

ASEAN Biodiaspora Virtual Center

# Morbidity and Mortality Weekly Report Infectious and Emerging Diseases

ASEAN REGION

December 20, 2023 | MMWR 2023-50  
Epidemiological Week 50



This Morbidity and Mortality Weekly Report of Infectious and Emerging Diseases aims to provide the current situation in the ASEAN Region. The report uses information from 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)

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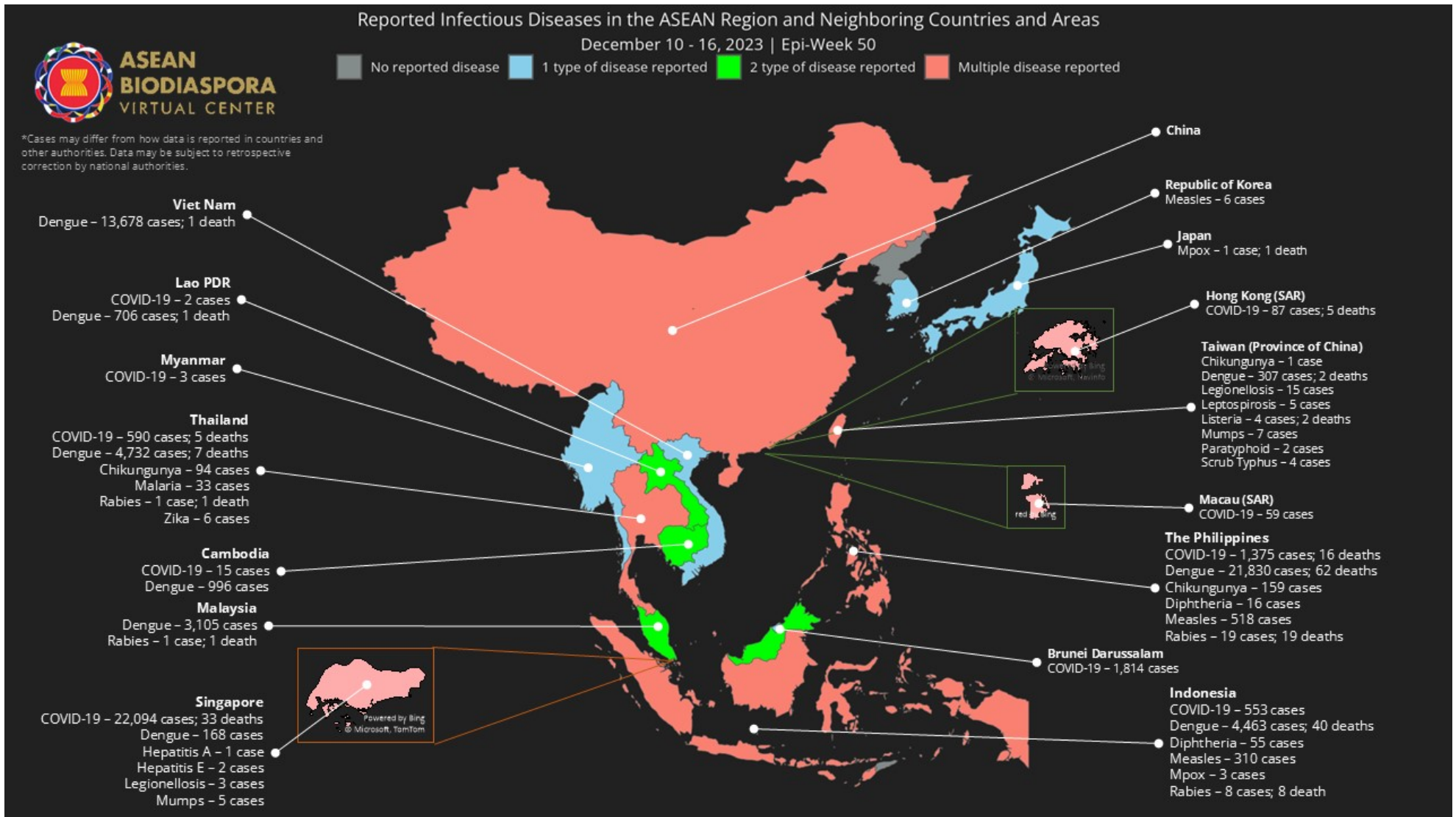


## Table of Contents

<b>Infectious Diseases</b> .....	<b>1</b>	<b>Vector-Borne Diseases</b> .....	<b>13</b>
<a href="#">Reported Infectious Diseases in the ASEAN Region and Neighboring Countries</a> .....	1	<b>Dengue</b> .....	<b>13</b>
<a href="#">Key Findings</a> .....	2	<a href="#">Dengue Cases in the ASEAN Region Map</a> .....	13
<a href="#">Infectious Diseases in the ASEAN Region in 2023 – Summary Table</a> .....	2	<a href="#">Dengue Cases in the ASEAN Region Table</a> .....	13
<b>Emerging Diseases</b> .....	<b>3</b>	<b>Malaria</b> .....	<b>14</b>
<b>COVID-19</b> .....	<b>3</b>	<a href="#">Malaria Cases in the ASEAN Region Map</a> .....	14
<a href="#">COVID-19 Cases and Deaths</a> .....	3	<a href="#">Malaria Cases in the ASEAN Region Table</a> .....	14
<a href="#">COVID-19 Cases in the ASEAN Region Table</a> .....	3	<b>Chikungunya</b> .....	<b>15</b>
<a href="#">Epidemic Curve Among the ASEAN Member States</a> .....	4	<a href="#">Chikungunya Cases in the ASEAN Region Map</a> ....	15
<a href="#">ASEAN Weekly New Cases and Deaths</a> .....	4	<a href="#">Chikungunya Cases in the ASEAN Region Table</a> ...	15
<a href="#">COVID-19 Variants Frequencies Among the ASEAN Member States</a> .....	5	<a href="#">Event Updates for Vector-borne Diseases</a> .....	16
<a href="#">COVID-19 Variants Frequencies in the ASEAN Region</a> .....	5	<a href="#">Global Updates</a> .....	16
<a href="#">ASEAN COVID-19 Vaccination Status</a> .....	6	<a href="#">Regional Updates</a> .....	16
<b>Mpox</b> .....	<b>7</b>	<b>Vaccine-Preventable Diseases</b> .....	<b>18</b>
<a href="#">Mpox Cases Reported in the ASEAN Region</a> .....	7	<b>Diphtheria</b> .....	<b>18</b>
<a href="#">Highlights and Situation Overview</a> .....	8	<a href="#">Diphtheria Cases in the ASEAN Region Map</a> .....	18
<a href="#">Mpox Cases in the ASEAN Region Table</a> .....	8	<a href="#">Diphtheria Cases in the ASEAN Region Table</a> .....	18
<a href="#">Top 5 Countries with Most Mpox Cases Globally</a> .....	8	<b>Measles</b> .....	<b>19</b>
<a href="#">Mpox Cases per Region</a> .....	8	<a href="#">Measles Cases in the ASEAN Region Map</a> .....	19
<a href="#">Event Updates for Emerging Diseases</a> .....	9	<a href="#">Measles Cases in the ASEAN Region Table</a> .....	19
<a href="#">Global Updates</a> .....	9	<a href="#">Event Updates for Vaccine-Preventable Diseases</a>	20
<a href="#">Regional Updates</a> .....	10	<a href="#">Global Updates</a> .....	20
<b>Zoonosis</b> .....	<b>11</b>	<b>References</b> .....	<b>22</b>
<b>Rabies</b> .....	<b>11</b>		
<a href="#">Rabies Cases in the ASEAN Region Map</a> .....	11		
<a href="#">Rabies Cases in the ASEAN Region Table</a> .....	11		
<a href="#">Event Updates for Zoonosis Diseases</a> .....	12		
<a href="#">Regional Updates</a> .....	17		

# Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 50 | December 10 – 16, 2023



The data was taken from the BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>.

1. Ministry of Health Singapore, "Weekly Infectious Diseases Bulletin," Ministry of Health, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>.



## Key Findings

- COVID-19 cases and deaths has increased by **36,427** and **21**, respectively, since the last report in the ASEAN Region.
- There are **three** mpox new cases in the ASEAN Region since last report.
- **29** new rabies cases and **29** new deaths has been found since last report for zoonosis in the ASEAN Region.
- Dengue cases and deaths has significantly increased by **49,724** and **111** since the last report. Meanwhile, **34** new malaria cases and **253** new chikungunya cases has been found since the last report for vector-borne diseases in the ASEAN Region.
- There are **71** new diphtheria cases and **828** new measles cases since last report for vaccine-preventable diseases in the ASEAN Region.

