



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

Editorial

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Weekly Issue

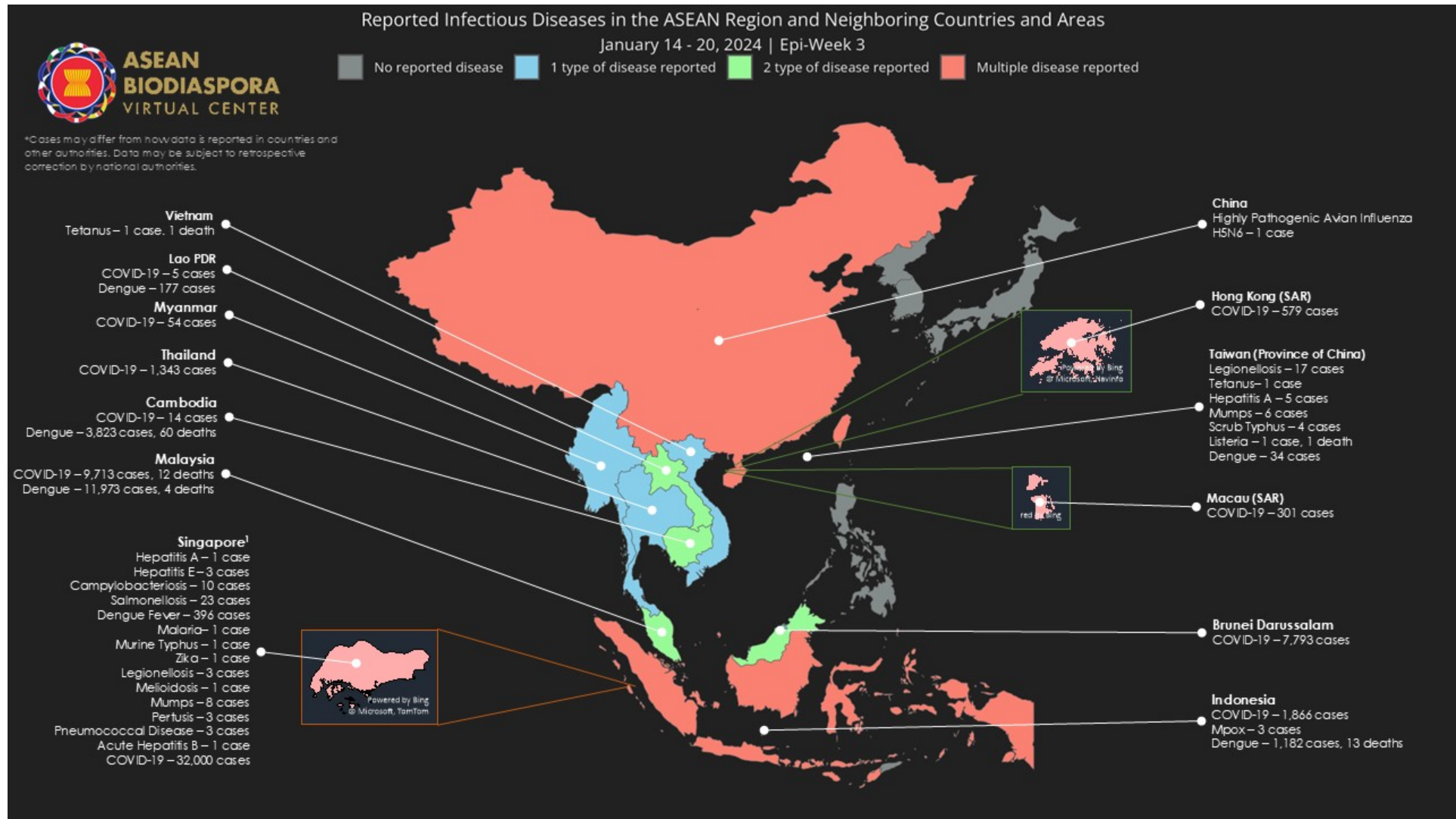


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Reported Infectious Diseases in the ASEAN Region and Neighboring Countries and Areas

Epidemiological Week 3 | January 14 – 20, 2024



The data was taken from the BlueDot Developer Portal, accessed January 22, 2024, <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 have increased by **52,788** and **12**, respectively, since the last report in the ASEAN Region.
- The **JN.1**, which is subtypes of **BA.2.86**, remains a dominant variant of interest spreading in the ASEAN Region until January 2024.
- There are **three** mpox new cases in the ASEAN Region since last report.
- **NO** new rabies cases have been found since last report for zoonosis in the ASEAN Region.
- Dengue cases and deaths has increased by **17,551** and **77** since the last report. Meanwhile, **one** new malaria case has been found and **NO** new chikungunya cases since the last report for vector-borne diseases in the ASEAN Region.
- There have been **NO** new cases of either diphtheria or measles since the last report of vaccine-preventable diseases in the ASEAN region.

