

ASEAN BIODIASPORA VIRTUAL CENTER

Morbidity and Mortality Weekly Report

Infectious and Emerging Diseases

ASEAN REGION

December 13, 2023 | MMWR 2023-49
Epidemiological Week 49

With Support by:





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Weekly Issue





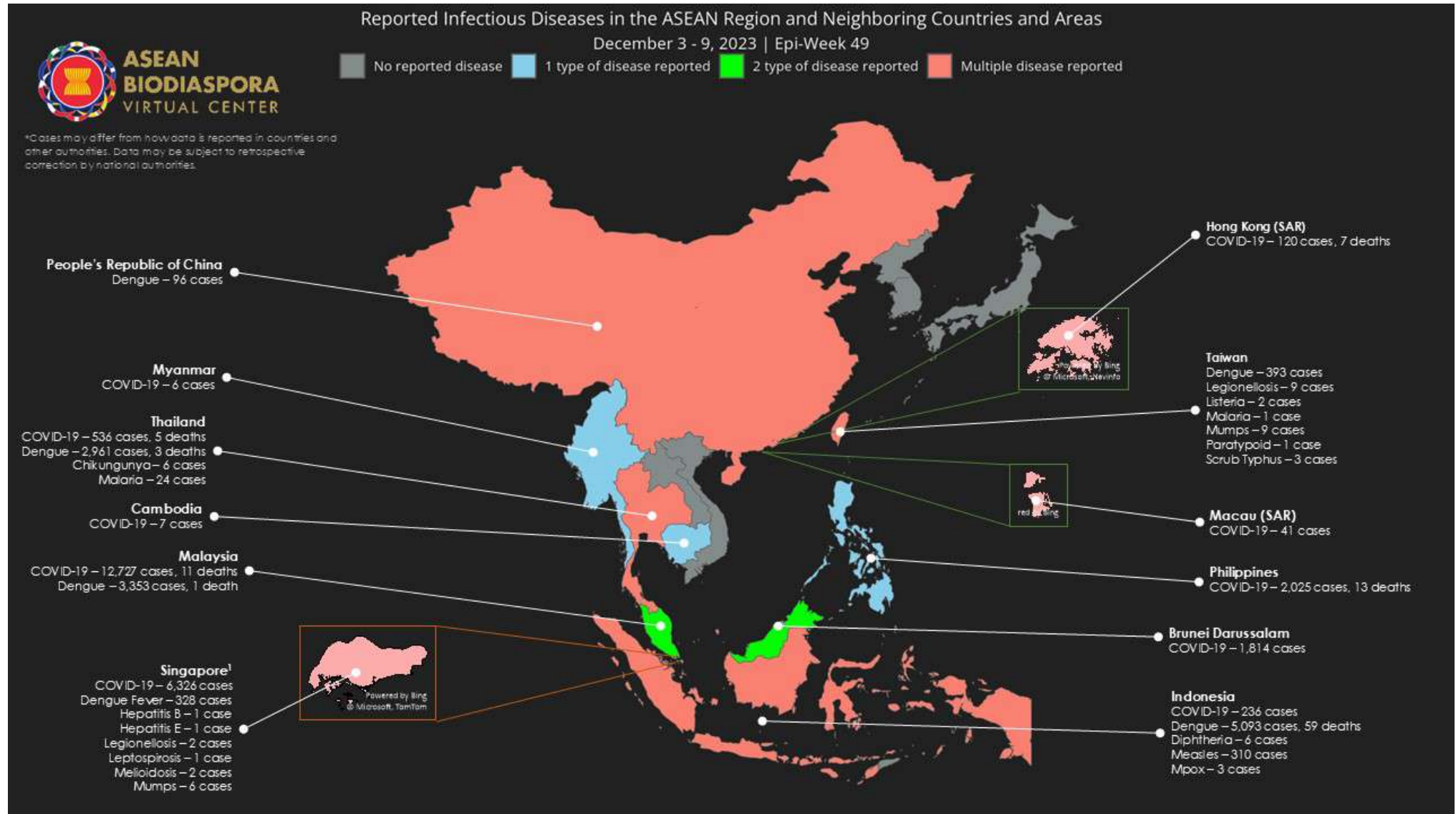
Table of Contents

Infectious Diseases	1		
Reported Infectious Diseases in the ASEAN Region and Neighboring Countries	1		
Infectious Diseases in the ASEAN Region in 2023 – Summary Table 1 of 2	2		
Infectious Diseases in the ASEAN Region in 2023 – Summary Table 2 of 2	3		
Emerging Diseases	4		
COVID-19	5		
COVID-19 Cases and Deaths	5		
COVID-19 Cases in the ASEAN Region Table	5		
Epidemic Curve Among the ASEAN Member States	6		
ASEAN Weekly New Cases and Deaths	7		
COVID-19 Variants Frequencies Among the ASEAN Member States	8		
COVID-19 Variants Frequencies in the ASEAN Region	9		
ASEAN COVID-19 Vaccination Status	10		
Mpox	11		
Mpox Cases Reported in the ASEAN Region	11		
Highlights and Situation Overview	12		
Mpox Cases in the ASEAN Region Table	12		
Top 5 Countries with Most Mpox Cases Globally	12		
Mpox Cases per Region	12		
Event Updates for Emerging Diseases	13		
Global Updates	13		
Regional Updates	13		
Zoonosis	14		
Rabies	15		
Rabies Cases in the ASEAN Region Map	15		
Rabies Cases in the ASEAN Region Table	15		
Event Updates for Zoonosis Diseases	16		
Global Updates	16		
Regional Updates	17		
		Vector-Borne Diseases	18
		Dengue	19
		Dengue Cases in the ASEAN Region Map	19
		Dengue Cases in the ASEAN Region Table	19
		Malaria	20
		Malaria Cases in the ASEAN Region Map	20
		Malaria Cases in the ASEAN Region Table	20
		Chikungunya	21
		Chikungunya Cases in the ASEAN Region Map	21
		Chikungunya Cases in the ASEAN Region Table	21
		Event Updates for Vector-borne Diseases	22
		Global Updates	22
		Vaccine-Preventable Diseases	23
		Diphtheria	24
		Diphtheria Cases in the ASEAN Region Map	25
		Diphtheria Cases in the ASEAN Region Table	25
		Measles	26
		Measles Cases in the ASEAN Region Map	26
		Measles Cases in the ASEAN Region Table	26
		Event Updates for Vaccine-Preventable Diseases	27
		Global Updates	27
		Event Updates for Other Infectious Diseases	29
		Regional Updates	29
		References	30



Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 49 | December 3 – December 9, 2023



The data was taken from the BlueDot Developer Portal, accessed December 12, 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>.



Infectious Diseases in the ASEAN Region in 2023 – Summary Table 1 of 2

Epidemiological Week 49 | From January 1 to December 9, 2023

Infectious Diseases	COVID-19			Mpox			Rabies			Dengue		
	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR
Brunei Darussalam	54,293	77	0.15%	-	-	-	-	-	-	-	-	-
Cambodia	525	0	0.00%	-	-	-	-	-	-	26,912	39	0.14%
Indonesia	102,781	1,309	1.28%	65	0	0.00%	109	109	100.00%	85,897	653	0.76%
Lao PDR	1,315	87	6.62%	1	0	0.00%	-	-	-	30,292	19	0.06%
Malaysia	127,959	345	0.27%	9	0	0.00%	9	9	100.00%	115,065	84	0.07%
Myanmar	7,808	5	0.06%	-	-	-	-	-	-	6,685	30	0.45%
Philippines	128,574	1,382	1.07%	1	0	0.00%	327	327	100.00%	167,355	575	0.34%
Singapore	552,363	222	0.04%	28	0	0.00%	-	-	-	9,227	0	0.00%
Thailand	41,214	827	2.00%	565	1	0.18%	5	5	100.00%	142,680	154	0.11%
Vietnam	100,747	20	0.02%	90	2	2.22%	64	64	100.00%	135,879	35	0.03%
ASEAN Region	1,117,579	4,274	0.38%	759	3	0.40%	484	484	100.00%	719,992	1,589	0.22%



Infectious Diseases in the ASEAN Region in 2023 – Summary Table 2 of 2

Epidemiological Week 49 | From January 1 to December 9, 2023

Infectious Diseases	Malaria			Chikungunya			Measles			Diphtheria		
	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	1,899	0	0.00%	462	0	0.00%	9,120	11	0.12%	751	45	6.00%
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1,116	0	0.00%	185	0	0.00%	-	-	-	-	-	-
Myanmar	4,510	0	0.00%	-	-	-	-	-	-	-	-	-
Philippines	31	0	0.00%	2,691	0	0.00%	2,024	6	0.30%	162	38	23.46%
Singapore	20	0	0.00%	13	0	0.00%	6	0	0.00%	0	0	0.00%
Thailand	4,839	4	0.08%	1,277	0	0.00%	320	0	0.00%	5	0	0.00%
Vietnam	349	0	0.00%	-	-	-	-	-	-	41	3	7.32%
ASEAN Region	12,764	4	0.03%	4,628	0	0.00%	11,470	17	0.15%	959	86	8.97%