## Infectious Diseases in the ASEAN Region in 2023 – Summary Table

Epidemiological Week 50 | From January 1 to December 16, 2023

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	56,147	77	0.14%	-	-	-	-	-	-	-	-	-
Cambodia	540	0	0.00%	-	-	-	-	-	-	27,908	39	0.14%
Indonesia	103,334	1,309	1.27%	68	0	0.00%	117	117	100.00%	87,765	673	0.76%
Lao PDR	1,317	87	6.61%	1	0	0.00%	-	-	-	30,998	20	0.06%
Malaysia	127,959	345	0.27%	9	0	0.00%	10	10	100.00%	118,170	84	0.07%
Myanmar	7,811	5	0.06%	-	-	-	-	-	-	6,685	30	0.45%
Philippines	129,949	1,398	1.08%	1	0	0.00%	346	346	100.00%	189,185	637	0.34%
Singapore	584,398	222	0.04%	28	0	0.00%	-	-	-	9,441	0	0.00%
Thailand	41,804	832	1.99%	565	1	0.18%	6	6	100.00%	147,412	161	0.11%
Vietnam	100,747	20	0.02%	90	2	2.22%	64	64	100.00%	149,557	36	0.03%
<b>ASEAN Region</b>	<b>1,154,006</b>	<b>4,295</b>	<b>0.37%</b>	<b>762</b>	<b>3</b>	<b>0.40%</b>	<b>543</b>	<b>543</b>	<b>100.00%</b>	<b>767,121</b>	<b>1,680</b>	<b>0.22%</b>

Infectious Diseases	Malaria			Chikungunya			Measles			Diphtheria		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	1,899	0	0.00%	462	0	0.00%	9,120	11	0.12%	800	45	5.62%
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1,116	0	0.00%	185	0	0.00%	-	-	-	-	-	-
Myanmar	4,510	0	0.00%	-	-	-	-	-	-	-	-	-
Philippines	31	0	0.00%	2,850	0	0.00%	2,442	11	0.45%	178	45	25.28%
Singapore	21	0	0.00%	13	0	0.00%	6	0	0.00%	0	0	0.00%
Thailand	4,926	4	0.08%	1,321	0	0.00%	320	0	0.00%	5	0	0.00%
Vietnam	349	0	0.00%	-	-	-	-	-	-	41	3	7.32%
<b>ASEAN Region</b>	<b>12,798</b>	<b>4</b>	<b>0.03%</b>	<b>4,831</b>	<b>0</b>	<b>0.00%</b>	<b>11,888</b>	<b>22</b>	<b>0.19%</b>	<b>1,024</b>	<b>93</b>	<b>9.08%</b>



## EMERGING DISEASES

### COVID-19: Highlights and Situation Overview

- As of 16 December 2023 (5PM, GMT+7), there were **699,739,219** confirmed cases **worldwide**, including **6,957,587 deaths**. Globally, Case Fatality Rate (CFR) was **0.99%**.
- **36,564,109 total confirmed cases** of COVID-19 have been reported in the **ASEAN Region**.
- The CFR in the **ASEAN Region** was **1.01%**.

#### COVID-19 cases in the ASEAN region

ASEAN MEMBER STATES	FIRST CONFIRMED CASES	LATEST REPORT ON CONFIRMED	CUMULATIVE CASES	CUMULATIVE CASES IN 2023	NEW CASES SINCE LAST REPORT	CUMULATIVE DEATHS	NEW DEATHS SINCE LAST REPORT	CUMULATIVE CASES/ 100,000
Brunei Darussalam	10-Mar-20	06-Dec-23	317,587	56,147	1,814	225	0	71,299
Cambodia	27-Jan-20	16-Dec-23	138,978	540	15	3,056	0	810
Indonesia	02-Mar-20	16-Dec-23	6,815,037	103,334	553	161,921	0	2,441
Lao PDR	24-Mar-20	01-Dec-23	218,903	1,317	2	758	0	2,926
Malaysia	25-Jan-20	01-Dec-23	5,147,359	127,959	0	37,202	0	15,513
Myanmar	23-Mar-20	28-Nov-23	641,386	7,811	3	19,495	0	1,161
Philippines	30-Jan-20	16-Dec-23	4,128,961	129,949	1,375	66,795	16	3,670
Singapore	23-Jan-20	03-Dec-23	2,771,072	584,398	32,035	1,933	0	46,623
Thailand	13-Jan-20	04-Dec-23	4,760,712	41,804	590	34,501	5	6,793
Vietnam	23-Jan-20	31-Oct-23	11,624,114	100,747	0	43,206	0	11,747
<b>ASEAN REGION</b>			<b>36,564,109</b>	<b>1,154,006</b>	<b>36,427</b>	<b>369,092</b>	<b>21</b>	<b>5,376</b>

REGIONS	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
AFRICA	12,855,377	134	258,858	1
AMERICAS	198,154,470	180,275	3,026,483	1,973
ASEAN	36,564,109	36,427	369,092	21
ASIA & OCEANIA	199,089,024	19,820	1,214,858	122
EUROPE	252,076,239	271,468	2,088,296	1,396
<b>GLOBAL TOTAL</b>	<b>699,739,219</b>	<b>508,124</b>	<b>6,957,587</b>	<b>3,513</b>

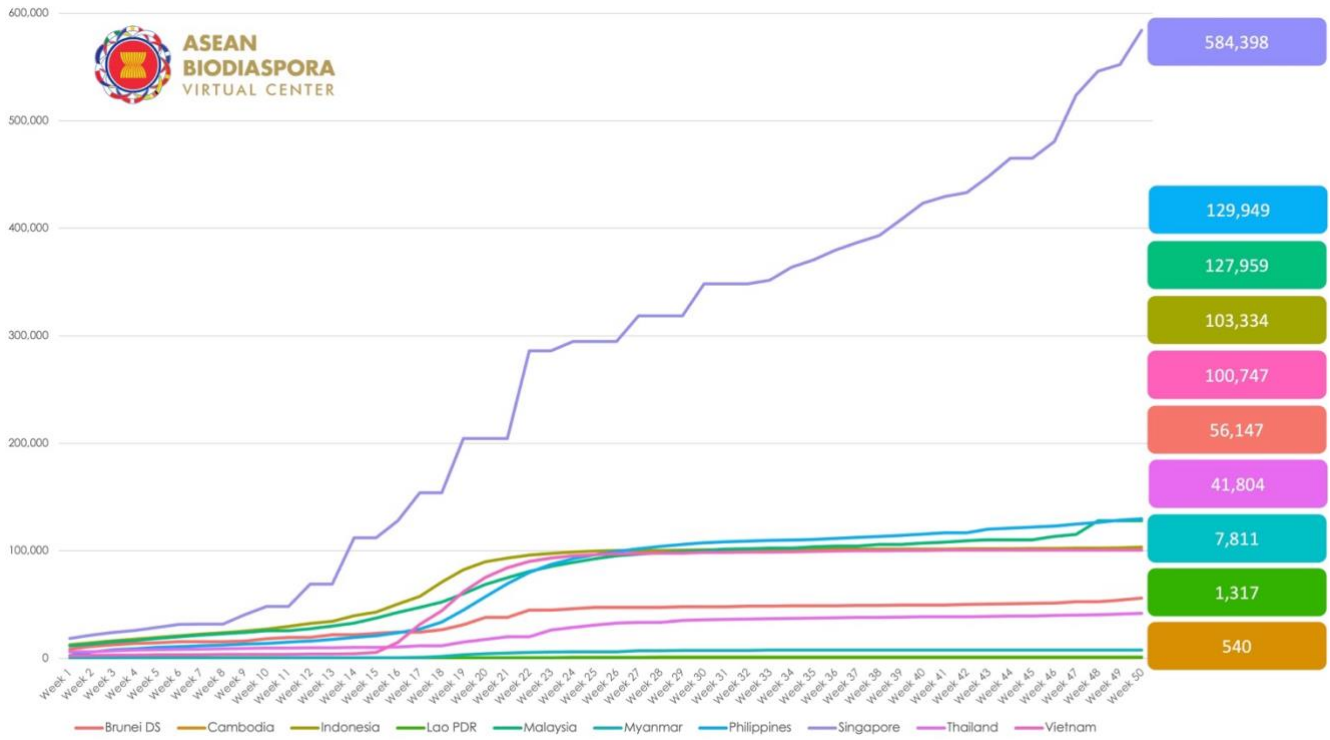
\*\*Data Reference: [Worldometer](#), [WHO](#)





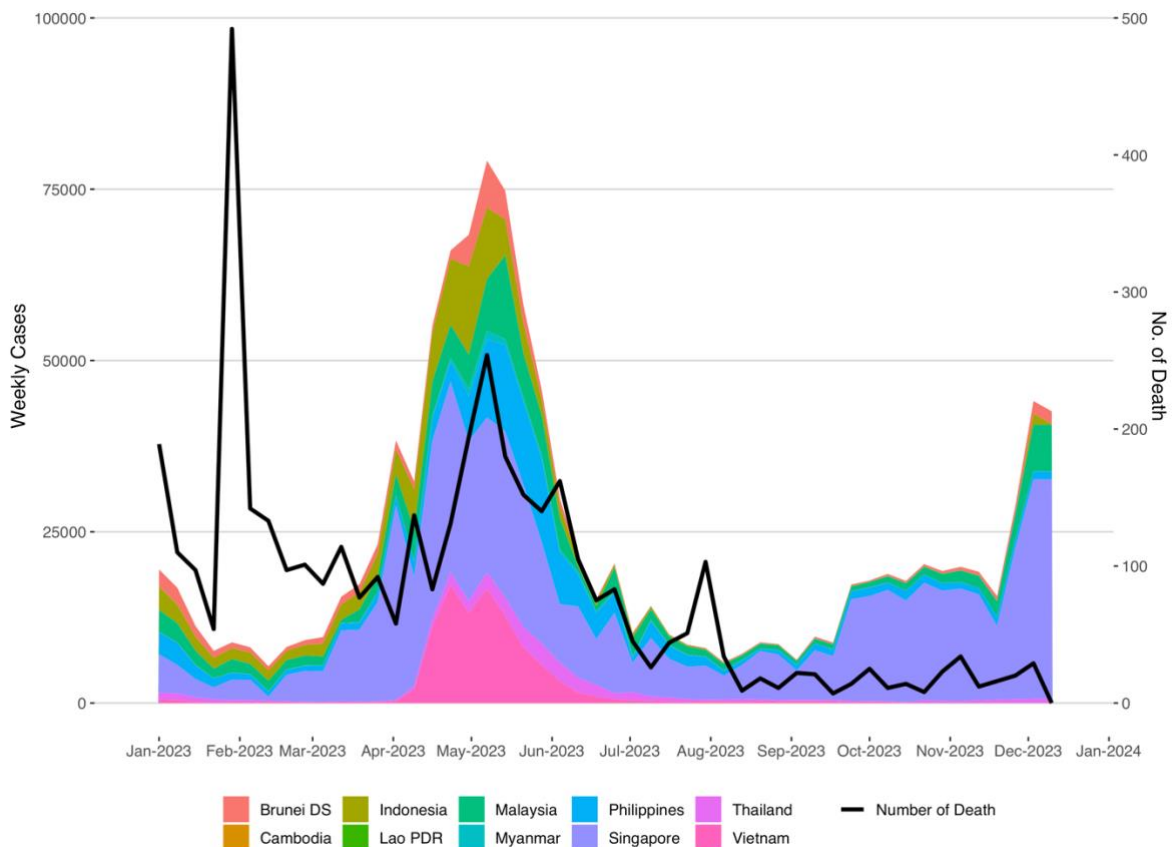
## COVID-19 Epidemic Curve Among the ASEAN Member States

