussis**

- The **Philippines:** Eastern Visayas has reported seven confirmed cases of pertussis, bringing the total to 48 as of April 6 (Desacada, 2024). 35 of the cases are babies up to one year old, with 24 in Leyte. [[Full article](#)]
- **Vietnam:** The city has recorded 46 cases of whooping cough in 20 districts since 2024, with 52.2% of cases being children under 2 months old (Baodientu vtv, 2024). To prevent epidemics, the city will organize activities to clean the environment, disinfect, and prevent diseases in preschools and kindergartens. [[Full article](#)]



## Media Monitoring for Other Diseases

Epidemiological Week 16 | April 14 – 20, 2024

### Regional Situation for Other Diseases

#### Hand Foot and Mouth Disease

- **Vietnam:** Ho Chi Minh City has seen an 87% increase in hand-foot-mouth disease cases, with 2,289 cases recorded in the city from the beginning of the year to the current time (An & Huong, 2024). The city's Center for Disease Control (HCDC) urges residents to follow preventive measures during the current peak period to prevent the spread of hand, foot, and mouth disease. The city also warns of high incidence rates for other diseases like acute diarrhea, pneumonia, and bronchiolitis. [\[Full article\]](#)



## Annex 1. Infectious Diseases in the ASEAN Region – Summary Table

Epidemiological Week 16 | From January 1 to April 20, 2024

Infectious Diseases	COVID-19			Mpox			Rabies			Dengue		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	82,279	77	0.10%	-	-	-	Rabies-free Country			-	-	-
Cambodia	665	0	0%	13	0	0%	-	-	-	4,620	16	0.35%
Indonesia	117,539	1,453	1.26%	86	0	0%	20	20	100%	62,001	475	0.77%
Lao PDR	1,384	87	6.55%	1	0	0%	-	-	-	1,499	0	0%
Malaysia	259,006	491	0.20%	9	0	0%	3	3	100%	48,329	35	0.07%
Myanmar	8,298	5	0.06%	-	-	-	-	-	-	-	-	-
Philippines	141,371	1,467	1.04%	5	0	0%	89	89	100%	21,069	67	0.32%
Singapore	819,481	313	0.04%	39	0	0%	Rabies-free Country			5,886	0	0%
Thailand	51,241	917	1.99%	731	1	0.14%	0	0	0%	25,559	22	0.09%
Vietnam	101,828	20	0.02%	155	7	4.52%	29	29	100%	14,542	0	0%
<b>ASEAN Region</b>	<b>1,583,092</b>	<b>4,830</b>	<b>0.32%</b>	<b>1,039</b>	<b>8</b>	<b>0.77%</b>	<b>141</b>	<b>141</b>	<b>100%</b>	<b>183,505</b>	<b>615</b>	<b>0.34%</b>

Infectious Diseases	Malaria			Measles			Diphtheria		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-
Indonesia	754	7	0.93%	504	0	0%	243	12	4.94%
Lao PDR	-	-	-	-	-	-	-	-	-
Malaysia	2	0	0%	34	0	0%	-	-	-
Myanmar	-	-	-	-	-	-	-	-	-
Philippines	2	0	0%	2,500	3	0.12%	-	-	-
Singapore	5	0	0%	4	0	0%	0	0	0%
Thailand	630	0	0%	564	0	0%	5	0	0%
Vietnam	1	0	0%	42	0	-	-	-	-
<b>ASEAN Region</b>	<b>1,394</b>	<b>7</b>	<b>0.50%</b>	<b>3,648</b>	<b>3</b>	<b>0.08%</b>	<b>248</b>	<b>12</b>	<b>4.84%</b>



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