Dominique Faget/AFP/Getty Images

Emerging Diseases



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COVID-19 Cases and Deaths

- As of 09 December 2023 (5PM, GMT+7), there were **699,231,095** confirmed cases **worldwide**, including **6,954,090 deaths**. Globally, Case Fatality Rate (CFR) was **0.99%**.
- 36,527,682 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	CUMULATIVE WITH AT LEAST ONE DOSE	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTED	FULLY VACCINATED PER 100
Brunei Darussalam	10-Mar-20	29-Nov-23	315,733	54,293	1,814	225	0	70,883	451,149	446,714	340,466	102.11
Cambodia	27-Jan-20	09-Dec-23	138,963	525	7	3,056	0	809	15,311,319	14,688,007	10,762,713	87.85
Indonesia	02-Mar-20	08-Dec-23	6,814,484	102,781	236	161,921	0	2,441	203,878,542	174,965,977	69,308,083	74.56
Lao PDR	24-Mar-20	01-Dec-23	218,901	1,315	0	758	0	2,926	6,324,678	5,691,962	2,451,034	78.23
Malaysia	25-Jan-20	01-Dec-23	5,147,359	127,959	0	37,202	0	15,523	28,137,327	27,550,520	16,346,778	85.13
Myanmar	23-Mar-20	28-Nov-23	641,383	7,808	6	19,495	0	1,161	41,551,927	35,937,796	15,987,381	66.05
Philippines	30-Jan-20	09-Dec-23	4,127,586	128,574	2,025	66,779	13	3,669	82,684,774	78,443,972	23,811,248	71.58
Singapore	23-Jan-20	24-Nov-23	2,739,037	552,363	6,326	1,933	0	46,084	5,284,679	5,248,693	4,769,158	89.72
Thailand	13-Jan-20	04-Dec-23	4,760,122	41,214	536	34,496	5	6,793	57,678,376	54,190,997	27,409,734	77.64
Vietnam	23-Jan-20	31-Oct-23	11,624,114	100,747	0	43,206	0	11,747	90,272,853	85,961,564	57,975,220	88.31
ASEAN REGION			36,527,682	1,117,579	10,950	369,071	18	5,371	531,575,624	483,126,202	229,161,815	71.04

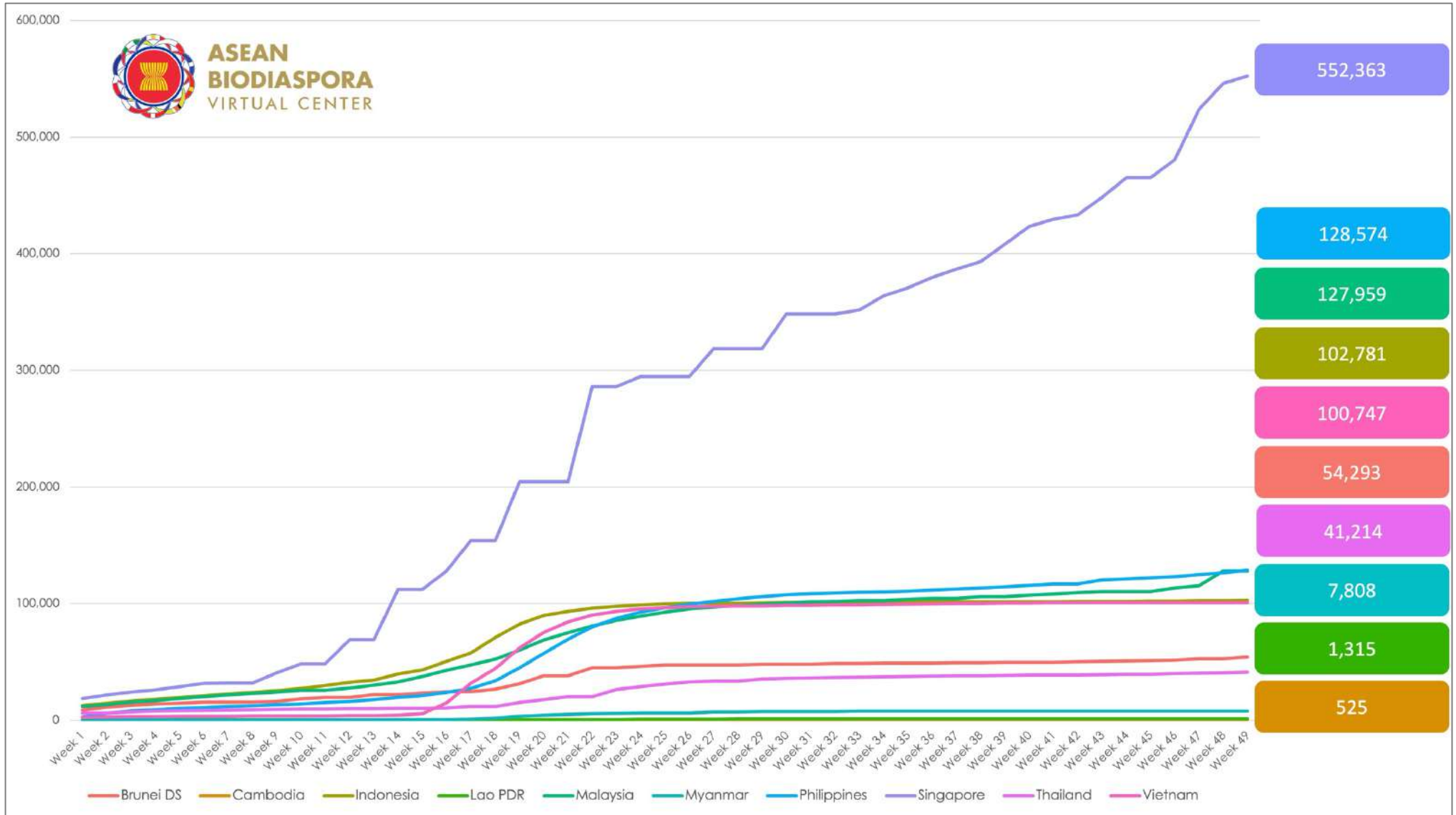
REGIONS	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
AFRICA	12,855,243	9,918	258,857	10
AMERICAS	198,974,195	164,003	3,024,510	4,970
ASEAN	36,527,682	10,950	369,071	18
ASIA & OCEANIA	199,069,204	26,479	1,214,752	752
EUROPE	251,804,771	295,409	2,086,900	6,364
GLOBAL TOTAL	699,231,095	506,759	6,954,090	12,114