From January 1 to December 16, 2023



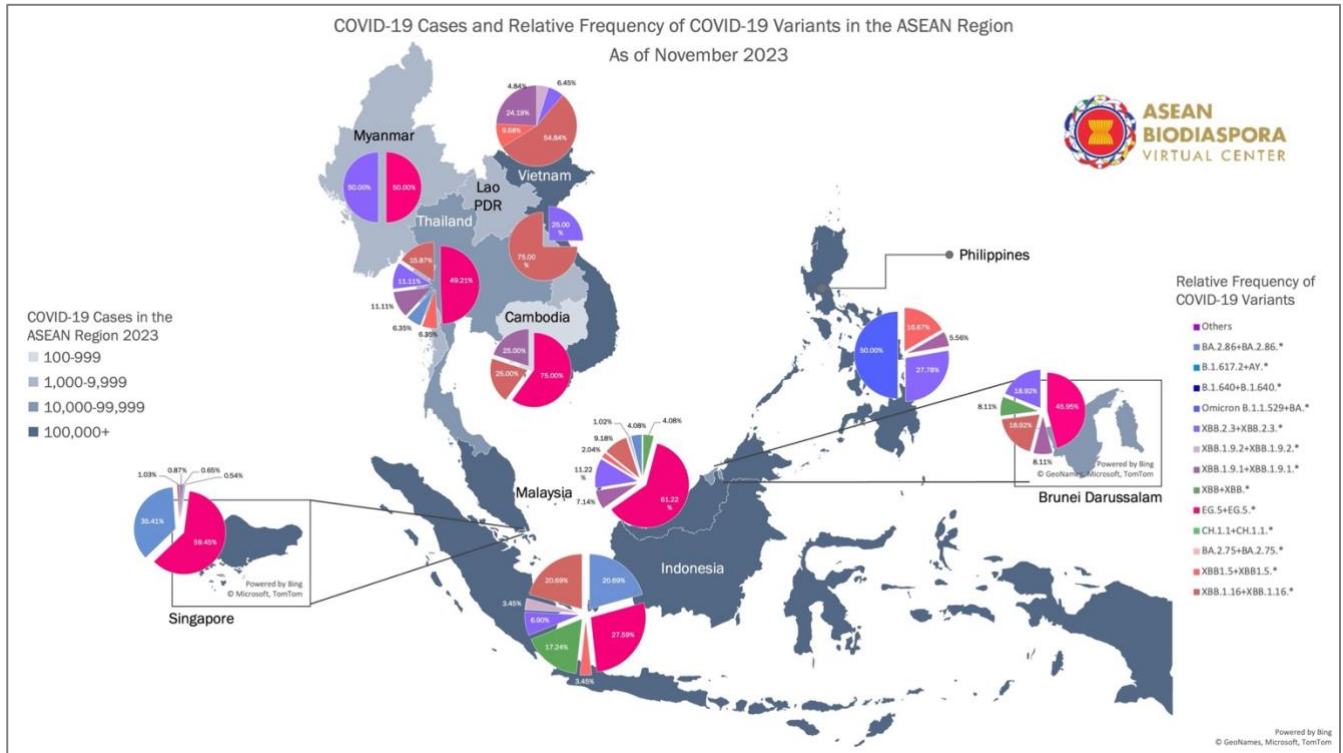
## ASEAN Weekly COVID-19 New Cases and Deaths

From January 1, 2023 to December 16, 2023



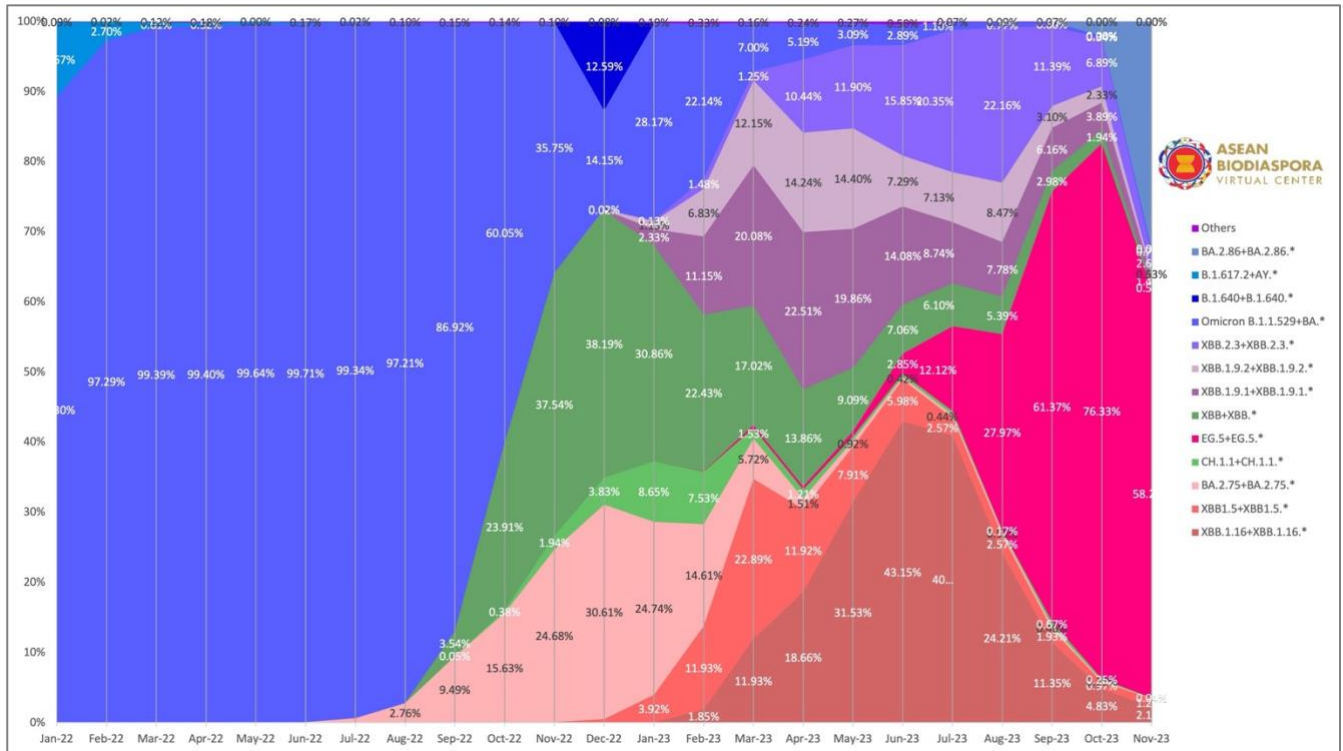
\*\*Data References: [Singapore Government](#), [Worldometer](#), and the [WHO](#)

## COVID-19 Variants Frequencies Among the ASEAN Member States In November 2023



GISAID. "hCoV-19 Variants Dashboard," accessed December 19, 2023, <https://gisaid.org/hcov-19-variants-dashboard/>.

