

ASEAN Biodiaspora Virtual Center

Morbidity and Mortality Weekly Report Infectious and Emerging Diseases

ASEAN REGION

March 13, 2024 | MMWR 2024-10
Epidemiological Week 10



Korea Disease Control and
Prevention Agency



World Health
Organization



With Support by:

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

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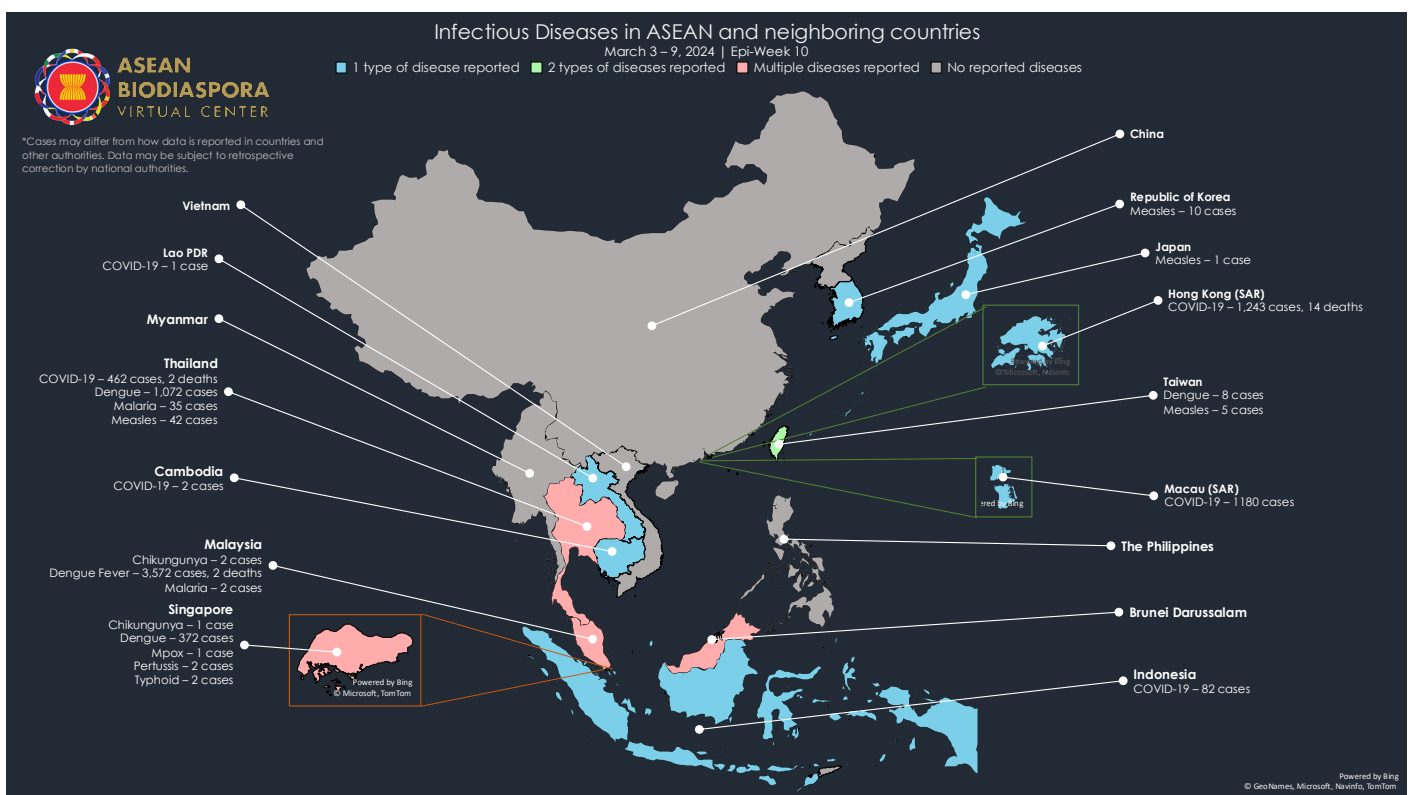
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Key Findings

- In recent months, trends of COVID-19 cases and deaths in the ASEAN region have gradually decreased.
- The **JN.1**, which is subtypes of **BA.2.86**, remains a dominant variant of interest spreading in the ASEAN region until the early of March 2024.
- There is **one** new mpox case in the ASEAN region since the last report.
- Dengue cases has increased by **5,016** since the last report. Meanwhile, **37** new malaria cases have been found since the last report for vector-borne diseases in the ASEAN region.
- There have been **42** new measles since the last report of vaccine-preventable diseases in the ASEAN region.

Reported Infectious Diseases in the ASEAN Region and Neighboring Countries Epidemiological Week 10 | March 3 – 9, 2024



Source: AMS Official Sources, [Worldometer](#), [WHO](#), [Our World in Data](#), and [Bluedot Platform](#), accessed on March 12, 2024



EMERGING DISEASES

COVID-19: Highlights and Situation Overview

- As of 9 March 2024 (5PM, GMT+7), there were **703,999,532** confirmed cases **worldwide**, including **7,004,717 deaths**. Globally, Case Fatality Rate (CFR) was **0.99%**.
- **36,987,755 total confirmed cases** of COVID-19 have been reported in the **ASEAN** region.
- The CFR in the **ASEAN** region was **1.00%**.

COVID-19 cases in the ASEAN region since 2020

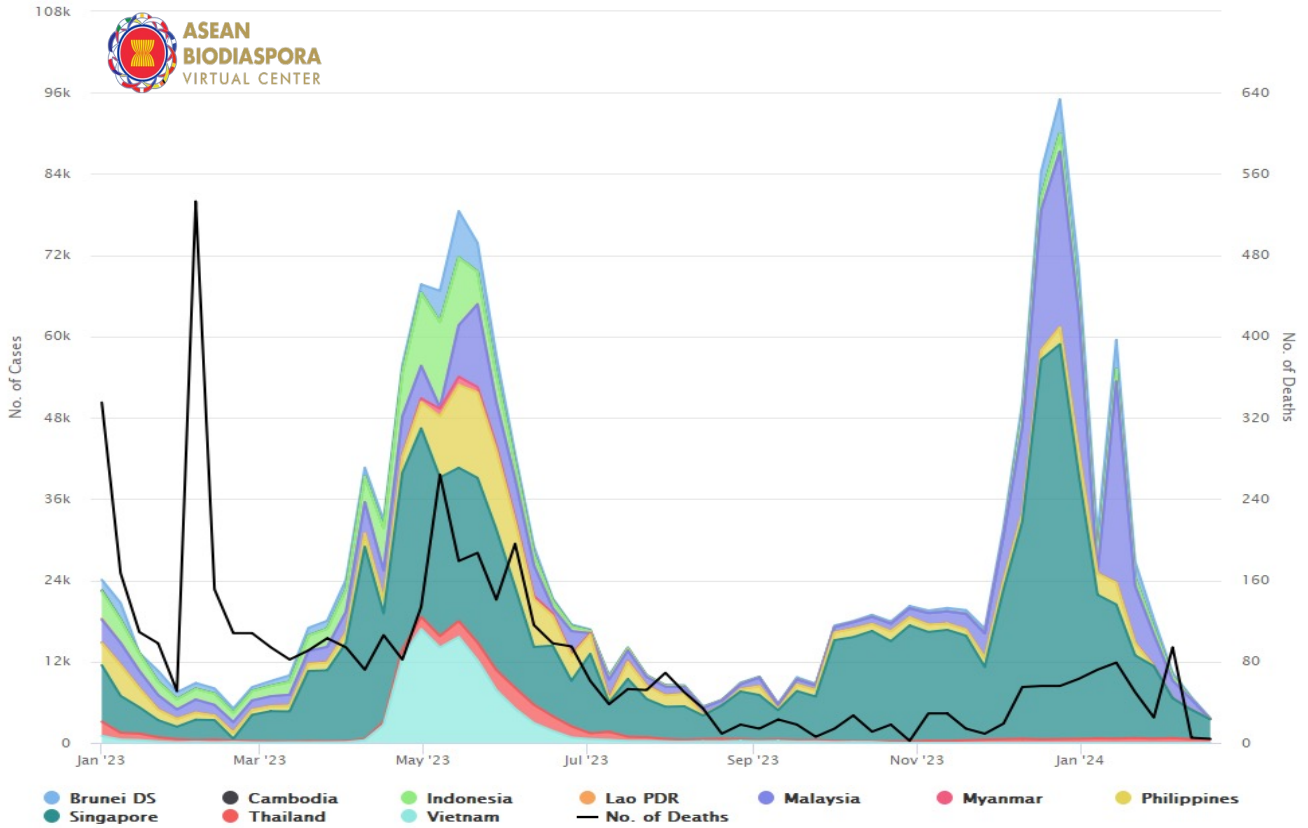
ASEAN MEMBER STATES	FIRST CONFIRMED CASES	LATEST REPORT ON CONFIRMED	CUMULATIVE CASES	CUMULATIVE CASES IN 2024	NEW CASES SINCE LAST REPORT	CUMULATIVE DEATHS	NEW DEATHS SINCE LAST REPORT	CUMULATIVE CASES/ 100,000
Brunei Darussalam	10-Mar-20	1-Mar-24	343,075	81,635	0	225	0	77,021
Cambodia	27-Jan-20	7-Mar-24	139,096	658	2	3,056	0	810
Indonesia	02-Mar-20	9-Mar-24	6,829,087	117,384	82	162,062	0	2,447
Lao PDR	24-Mar-20	6-Mar-24	218,951	1,365	1	758	0	2,927
Malaysia	25-Jan-20	25-Feb-24	5,276,312	256,912	0	37,348	0	15,902
Myanmar	23-Mar-20	29-Feb-24	641,801	8,226	0	19,495	0	1,162
Philippines	30-Jan-20	12-Jan-24	4,140,383	141,371	0	66,864	0	3,680
Singapore	23-Jan-20	1-Mar-24	3,006,155	819,481	0	2,024	0	50,578
Thailand	13-Jan-20	5-Mar-24	4,767,700	48,792	462	34,569	2	6,803
Vietnam	23-Jan-20	1-Mar-24	11,625,195	101,828	0	43,206	0	11,748
ASEAN REGION			36,987,755	1,577,652	547	369,607	2	5,438