Infectious Diseases in the ASEAN Region – Summary Table

Epidemiological Week 3 | From January 1, 2023 to January 20, 2024

Infectious Diseases	COVID-19			Mpox			Rabies			Dengue		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	77,129	77	0.11%	-	-	-	Rabies-free Country			-	-	-
Cambodia	625	-	0.00%	3	0	0	-	-	-	35,390	99	0.28%
Indonesia	113,699	1,342	1.22%	77	0	0	118	118	100%	99,253	777	0.78%
Lao PDR	1,327	87	6.59%	1	0	0	-	-	-	32,174	20	0.06%
Malaysia	245,967	478	0.23%	9	0	0	19	19	100%	142,048	108	0.08%
Myanmar	7,975	5	0.06%	-	-	-	-	-	-	6,685	30	0.45%
Philippines	141,371	1,467	1.10%	2	0	0%	368	368	100%	195,603	657	0.34%
Singapore	791,041	222	0.03%	32	0	0%	Rabies-free Country			10,244	0	10,640
Thailand	45,474	852	1.96%	644	1	0%	6	6	100%	158,585	181	0.11%
Vietnam	100,747	20	0.02%	117	6	5.31%	64	64	100%	166,619	42	0.03%
ASEAN Region	1,525,355	4,550	0.35%	885	7	0.79%	575	575	100%	846,997	1,914	0.23%

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%	468	0	0%	9,120	11	0.12%	905	56	6.19%
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1,116	0	0%	198	0	0%	-	-	-	-	-	-
Myanmar	4,510	0	0%	-	-	-	-	-	-	-	-	-
Philippines	31	0	0%	2,889	0	0%	2,576	16	0.62%	198	50	25.25%
Singapore	24	0	0%	13	0	0%	8	0	0%	-	-	-
Thailand	5,080	4	0.08%	1,415	0	0%	352	0	0%	6	0	0.00%
Vietnam	349	1	0.29%	-	-	-	-	-	-	41	3	7.32%
ASEAN Region	13,009	5	0.04%	4,956	0	0%	12,056	27	0.22%	1,150	109	9.48%



EMERGING DISEASES

COVID-19: Highlights and Situation Overview

- As of 20 January 2024 (5PM, GMT+7), there were **702,140,529** confirmed cases **worldwide**, including **6,971,914 deaths**. Globally, Case Fatality Rate (CFR) was **0.99%**.
- **36,935,458 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

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	14-Jan-24	338,569	77,129	7,793	225	0	74,260
Cambodia	27-Jan-20	22-Jan-24	139,063	625	14	3,056	0	810
Indonesia	02-Mar-20	22-Jan-24	6,825,402	113,699	1,866	161,954	0	2,445
Lao PDR	24-Mar-20	22-Jan-24	218,913	1,327	5	758	0	2,926
Malaysia	25-Jan-20	22-Jan-24	5,265,367	245,967	9,713	37,335	12	15,839
Myanmar	23-Mar-20	22-Jan-24	641,550	7,975	54	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	22-Jan-24	2,977,715	791,041	32,000	1,933	0	49,562
Thailand	13-Jan-20	22-Jan-24	4,764,382	45,474	1,343	34,521	0	6,797
Vietnam	23-Jan-20	31-Oct-23	11,624,114	100,747	0	43,206	0	11,747
ASEAN REGION			36,935,458	1,525,355	52,788	369,347	12	5,423

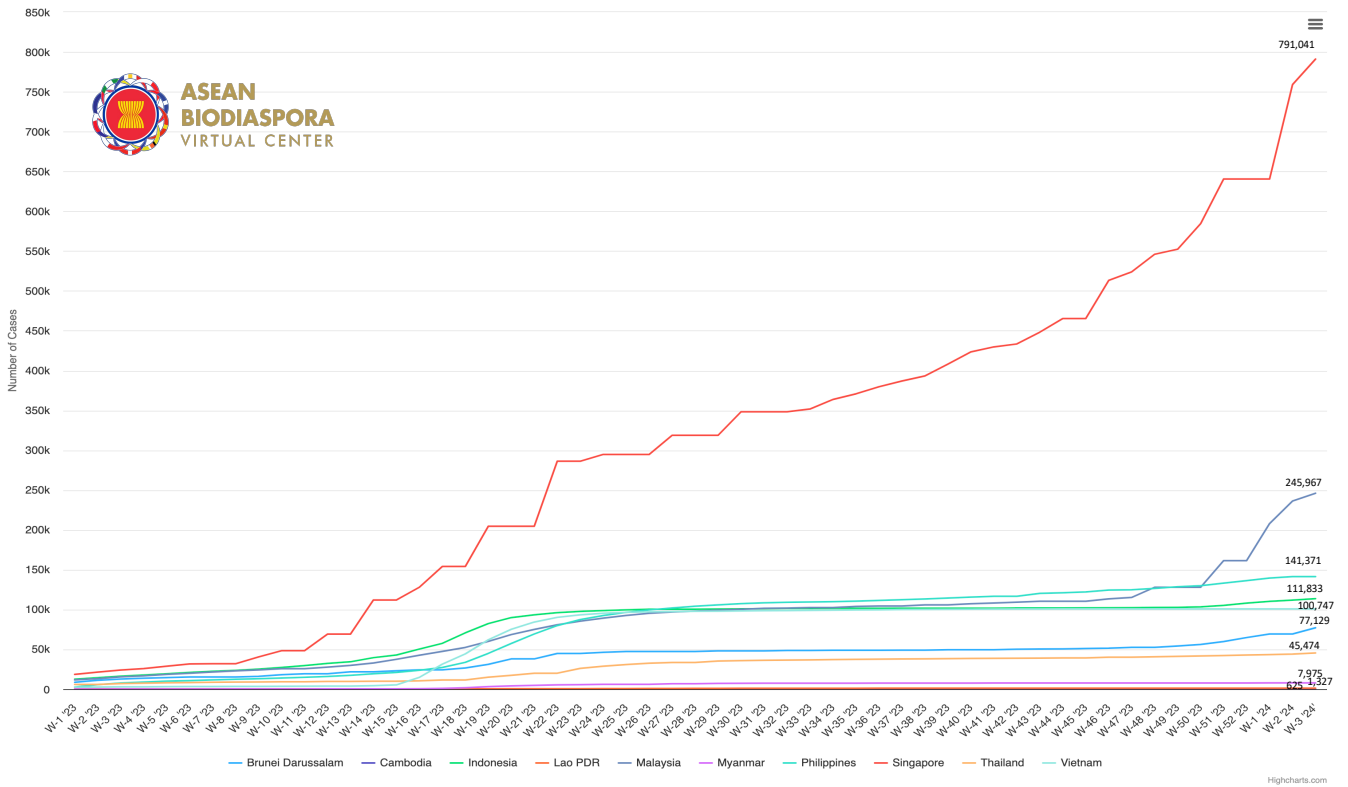
REGIONS	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
AFRICA	12,858,372	327	258,878	1
AMERICAS	200,236,474	192,718	3,032,565	1,442
ASEAN	36,935,458	52,788	369,347	12
ASIA & OCEANIA	199,171,745	-21,763	1,215,517	76
EUROPE	252,938,480	174,787	2,095,607	1,556
GLOBAL TOTAL	702,140,529	398,857	6,971,914	3,087