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



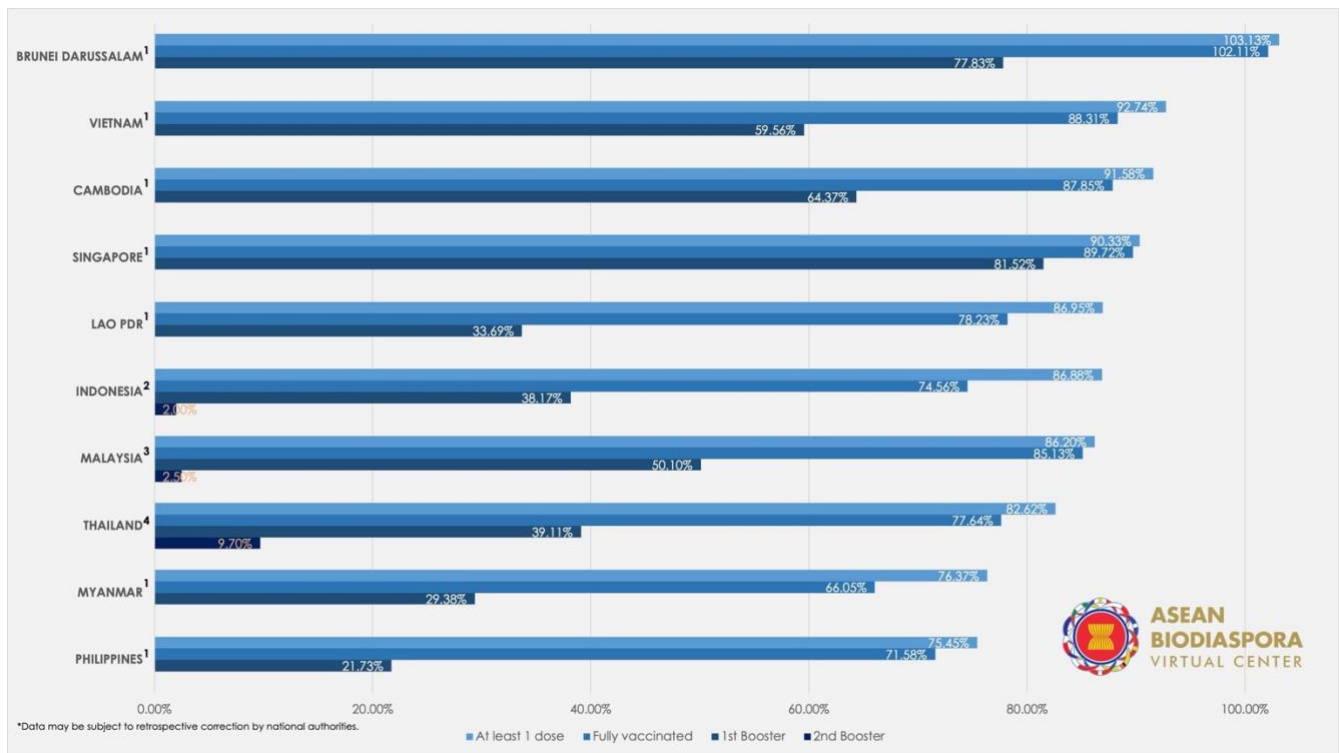
GISAID. "hCoV-19 Variants Dashboard," accessed December 19, 2023, <https://gisaid.org/hcov-19-variants-dashboard/>.



## ASEAN COVID-19 Vaccination Status

As of 16 December 2023

ASEAN MEMBER STATES	CUMULATIVE WITH AT LEAST ONE DOSE	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTED	FULLY VACCINATED PER 100
Brunei Darussalam	451,149	446,714	340,466	102.11
Cambodia	15,311,319	14,688,007	10,762,713	87.85
Indonesia	203,878,542	174,965,977	69,308,083	74.56
Lao PDR	6,324,678	5,691,962	2,451,034	78.23
Malaysia	28,137,327	27,550,520	16,346,778	85.13
Myanmar	41,551,927	35,937,796	15,987,381	66.05
Philippines	82,684,774	78,443,972	23,811,248	71.58
Singapore	5,284,679	5,248,693	4,769,158	89.72
Thailand	57,678,376	54,190,997	27,409,734	77.64
Vietnam	90,272,853	85,961,564	57,975,220	88.31
<b>Total</b>	<b>531,575,624</b>	<b>483,126,202</b>	<b>229,161,815</b>	<b>71.04</b>



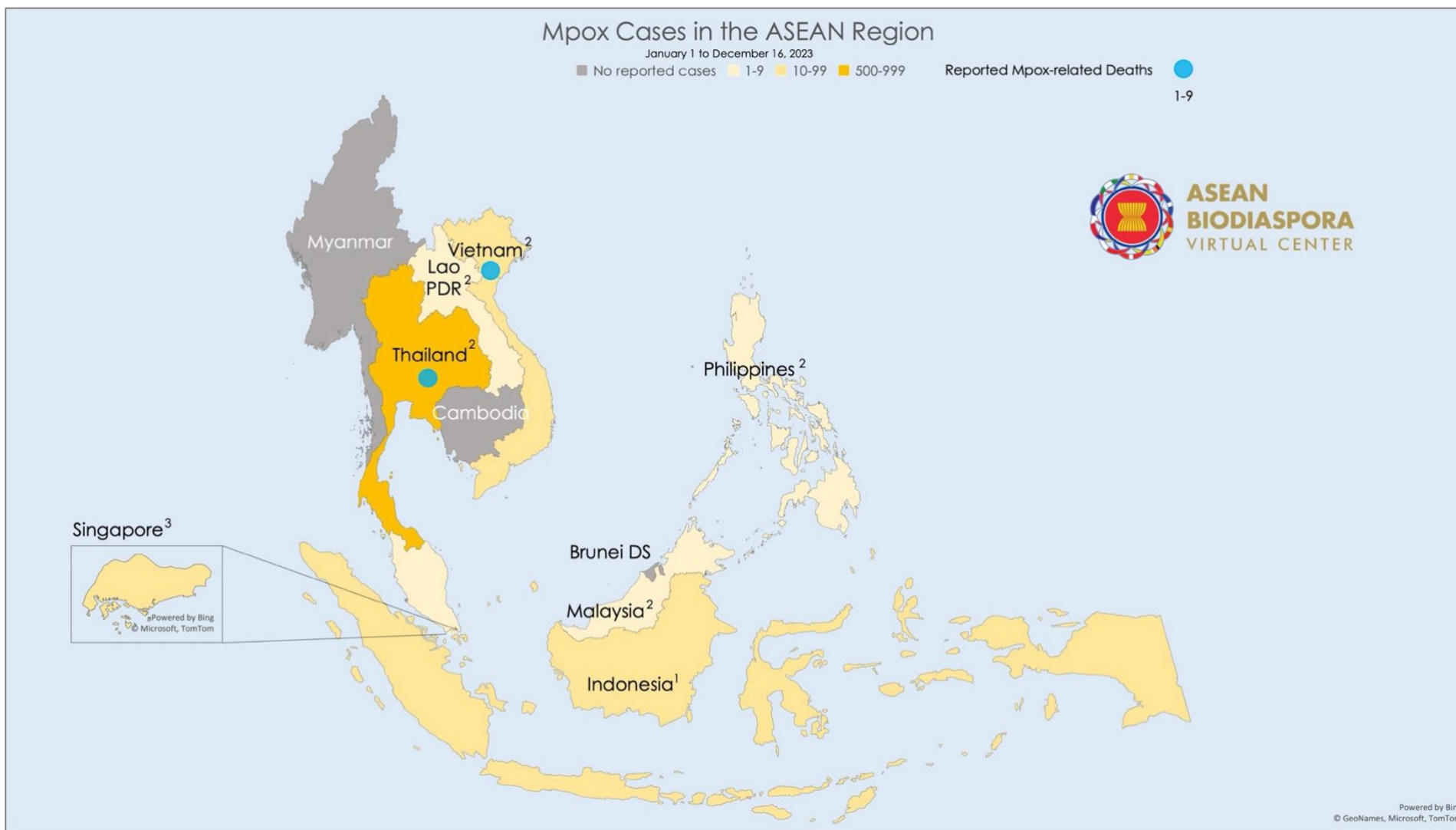
1. World Health Organization, Coronavirus (Covid-19) Data, accessed December 19, 2023 <https://covid19.who.int/data>  
 2. Ministry of Health Indonesia, "Vaccine Dashboard, December 19, 2023, <https://vaksin.kemkes.go.id/#/vaccines>  
 3. Ministry of Health Malaysia, Covid-19 vaccination, accessed December 19, 2023, <https://data.moh.gov.my/dashboard/covid-vaccination>  
 4. Ministry of Public Health Thailand, Covid-19 Vaccination Infographic, accessed December 19, 2023, <https://dashboard-vaccine.moph.go.th/>





# Mpox Cases Reported in the ASEAN Region

January 1 – December 16, 2023



1. Ministry of Health Republic of Indonesia  
2. EBS BlueDot (Accessed on December 19, 2023)  
3. Ministry of Health Singapore, accessed December 19, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>



## Mpox: Highlights and Situation Overview

- From 01 January to 16 December 2023, **8,118** confirmed cases worldwide in 2023, including **98** deaths. Globally, the CFR was **1.21%**.
- **762 confirmed cases** including **three deaths** in the **ASEAN** region in 2023, with a CFR of **0.40%**.
- **7,356 confirmed cases** of mpox have been reported in **other regions** in 2023 (other than the **ASEAN** region):

### Mpox cases in the ASEAN region (Jan. 1 to Dec. 16, 2023)

ASEAN Member States	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Indonesia <sup>1</sup>	68	3	0	0.00%
Lao PDR <sup>2</sup>	1	0	0	0.00%
Malaysia <sup>2</sup>	9	0	0	0.00%
Philippines <sup>2</sup>	1	0	0	0.00%
Singapore <sup>3</sup>	28	0	0	0.00%
Thailand <sup>2</sup>	565	0	1	0.18%
Vietnam <sup>4</sup>	90	0	2	2.22%
<b>ASEAN Total</b>	<b>762</b>	<b>3</b>	<b>3</b>	<b>0.40%</b>

1. Ministry of Health Republic of Indonesia
2. EBS Bluedot (Accessed on December 19, 2023)
3. Ministry of Health Singapore, accessed December 19, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>
4. 2022-23 Mpox Outbreak: Global Trends. Geneva: World Health Organization, 2023. Available online: [https://worldhealthorg.shinyapps.io/mpx\\_global/](https://worldhealthorg.shinyapps.io/mpx_global/) (last cited: December 12, 2023).