REGIONS	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
AFRICA	12,860,287	0	258,884	0
AMERICAS	201,549,339	75,073	3,058,872	807
ASEAN	36,987,755	547	369,607	2
ASIA & OCEANIA	199,340,191	15,945	1,216,524	107
EUROPE	253,261,960	29,359	2,100,830	187
GLOBAL TOTAL	703,999,532	120,924	7,004,717	1,103

Source: [Worldometer](#), [WHO](#), and [Our World in Data](#)

ASEAN Weekly COVID-19 Cases and Deaths

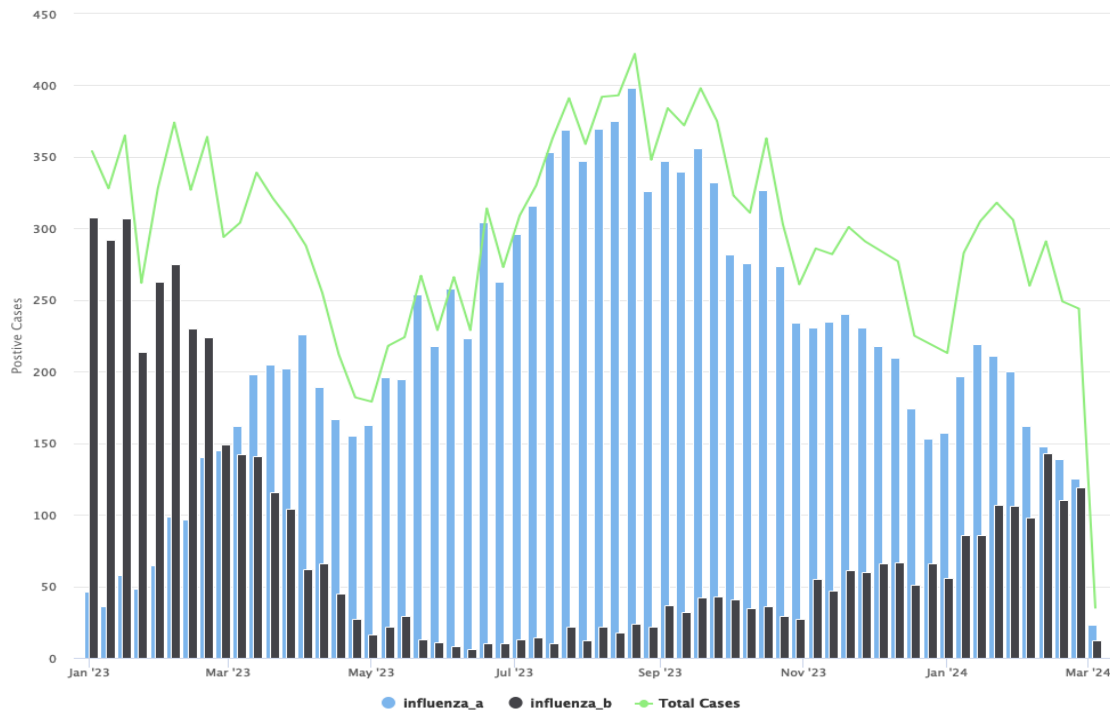
From January 1, 2023 to March 9, 2024



Source: [Worldometer](#), [WHO](#), and [Our World in Data](#)

Trends of Influenza Confirmed Cases in the ASEAN region

From January 1, 2023 to March 9, 2024

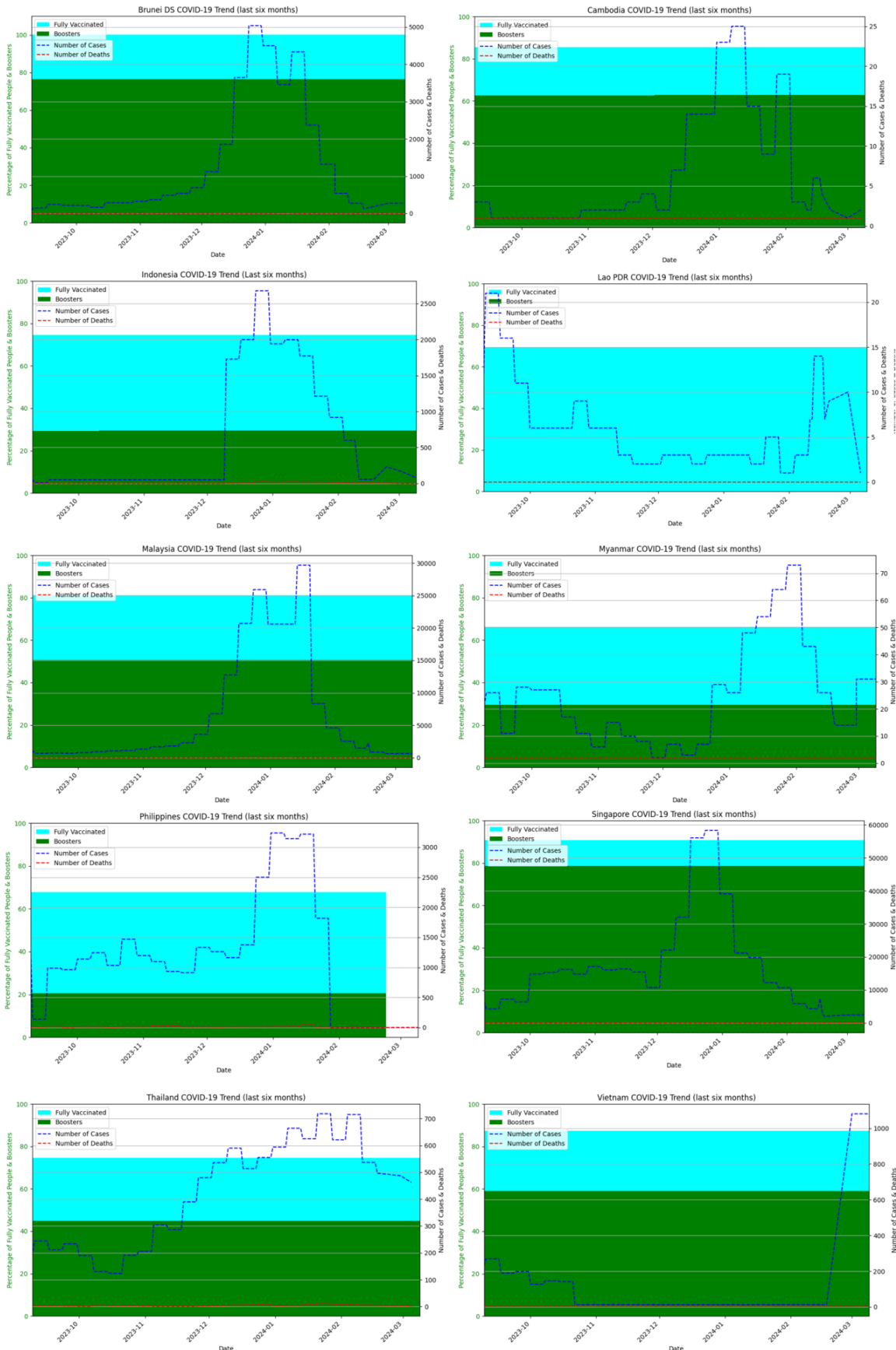


Source: FluNet, accessed on March 12, 2024 (<https://www.who.int/tools/fluinet>)



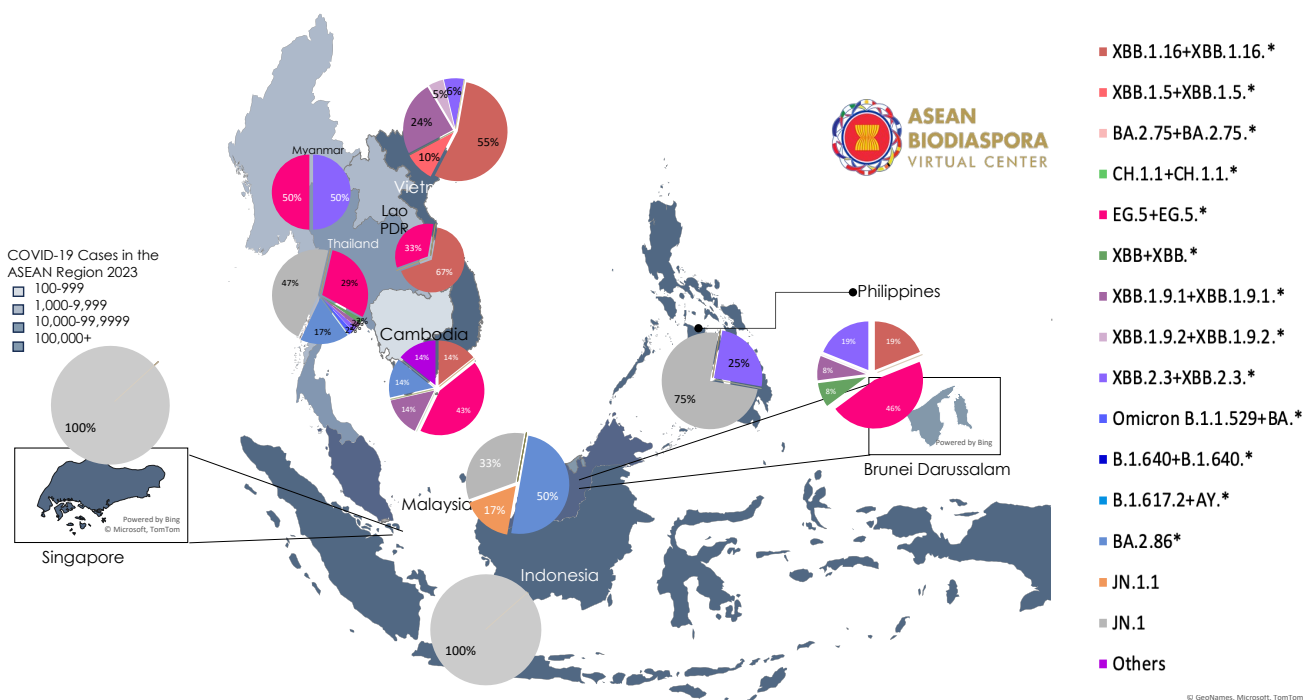
Trends of COVID-19 Cases, Deaths, and Vaccine Coverage among AMS