**Data Reference: [Worldometer, WHO](https://www.worldometers.info/)



COVID-19 Epidemic Curve Among the ASEAN Member States

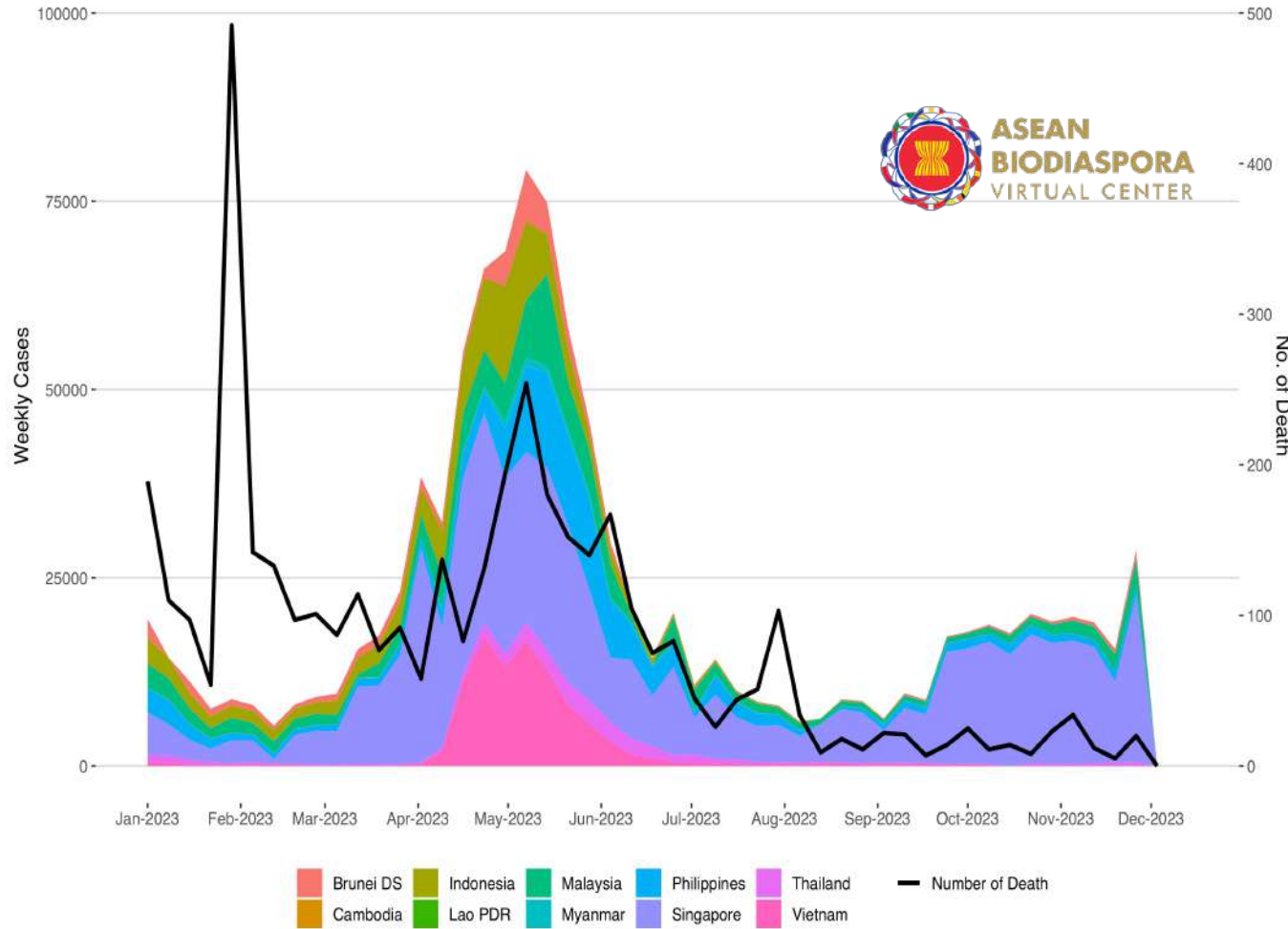
From January 1 to December 9, 2023





ASEAN Weekly COVID-19 New Cases and Deaths

From January 1, 2023 to December 9, 2023



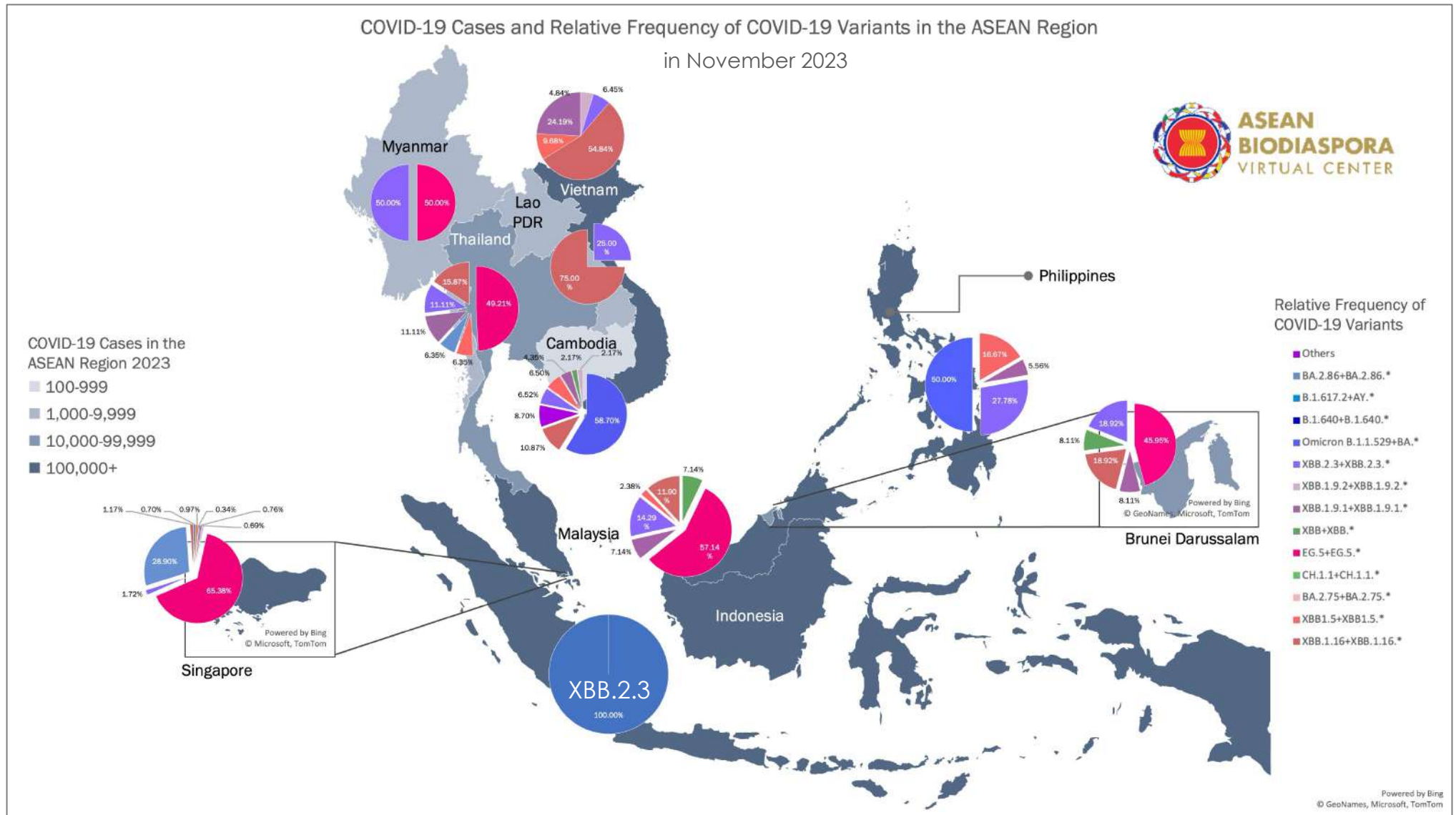
ASEAN COUNTRY	Weekly New Cases December 03 – December 09, 2023	Weekly Deaths December 03 – December 09, 2023
Brunei Darussalam	1,814	0
Cambodia	7	0
Indonesia	236	0
Lao PDR	0	0
Malaysia	0	0
Myanmar	6	0
Philippines	2,025	13
Singapore	6,326	0
Thailand	536	5
Vietnam	0	0

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



COVID-19 Variants Frequencies Among the ASEAN Member States

In November 2023

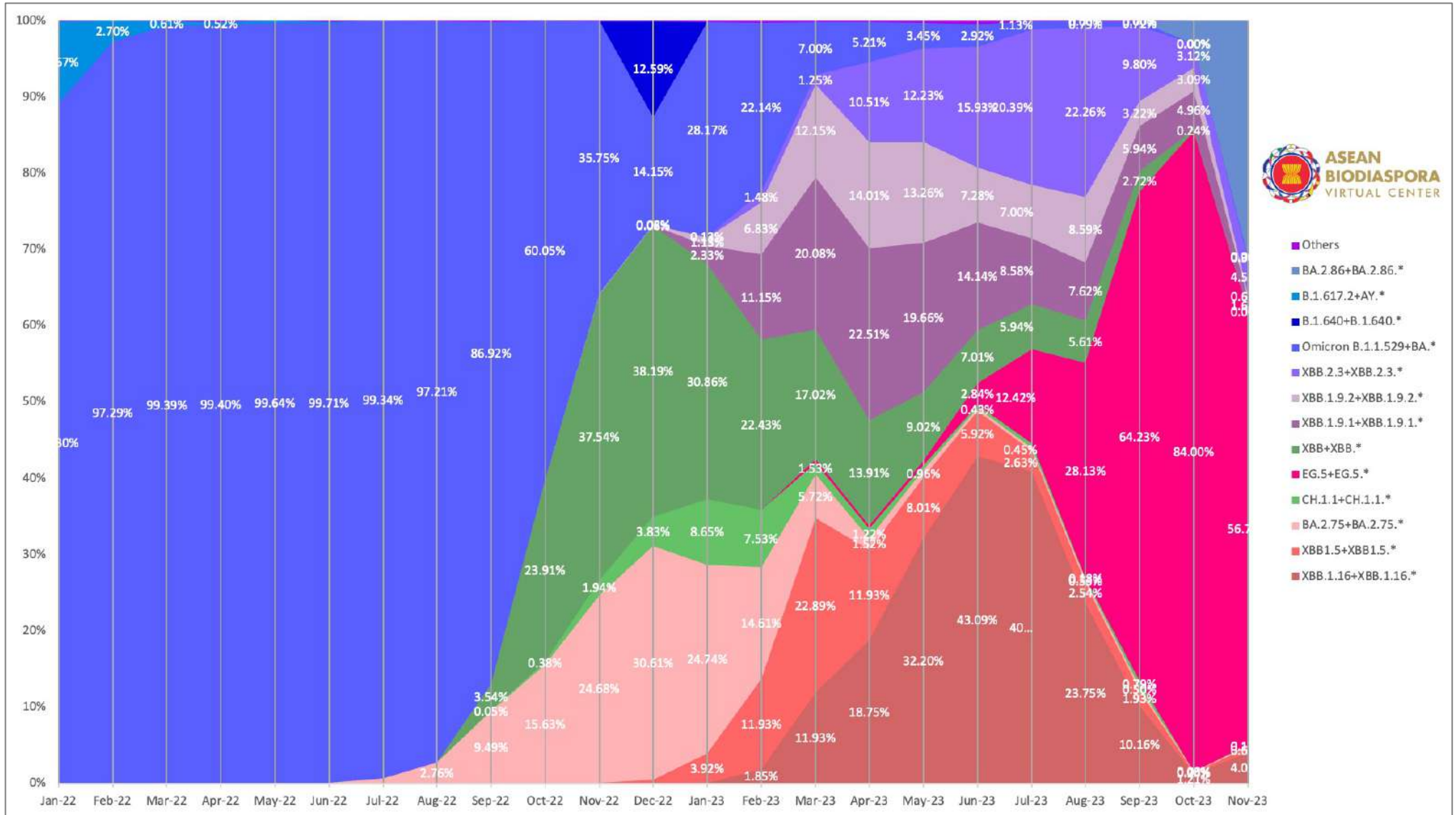


GISAIID. "hCoV-19 Variants Dashboard," accessed December 5, 2023, <https://gisaid.org/hcov-19-variants-dashboard/>.