### Top 5 countries with the most mpox cases globally (Jan. 1 to Dec. 16, 2023)

Country	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
People's Republic of China <sup>1</sup>	1,614	0	1	0.06%
United States of America <sup>2</sup>	1,467	0	35	2.39%
Democratic Republic of Congo <sup>2</sup>	610	0	2	0.33%
Thailand <sup>2</sup>	565	0	1	0.18%
Brazil <sup>2</sup>	456	0	2	0.44%

1. 2022-23 Mpox Outbreak: Global Trends. Geneva: World Health Organization, 2023. Available online: [https://worldhealthorg.shinyapps.io/mpx\\_global/](https://worldhealthorg.shinyapps.io/mpx_global/) (last cited: December 19, 2023).
2. Edouard Mathieu, Fiona Spooner, Saloni Dattani, Hannah Ritchie and Max Roser (2022) - "Mpox (monkeypox)". Published online at OurWorldInData.org. Retrieved from: <https://ourworldindata.org/monkeypox> [Online Resource]

### Mpox cases per region

REGIONS	CUMULATIVE CASES 2023	NEW CASES SINCE THE PREVIOUS REPORT	CUMULATIVE DEATHS 2023	CFR
AFRICA <sup>5</sup>	765	0	7	0.92%
AMERICAS <sup>5</sup>	3,561	0	84	2.36%
ASEAN	758	3	3	0.40%
ASIA & OCEANIA <sup>5</sup>	2,344	0	2	0.09%
EUROPE <sup>5</sup>	690	0	2	0.29%
<b>TOTAL</b>	<b>8,118</b>	<b>3</b>	<b>98</b>	<b>1.21%</b>



## Event Updates for Emerging Diseases

Epidemiological Week 50 | December 10 – 16, 2023

### Global Updates for Emerging Diseases

#### COVID-19

- **People's Republic of China:** As of December 10, seven COVID-19 subvariant JN.1 infections were detected in China, with the highest proportion in Europe (Mity, 2023). The mutated variant, initially identified in Luxembourg, has since been identified in at least 40 countries worldwide, with a growing trend in the US and other continents. [\[Full article\]](#)
- **Japan's** health ministry reports a third consecutive week of increased COVID-19 cases, with 17,379 cases reported across 5,000 medical institutions (Wires, 2023). The average number of patients per institution rose by 28%, with Hokkaido having the highest number at 7.82. About 500 institutions reported 1,468 hospitalizations, up 445 from the previous week. [\[Full article\]](#)
- The **United States (US)** Center for Disease Control (CDC) has identified JN.1, the fastest-growing COVID-19 variant in the US, accounting for around 21% of cases (Carbajal, 2023). The strain, closely related to BA.2.86, has a single mutation in its spike protein, the L455S mutation, which experts believe has immune-evasion properties. The CDC has no evidence that JN.1 presents an increased risk to public health. The prevalence of JN.1 could be between 15% and 29% for the week ending December 9. The CDC estimates its prevalence is highest at nearly 32% in the Department of Health and Human Services (HHS) Region 2. [\[Full article\]](#)

#### Mpox

- **Japan** has reported its first death from mpox, a viral zoonosis, over a year after detecting its first case in July (Eliana, 2023). The patient, aged 30, was suffering from immunodeficiency. The disease, which is transmitted through contact with infected animals or respiratory tract secretions, is characterized by rash or skin lesions. Currently, there is no treatment for mpox, only symptom relief and prevention measures. [\[Full article\]](#)

#### Nipah

- **Bangladesh** has reported 14 Nipah virus cases this year, with 10 fatalities, according to the Institute of Epidemiology, Disease Control, and Research (IEDCR) (Schnirring, 2023). The cases are at the highest level in seven years. The virus, a paramyxovirus, causes severe encephalitis and has a high case-fatality rate of 45%-75%. Infections follow a seasonal pattern from December through May, with no vaccines or treatments. The virus is a priority for the World Health Organization (WHO) and the Coalition for Epidemic Preparedness Innovations. [\[Full article\]](#)
- **India:** Indian Council of Medical Research (ICMR) Director General, has stated that the mortality rate of those infected with the Nipah virus is high, between 40% and 70%, compared to COVID-19's 2-3% (Star Digital Report, 2023). The statement came after Kerala reported one more confirmed case, raising the total number to six. India plans to procure 20 more doses of monoclonal antibody from Australia for the treatment of Nipah virus infection. [\[Full article\]](#)



## Regional Updates for Emerging Diseases

### COVID-19

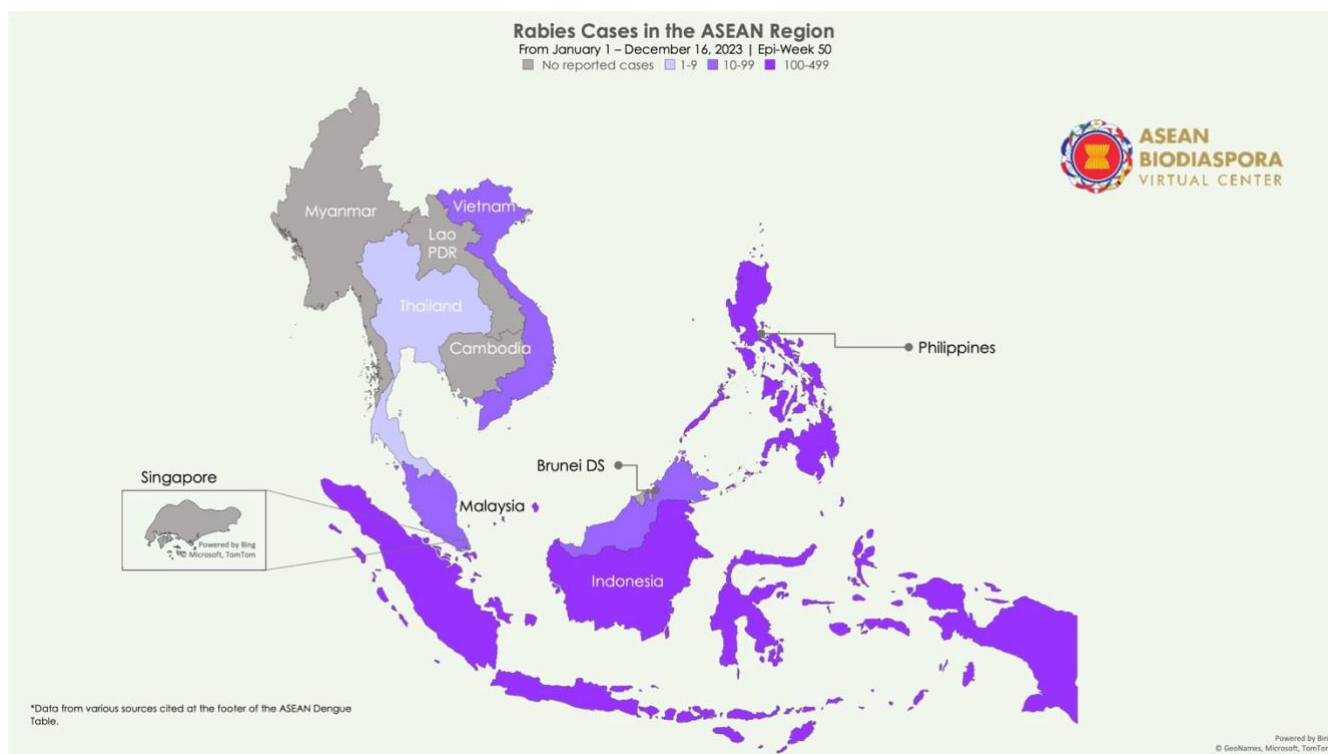
- **Indonesia:** Bali Province Health Service has confirmed 60 COVID-19 cases, with one person dying while testing positive (The Bali Sun, 2023). Officials urge the public to be proactive in mitigating the virus, including vaccination and health protocols like wearing masks and handwashing. The Ministry of Tourism and Creative Economy has reactivated risk mitigation efforts. [\[Full article\]](#)
- **Malaysia:** The number of COVID-19 cases in Malaysia nearly doubled in the last week of December, prompting medical experts to call for mask-ups (The Straits Times, 2023). The surge in cases is attributed to increased mobility during the year-end holiday season, with 11 deaths reported. The elderly and those with comorbidities are particularly vulnerable, and mask-ups and booster shots are recommended for vulnerable groups. [\[Full article\]](#)
- The **Philippines** reported 183 new COVID-19 cases, bringing the total to 4,127,769. Active cases decreased by 63 to 3,813, while recoveries rose by 246 to 4,057,177 (BM, 2023). The National Capital Region had the most new cases in the last 14 days, followed by Calabarzon, Western Visayas, Central Luzon, and Central Visayas. Quezon City reported the most new cases. [\[Full article\]](#)
- The **Singapore** Ministry of Health reported a 75% increase in COVID-19 cases from December 3 to 9, with the majority infected by the JN.1 variant (CNBCTV18.COM, 2023). The average daily hospitalizations increased from 225 to 350, and intensive care unit cases rose from four to nine. [\[Full article\]](#)
- **Thailand:** The Department of Disease Control reported a significant increase in confirmed COVID-19 cases from December 3-9, bringing the total number of infections to 36,794 (Bangkok Post, 2023). Five deaths were reported last week, raising the death toll to 831. Currently, 94 COVID-19 patients have active lungs infections, 49 of which require oxygen supplementation. The actual number of new infections is likely to be between 4,215-5,854 per day, with cases expected to increase as the BA.2.86 variant becomes dominant in Thailand. [\[Full article\]](#)



## ZOONOSIS

### Rabies Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



#### 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 50	117	8	117	100%
<b>Lao PDR</b>	-	-	-	-	-
<b>Malaysia<sup>1</sup></b>	Week 50	10	1	10	100%
<b>Myanmar</b>	-	-	-	-	-
<b>Philippines<sup>2</sup></b>	Week 46	346	19	346	100%
<b>Singapore</b>			Rabies-free country		
<b>Thailand<sup>3</sup></b>	Week 49	6	1	6	100%
<b>Vietnam<sup>1</sup></b>	Week 40	64	0	64	100%
<b>Total</b>		<b>543</b>	<b>29</b>	<b>543</b>	<b>100%</b>

1. BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>.  
 2. Department of Health Website, accessed December 19, 2023 "Statistics," <https://doh.gov.ph/statistics>.  
 3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 19, 2023, <http://doe.moph.go.th/surdata/index.php>

- The **ASEAN** region reported **29** new rabies cases in Indonesia, Malaysia, the Philippines, and Thailand. The region reported **543** total cases and **543** total deaths in 2023 with **100%** CFR.