From July 1, 2023 to March 9, 2024



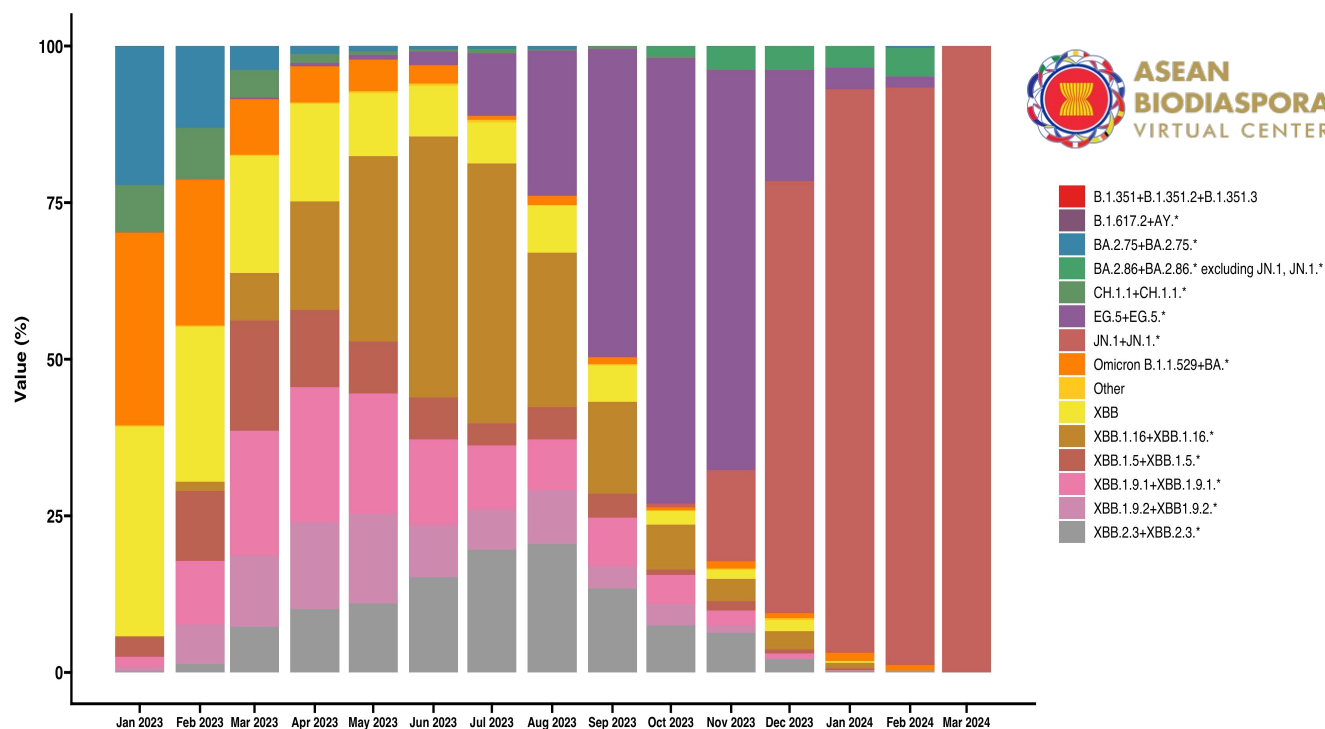
Source: [Worldometer](#), [Our World In Data](#), and [WHO](#)

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



Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on March 12, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)

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

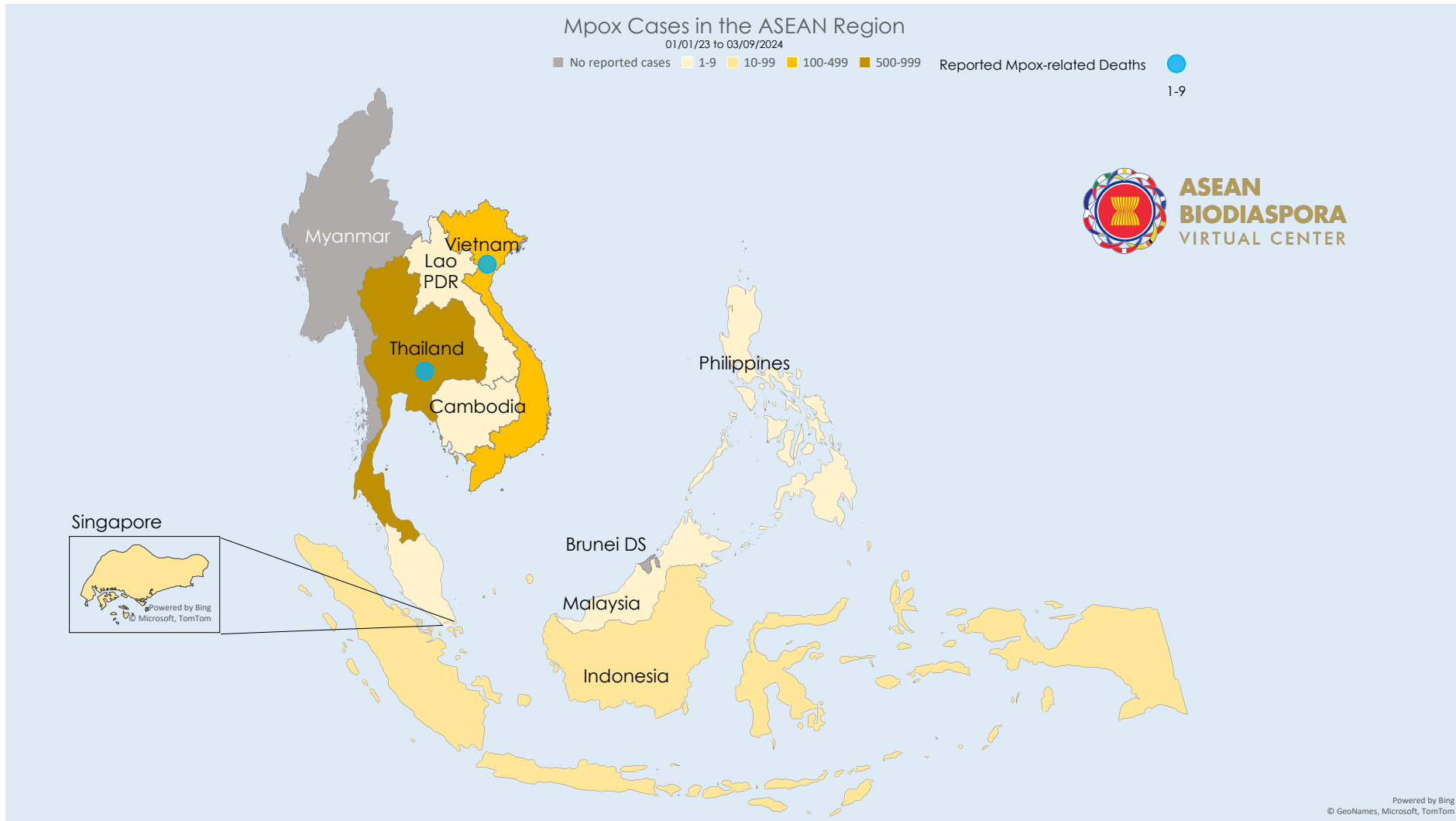


Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on March 12, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)



Mpox Cases Reported in the ASEAN Region

January 1, 2023 – March 9, 2024





Mpox: Highlights and Situation Overview

- From 1 January 2023 to 9 March 2024, **10,887** confirmed cases worldwide since 2023, including **119** deaths. Globally, the CFR was **1.09%**.
- **983 confirmed cases** including **seven deaths** in the **ASEAN** region, with a CFR of **0.71%**.
- **9,904 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 March 9, 2024)

ASEAN Member States	Cumulative Cases 2023-2024	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Cambodia ¹	4	0	0	0.00%
Indonesia ²	85	0	0	0.00%
Lao PDR ¹	1	0	0	0.00%
Malaysia ¹	9	0	0	0.00%
Philippines ¹	5	0	0	0.00%
Singapore ³	35	1	0	0.00%
Thailand ¹	709	0	1	0.14%
Vietnam ¹	135	0	6	4.44%
ASEAN Total	983	1	7	0.71%

Source:

1. Bluedot Platform, accessed on March 12, 2024 (<https://portal.bluedot.global/>)
2. Ministry of Health Republic of Indonesia
3. Ministry of Health Singapore, accessed on March 12, 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 March 9, 2024)

Country	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
People's Republic of China	2,022	0	1	0.05%
United States of America	1,973	0	37	1.88%
Democratic Republic of Congo	1,069	0	2	0.19%
Thailand	709	0	1	0.14%
Brazil	456	0	2	0.44%

Source: Our World in Data, accessed on March 12, 2024 (<https://ourworldindata.org/monkeypox>)

Mpox cases per region (Jan. 1, 2023 to March 9, 2024)

REGIONS	CUMULATIVE CASES 2023	NEW CASES SINCE THE PREVIOUS REPORT	CUMULATIVE DEATHS 2023	CFR
AFRICA	1,225	0	7	0.57%
AMERICAS	4,048	0	86	2.12%
ASEAN	983	1	7	0.71%
ASIA & OCEANIA	3,506	0	16	0.46%
EUROPE	1,125	0	3	0.27%
TOTAL	10,887	1	119	1.09%