COVID-19 Variants Frequencies in the ASEAN Region

From January to November 2023

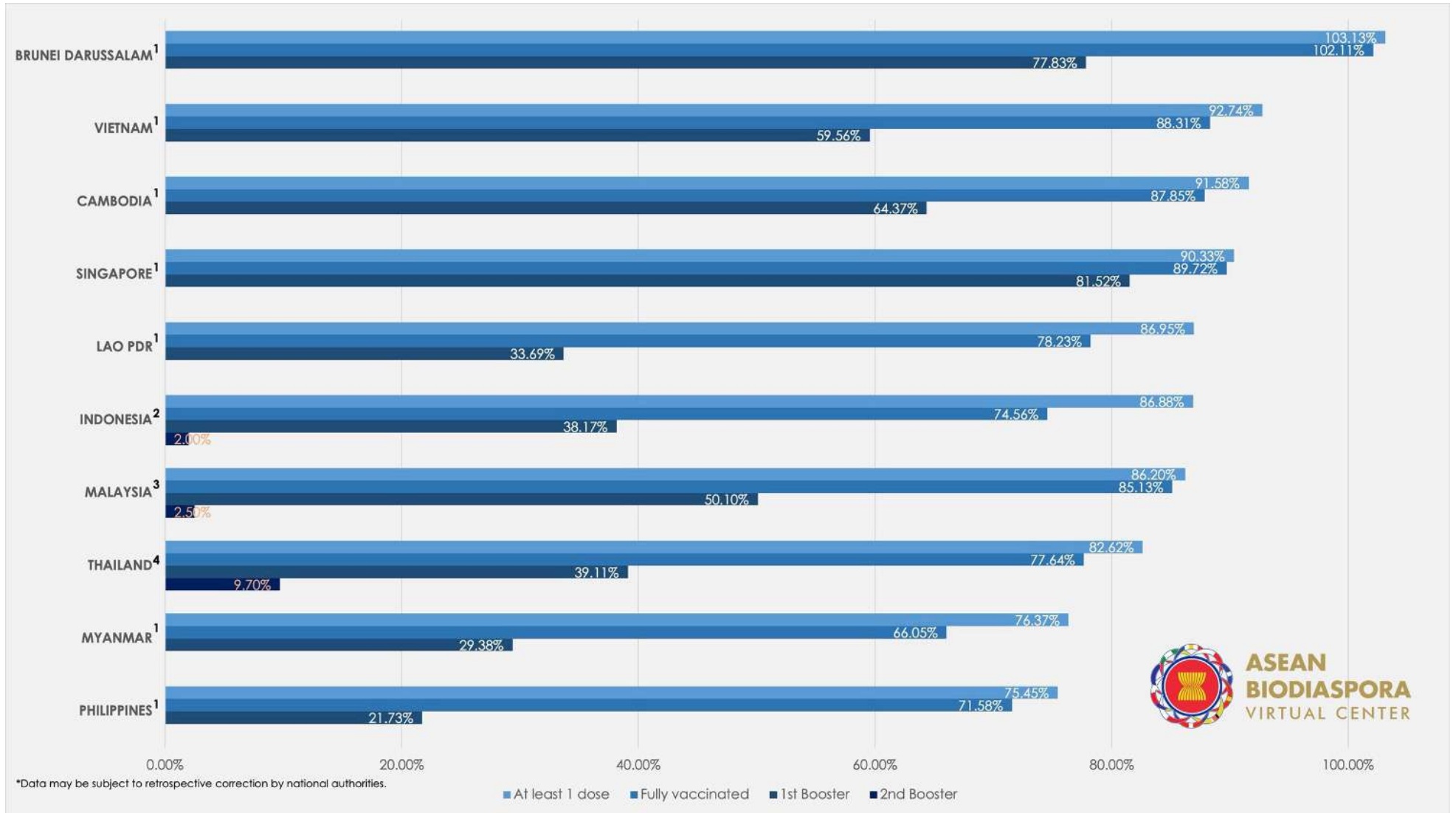


GISAID. "hCoV-19 Variants Dashboard," accessed December 5, 2023, <https://gisaid.org/hcov-19-variants-dashboard/>.



ASEAN COVID-19 Vaccination Status

As of 09 December 2023

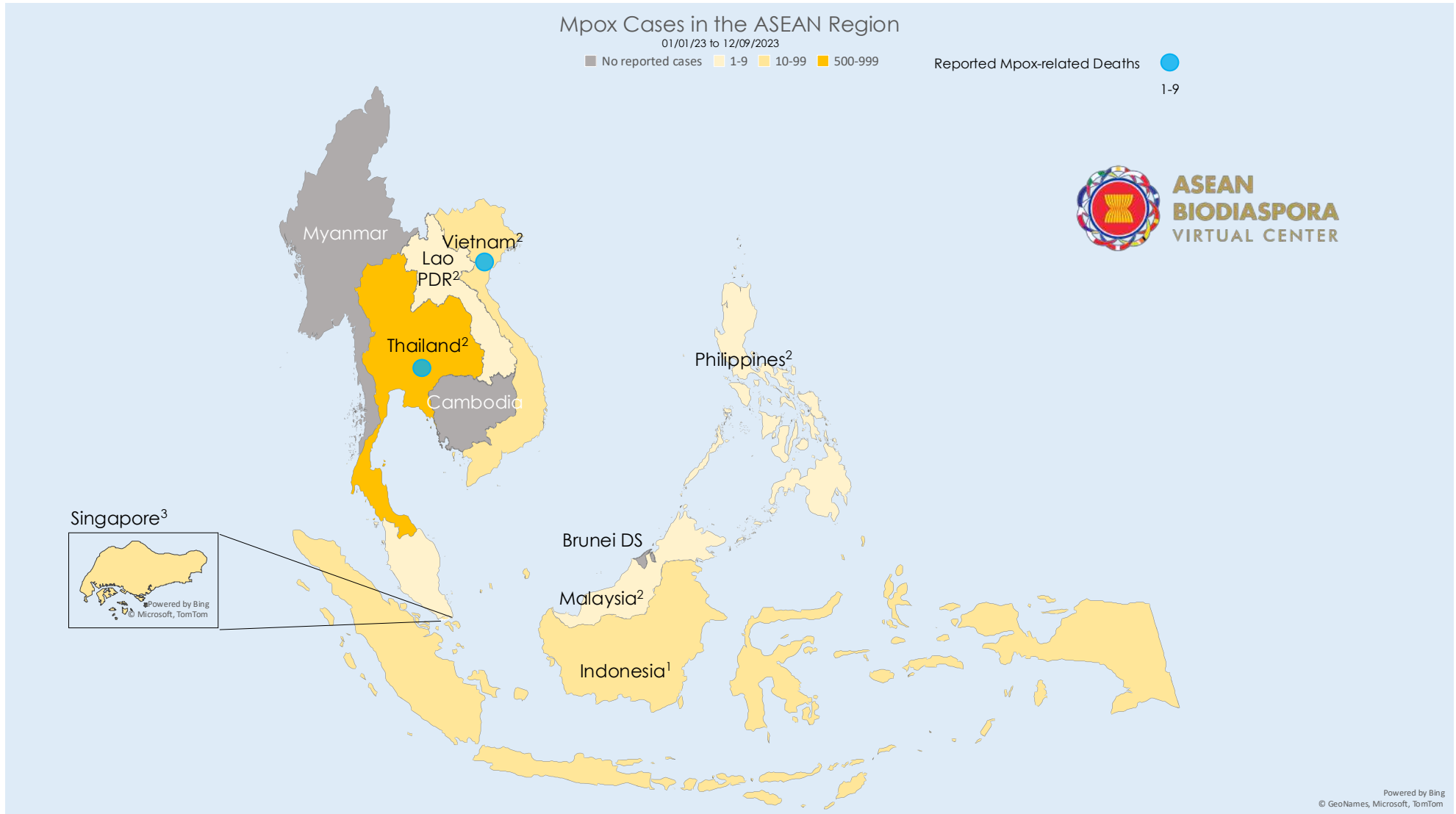


1. World Health Organization, Coronavirus (Covid-19) Data, accessed December 12, 2023 <https://covid19.who.int/data>
 2. Ministry of Health Indonesia, "Vaccine Dashboard, December 12, 2023, <https://vaksin.kemkes.go.id/#/vaccines>
 3. Ministry of Health Malaysia, Covid-19 vaccination, accessed December 12, 2023, <https://data.moh.gov.my/dashboard/covid-vaccination>
 4. Ministry of Public Health Thailand, Covid-19 Vaccination Infographic, accessed December 12, 2023, <https://dashboard-vaccine.moph.go.th/>