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



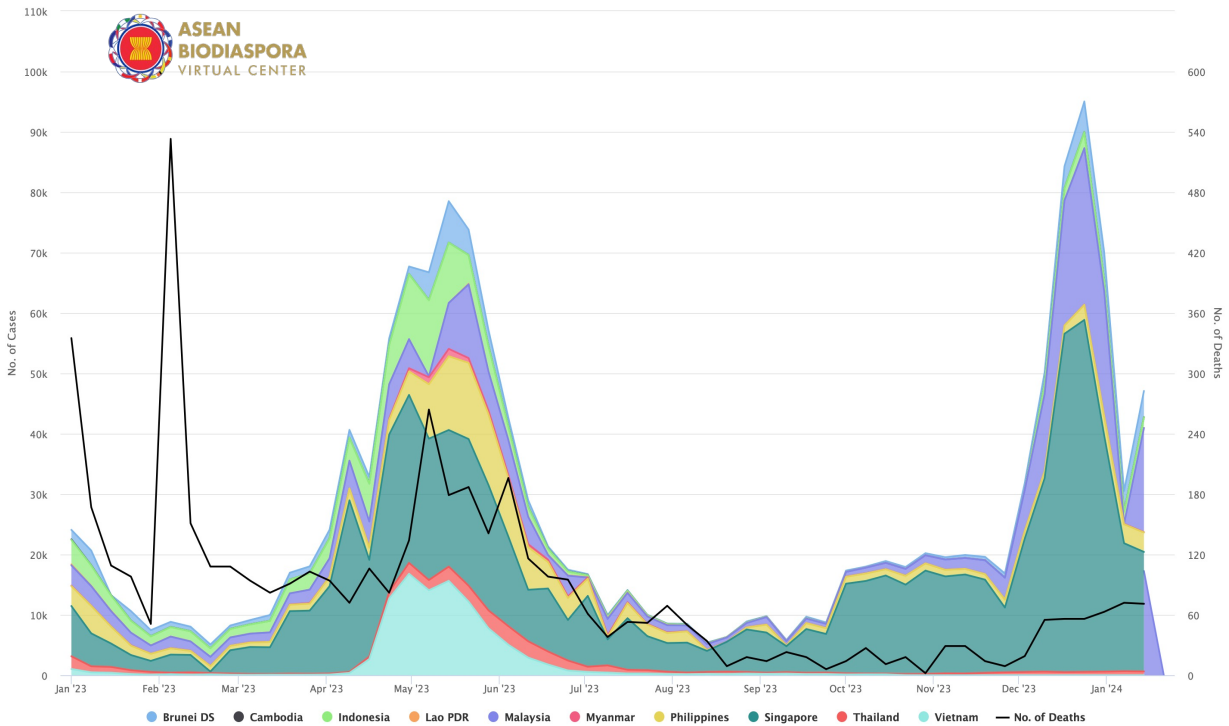
COVID-19 Epidemic Curve Among the ASEAN Member States (AMS)