Source: Our World in Data, accessed on March 12, 2024 (<https://ourworldindata.org/monkeypox>)



Media Monitoring for Emerging Diseases

Epidemiological Week 10 | March 3 – 9, 2024

Global Situation for Emerging Diseases

COVID-19

- **Bangladesh** reported 147 more COVID-19 cases in a week (The Daily Observer, 2024). The country's total fatalities remained at 29,491, with 2,048,798 cases and 2,015,785 recoveries. The first case of COVID-19 in Bangladesh was on March 8, 2020. [\[Full article\]](#)
- **Canada:** New Brunswick has reported four more COVID-19 deaths and a 75% increase in weekly hospitalizations, with no new flu deaths, hospitalizations, or outbreaks reported (MacKinnon, 2024). The pandemic has claimed the lives of four more people aged 65 or older, raising the death toll to at least 1,017. Thirty people were hospitalized and tested positive for the virus, with six lab-confirmed outbreaks declared. Eighty new cases have been confirmed through PCR lab tests, and 1,115 COVID-19 XBB.1.5 vaccines have been administered in the past week. [\[Full article\]](#)
- **India:** Delhi has recorded its highest daily COVID-19 case count since May 2023, with 459 cases reported in the last 15 days (Standard B, 2024). The city and other northern states, including Rajasthan, Uttar Pradesh, and Bihar, are also experiencing a rise in cases. The last time the daily number of COVID-19 cases exceeded 50 was in May 2023, during a nationwide surge in cases. The northern region is experiencing a rise, with Uttar Pradesh and Bihar reporting more cases. Karnataka reported 268 new COVID-19 cases in the latest 15-day period, down from 959 two fortnights before. In Maharashtra, the number of cases has remained relatively stable, with 496 cases reported in the latest period. [\[Full article\]](#)
- **New Zealand:** The number of COVID-19 cases reported in the last week has slightly decreased from the previous week, with 5,575 cases reported and a seven-day rolling average of 796 (RZN News, 2024). Health New Zealand confirmed that household contacts of someone positive for COVID-19 are no longer recommended to test daily, unless they develop symptoms themselves. The seven-day rolling average of new cases was down from 868 the week before. [\[Full article\]](#)
- **Taiwan** experienced two rare COVID-19-related deaths in children aged 12 and younger, breaking a 10-month streak without such fatalities, according to the Centers for Disease Control (CDC) (Yi-ning, T. & Hsin-Yin, L., 2024). One case involved an unvaccinated one-year-old girl with no underlying medical conditions, while the other involved a six-year-old girl with a history of chronic neurological disease. The CDC recommends parents have their children vaccinated against the virus and the current XBB shots could protect them against fast-changing subvariants. [\[Full article\]](#)
- The **United States (US):** Michigan reported 2,434 confirmed COVID-19 cases, a 21% decrease from last week's 3,071 cases (Bridge Staff, 2024). The decline comes as the number of confirmed COVID-19-positive hospital patients fell below 500 to 496, marking the first time the state's 164 hospitals have had fewer than 500 since November 8, 2023. Hospitalizations peaked at 1,275 on January 3, 2024. The state also reported 60 additional COVID-19-positive deaths, with 48 in February 2024, eight in January, and three in March. [\[Full article\]](#)



Regional Situation for Emerging Diseases

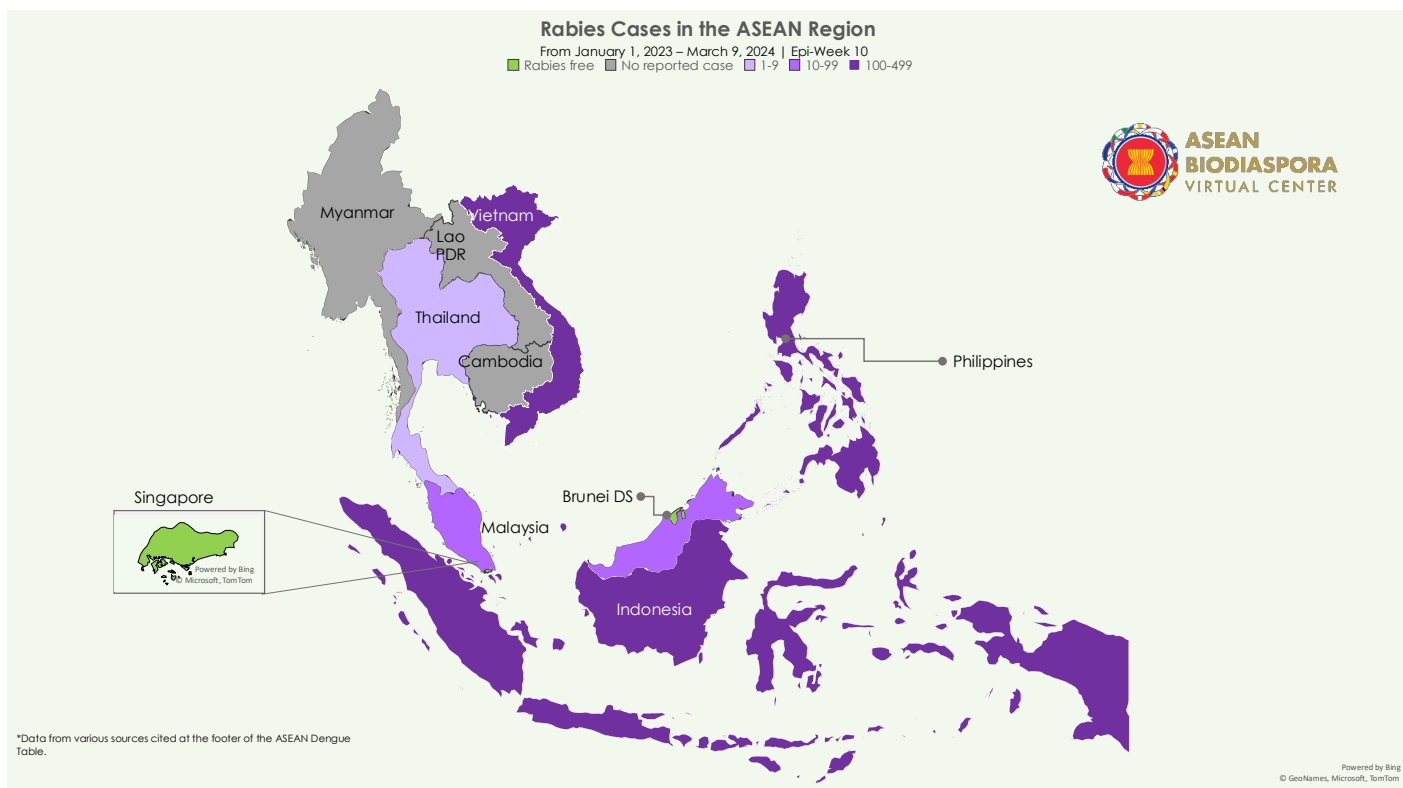
Mpox

- **Vietnam:** The Mekong Delta province of Kien Giang's Centre for Disease Control (CDC) announced on March 6 that it has so far this year detected three cases of mpox (VietNamNet News, 2024). One of the three infections died on February 5 due to an HIV-related illness. The remaining two patients are in stable condition. The source of transmissions remains unknown. Mpox is a Group B infectious disease in Vietnam, spreading quickly and potentially causing death through respiratory droplets and direct contact. [[Full article](#)]

ZOONOSIS

Rabies Cases in the ASEAN Region

From January 1, 2023 to March 9, 2024 (Epi-Week 10)



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 8	159	0	159	100%
Lao PDR	-	-	-	-	-
Malaysia²	Week 4	25	0	25	100%
Myanmar	-	-	-	-	-
Philippines³	Week 48 '23	368	0	368	100%
Singapore			Rabies-free country		
Thailand⁴	Week 9	6	0	6	100%
Vietnam²	Week 9	100	0	100	100%
Total		658	0	658	100%

1. Ministry of Health, Republic of Indonesia
 2. Bluedot Platform, accessed March 12, 2024 (<https://portal.bluedot.global/>)
 3. Department of Health Website, accessed March 12, 2024 "Statistics," (<https://doh.gov.ph/statistics>)
 4. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed March 12, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **NO** new rabies cases since the previous report. The region reported **658** total cases with **100%** CFR.



Media Monitoring for Zoonosis

Epidemiological Week 10 | March 3 – 9, 2024

Global Situation for Zoonosis

Rabies

- **India:** A 21-year-old woman died of rabies while undergoing treatment at a Hospital late on March 4, 2024 (Gayakwad, R., 2024). Over a month ago, she was bitten by a stray dog three days after completing the anti-rabies vaccination course. The dog has been reported to have bitten around 20 people, including her. [[Full article](#)]

Regional Situation for Zoonosis

Anthrax

- **Lao PDR:** Three anthrax cases in Champasak province of Laos have been reported after consuming meat from suddenly dead livestock (VNA, 2024). The disease, which can cause gastrointestinal symptoms like headache, stomach ache, diarrhea, and shortness of breath, is caused by contact with unvaccinated animals or handling dead meat. The Soukhouma agriculture and forestry office has banned animal trading and transportation. [[Full article](#)]

Rabies

- **Philippines:** A four-year-old in Tiwi, Albay died from rabies after being bitten in December 2023 (BNFM Legazpi, 2024). The Albay Provincial Health Office arrested a resident and initiated contact tracing for his family. By 2024, six cases have been registered in the province. [[Full article](#)]

VECTOR-BORNE DISEASES

Dengue Cases in the ASEAN Region

From January 1, 2023 to March 9, 2024 (Epi-Week 10)