Mpox Cases Reported in the ASEAN Region

January 1 – December 9, 2023



1. Ministry of Health Republic of Indonesia
2. EBS Bluedot (Accessed on December 12, 2023)
3. Ministry of Health Singapore, accessed December 12, 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 09 December 2023, there were **8,119** confirmed cases worldwide in 2023, including **98** deaths. Globally, the CFR was **1.21%**.
- **759 confirmed cases** including **three deaths** in the **ASEAN** region in 2023, with a Case Fatality Rate (CFR) of **0.40%**.
- **7,553 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. 9, 2023)

ASEAN Member States	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Indonesia ¹	65	3	0	0.00%
Lao PDR ²	1	0	0	0.00%
Malaysia ²	9	0	0	0.00%
Philippines ²	1	0	0	0.00%
Singapore ³	28	0	0	0.00%
Thailand ²	565	0	1	0.18%
Vietnam ⁴	90	0	2	2.22%
ASEAN Total	759	3	3	0.40%

1. Ministry of Health Republic of Indonesia
2. EBS Bluedot (Accessed on December 12, 2023)
3. Ministry of Health Singapore, accessed December 12, 2023, <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 to Dec. 2, 2023)

Country	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
People's Republic of China ⁴	1,614	0	1	0.06%
United States of America ⁵	1,467	0	35	2.39%
Democratic Republic of Congo ⁵	610	0	2	0.33%
Thailand ⁵	565	0	1	0.18%
Brazil ⁵	456	8	2	0.44%

4. 2022-23 Mpox Outbreak: Global Trends. Geneva: World Health Organization, 2023. Available online: https://worldhealthorg.shinyapps.io/mpox_global/ (last cited: December 12, 2023).
5. 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 ⁵	765	0	7	0.92%
AMERICAS ⁵	3,561	0	84	2.36%
ASEAN	759	3	3	0.40%
ASIA & OCEANIA ⁵	2,344	365	2	0.09%
EUROPE ⁵	690	0	2	0.29%
TOTAL	8,119	368	98	1.21%



Event Updates for Emerging Diseases

Epidemiological Week 49 | December 3 – December 9, 2023

Global Updates for Emerging Diseases

COVID-19

- **India** has recorded 83 new COVID-19 infections, 512 active cases, and 533,301 deaths (PTI, 2023). The country's COVID-19 case tally is 45 million, with a recovery rate of 98.81% and a CFR of 1.19%. 2.2 billion COVID-19 vaccine doses have been administered. [[Full article](#)]

Regional Updates for Emerging Diseases

COVID-19

- **Indonesia:** The Indonesian Ministry of Health (MOH) has urged increased vigilance amid a rise in new COVID-19 subvariants, including EG.5 and EG.2, which have become the dominant Omicron subvariants in the country (The Jakarta Post, 2023). The number of novel coronavirus infections has risen from 10 to 20 weekly cases to 276 cases last week. [[Full article](#)]

Indonesia has experienced an increase in COVID-19 cases, triggered by the Eris EG.5 and EG.2 variants, which spread in Singapore (Pinandhita, 2023). The Indonesian Medical Association (IMA) COVID-19 Task Force and pulmonologist stated that COVID-19 cases in Indonesia doubled during October to November this year, while the Indonesian MOH reported an 80% increase from 28 November to 2 December 2023. A team member from IMA Task Force explained that the decline in immunity from the COVID-19 vaccine is a significant factor, as the level of protection from the vaccine decreases within six to 12 months. Vulnerable groups, such as the elderly and those with comorbidities, should receive booster injections to reduce the risk of serious symptoms. [[Full article](#)]

- **Malaysia:** Sarawak Tourism, Creative Industry and Performing Arts Minister has expressed confidence in the MOH's ability to handle the surge in Covid-19 cases in Malaysia (Tawie, 2023). He stated that everything is currently under control and that the rate of fatalities is less than 10%. However, he advised the elderly to take extra precautions due to their vulnerability. The MOH reported 3,626 Covid-19 cases from November 19 to 25, with 48.3% of cases involving those aged 20-40. [[Full article](#)]
- **Thailand:** A renowned pulmonologist, has warned of the escalating COVID-19 crisis, revealing that in November alone, 545 cases were reported. The report highlights the grim tapestry of afflictions, including COVID-19, Influenza, Human Metapneumovirus (hMPV), Respiratory Syncytial Virus (RSV), dengue Fever, chikungunya, and norovirus (Tantivangphaisal, 2023). The alarming rise in COVID-19 cases surpasses even the flu, highlighting the dire state of respiratory health. [[Full article](#)]
- The **Philippines** recorded 1,340 new coronavirus cases from November 28 to December 4, 2023, the highest number in 19 weeks, according to the Department of Health (Locus, 2023). The recent week saw a 10% increase from the previous week's 1,218 cases. This marks the fourth consecutive week of increasing cases and over 1,000 new weekly cases. The average daily case rate increased by 10% to 191, marking the 19th consecutive week of more than 100 but less than 200 new cases. [[Full article](#)]

Zoonosis

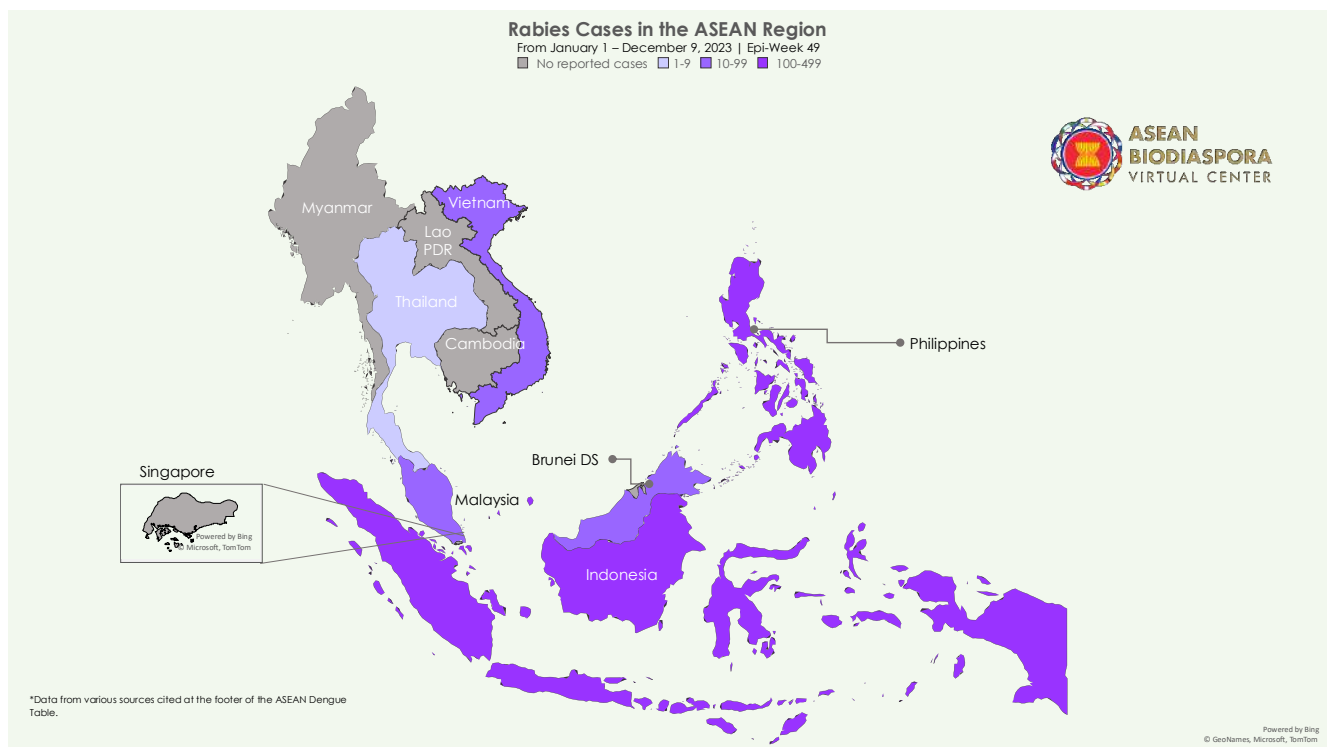


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Rabies Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



Rabies cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Rabies Cases	New Cases Since Previous Report	Cumulative Deaths	CFR
Brunei Darussalam			Rabies-free country		
Cambodia	-	-	-	-	-
Indonesia¹	Week 48	109	0	109	100%
Lao PDR	-	-	-	-	-
Malaysia¹	Week 38	9	0	9	100%
Myanmar	-	-	-	-	-
Philippines²	Week 43	327	0	327	100%
Singapore			Rabies-free country		
Thailand³	Week 46	5	0	5	100%
Vietnam¹	Week 40	64	0	64	100%
Total		484	0	484	100%

1. BlueDot Developer Portal, accessed December 12, 2023, <https://developer-portal.bluedot.global/>.
 2. Department of Health Website, accessed December 12, 2023 "Statistics," <https://doh.gov.ph/statistics>.
 3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 12, 2023, <http://doe.moph.go.th/surdata/index.php>

- The **ASEAN** region reported **484** rabies cases, **484** confirmed rabies cases, with **100%** CFR.