From January 1, 2023 to January 20, 2024



ASEAN Weekly COVID-19 New Cases and Deaths

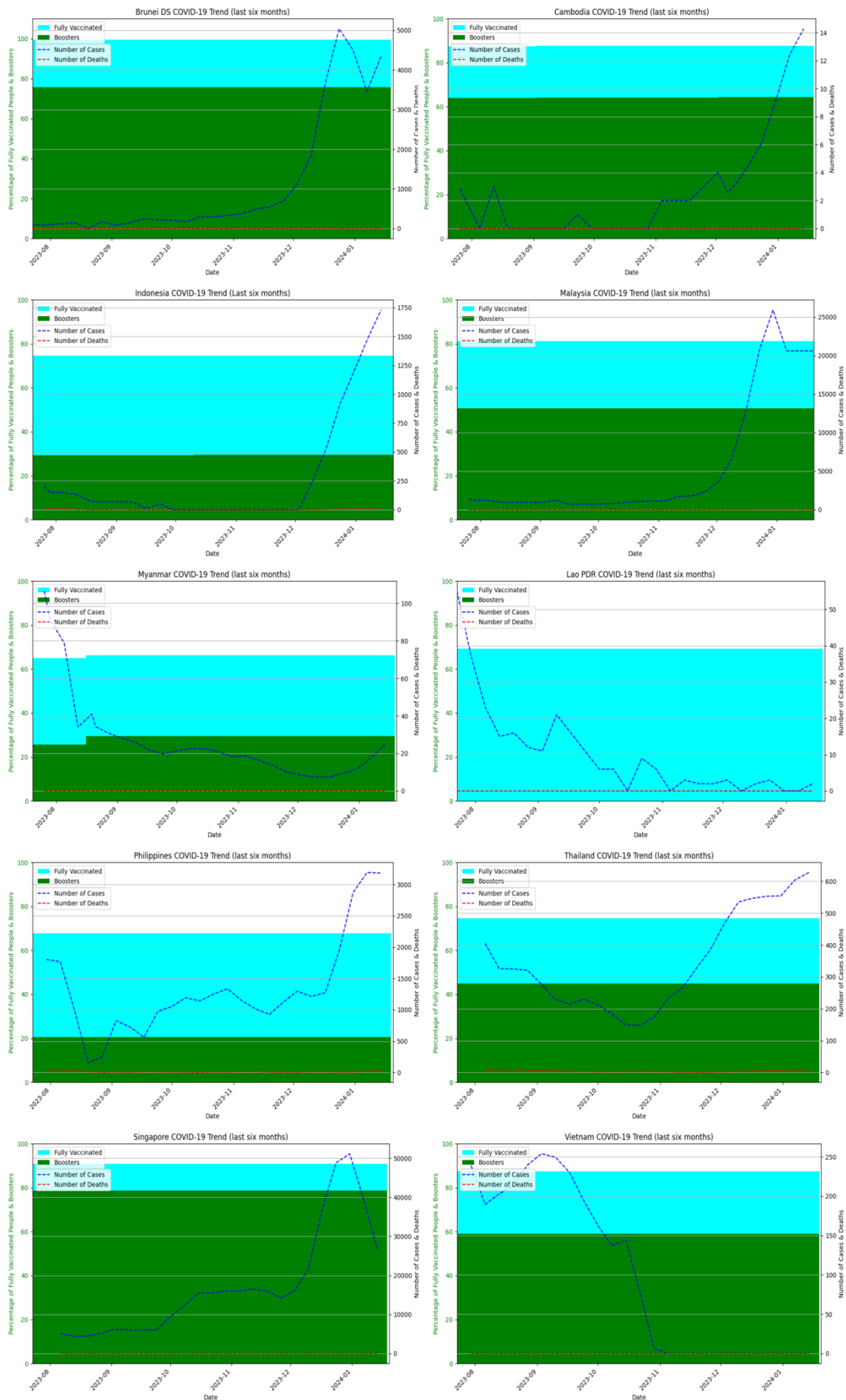
From January 1, 2023 to January 20, 2024



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

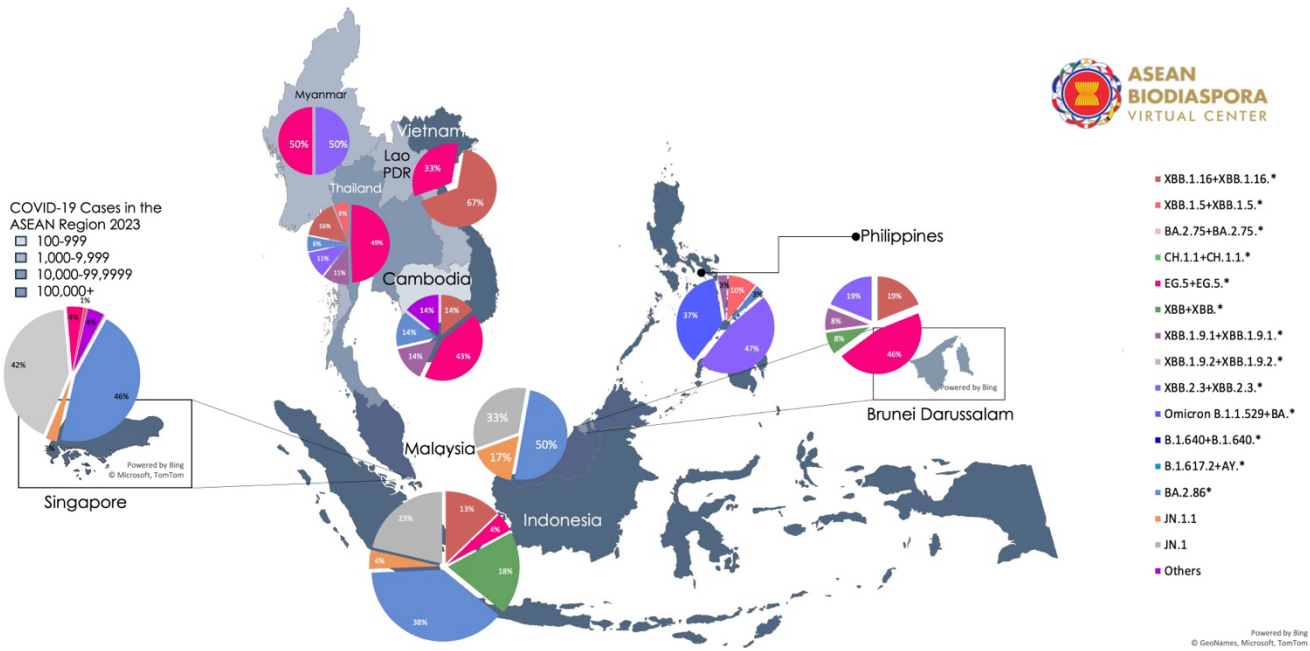
Trends of COVID-19 Cases, Deaths, and Vaccine Coverage among AMS