Dengue cases in the ASEAN region

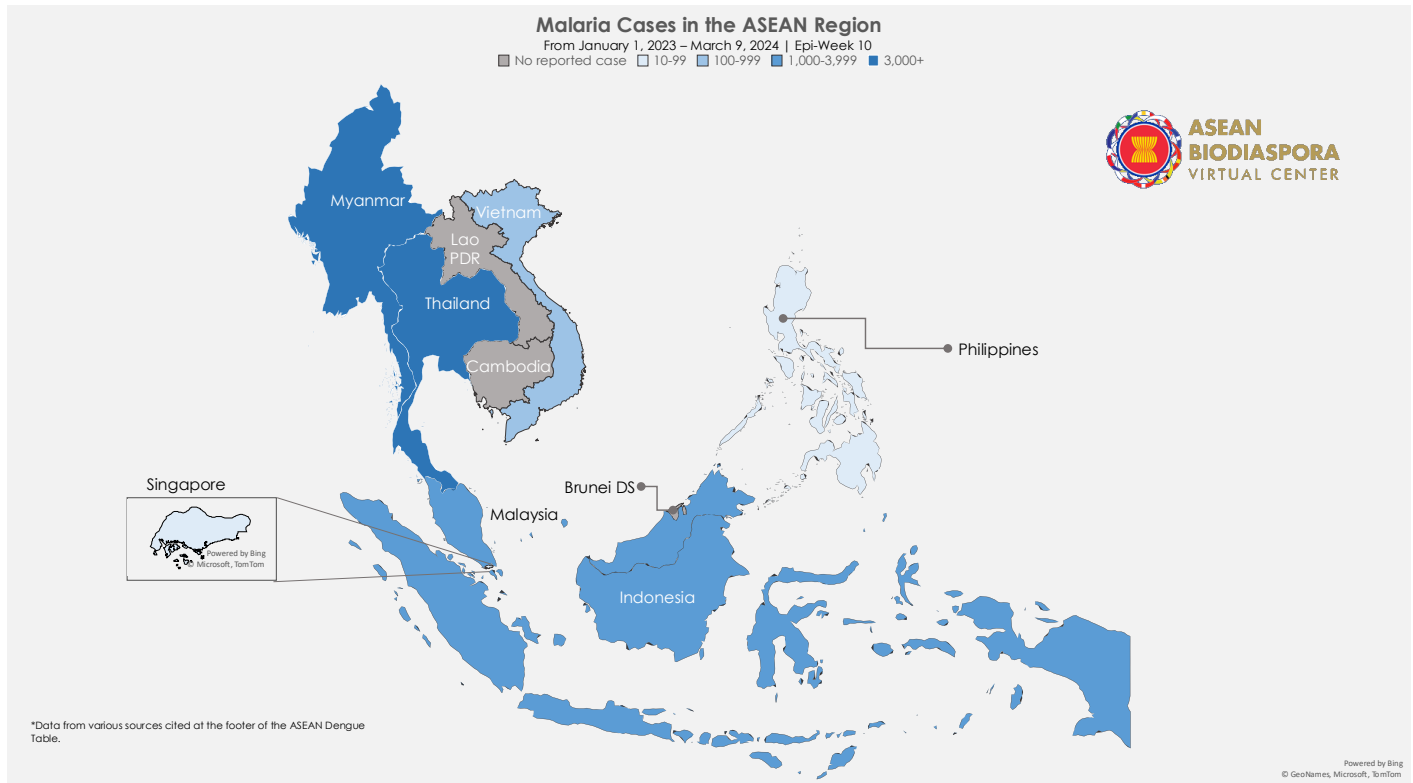
Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-
Cambodia ¹	Week 6	38,024	0	107	0	0.28%
Indonesia ²	Week 9	136,393	0	1085	0	0.80%
Lao PDR ¹	Week 7	33,075	0	20	0	0.06%
Malaysia ³	Week 8	152,246	3,572	125	2	0.08%
Myanmar ⁴	Week 28 '23	6,685	0	30	0	0.45%
Philippines ⁵	Week 48 '23	195,603	0	657	0	0.34%
Singapore ⁶	Week 9	13,752	372	0	0	0.00%
Thailand ⁷	Week 9	177,133	1,072	195	0	0.11%
Vietnam ¹	Week 2	175,758	0	43	0	0.02%
Total		928,669	5,016	2,262	2	0.24%

1. WHO WPRO, "Dengue," World Health Organization, accessed March 12, 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 March 12, 2024. https://www.moh.gov.my/index.php/database_stores/store_view/17
 4. Bluedot Developer Portal, accessed March 12, 2024. <https://developer-portal.bluedot.global/>.
 5. Department of Health Website, accessed March 12, 2024 "Statistics," <https://doh.gov.ph/statistics>.
 6. Ministry of Health. "Weekly Infectious Disease Bulletin", accessed March 12, 2024. <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2024/weekly-infectious-diseases-bulletin>
 7. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed March 12, 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.

- The **ASEAN** region reported **5,016** new dengue cases in Malaysia, Singapore, and Thailand. The region reported **928,669** total cases with **0.24%** CFR.

Malaria Cases in the ASEAN Region

From January 1, 2023 to March 9, 2024 (Epi-Week 10)



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 6	1,995	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ¹	Week 10	1,118	2	0	0.00%
Myanmar ¹	Week 23 '23	4,510	0	0	0.00%
Philippines ¹	Week 6	33	0	0	0.00%
Singapore ³	Week 9	27	0	0	0.00%
Thailand ²	Week 9	5,489	35	4	0.07%
Vietnam ¹	Week 42 '23	349	0	1	0.29%
Total		13,521	37	5	0.04%

1. Bluedot Platform, accessed March 12, 2024 (<https://portal.bluedot.global/>)
2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed March 12, 2024 (<http://doe.moph.go.th/surdata/index.php>)
3. Ministry of Health Singapore, accessed March 12, 2024 (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)

- The **ASEAN** region reported **37** new malaria cases in Malaysia and Thailand since the previous report. The region reported **13,521** total cases with **0.04%** CFR.

Media Monitoring for Vector-borne Diseases

Epidemiological Week 10 | March 3 – 9, 2024

Global Situation for Vector-borne Diseases

Dengue

- **Bangladesh:** A person died of dengue in a week in Bangladesh, but 15 more people have been admitted to hospitals (Pratidin B, 2024). This year, 17 people have died due to dengue, with all three new infected individuals being Dhaka city residents. This year, 1,456 patients have been admitted to hospitals. Currently, 69 people are receiving treatment. [[Full article](#)]
- **India:** Dengue infections have greatly increased in India in the past two decades, with data from the Central government's National Centre for Vector Borne Disease Control indicating that in the last three years, there were over 5.2 million dengue cases and 740 deaths (Mascarenhas A, 2024). The prevalence of dengue has surged dramatically since the 1970s, affecting more than 130 countries and causing an estimated 390 million infections and 100 million clinical cases annually. [[Full article](#)]

Regional Situation for Vector-borne Diseases

Dengue

- **Indonesia:** The West Java Provincial Government reported that there have been 5,653 Dengue Hemorrhagic Fever (DHF) cases in West Java, with 41 declared dead (Sarasa A.B, 2024). [[Full article](#)]

In East Java Dengue cases have increased significantly, reaching 3,638 cases by February 2024 (Hakim L, 2024). The governor has appealed to the public to promote the Mosquito Nest Eradication movement, aiming to increase community participation and empowerment. [[Full article](#)]

- The **Philippines:** The Provincial Health Office in the Philippines has reported a 14% increase in dengue fever cases due to El Niño, which encourages residents to store water, creating breeding grounds for mosquitoes (Sornito I, 2024). From January 1 to February 24, there have been 299 recorded cases, including two fatalities, a 14% increase from the same timeframe in 2023. The most affected municipalities include Oton, Pavia, Passi City, Dumangas, and Lambunao. The province has adequate supplies of dengue test kits and larvicide, and the government is prepared to provide fogging machines to local government units experiencing high case numbers. [[Full article](#)]

Leptospirosis

- The **Philippines:** A 32-year-old male from Barangay Pahanocoy, Bacolod City succumbed to leptospirosis, according to reports from the Bacolod City Health Office (SAMILLANO, C., 2024). The CHO also reported three cases of leptospirosis in the city during the period covering January 1 to February 24, or a decrease of 82.4% compared to the same period last year which recorded 17 cases and three deaths. The three cases this year involved two males and a female. [[Full article](#)]