Event Updates for Zoonosis

Epidemiological Week 49 | December 3 – December 9, 2023

Global Updates for Zoonosis

Highly Pathogenic Avian Influenza H5N1

- **France** has ordered a third dose of a bird flu vaccine to be given to ducks in areas most at risk, citing new scientific evidence to avoid a surge in outbreaks (Hamaide, 2023). The risk level of bird flu was raised to 'high' from 'moderate' after new cases were detected, forcing poultry farms to keep birds indoors. The three-dose protocol will be applied from first week of December until March 15, 2024, targeting mulard ducks, which are used for foie gras. The decision was taken after post-vaccination monitoring showed a high potential for transmission of the bird flu virus and a reduction in duck immunity at 11 weeks of life. [\[Full article\]](#)
- **Germany:** A highly pathogenic H5N1 bird flu outbreak has led to the slaughter of 6,700 ducks and geese on a farm in east Germany (Hogan, 2023). The disease, which typically strikes in Europe during autumn and winter, has been detected on farms in France, the Netherlands, and Belgium, forcing poultry farms to keep birds indoors. [\[Full article\]](#)
- **Japan:** A highly pathogenic avian influenza virus of the H5 subtype has been detected in a buzzard in central Tokyo, marking the first instance of infection in a wild bird during the current avian flu season (Xinhua, 2023). The buzzard's body was found in Chiyoda Ward, and genetic testing confirmed its infection. Over 40 cases of wild bird infections have been reported across Japan. [\[Full article\]](#)
- **Republic of Korea** has confirmed two more highly pathogenic avian influenza cases at chicken farms, bringing the total number of cases to six this winter season (Seok-min, 2023). Health authorities cordoned off farms and implemented quarantine measures, including culling chickens. The government has increased measures to curb the infection and detect cases early, including more frequent AI tests and in-depth inspections of 430 duck farms. The finance and agriculture ministries have pledged to enhance market price monitoring of eggs and chicken. [\[Full article\]](#)

Leptospirosis

- **Ukraine:** A 73-year-old pensioner in the Lviv region died from leptospirosis, likely due to contact with rodents. The illness began with increased body temperature, headache, vomiting, severe pain in the calf and other muscles, jaundice, and decreased urine (Високий Замок, 2023). Leptospirosis is a dangerous zoonotic infectious disease caused by the bacterium *Leptospira*, and late seeking medical help can lead to severe complications. This is the second leptospirosis case in the Lviv region this year. [\[Full article\]](#)

Rabies

- **India:** A 50-year-old woman, died during treatment in Bareilly after being attacked by a jackal 20 days ago. The attack occurred while gathering fodder for cattle in a nearby forest (Punjab News, 2023). Condition deteriorated due to a rabies infection, and she died during treatment. The forest department is investigating the incident, and if a jackal was killed by the villagers, an FIR may be required under the Wildlife Protection Act. [\[Full article\]](#)

A 58-year-old schoolteacher and his son died of rabies after their pet cat in Kanpur contracted the virus from a stray dog (Times Now, 2023). The family ignored the condition, but the 24-year-old's condition worsened after being scratched by the cat.



The father also died. The family continued with general treatment and took anti-tetanus injections, despite the cat's death. The family took the situation lightly, and blood samples of all family members were sent for testing to prevent further infection spread. The incident highlights the importance of recognizing and preventing rabies. [\[Full article\]](#)

- **South Africa:** A human rabies case in the Eastern Cape has increased the number of human rabies cases in South Africa to 10 (Ngema, 2023). The case involved a 10-year-old girl from Buffalo City Metro Municipality. The NICD confirmed the diagnosis through fluorescent antibody testing on a post-mortem brain sample. Rabies can be controlled and prevented through various approaches, including vaccinations under the Animal Diseases Act. Educating the public on dog behavior and preventing bite exposures is also crucial. Victims should seek medical care for rabies post-exposure prophylaxis (PEP). [\[Full article\]](#)

Regional Updates for Zoonosis

Rabies

- **Indonesia:** In 2023, South Sulawesi experienced a significant increase in rabies cases, with 11 people dying (Lallo, 2023). The Disease Prevention and Control Division of the South Sulawesi Health Office reported 8,072 cases, with 11 of them fatal. The cases were reported in 24 regencies and cities across the country. The head of the Disease Prevention and Control Division, stated that rabies cases can be immediately acted upon and hopes for fewer cases in the coming year. The Head of the South Sulawesi Health Office, urged the public to be aware of rabies-transmitting animals, both pets and wild ones, and to take immediate action if they experience bites or scratches from infected animals. [\[Full article\]](#)

Vector-Borne Diseases



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Dengue Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



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 ¹	Week 42	26,912	0	39	0	0.14%
Indonesia ²	Week 48	85,897	2,595	653	20	0.76%
Lao PDR ¹	Week 45	30,292	0	19	0	0.06%
Malaysia ³	Week 49	115,065	3,353	84	1	0.07%
Myanmar ⁴	Week 28	6,685	0	30	0	0.45%
Philippines ⁵	Week 43	167,355	0	575	0	0.34%
Singapore ⁶	Week 48	9,227	328	0	0	0.00%
Thailand ⁷	Week 48	142,680	2,961	154	3	0.11%
Vietnam ¹	Week 44	135,879	0	35	0	0.03%
Total		719,992	9,237	1,589	24	0.22%

1. WHO WPRO, "Dengue," World Health Organization, accessed December 12, 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 12, 2023. iDengue, <https://idengue.mysa.gov.my/did/>
 4. BlueDot Developer Portal, accessed December 12, 2023, <https://developer-portal.bluedot.global/>.
 5. Department of Health Website, accessed December 12, 2023 "Statistics," <https://doh.gov.ph/statistics>.
 6. National Environment Agency (NEA), accessed December 12, 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 12, 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 **9,237** new dengue cases in Indonesia, Malaysia and Thailand – **24** Deaths. The region reported **719,992** total cases and **1,589** total deaths in 2023 with **0.22%** CFR.



Malaria Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



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 ¹	Week 44	1,899	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ¹	Week 45	1,116	0	0	0.00%
Myanmar ¹	Week 23	4,510	0	0	0.00%
Philippines ¹	Week 28	31	0	0	0.00%
Singapore ³	Week 46	20	0	0	0.00%
Thailand ²	Week 47	4,839	24	4	0.08%
Vietnam ¹	Week 42	349	0	0	0.00%
Total		12,764	24	4	0.03%

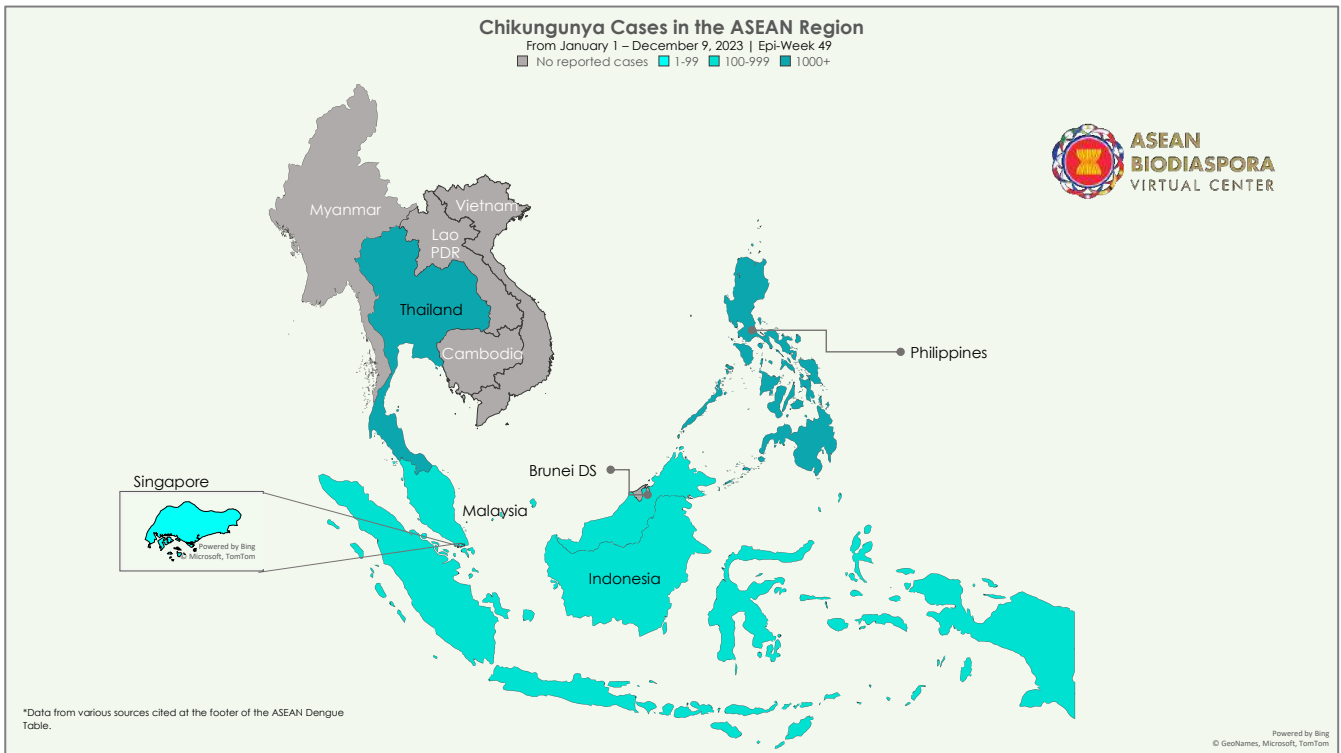
1. BlueDot Developer Portal, accessed December 12, 2023, <https://developer-portal.bluedot.global/>.
 2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 12, 2023, <http://doe.moph.go.th/surdata/index.php>.
 3. Ministry of Health Singapore, accessed December 12, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

- The **ASEAN** region reported **24** new malaria cases in Thailand since the previous report. The region reported **12,764** total cases and **four** total deaths in 2023 with **0.03%** CFR.