## Event Updates for Zoonosis

### Epidemiological Week 50 | December 10 – 16, 2023

#### Regional Updates for Zoonosis

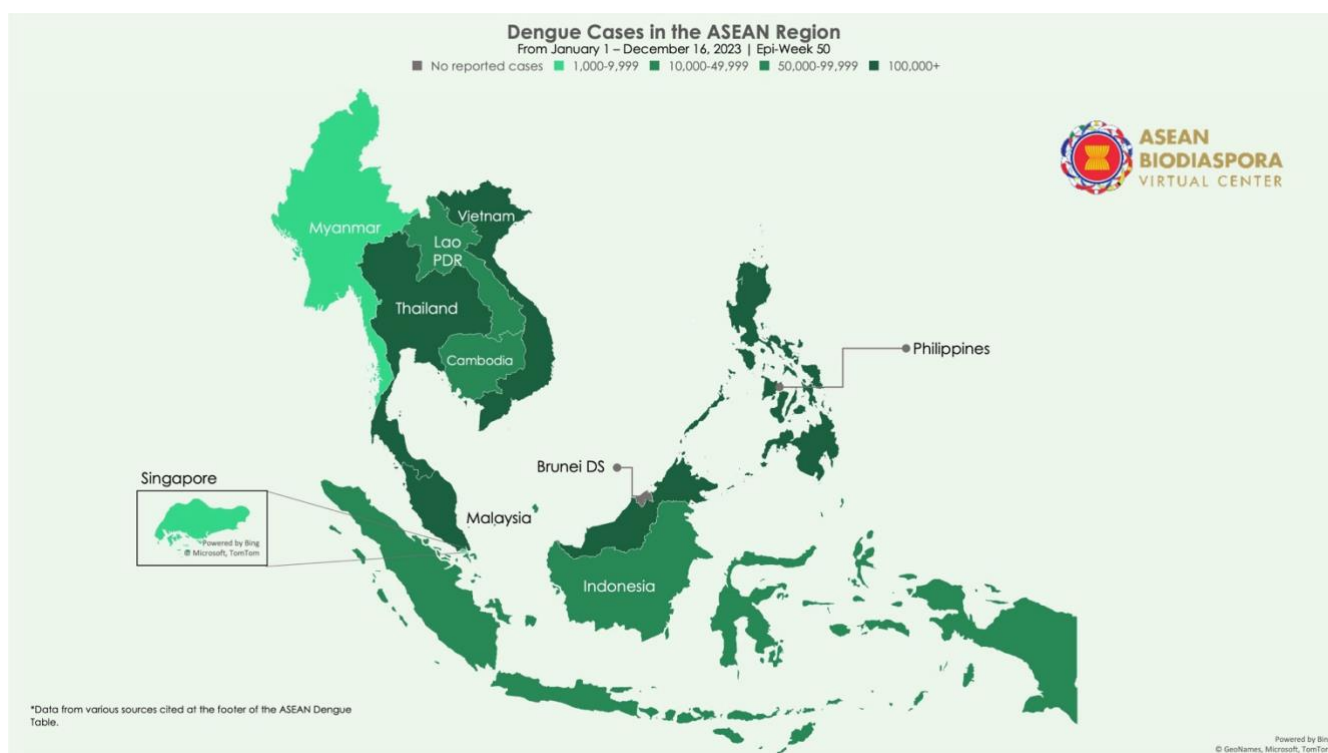
##### Rabies

- **Indonesia:** A 46-year-old resident of Besnam Village, Fatukopa District, South Timor Tengah District, has become the 13<sup>th</sup> victim to die from the rabies virus (Dini, 2023). He was bitten by a dog on September 4, 2023, and was given a vaccine but not the anti-rabies vaccine. The victim experienced symptoms of fever, leg pain, difficulty walking, difficulty swallowing, and restlessness. The family has been educated to take the victim to a hospital, but they refused. The patient's condition became increasingly agitated, secreting mucus and speaking irregularly. On December 10, 2023, the patient was restless and slurred his speech. Officers conducted mobile tracing in the village, and by December 11, 2023, the patient had died. The rabies virus has caused significant health issues in the region, the victim died on December 11, 2023. [\[Full article\]](#)
- **Malaysia:** A 44-year-old female in Kuching, Sarawak, died from rabies, marking the 16<sup>th</sup> death in the Bornean state this year (FMT, 2023). The victim had six pet cats, none of which were vaccinated against the disease. She had diabetes and high blood pressure, and had never sought treatment or received rabies vaccination. The 16 deaths this year are higher than the 14 reported in 2022. The physician has advised public to take precautionary measures and ensure pets receive anti-rabies injections. [\[Full article\]](#)
- **Vietnam:** Gia Lai Province has the highest number of rabies deaths in the country, with 13 deaths reported since 2023 (Tuấn, 2023). The CDC of Gia Lai is working with the Department of Livestock and Veterinary Health to spread and vaccinate livestock. Raising awareness and educating people about rabies is crucial, as it can lead to 100% death. The Department of Animal Husbandry and Veterinary Health needs to strengthen resources and facilities for rabies vaccination. The health sector will focus on supporting funds for vaccination and anti-rabies serum for preventive treatment. [\[Full article\]](#)

## VECTOR-BORNE DISEASES

### Dengue Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



#### Dengue cases in the ASEAN region

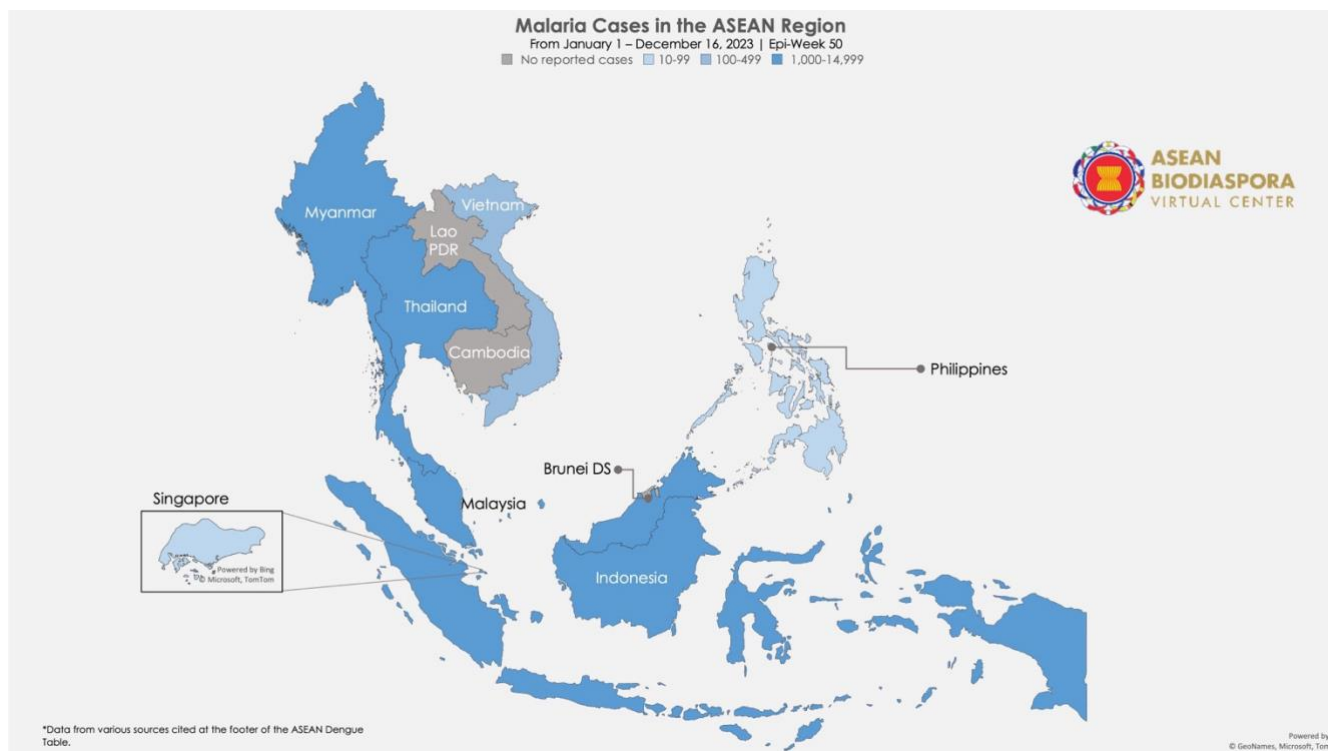
Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
<b>Brunei Darussalam</b>	-	-	-	-	-	-
<b>Cambodia<sup>1</sup></b>	Week 43	27,908	996	39	0	0.14%
<b>Indonesia<sup>2</sup></b>	Week 49	87,765	4,463	673	40	0.77%
<b>Lao PDR<sup>1</sup></b>	Week 47	30,998	706	20	1	0.06%
<b>Malaysia<sup>3</sup></b>	Week 49	118,170	3,105	84	0	0.07%
<b>Myanmar<sup>4</sup></b>	Week 28	6,685	0	30	0	0.45%
<b>Philippines<sup>5</sup></b>	Week 47	189,185	21,830	637	62	0.34%
<b>Singapore<sup>6</sup></b>	Week 50	9,441	214	0	0	0.00%
<b>Thailand<sup>7</sup></b>	Week 49	147,412	4,732	161	7	0.11%
<b>Vietnam<sup>1</sup></b>	Week 46	149,557	13,678	36	1	0.02%
<b>Total</b>		<b>767,121</b>	<b>49,724</b>	<b>1,680</b>	<b>111</b>	<b>0.22%</b>

1. WHO WPRO, "Dengue," World Health Organization, accessed December 19, 2023, <https://www.who.int/westernpacific/emergencies/surveillance/dengue>.  
 2. Ministry of Health, Republic of Indonesia  
 3. Disease Control Division, Ministry of Health Malaysia, accessed December 19, 2023, iDengue, <https://idengue.mysa.gov.my/did/>.  
 4. BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>.  
 5. Department of Health Website, accessed December 19, 2023 "Statistics," <https://doh.gov.ph/statistics>.  
 6. National Environment Agency (NEA), accessed December 19, 2023, Dengue cases, <https://www.nea.gov.sg/dengue-zika/dengue/dengue-cases>.  
 7. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 19, 2023, <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.