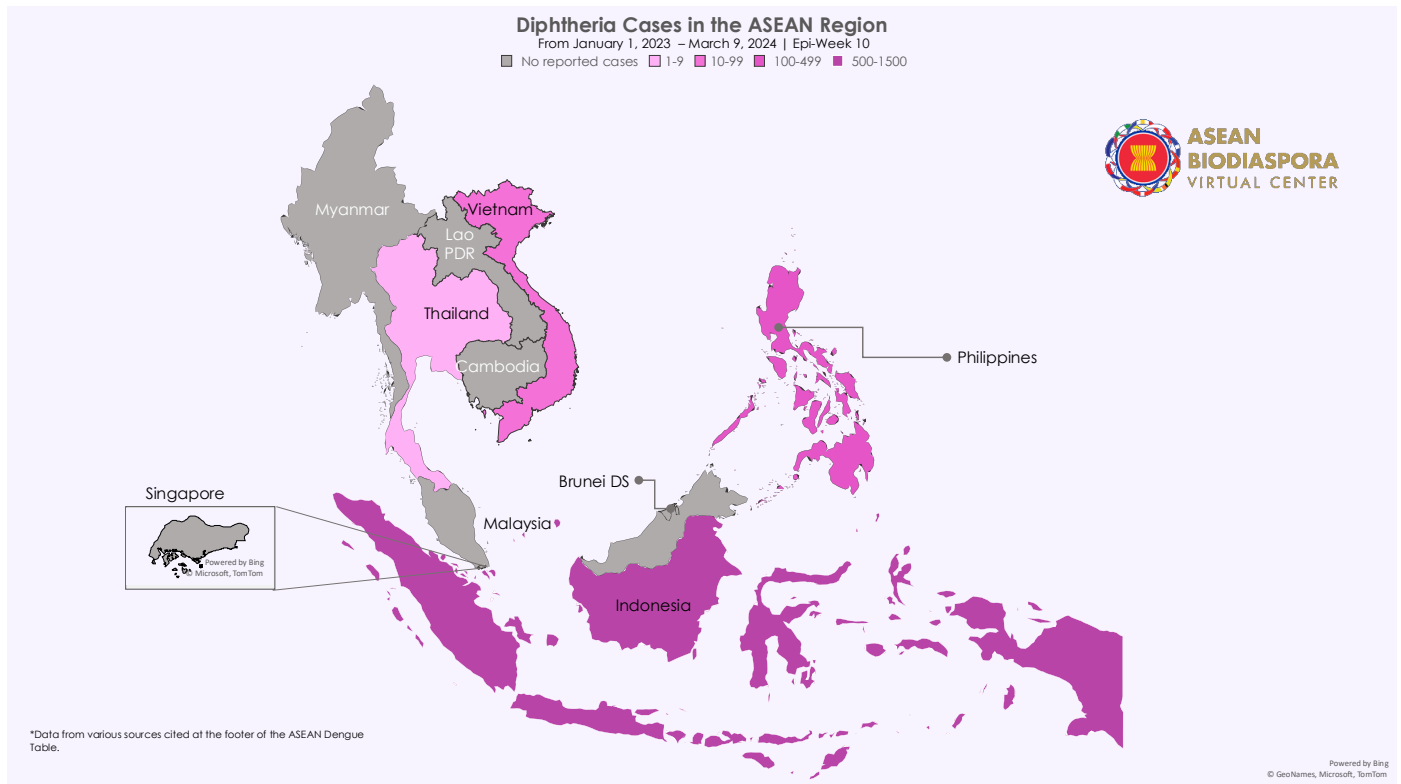
Malaria

- **Indonesia:** Malaria cases in Pohuwato District have reached 640 as of February 2024, according to Gorontalo State University academics (Siallagan F , 2024). Malaria researcher believes the high number could be due to the surge in immigrants, as the virus can more easily infect migrant populations in malaria-endemic areas. The Pohuwato District government should take precautions by eradicating mosquitoes, cleaning the environment, and covering puddles where larvae grow. [[Full article](#)]
- **Malaysia:** The Terengganu State Health Department reported a decrease in malaria cases in Kuala Nerus and Dungun districts from 13 cases in 2023 to two cases, urging people to seek medical attention if experiencing symptoms. (Yusof A.F, 2024) [[Full article](#)]

VACCINE-PREVENTABLE DISEASES

Diphtheria Cases in the ASEAN Region

From January 1, 2023 to March 9, 2024 (Epi-Week 10)



Diphtheria cases in the ASEAN region

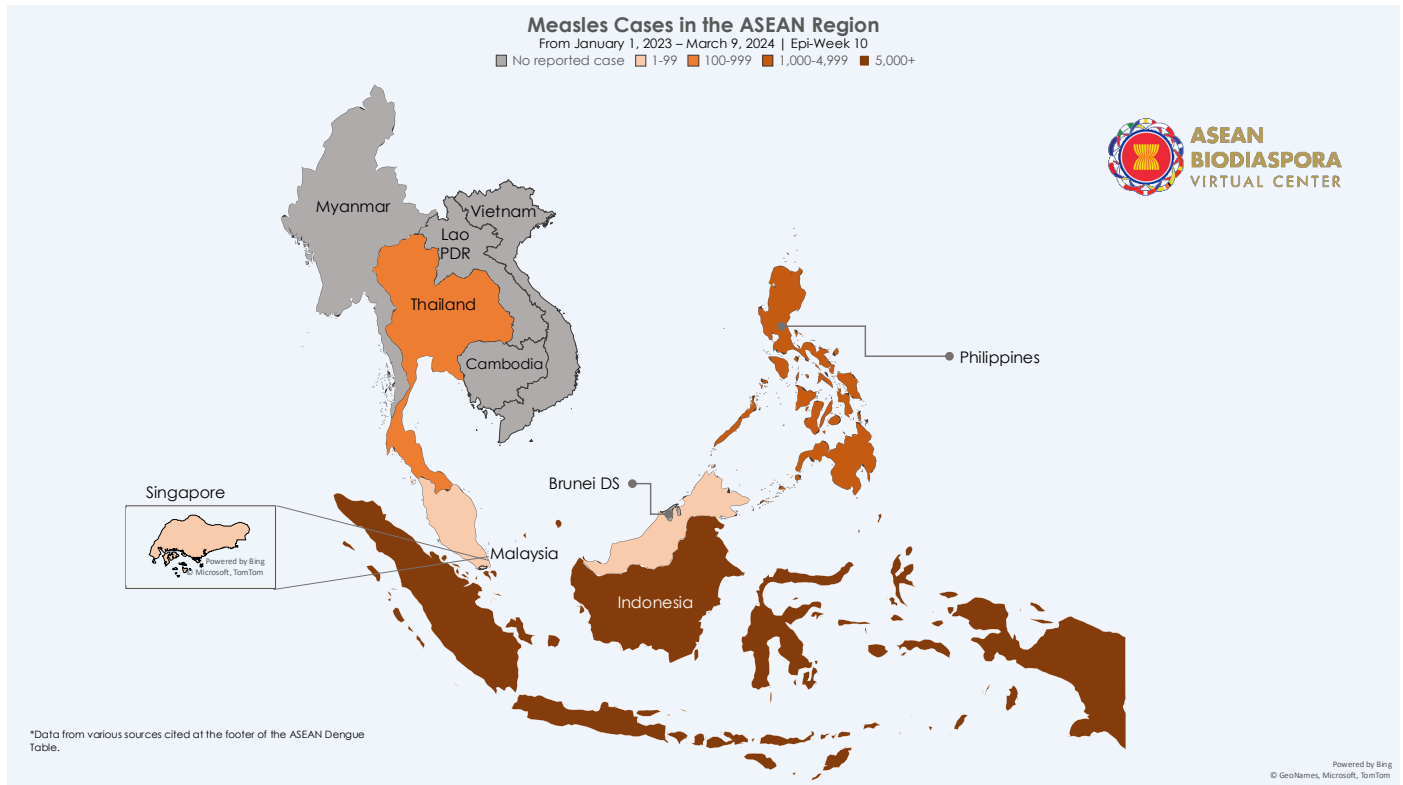
Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 8	1,032	0	71	6.88%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 48 '23	198	0	50	25.25%
Singapore ³	Week 9	0	0	0	0.00%
Thailand ⁴	Week 9	7	0	0	0.00%
Vietnam ⁵	Week 52 '23	55	0	5	9.09%
Total		1,292	0	126	9.75%

1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed March 12, 2024 "Statistics" (<https://doh.gov.ph/statistics>)
3. Ministry of Health Singapore, accessed March 12, 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 March 12, 2024 (<http://doe.moph.go.th/surdata/index.php>)
5. BlueDot Platform, accessed March 12, 2024 (<https://developer-portal.bluedot.global/>)

- The ASEAN region reported **NO** new diphtheria cases since the previous report. The region reported **1,292** total cases with **9.75%** CFR.

Measles Cases in the ASEAN Region

From January 1, 2023 to March 9, 2024 (Epi-Week 10)



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 8	10,465	0	12	0.11%
Lao PDR	-	-	-	-	-
Malaysia ²	Week 6	30	0	0	0.00%
Myanmar	-	-	-	-	-
Philippines ³	Week 48 '23	2,576	0	16	0.62%
Singapore ⁴	Week 9	9	0	0	0.00%
Thailand ⁵	Week 9	540	42	0	0.00%
Vietnam	-	-	-	-	-
Total		13,620	42	28	0.21%

1. Ministry of Health, Republic of Indonesia
2. Bluedot Platform, accessed March 12, 2024 (<https://developer-portal.bluedot.global/>)
3. Department of Health Website, accessed March 12, 2024 "Statistics," (<https://doh.gov.ph/statistics>)
4. Ministry of Health Singapore, accessed March 12, 2024, (<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 March 12, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **42** new measles cases in Thailand since the previous report. The region reported **13,620** total cases with **0.21%** CFR.



Media Monitoring for Vaccine-Preventable Diseases

Epidemiological Week 10 | March 3 – 9, 2024

Global Situation for Vaccine-Preventable Diseases

Measles

- **Austria:** Measles cases in Vorarlberg have increased due to Corona, and the State Medical Directorate reports 13 confirmed cases as of March 6 (VictoriaLacour, 2024). Measles is not a trivial disease, with complications such as pneumonia and middle ear infections occurring in around 20% of patients. A vaccination rate of 95-98% is necessary to eradicate measles, and two vaccinations are required. The triple combination measles-mumps-rubella (MMR) vaccination offers reliable protection and is free for children and adults in Austria. Unvaccinated contacts must be quarantined for 18 days to prevent further spread. [[Full article](#)]
- **Canada:** Seventeen measles cases have been confirmed in Quebec, Ontario, Saskatchewan, and British Columbia, with over half of those in the Montreal area (Bains C and Ireland N, 2024). The latest case, in a man in his 30s, was likely related to community transmission in the York Region north of Toronto. Public Health Ontario confirmed five cases, with all but one involving travel. British Columbia and Ontario last reported cases of the virus in 2019 when the western province mandated parents and guardians to provide immunization records for students enrolled in the public school system. Infectious disease specialists warn that a small number of measles cases can escalate to widespread infections, as it has elsewhere in the world, including Europe. [[Full article](#)]
- In **Greece**, 19 cases of measles have been recorded, with greater frequency in Attica and Crete (Newsroom, 2024). The majority of these cases are unvaccinated individuals, including health professionals. [[Full article](#)]
- **South Korea:** The global measles epidemic continues, with 11 cases in Korea this year, with ten being infected after traveling overseas (Kim Chang-hoon, 2024). The number of measles patients worldwide increased 1.8 times from 170,000 in 2022 to 300,000 last year, with Europe seeing a 62-fold increase. The World Health Organization (WHO) reported a 1.8-fold increase in Europe from 937 to 58,000 during the same period. The measles vaccine (MMR) must be administered once at 12 to 15 months of age and twice at four to six years of age. [[Full article](#)]
- **Taiwan:** Hualien County has confirmed a new case of measles from a 29-year-old woman who traveled to Malaysia from February 12-20, 2024 (Wang, S., 2024). The woman was diagnosed on March 6, and there are 24 contacts in the area. The Health Bureau is monitoring the health of these contacts until March 22nd. [[Full article](#)]