Chikungunya Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



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 ¹	Week 47	462	-	0	-	0.00%
Lao PDR	-	-	-	-	-	-
Malaysia ²	Week 44	185	-	0	-	0.00%
Myanmar	-	-	-	-	-	-
Philippines ³	Week 43	2,691	-	0	-	0.00%
Singapore ⁴	Week 46	13	-	0	-	0.00%
Thailand ⁵	Week 47	1,277	6	0	-	0.00%
Vietnam	-	-	-	-	-	-
Total		4,628	6	0	0	0.00%

1. BlueDot Developer Portal, accessed December 12, 2023, <https://developer-portal.bluedot.global/>
2. Portal Rasmi, Ministry of Health Malaysia, accessed December 12, 2023, https://www.moh.gov.my/index.php/database_stores/store_view/17
3. Department of Health Website, accessed December 12, 2023 "Statistics," <https://doh.gov.ph/statistics>.
4. Ministry of Health Singapore, accessed December 12, 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 12, 2023, <http://doe.moph.go.th/surdata/index.php>

- The **ASEAN** region reported **six** new chikungunya cases in Thailand. The region reported **4,628** total cases and **NO** deaths in 2023 with **0.00%** CFR.



Event Updates for Vector-borne Diseases

Epidemiological Week 49 | December 3 – December 9, 2023

Global Updates for Vector-borne Diseases

Dengue

- Bangladesh** has recorded 1,652 dengue deaths from January 1 to December 9, the highest in a year since 2000 (Bss, 2023). The death toll has risen to 316,773, with 2,281 deaths in 2000. The number of patients has increased to 316,773, with 3,12,709 released from different hospitals this year. The highest death toll since 2000 is recorded in Dhaka city. [\[Full article\]](#)
- India:** The district collector has reviewed dengue control measures and reported 62 cases in the last three weeks, with 40 from Khammam district and 22 from other areas (Telangana Today, 2023). Since January 1, 2023, there have been 505 dengue-positive cases in Khammam district. Since January 1, 27,771 tests have been conducted, with 120 in urban and 385 in rural areas. The collector has directed health officials to increase tests and take effective measures to control dengue. Test kits and medicines are available, and officials should participate in dry day activities every Friday. [\[Full article\]](#)
- Italy** has seen 347 dengue cases since January 1, with indigenous cases remaining constant at 82 (Redazione, 2023). Imported cases have slightly increased, with Lombardy leading with 111 cases. Imported cases from Mexico, Thailand, India, and Cuba account for 12% of cases. Only one death has been recorded since January 1, 2023. [\[Full article\]](#)
- Pakistan:** The dengue virus remains active in Punjab, with 14,721 confirmed cases this year. Lahore leads the list with 6,756 cases, followed by Rawalpindi with 2,648, Gujranwala with 1,559, Multan with 1,413 and Faisalabad with 878 (Desk, 2023). The situation continues, with Lahore reporting 37 new cases, Rawalpindi with five, Gujranwala with four, Multan nine, Faisalabad seven, Sheikhpura and Kasur with two new cases each. 55 patients are currently undergoing treatment in hospitals across Punjab. Punjab Health Secretary urges citizens to maintain clean and dry surroundings and cooperate with Health Department teams. [\[Full article\]](#)
- Taiwan (Province of China):** Taipei City has reported a new local case of dengue fever, diagnosed between November 28 and December 5. The case, aged 50, was diagnosed after a history of activity in Kaohsiung (Wanqian, 2023). As of December 5, Beijing City has 96 confirmed cases, including 44 imported cases and 52 local cases. The North City Health Bureau urges citizens to strengthen environmental inspections, remove stagnant water, reduce container size, and implement "inspection, dumping, cleaning, and brushing" due to the recent drop in temperature and occasional rainfall. Anti-mosquito measures include wearing light-colored clothes and applying repellents. [\[Full article\]](#)
- Sri Lanka:** Dengue cases in Sri Lanka have surged in the Western, Southern, Sabaragamuwa, and North Central provinces, with Kandy District experiencing a gradual increase (First, 2023). A "Dengue prevention month" was declared for Kandy from November 22 to December 22. [\[Full article\]](#)
- The **United Kingdom (UK)** health experts predict that climate change could bring Asian tiger mosquitoes carrying dengue fever to England by the middle of this century. (Ebrahimi, 2023). The insect, which carries diseases like dengue fever, zika virus, and chikungunya, has already spread across Europe due to warmer conditions. The UK Health Security Agency (UKHSA) warns that dengue fever could be transmitted in London by 2060 and the mosquito could become widely established across England in



the 2040s. Other infectious diseases spread through food or water could become more prevalent, with the risk of more pandemics increasing. Extreme heat and flooding will worsen, and vulnerable populations, such as the elderly, young children, and those with pre-existing health conditions, are most vulnerable. The UKHSA suggests adaptation, reduction in emissions, and improvements to housing, flood defenses, and extreme temperature warnings to mitigate these growing dangers. [\[Full article\]](#)

- **Guam:** A new case of dengue fever has been confirmed in Guam, marking the second confirmed case this year (Degaldo, 2023). The case was confirmed through a blood test and local health officials determined it was likely an imported case. The Department of Public Health and Social Services Division of Environmental Health is canvassing homes and conducting weekly mosquito surveillance in vulnerable areas and ports of entry. [\[Full article\]](#)

Vaccine- Preventable Diseases

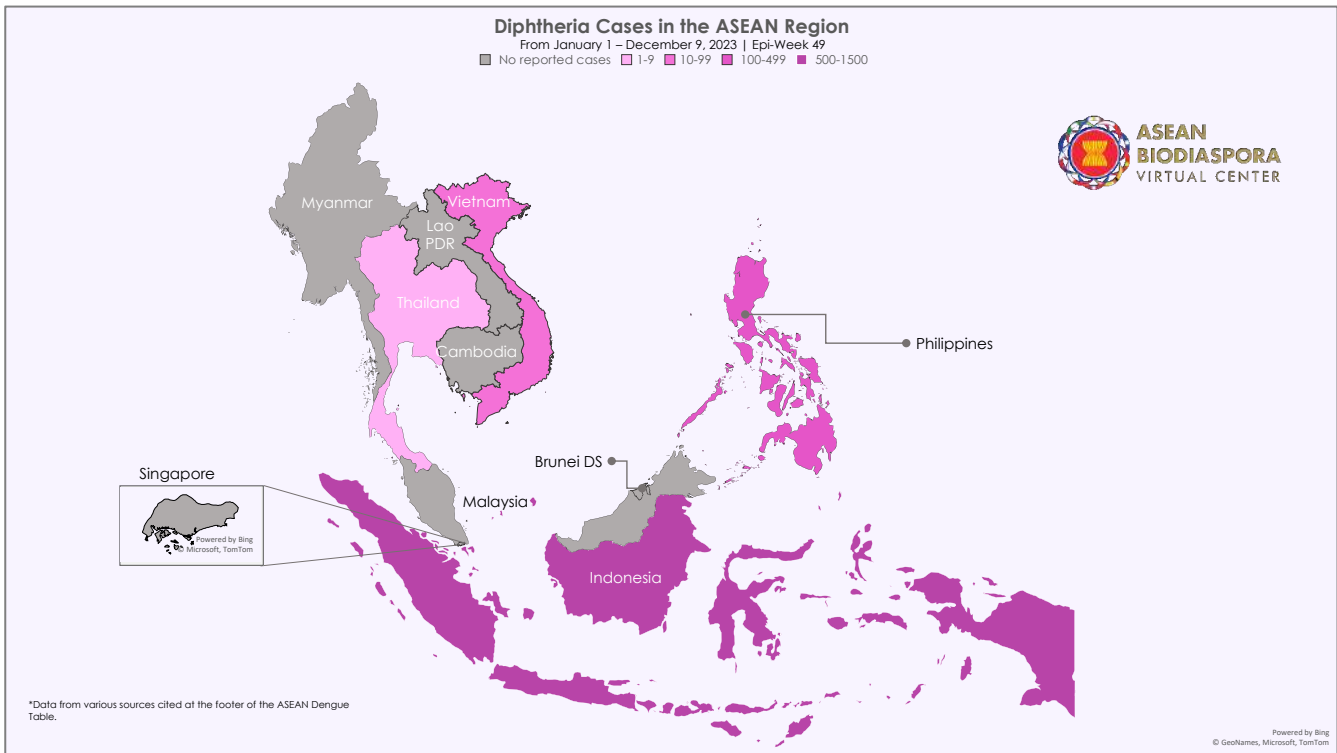


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Diphtheria Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