From July 1, 2023 to January 20, 2024



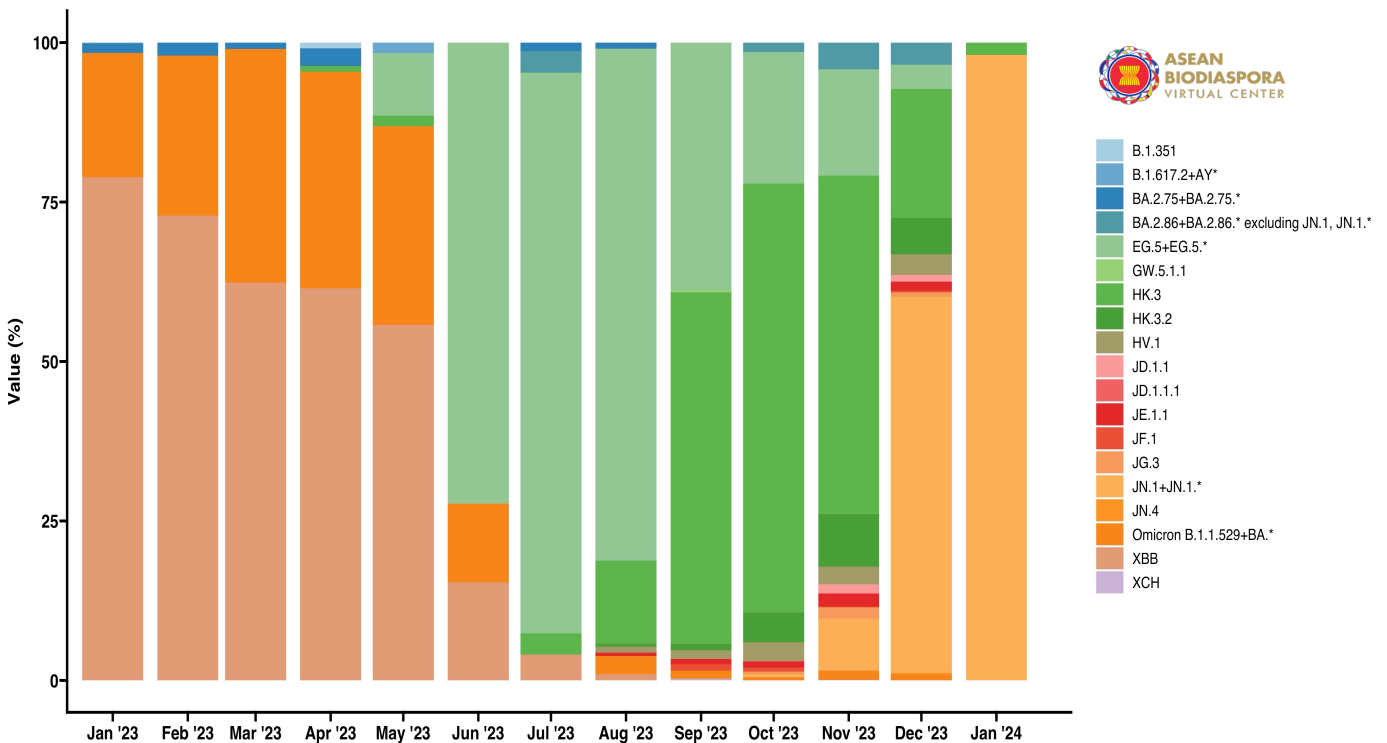
**Data References: [Singapore Government](#), [Worldometer](#), [OWID](#), and the [WHO](#)

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



GISAIID. "hCoV-19 Variants Dashboard," accessed January 22, 2024. <https://gisaid.org/hcov-19-variants-dashboard/>.