- The **ASEAN** region reported **49,724** new dengue cases in Cambodia, Indonesia, Lao PDR, Malaysia, the Philippines, Singapore, Thailand, and Vietnam – **111** Deaths. The region reported **767,121** total cases and **1,680** total deaths in 2023 with **0.22%** CFR.

## Malaria Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



### 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 44	1,899	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia <sup>1</sup>	Week 45	1,116	0	0	0.00%
Myanmar <sup>1</sup>	Week 23	4,510	0	0	0.00%
Philippines <sup>1</sup>	Week 28	31	0	0	0.00%
Singapore <sup>3</sup>	Week 49	21	1	0	0.00%
Thailand <sup>2</sup>	Week 49	4,926	33	4	0.08%
Vietnam <sup>1</sup>	Week 42	349	0	0	0.00%
<b>Total</b>		<b>12,798</b>	<b>34</b>	<b>4</b>	<b>0.03%</b>

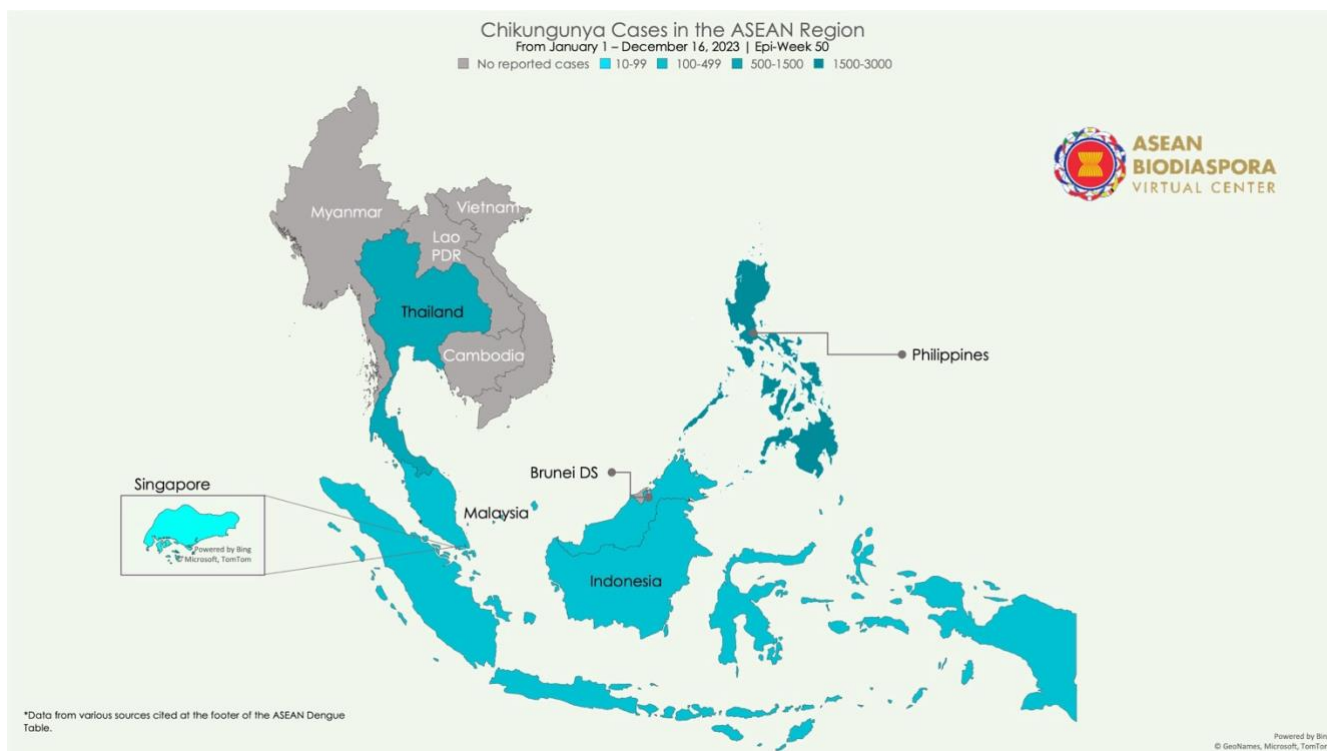
1. BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>.  
 2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 19, 2023, <http://doe.moph.go.th/surdata/index.php>.  
 3. Ministry of Health Singapore, accessed December 19, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>.

- The **ASEAN** region reported **34** new malaria cases in Singapore and Thailand since the previous report. The region reported **12,798** total cases and **four** total deaths in 2023 with **0.03%** CFR.



## Chikungunya Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



### Chikungunya 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	-	-	-	-	-	-
Indonesia <sup>1</sup>	Week 47	462	0	0	-	0.00%
Lao PDR	-	-	-	-	-	-
Malaysia <sup>2</sup>	Week 44	185	0	0	-	0.00%
Myanmar	-	-	-	-	-	-
Philippines <sup>3</sup>	Week 47	2,850	159	0	-	0.00%
Singapore <sup>4</sup>	Week 46	13	0	0	-	0.00%
Thailand <sup>5</sup>	Week 47	1,321	94	0	-	0.00%
Vietnam	-	-	-	-	-	-
<b>Total</b>		<b>4,831</b>	<b>253</b>	<b>0</b>		<b>0.00%</b>

1. BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>
2. Portal Rasmi, Ministry of Health Malaysia, accessed December 19, 2023, [https://www.moh.gov.my/index.php/database\\_stores/store\\_view/17](https://www.moh.gov.my/index.php/database_stores/store_view/17)
3. Department of Health Website, accessed December 19, 2023 "Statistics," <https://doh.gov.ph/statistics>.
4. Ministry of Health Singapore, accessed December 19, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>
5. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 19, 2023, <http://doe.moph.go.th/surdata/index.php>

- The **ASEAN** region reported **253** new chikungunya cases in the Philippines and Thailand. The region reported **4,831** total cases and **NO** deaths in 2023 with **0.00%** CFR.



## Event Updates for Vector-borne Diseases

### Epidemiological Week 50 | December 10 – 16, 2023

#### Global Updates for Vector-borne Diseases

##### Dengue

- **Bangladesh** has recorded 179 hospital admissions for new dengue patients, bringing the total to 318,982 infections this year (News Desk, 2023). The death toll remains at 1,678, with no new deaths in the 24 hours to December 16 morning. The disease has been attributed to a prolonged monsoon, rising temperatures, and a lack of effective measures to kill the *Aedes aegypti* mosquito. [\[Full article\]](#)
- **Pakistan:** The Health Department Punjab reported a decrease in dengue cases due to lower temperatures, but 33 new cases were recorded, bringing the year's total to 14,964 cases across the province (Raja, 2023). Lahore remains the top city, with 6,895 cases reported. 26 patients are receiving treatment in Punjab hospitals, and Health Secretary urges citizens to maintain clean and dry surroundings. [\[Full article\]](#)
- **Sri Lanka:** Dengue cases in 2023 have surpassed 80,000, with the highest number in Colombo district at 16,948 (Fernandopulle, 2023). The Western Province has the highest at 37,216 cases. 47 people have died this year, prompting health officials to urge cleanliness and mosquito control. [\[Full article\]](#)

#### Regional Updates for Vector-borne Diseases

##### Chikungunya

- **Malaysia:** As for chikungunya surveillance, that four cases and one active outbreak were reported in 48<sup>th</sup> epidemiological week (Malay Mail, 2023). The cumulative number of chikungunya cases to date is 192. For Zika surveillance, a total of 3,479 blood samples and 379 urine samples, all negatives. [\[Full article\]](#)

##### Dengue

- **Malaysia:** Dengue fever cases in Malaysia increased by 11.2% in the 48<sup>th</sup> epidemiological week from November 26 to December 2, compared to its previous week (Malay Mail, 2023). The cumulative number of cases increased by 91.3% to 111,417 cases, with 84 deaths due to complications. The number of hotspot localities in 48<sup>th</sup> epidemiological week increased from 79 to 95, with 71 reported in Selangor, followed by the Federal Territories of Kuala Lumpur and Putrajaya. Chikungunya surveillance reported four cases and one active outbreak in 48<sup>th</sup> epidemiological week. [\[Full article\]](#)
- **Vietnam:** A young man in Hanoi lost almost 13 kg after undergoing 10 days of dengue treatment (24h.com.vn, 2023). The Hanoi CDC reported 38,582 dengue cases from the beginning of the year to December 8, including 4 deaths. The majority of severe disease cases are subjectively treated at home. The 31-year-old man from Thanh Tri, Hanoi, lost 13 kg after exhibiting malaria. He initially thought he had a common fever but later experienced symptoms similar to a friend's. He called home tests and was hospitalized. [\[Full article\]](#)