Other cases reported, two new cases of local measles were confirmed in New Taipei City, involving a 28-year-old female and a 41-year-old male (Zhao, Y., 2024). The cases are related to a northern community cluster index case, with the female in Zhonghe District and the male in Yonghe District being in risk activity areas. The cases are currently in isolation, with 204 contacts listed. The case has a history of activities in restaurants. People should monitor for suspected symptoms and contact the health unit for medical treatment. [[Full article](#)]

- The **United States (US):** Michigan's Washtenaw County Health Department reports Michigan's third measles case this year (Clarke, K., 2024). Measles is a highly contagious and preventable disease spread through direct contact and airborne transmission. The person's age and cause remain unknown. [[Full article](#)]



- The **United Kingdom (UK)**: A second measles case has been confirmed in Ireland, believed to be in a teenager (Kelly, L., 2024). Health Minister Stephen Donnelly announced a "catch up" vaccination programme to boost vaccine rates to 95%. The measles, mumps and rubella (MMR) vaccine needs 95% coverage to neutralize the spread. The Health Service Executive (HSE) states that symptoms include cold-like symptoms, aches, pains, a runny nose, sneezing, cough, sore eyes, and temperature changes. [[Full article](#)]

Pertussis

- **Greece** have whooping cough cases increased significantly since 2024, with nine cases reported in 2023. Infants are at the highest risk of serious illness and death, and vaccination programs aim to protect them (Newpost, 2024). The National Immunization Program (NIP) recommends timely vaccination from the second month of life. Pregnant women should be vaccinated during the third trimester of pregnancy. [[Full article](#)]
- **Russia**: Whooping cough has been reported in Tatarstan, with 362 cases recorded since 2024, with 9.05 cases per 100,000 population (Vyacheslav Veselin, 2024). The disease is particularly dangerous for young children, with coughing being the most intense transmission. Vaccinations are given to children aged 3-6 months, with revaccination occurring at 1.5 years old. [[Full article](#)]
- **Spain**: Whooping cough, a respiratory infection, is increasing in Spain, particularly in Andalusia, with 26% of cases reported nationwide (Admin, 2024). The Andalusian Association of Home and Community Care (Asanec) recommends additional pertussis vaccination doses due to waning immunity. The National Epidemiological Center of the Carlos III Institute reports 482 cases, with a rebound in pertussis infections from 38 in 2023 to 1,606 in 2024. The disease is highly contagious and spreads through close contact and coughing. Masks are recommended for vulnerable groups. [[Full article](#)]
- The **United Kingdom (UK)**: The UK Health Security Agency (UKHSA) reported a surge in whooping cough cases in January, compared to 858 cases for the entire 2023 (Lynch N, 2024). The UKHSA said case numbers fell during the pandemic due to reduced social mixing. The increase in cases comes amid a decline in vaccine uptake in pregnant women and children. The vaccine is offered as part of the six-in-one jab when babies are eight, 12 and 16 weeks old. [[Full article](#)]

Regional Situation for Vaccine-Preventable Diseases

Pertussis

- **Vietnam**: Hanoi has experienced nine cases of whooping cough since the beginning of 2024, compared to no cases in 2022 and 2023 (Hoang Chien, 2024). The Hanoi Department of Health recommends vaccination with pertussis-containing vaccine as the most proactive and effective disease prevention measure. Children receive the first injection at 2 months of age (can be vaccinated as early as 6 weeks of age); second dose at 3 months old; third dose at 4 months old; and fourth dose at 18 months old. Parents should ensure their homes, kindergartens, and classrooms are clean, airy, and have enough light. [[Full article](#)]



Media Monitoring for Other Diseases

Epidemiological Week 10 | March 3 – 9, 2024

Regional Situation for Food-Borne Diseases

Typhoid

- **Philippines:** The Iloilo Provincial Health Office (IPHO) has reported a 24% increase in typhoid fever cases from January 1 to February 24, with the highest incidence in certain municipalities (Sornito I, 2024). The disease, caused by *Salmonella Typhi*, is transmitted through contaminated food or water. Symptoms include fever, headache, stomach pain, diarrhea, chills, and muscle ache. If untreated, it can last one to three weeks and lead to serious intestinal issues or even death. The World Health Organization (WHO) indicates that typhoid fever is treatable with antibiotics, although antimicrobial resistance has been increasing, necessitating more complex and expensive treatment options. [[Full article](#)]



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

Epidemiological Week 8 | From January 1, 2023 to March 9, 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	81,635	77	0.09%	-	-	-	Rabies-free Country			-	-	-
Cambodia	658	0	0.00%	4	0	0.00%	-	-	-	38,024	107	0.28%
Indonesia	117,384	1,450	1.24%	85	0	0.00%	159	159	100%	136,393	1085	0.80%
Lao PDR	1,365	87	6.54%	1	0	0.00%	-	-	-	33,075	20	0.06%
Malaysia	256,912	491	0.19%	9	0	0.00%	25	25	100%	152,246	125	0.08%
Myanmar	8,226	5	0.06%	-	-	-	-	-	-	6,685	30	0.45%
Philippines	141,371	1,467	1.04%	5	0	0%	368	368	100%	195,603	657	0.34%
Singapore	819,481	313	0.04%	35	0	0%	Rabies-free Country			13,752	0	0%
Thailand	48,792	900	1.92%	709	1	0.14%	6	6	100%	177,133	195	0.11%
Vietnam	101,828	20	0.02%	135	6	4.44%	100	100	100%	175,758	43	0.02%
ASEAN Region	1,577,652	4,808	0.31%	983	7	0.71%	658	658	100%	928,669	2,262	0.24%

Infectious Diseases	Malaria			Measles			Diphtheria		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-
Indonesia	1,995	0	0%	10,465	12	0.11%	1,032	71	6.88%
Lao PDR	-	-	-	-	-	-	-	-	-
Malaysia	1,118	0	0%	30	-	-	-	-	-
Myanmar	4,510	0	0%	-	-	-	-	-	-
Philippines	33	0	0%	2,576	16	0.62%	198	50	25.25%
Singapore	27	0	0%	9	0	0%	0	0	0.00%
Thailand	5,489	4	0.07%	540	0	0%	7	0	0.00%
Vietnam	349	1	0.29%	-	-	-	55	5	9.09%
ASEAN Region	13,521	5	0.04%	13,620	28	0.21%	1,292	126	9.75%

References

- Admin (2024) Whooping cough on the rise in Andalusia, Nurse recommends more vaccinations, *OiCanadian*. Available at: <https://oicanadian.com/whooping-cough-on-the-rise-in-andalusia-nurse-recommends-more-vaccinations/> (Accessed: 06 March 2024).
- Andriana, K. (2024) Warga Sumedang Meninggal Akibat demam berdarah dengue, Ada 638 Kasus DBD Pada 2 Bulan Terakhir 2024, *Tribunjabar.id*. Available at: <https://jabar.tribunnews.com/2024/03/05/warga-sumedang-meninggal-akibat-demam-berdarah-dengue-ada-638-kasus-dbd-pada-2-bulan-terakhir-2024> (Accessed: 06 March 2024).
- Baldwin, D. (2024) HPE Health Unit reports four new high-risk covid-19 cases, *Pembroke Observer News*. Available at: <https://www.pembrokeobserver.com/news/hpe-health-unit-reports-four-new-high-risk-covid-19-cases-2> (Accessed: 08 March 2024).
- Bains, C. and Ireland, N. (2024) Saskatchewan among four provinces to confirm measles cases, 620 CKRM. Available at: <https://www.620ckrm.com/2024/03/05/saskatchewan-among-four-provinces-to-confirm-measles-cases/> (Accessed: 06 March 2024).
- BNFM Legazpi (2024) Morning rabies death in Albay, registered in Tiwi; victim, minor, *brigadanews.ph*. Available at: <https://brigadanews.ph/panibagong-rabies-death-sa-albay-nairehistro-sa-tiwi-biktima-menor-de-edad/> (Accessed: 06 March 2024).
- Bridge Staff (2024) Covid Tracker: Cases decline, as hospitalizations fall below 500, *Bridge Michigan*. Available at: <https://www.bridgemi.com/michigan-health-watch/covid-tracker-cases-decline-hospitalizations-fall-below-500> (Accessed: 06 March 2024).
- Clarke, K. (2024) Washtenaw County confirms Michigan's 3rd case of measles this year, *WDIV*. Available at: <https://www.clickondetroit.com/health/2024/03/03/washtenaw-county-confirms-michigans-3rd-case-of-measles-this-year/> (Accessed: 04 March 2024).
- EM (2024) 65 new Covid cases reported in country -, *The Daily Observer*. Available at: <https://www.observerbd.com/news.php?id=462879> (Accessed: 06 March 2024).
- Garcia, E. (2024) Whooping Cough Concentrates until Today 72% of cases of all of 2023 in Aragon, *El Periódico de Aragón*. Available at: <https://www.elperiodicodearagon.com/aragon/2024/03/07/tosf-erina-concentra-hoy-72-casos-99154390.html> (Accessed: 08 March 2024).
- Gayakwad, R. (2024) Kolhapur woman dies of rabies despite completing vaccine course:-*times of India, The Times of India*. Available at: <https://timesofindia.indiatimes.com/city/kolhapur/kolhapur-woman-dies-of-rabies-despite-completing-vaccine-course/articleshow/108250633.cms> (Accessed: 06 March 2024).
- Hakim, L. (2024) Kasus Demam berdarah dengue di Jatim Meningkat Tajam, capai 3.638 orang, *SINDOnews Daerah*. Available at: <https://daerah.sindonews.com/read/133325/704/kasus-demam-berdarah-dengue-di-jatim-meningkat-tajam-capai-3638-orang-1709517817> (Accessed: 04 March 2024).
- Hoang Chien (2024) NUMBER OF CASES OF Whooping Cough Increases Rapidly, Experts Give Recommendations, *daidoanket.vn*. Available at: <https://daidoanket.vn/so-ca-mac-ho-ga-tang-nhanh-chuyen-gia-dua-ra-khuyen-cao-10274570.html> (Accessed: 06 March 2024).
- Irwanto, D. (2024) 2 warga sumedang meninggal karena DBD, <https://www.metrotvnews.com>. Available at: <https://www.metrotvnews.com/read/bmRCemRz-2-warga-sumedang-meninggal-karena-dbd> (Accessed: 08 March 2024).
- Julie Washington (2024) Ohio covid-19 case numbers dip to lowest point since summer: *Coronavirus Update March 7, cleveland*. Available at: <https://www.cleveland.com/metro/2024/03/ohio-covid-19-case-numbers-dip-to-lowest-point-since-summer-coronavirus-update-march-7.html> (Accessed: 08 March 2024).
- Kelly, L. (2024) Second case of measles confirmed in teenager in west of Ireland, *The Irish Sun*. Available at: <https://www.thesun.ie/health/12361676/second-case-measles-confirmed-ireland-hse-give-update/> (Accessed: 08 March 2024).