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

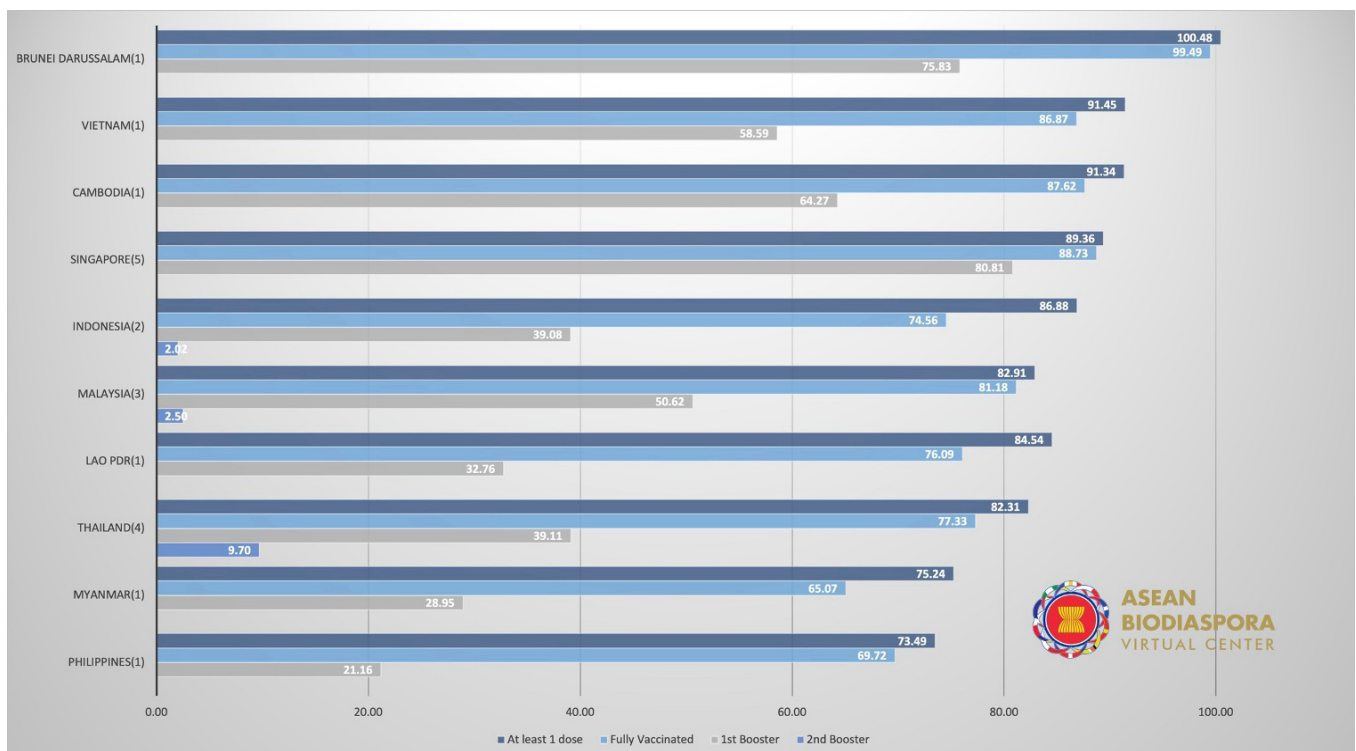


GISAIID. "hCoV-19 Variants Dashboard," accessed January 22, 2024. <https://gisaid.org/hcov-19-variants-dashboard/>.

ASEAN COVID-19 Vaccination Status

As of 20 January 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	100.29
Cambodia	15,315,251	14,691,716	10,776,613	85.57
Indonesia	203,878,842	174,969,323	70,958,894	62.68
Lao PDR	6,324,678	5,691,962	2,451,034	76.09
Malaysia	28,137,842	27,550,715	17,179,337	83.03
Myanmar	41,551,927	35,937,796	15,987,381	65.07
Philippines	82,684,774	78,443,972	23,811,248	69.72
Singapore	5,319,549	5,282,207	4,810,632	88.87
Thailand	57,678,376	54,190,997	27,409,734	77.33
Vietnam	90,497,674	85,961,564	57,975,220	86.87
Total	531,840,062	483,166,966	231,700,559	71.04