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 ¹	Week 47	751	6	45	6.00%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 43	162	0	38	23.46%
Singapore ³	-	0	0	0	0.00%
Thailand ⁴	Week 46	5	0	0	0.00%
Vietnam ⁵	Week 38	41	0	3	7.32%
Total		959	6	86	8.97%

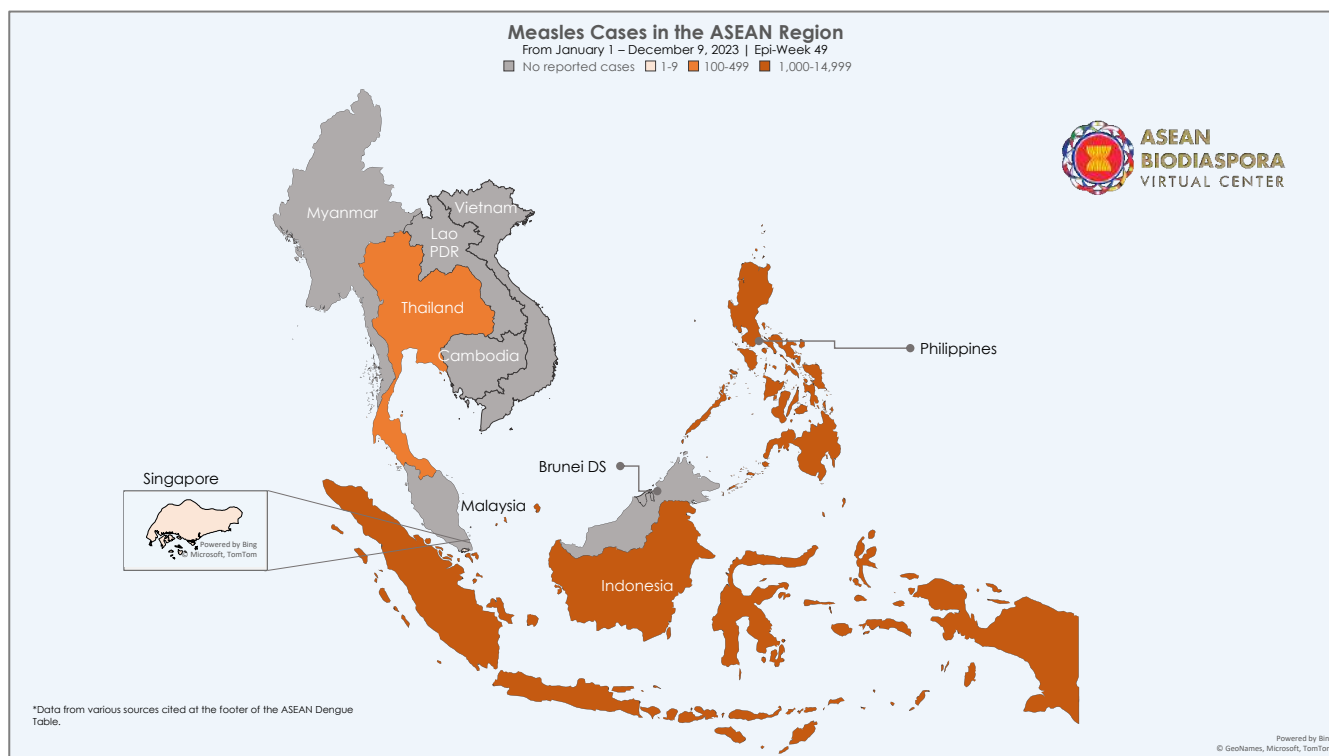
1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed December 12, 2023 "Statistics," <https://doh.gov.ph/statistics>.
3. Ministry of Health Singapore, accessed December 12, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>
4. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 12, 2023, <http://doe.moph.go.th/surdata/index.php>
5. BlueDot Developer Portal, accessed December 12, 2023, <https://developer-portal.bluedot.global/>

- The ASEAN region reported **six** new diphtheria cases in Indonesia since the previous report. The region reported **959** total cases and **86** total deaths in 2023 with **8.97%** CFR.



Measles Cases in the ASEAN Region

From January 1 to December 9, 2023 (Epi-Week 49)



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 ¹	Week 46	9,120	310	11	0.12%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 43	2,024	0	6	0.30%
Singapore ³	Week 46	6	0	0	0.00%
Thailand ⁴	Week 46	320	0	0	0.00%
Vietnam	-	-	-	-	-
Total		11,470	310	17	0.15%

1. Ministry of Health, Republic of Indonesia
2. Department of Health Website, accessed December 12, 2023 "Statistics," <https://doh.gov.ph/statistics>.
3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 12, 2023, <http://doe.moph.go.th/surdata/index.php>
4. Ministry of Health Singapore, accessed December 12, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

- The **ASEAN** region reported **310** new measles cases since the previous report. The region reported **11,470** total cases and **17** total deaths in 2023 with **0.15%** CFR.



Event Updates for Vaccine-Preventable Diseases

Epidemiological Week 49 | December 3 – December 9, 2023

Global Updates for Vaccine-Preventable Diseases

Measles

- **Kazakhstan:** The measles situation in Astana remains unstable, with over 731 confirmed cases, with 73% of cases being children under 14. Most cases are under 4 years old, with 100 cases being infants under 12 months old (Kazinform, 2023). 93% of infected children and teens are unvaccinated. The chief state sanitary doctor emphasizes vaccination as the only way to prevent measles spread and complications. As of December 6, 16,477 people were vaccinated. [\[Full article\]](#)

In Kostanay, over 20 measles cases were recorded in December, up from 32 in November. The number has risen to 145, with 56.5% of cases in unvaccinated individuals and 64.1% in children under 14. [\[Full article\]](#)

- **Russia:** Beloretsk has reported 21 measles cases, mostly among children under 18. The first case was a teenager from a large family who fell ill due to their parents' beliefs (Aif, 2023). The children are being treated in the infectious diseases department of the Beloretsk Central District Clinical Hospital. Distance learning has been transferred to schools where sick children study, and disinfection has been carried out at children's music schools. Kindergartens are operating normally, but anti-epidemic measures have been strengthened. [\[Full article\]](#)

Pertussis

- **United Kingdom:** COVID-19 has caused a 250% surge in whooping cough cases in England and Wales, according to the UKHSA. The highly contagious disease, which is highly contagious, can cause serious illness, especially in infants and children (Zhaoxi, 2023). The disease is not lifelong immunity, so older children and adults can also become infected. Infants under 6 months of age are particularly vulnerable to complications such as dehydration, persistent breathing problems, pneumonia, and seizures. The age of pertussis cases is unknown. Treatment depends on the individual's age and infection history. [\[Full article\]](#)
- **United States:** Fargo Cass Public Health emphasizes the importance of getting vaccinated for pertussis as cases continue to rise in Cass County (Redmond, 2023). Pertussis, also known as whooping cough, is highly contagious and can be spread through coughing or sneezing while in close contact with others. Infants under one year of age are at the highest risk of developing severe breathing problems and life-threatening illness from whooping cough. The best form of protection is vaccination for everyone eligible, including infants, children, caregivers, pregnant people, and the elderly. Antibiotics may be recommended for those who came into contact with an active case, and adults or children with trouble breathing should seek medical attention immediately. [\[Full article\]](#)
- **Russia:** The Altai Republic recorded 12 cases of whooping cough from November 25 to December 1, with 92 identified in ten months, primarily in Gorno-Altai. schoolchildren are most susceptible, with 87.5% immunity coverage (Republic, 2023). [\[Full article\]](#)



Typhoid

- **India:** In Munger, typhoid cases have risen significantly, with 38 patients visiting Melancholyar Hospital within two months after dengue (Irshad, 2023). [\[Full article\]](#)
- **Sweden:** Seven students at the Waldorf School in Hardeberga, Sweden, have contracted typhoid fever, a rare bacterial disease that can lead to sepsis (Muhsin, 2023). The outbreak was discovered a month ago after parents reported high fevers. The disease is spread through contaminated water or improperly cooked food, and careless hand hygiene. The spread is attributed to a friend sharing a clementine with his classmates. [\[Full article\]](#)



Event Updates for Other Infectious Diseases

Epidemiological Week 49 | November 26 – December 9, 2023

Regional Updates for Other Infectious Diseases

Mycoplasma pneumoniae

- **Indonesia:** The Indonesian MOH has reported a resurgence of mycoplasma cases in DKI Jakarta, with six patients has been recovered (Sagita, 2023). The government is conducting epidemiological investigations to determine the possibility of widespread spread, particularly in schools. A pediatrician from Cipto Mangunkusumo Hospital suggests that mycoplasma is transmitted through droplets and saliva, potentially affecting children at schools, playgrounds, and family gatherings. He urges parents to pay attention to sick children and promote clean and healthy living habits. [[Full article](#)]



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