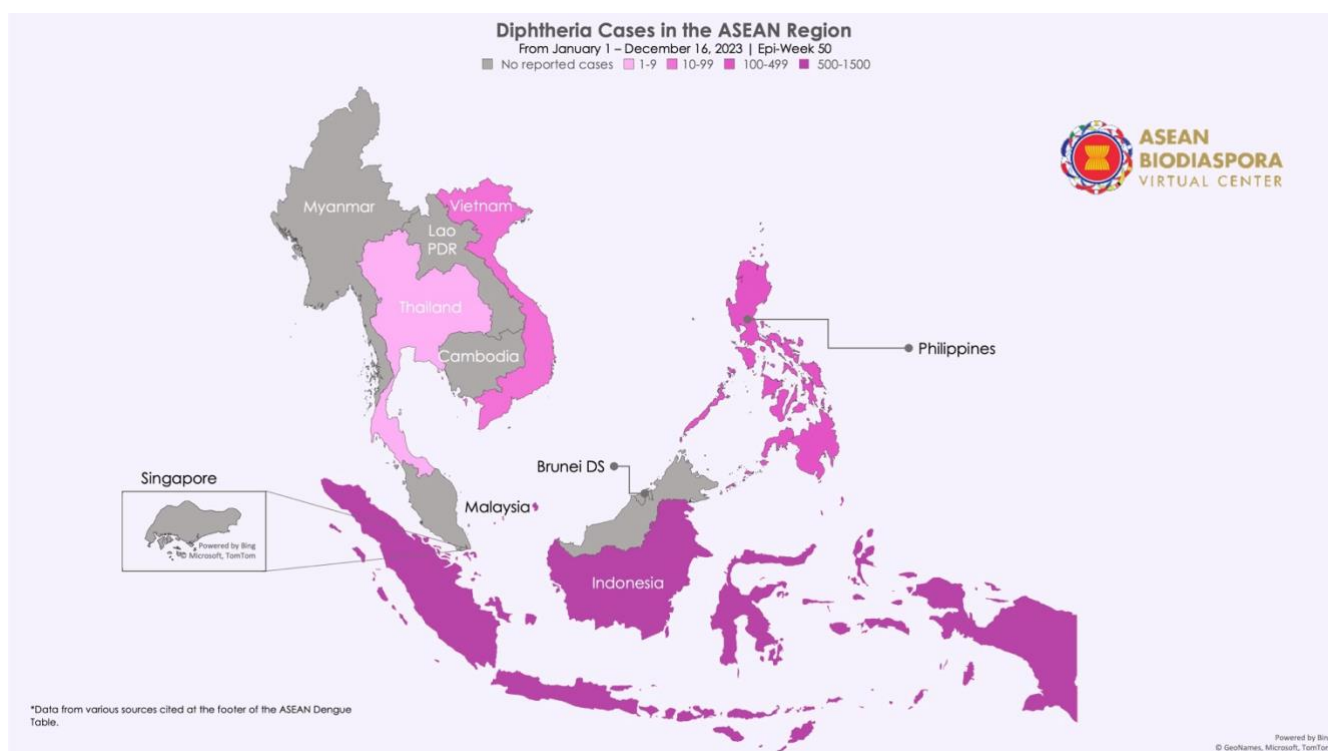
## Zika

- **Thailand:** Six cases of the Zika virus have been diagnosed in Prachuap Khiri Khan province, prompting public health officials to warn residents and fumigate residential areas to eliminate mosquito larvae (Post Reporters, 2023). Zika symptoms are similar to dengue fever, and pregnant women are at risk due to microcephaly in children. Non-pregnant individuals may experience headaches, joint pain, skin rashes, and pinkeye. [\[Full article\]](#)

## VACCINE-PREVENTABLE DISEASES

### Diphtheria Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



#### 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 49	800	55	45	5.62%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines <sup>2</sup>	Week 46	178	16	45	25.28%
Singapore <sup>3</sup>	-	0	0	0	0.00%
Thailand <sup>4</sup>	Week 46	5	0	0	0.00%
Vietnam <sup>5</sup>	Week 38	41	0	3	7.32%
<b>Total</b>		<b>1,024</b>	<b>71</b>	<b>93</b>	<b>9.08%</b>

1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed December 19, 2023 "Statistics," <https://doh.gov.ph/statistics>.
3. Ministry of Health Singapore, accessed December 19, 2023, <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 December 19, 2023, <http://doe.moph.go.th/surdata/index.php>
5. BlueDot Developer Portal, accessed December 19, 2023, <https://developer-portal.bluedot.global/>

- The ASEAN region reported **71** new diphtheria cases in Indonesia and the Philippines since the previous report. The region reported **1,024** total cases and **93** total deaths in 2023 with **9.08%** CFR.



## Measles Cases in the ASEAN Region

From January 1 to December 16, 2023 (Epi-Week 50)



### 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 49	9,120	310	11	0.12%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines <sup>2</sup>	Week 46	2,442	518	11	0.45%
Singapore <sup>3</sup>	Week 49	6	0	0	0.00%
Thailand <sup>4</sup>	Week 46	320	0	0	0.00%
Vietnam	-	-	-	-	-
<b>Total</b>		<b>11,888</b>	<b>828</b>	<b>22</b>	<b>0.19%</b>

1. Ministry of Health, Republic of Indonesia  
 2. Department of Health Website, accessed December 19, 2023 "Statistics," <https://doh.gov.ph/statistics>.  
 3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 19, 2023, <http://doe.moph.go.th/surdata/index.php>  
 4. Ministry of Health Singapore, accessed December 19, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

- The **ASEAN** region reported **828** new measles cases since the previous report. The region reported **11,888** total cases and **22** total deaths in 2023 with **0.19%** CFR.



## Event Updates for Vaccine-Preventable Diseases

Epidemiological Week 50 | December 10 – 16, 2023

### Global Updates for Vaccine-Preventable Diseases

#### Diphtheria

- The **United Kingdom (UK)**: Diphtheria has been confirmed at Wigmore Primary School in Luton, UK (Singh, 2023). The UK Health Security Agency (UKHSA) East of England is working with local and national partners to implement public health measures and conduct a risk assessment. The agency has identified close contacts of the case and will provide vaccination and advice to prevent the spread of the infection. Health experts stress that the risk of onward transmission and to the wider community is low. The school maintains that the risk to children is "low" but urges anyone suspected of having the infection to seek urgent medical attention. Over the past decade, the number of cases in England has risen from an average of two to 11 per year. [\[Full article\]](#)

#### Measles

- The **Republic of Korea** has reported eight measles cases this year, all imported from overseas, with four from Kazakhstan, two from India, and one from Thailand (Kyeong-In, 2023). Four out of eight cases have occurred since October, prompting the Korea Disease Control and Prevention Agency (KDCA) to alert medical institutions. Visitors to measles-endemic countries are advised to receive two doses of the measles vaccine. Citizens born on or after January 1, 1968, who have never had measles and have no vaccination record, should be vaccinated twice. The incubation period for measles is 7 to 21 days, and if symptoms occur, avoid public transportation and minimize contact with others. Measles is a class 2 statutory infectious disease, with an infection reproduction index of 12 to 18, and is easily spread through coughing or sneezing. The global measles case count increased by 2.9-fold in 2018, with Europe, Southeast Asia, the Western Pacific region, and Yemen, India, Pakistan, Kazakhstan, and Turkey seeing an increase. [\[Full article\]](#)
- **Kazakhstan**: A six-month-old infant died of measles in Ust-Kamenogorsk due to complications such as false croup and pneumonia (Arbuztoday.ru, 2023). The infant was not vaccinated and delayed treatment could have caused death. The family stayed in Shymkent for a month before returning to Ust-Kamenogorsk. The infant was urgently hospitalized due to persistent fever and deterioration of his condition. Physicians fought for his life for over three days, but the first death from measles was recorded on December 3. In 2023, Kazakhstan ranked 3rd in measles incidence, with Yemen leading with 25,216 cases. The National Vaccination Calendar in Kazakhstan states that vaccination against measles, mumps, and rubella is carried out at the age of one year. [\[Full article\]](#)
- The **United Arab Emirates**: A passenger on a flight from Dubai to Tel Aviv has tested positive for measles, a highly contagious viral disease (Jerusalem Post Staff, 2023). The Health Ministry advises passengers and crew to contact a physician if symptoms occur and seek medical attention upon arrival. [\[Full article\]](#)
- **Russia**: Doctors in the Stavropol Territory are identifying new cases of measles, mainly imported, with 287 registered since March (Golyanova, 2023). The disease's high contagiousness has led to a 14-fold increase in infected people in six months. Approximately 8,000 people have been identified, with over a thousand needing urgent immunization. Doctors monitor the environment and recommend vaccination, but 20% of contacts refuse it. The situation remains stable, but the spread of the disease is increasing. [\[Full article\]](#)



## Pertussis

- **Kazakhstan:** Whooping cough, caused by *Bordetella* bacteria, is an infectious disease characterized by paroxysmal cough and catarrhal symptoms (Azh.kz, 2023). The most effective preventive measure is three-time vaccination for children, with three injections at two, three, and four months, and revaccination at 18 months. No group morbidity was registered in organized groups. [\[Full article\]](#)



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[emergencia-internacional-nota/](https://www.eluniverso.com/noticias/internacional/una-persona-muere-en-japon-por-viruela-simica-el-virus-que-fue-declarado-una-emergencia-internacional-nota/) (Accessed: 18 December 2023).

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