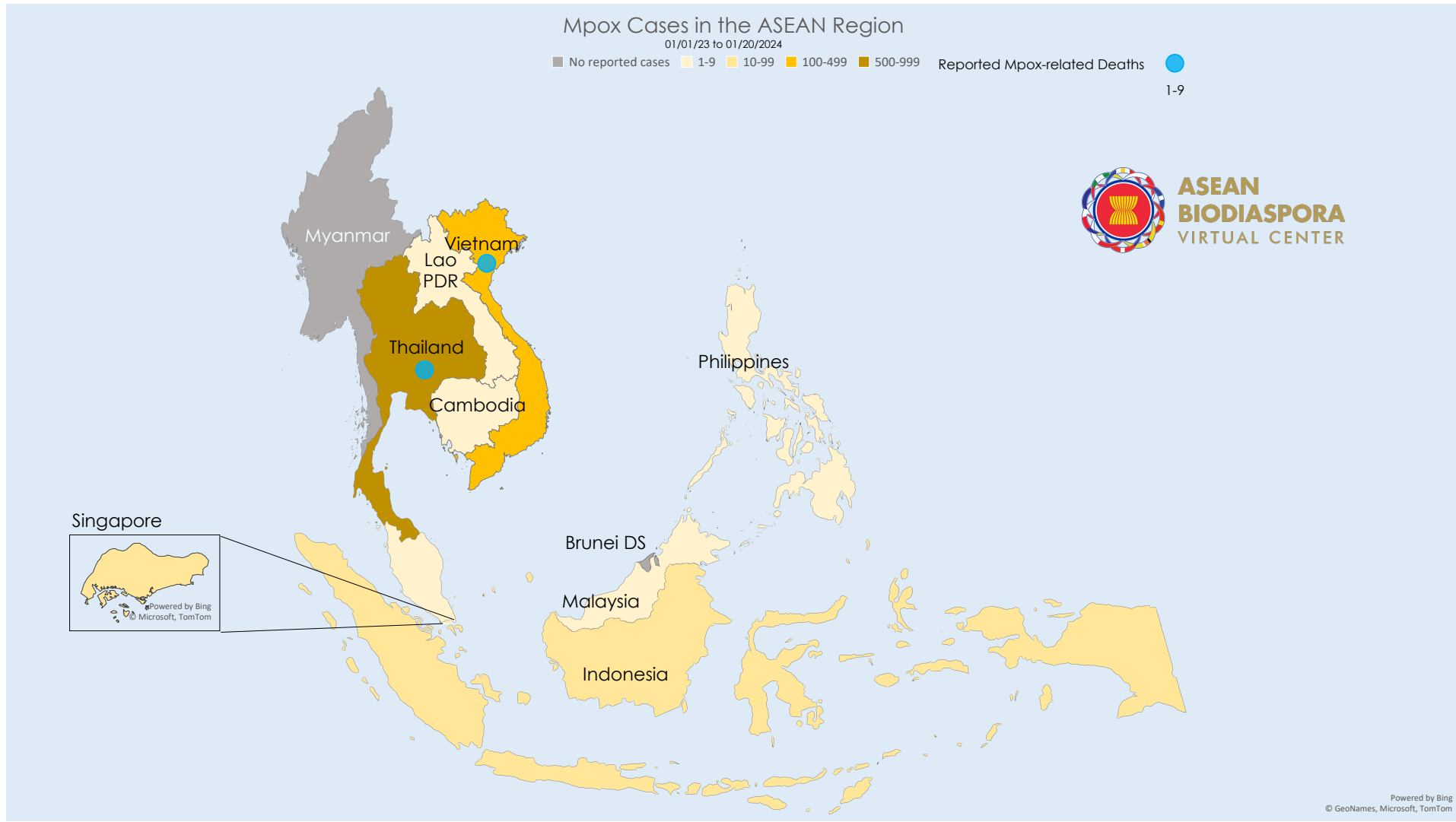


1. World Health Organization, Coronavirus (Covid-19) Data, accessed January 22, 2024 <https://covid19.who.int/data>
2. Ministry of Health Indonesia, "Vaccine Dashboard, January 22, 2024, <https://vaksin.kemkes.go.id/#/vaccines>
3. Ministry of Health Malaysia, Covid-19 vaccination, accessed January 22, 2024, <https://data.moh.gov.my/dashboard/covid-vaccination>
4. Ministry of Public Health Thailand, Covid-19 Vaccination Infographic, accessed January 22, 2024, <https://dashboard-vaccine.moph.go.th/>



Mpox Cases Reported in the ASEAN Region

January 1, 2023 – January 20, 2024



1. Ministry of Health Republic of Indonesia
2. EBS Bluedot (Accessed on January 22, 2024)
3. Ministry of Health Singapore, accessed January 22, 2024, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

Mpox: Highlights and Situation Overview

- From 1 January 2023 to 20 January 2024, **9,274** confirmed cases worldwide in 2023, including **105** deaths. Globally, the CFR was **2.54%**.
- **885 confirmed cases** including **seven deaths** in the **ASEAN** region, with a CFR of **0.79%**.
- **8,389 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 Jan. 20, 2024)

ASEAN Member States	Cumulative Cases 2023-2024	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Cambodia ¹	3	0	0	0.00%
Indonesia ²	77	3	0	0.00%
Lao PDR ¹	1	0	0	0.00%
Malaysia ¹	9	0	0	0.00%
Philippines ¹	2	0	0	0.00%
Singapore ³	32	0	0	0.00%
Thailand ¹	644	0	1	0.16%
Vietnam ¹	117	0	6	5.13%
ASEAN Total	885	3	7	0.79%

1. EBS Bluedot (Accessed on January 22, 2024)
2. Ministry of Health Republic of Indonesia
3. Ministry of Health Singapore, accessed January 22, 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 Jan. 20, 2024)

Country	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
People's Republic of China	2,019	0	1	0.05%
United States of America	1,643	0	35	2.13%
Democratic Republic of Congo	754	0	2	0.27%
Thailand	644	0	1	0.16%
Brazil	456	0	2	0.44%

**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	910	0	7	0.77%
AMERICAS	3,744	0	84	2.24%
ASEAN	885	3	7	0.79%
ASIA & OCEANIA	2,786	0	5	0.18%
EUROPE	949	0	2	0.21%
TOTAL	9,274	3	105	1.93%

Media Monitoring for Emerging Diseases

Epidemiological Week 3 | January 14 – 20, 2024

Global Situation for Emerging Diseases

COVID-19

- **Australia:** South Australia has reported 1,642 new COVID-19 cases in the past week, with no new deaths notified (Adelaide, 2024). The total number of cases has been adjusted due to a reconfiguration of data. In the past week, 4,389 people received a PCR test, a 12% decrease from the previous week. [\[Full article\]](#)
- **Bangladesh** reported one more COVID-19 linked death and 21 new cases in 24 hours until Sunday morning (Tribune Desk, 2024). The country's total number of deaths rose to 29,479 and total confirmed cases to 2,046,599, with an overall detection rate of 13.09% and a fatality rate of 1.44%. The country has detected a new COVID-19 sub-variant, JN.1, in a sample test of five individuals. The strain, an omicron strain, is considered a "variant of interest" by the World Health Organization (WHO). The Directorate General of Health Services (DGHS) advised people to wear masks as a precautionary measure due to the increasing number of JN.1 COVID-19 variant cases worldwide. [\[Full article\]](#)