- Kim Chang-hoon (2024) *Measles continues year after year... 11 people, including overseas travelers, infected in two months*, 한국일보. Available at: <https://www.hankookilbo.com/News/Read/A2024030510400000475> (Accessed: 06 March 2024).
- Lynch, N. (2024) *Number of whooping cough cases soar in UK - raising concerns about vaccine uptake*, Sky News. Available at: <https://news.sky.com/story/number-of-whooping-cough-cases-soar-in-uk-raising-concerns-about-vaccine-uptake-13089524> (Accessed: 08 March 2024).
- MacKinnon, B.-J. (2024) *Covid-19 kills 4 more in N.B. and hospitalizations jump, while most flu indicators drop*, CBCnews. Available at: <https://www.cbc.ca/news/canada/new-brunswick/covid-19-new-brunswick-deaths-hospitalizations-cases-respiratory-watch-feb-24-1.7133421> (Accessed: 06 March 2024).
- Marie-Eve Morasse (2024) *Two more new cases of measles in Montreal*, La Presse. Available at: <https://www.lapresse.ca/actualites/sante/2024-03-07/encore-deux-nouveaux-cas-de-rougeole-a-montreal.php> (Accessed: 08 March 2024).
- Mascarenhas, A. (2024) *First dengue bout can be as deadly as subsequent ones, says study*, The Indian Express. Available at: <https://indianexpress.com/article/cities/pune/first-dengue-bout-can-be-as-deadly-as-subsequent-ones-says-study-9202123/> (Accessed: 08 March 2024).
- Newpost (2024) *Children's diseases: Whooping cough outbreak alert - measles is back - experts worry*, Newpost.gr. Available at: <https://newpost.gr/eidiseis/paidikes-astheneies-synagermos-gia-tin-exarsi-kokkyti-emfanistike-xana-i-ilara-synagermos-apo-toys-eidikoy/> (Accessed: 08 March 2024).
- Newsroom (2024) *Sotiris Tsiodras worried about the outbreak of meningitis, whooping cough and streptococcus: LIFO*, LiFO.gr. Available at: <https://www.lifo.gr/now/tech-science/anistyhos-o-sotiris-tsiodras-gia-tin-exarsi-tis-miniggitidas-toy-kokkiti-kai-toy> (Accessed: 08 March 2024).
- Praditia, M.D. (2024) *Meningkat! 43 Warga Wonogiri Terjangkit Demam Berdarah, 3 orang meninggal*, Solopos.com. Available at: <https://soloraya.solopos.com/meningkat-43-warga-wonogiri-terjangkit-demam-berdarah-3-orang-meninggal-1878298> (Accessed: 08 March 2024).
- Pratidin, B. (2024) *Dengue hospital admission in 24 hours 3*, বাংলাদেশ প্রতিদিন. Available at: <https://www.bd-pratidin.com/dengue-update/2024/03/05/973691> (Accessed: 06 March 2024).
- Pratidin, B. (2024) *One died after 14 days of dengue, 12 in hospital*, বাংলাদেশ প্রতিদিন. Available at: <https://www.bd-pratidin.com/dengue-update/2024/03/07/974233> (Accessed: 08 March 2024).
- Putri, G.S. (2024) *114 warga Kendal Terjangkit Demam Berdarah, 13 orang meninggal Dunia*, KOMPAS.com. Available at: <https://regional.kompas.com/read/2024/03/05/120211978/114-warga-kendal-terjangkit-demam-berdarah-13-orang-meninggal-dunia> (Accessed: 06 March 2024).
- RNZ News (2024) *Covid-19 update: 5575 new cases, 21 deaths*, RNZ. Available at: <https://www.rnz.co.nz/news/national/510812/covid-19-update-5575-new-cases-21-deaths> (Accessed: 04 March 2024).
- Sarasa, A.B. (2024) *5.653 Warga Jawa Barat Terjangkit Penyakit DBD, 41 orang meninggal*, SINDOnews Daerah. Available at: <https://daerah.sindonews.com/read/1332407/701/5653-warga-jawa-barat-terjangkit-penyakit-dbd-41-orang-meninggal-1709359425> (Accessed: 04 March 2024).
- SAMILLANO, C. (2024) *32yo dies from Leptospirosis*, Visayan Daily Star. Available at: <https://visayandailystar.com/32yo-dies-from-leptospirosis/> (Accessed: 06 March 2024).
- Siallagan, F. (2024) *Akademisi Ung Gorontalo: Jumlah Pendatang Bisa Jadi Sebab tingginya Angka Kasus malaria di pohuwato*, Tribun Gorontalo. Available at: <https://gorontalo.tribunnews.com/2024/03/05/akademisi-ung-gorontalo-jumlah-pendatang-bisa-jadi-sebab-tingginya-angka-kasus-malaria-di-pohuwato?page=all> (Accessed: 06 March 2024).
- Sornito, I. (2024) *Spike in typhoid cases across Iloilo Triggers Health Advisory*, Panay News. Available at: <https://www.panaynews.net/spike-in-typhoid-cases-across-iloilo-triggers->



- [health-advisory/](#) (Accessed: 06 March 2024).
- Standard, B. (2024) Covid surge in North India: Delhi Records Highest Daily Total since May: India News, Business Standard. Available at: https://www.business-standard.com/india-news/covid-surge-in-north-india-delhi-records-highest-daily-total-since-may-124030700264_1.html (Accessed: 08 March 2024).
- Sornito, I. (2024) El Niño contributes to sharp rise in Iloilo dengue cases, Panay News. Available at: <https://www.panaynews.net/el-nino-contributes-to-sharp-rise-in-iloilo-dengue-cases/> (Accessed: 08 March 2024).
- Sullender, A. (2024) Two more cases of measles reported in Spokane County, all cases within the same household so far, Spokesman.com. Available at: <https://www.spokesman.com/stories/2024/mar/06/two-more-cases-of-measles-reported-in-spokane-coun/> (Accessed: 08 March 2024).
- The Daily Observer (2024) 45 new covid cases reported in country -, The Daily Observer. Available at: <https://www.observerbd.com/news.php?id=463187> (Accessed: 08 March 2024).
- UNB (2024) Covid-19: Bangladesh reports 37 more cases in 24Hrs, The Daily Star. Available at: <https://www.thedailystar.net/health/disease/coronavirus/events-who/deaths-infections/news/covid-19-bangladesh-reports-37-more-cases-24hrs-3557871> (Accessed: 04 March 2024).
- VictoriaLacour (2024) Currently 13 cases of measles in Vorarlberg, vol.at. Available at: <https://www.vol.at/aktuell-13-masernfalle-in-vorarlberg/8608918> (Accessed: 08 March 2024).
- VietNamNet News (2024) Three Monkeypox cases recorded in Mekong Delta Province, VietNamNet News. Available at: <https://vietnamnet.vn/en/three-monkeypox-cases-recorded-in-mekong-delta-province-2257010.html> (Accessed: 08 March 2024).
- VNA (2024) Laos reports three cases of anthrax: World: Vietnam+ (vietnamplus), VietnamPlus. Available at: <https://en.vietnamplus.vn/laos-reports-three-cases-of-anthrax/282525.vnp> (Accessed: 08 March 2024).
- Vyacheslav Veselin (2024) Six people fall ill with whooping cough every day in Tatarstan, KazanFirst. Available at: <https://kazanfirst.ru/news/s-nachala-goda-v-tatarstane-zafiksirovano-362-sluchaya-koklyusha> (Accessed: 06 March 2024).
- Wang, S. (2024) The first case of measles in Hualien! A 29-year-old woman once went to 'these places' and the Health Bureau called on the public to pay attention, 聯合新聞網. Available at: <https://udn.com/news/story/7266/7815461> (Accessed: 08 March 2024).
- Yi-ning, T. and Hsin-Yin, L. (2024) Taiwan reports covid-19 deaths in children after 10-month gap - focus taiwan, Focus Taiwan - CNA English News. Available at: <https://focustaiwan.tw/society/202403050019> (Accessed: 06 March 2024).
- Yusof, A.F. (2024) Situasi Semasa Kes malaria Negeri terengganu sehingga minggu epid 7/2024, Laman Web MKN. Available at: <https://www.mkn.gov.my/web/ms/2024/03/05/situasi-semasa-kes-malaria-negeri-terengganu-sehingga-minggu-epid-7-2024/> (Accessed: 06 March 2024).
- Zhao, Y. (2024) 麻疹本土群聚增2例! 新北衛生局曝活動史「曾去新馬辣」: Etoday健康雲: Etoday 新聞雲, EToday健康雲. Available at: <https://health.ettoday.net/news/2694323> (Accessed: 06 March 2024).