Infections of JN.1 variant could increase as COVID-19 spreads during winter. Since the first cases were confirmed in March 2020, Bangladesh has reported 18 new cases and plans to start a fresh inoculation campaign in 2024 and 2025. [\[Full article\]](#)

- **India** has reported 375 new COVID-19 cases on Sunday, with active infections declining to 3,075 (PTI, 2024). The number of daily cases dropped to double-digits until December 5, but increased after the emergence of a new variant and cold weather conditions. A maximum of 841 new cases were reported on December 31, 2023, indicating a recovery rate of around 92%. India has experienced three waves of COVID-19, with the peak incidence occurring during the delta wave of April-June 2021. Over 44 million people have recovered from the disease, with a national recovery rate of 98.81%. [\[Full article\]](#)

India has also reported 180 new COVID-19 cases, with active cases dropping to 2,804. The Ministry of Health reported three fatalities in Maharashtra (TIMESOFINDIA, 2024). The JN.1 variant has not shown an exponential increase in new cases or hospitalizations. India has experienced three COVID-19 waves, with the Delta wave peaking in April-June 2021. Since the pandemic's onset in early 2020, over 45 million infections and 530,000 deaths have been recorded. [\[Full article\]](#)

- **New Zealand:** New COVID-19 cases were reported last week, with 8,040 being reinfections (RNZ News, 2024). As of midnight, 324 people were in hospital, six in intensive care. The number of people who had COVID-19 before getting it again was 4,992. Moreover, 77 new deaths were reported this week, including those between 23 December and 11 January. There were 6,558 new cases in the week leading up to 8 January, with 3,999 being reinfections. [\[Full article\]](#)
- **Pakistan** has confirmed 15 cases of the JN.1 coronavirus strain, classified as a "variant of interest" by World Health Organization (WHO) (Shabbir S, 2024). The country has reported over 1.5 million cases since the pandemic began in late 2019, with 30,371 deaths. The JN.1 variant has been reported in over 60 countries and has been administered at least 278,150,849 doses. Pakistan has advised social distancing, mask-wearing, and proper sanitation to prevent the spread of the new strain. [\[Full article\]](#)

- **Russia:** Irkutsk district registered 263 COVID-19 cases, 112.1% higher than previous week, with 389,731 confirmed cases since pandemic start (IRK.ru, 2024). 378,852 people recovered. Airports monitor passengers and crews 24/7, with 127 flights inspected since 2024. [[Full article](#)]
- The **United Kingdom** (UK): COVID-19 rates in England have been mapped out, with concerns over the emergence of various variants and subvariants and colder weather ideal for virus spread (Dubas & Williams, 2024). Despite the emergence of the highly mutated JN.1 variant, more commonly known as Juno, the virus has not led to a surge in cases. The virus is still potentially deadly, with recent cases involving two young children. The UK Health Security Agency (UKHSA) reported 4,337 new cases in the seven days leading up to January 17, with the Southeast and East of England having the lowest rates. [[Full article](#)]
- The **United States** (US): Oregon has seen the emergence of a new COVID-19 variant, JN.1, which is an Omicron subvariant (Wilk, 2024). The Center for Disease Control and Prevention (CDC) estimates that JN.1 may make up two-thirds of US cases. In Oregon, the variant reached 58% share in mid-December, and state officials expect this figure to continue rising. The Oregon Health Authority's Medical Director for Communicable Diseases and Immunizations, believes JN.1 may be evading some immunity. Although there is no firm evidence JN.1 has contributed, vaccination remains the best option to protect against severe cases. [[Full article](#)]

Regional Situation for Emerging Diseases

COVID-19

- **Cambodia** has reported four new COVID-19 cases, bringing the total to 139,061 (Reaseyeam38, 2024). No deaths were reported, with total fatalities remaining at 3,056. Nationally, 135,989 COVID-19 patients have recovered. Over 15.3 million doses of vaccines have been administered, with over 10 million shots for people aged 18 and above. Cambodia has already recorded COVID-19 infections with Omicron BA.4, BA.5 sub-variants, and JN.1 variants. [[Full article](#)]
- **Indonesia:** The East Kalimantan Province Health Office reported four new cases of COVID-19, indicating a continuing spread of the virus (Rasad, 2024). The new cases were found in Kutai Kartanegara, Penajam Paser Utara, and Balikpapan. However, four recovered patients were also reported. The accumulated COVID-19 cases in East Kalimantan reached 111, with 74 recovered and three deaths. 17 patients are still undergoing self-isolation, while 17 are being treated in health facilities. The health service urges public compliance with health protocols. [[Full article](#)]
- **Thailand** has detected the COVID-19 variant JN.1*, with 40 cases reported so far (Rose, 2024). The XBB.1.16* hybrid strain was the dominant strain until September 2023, but began to decline. The XBB.1.9.2* variant has since replaced it, and recent genome sequencing results show a decrease in the hybrid strain. The Omicron variant is currently the main strain spreading in Thailand. [[Full article](#)]

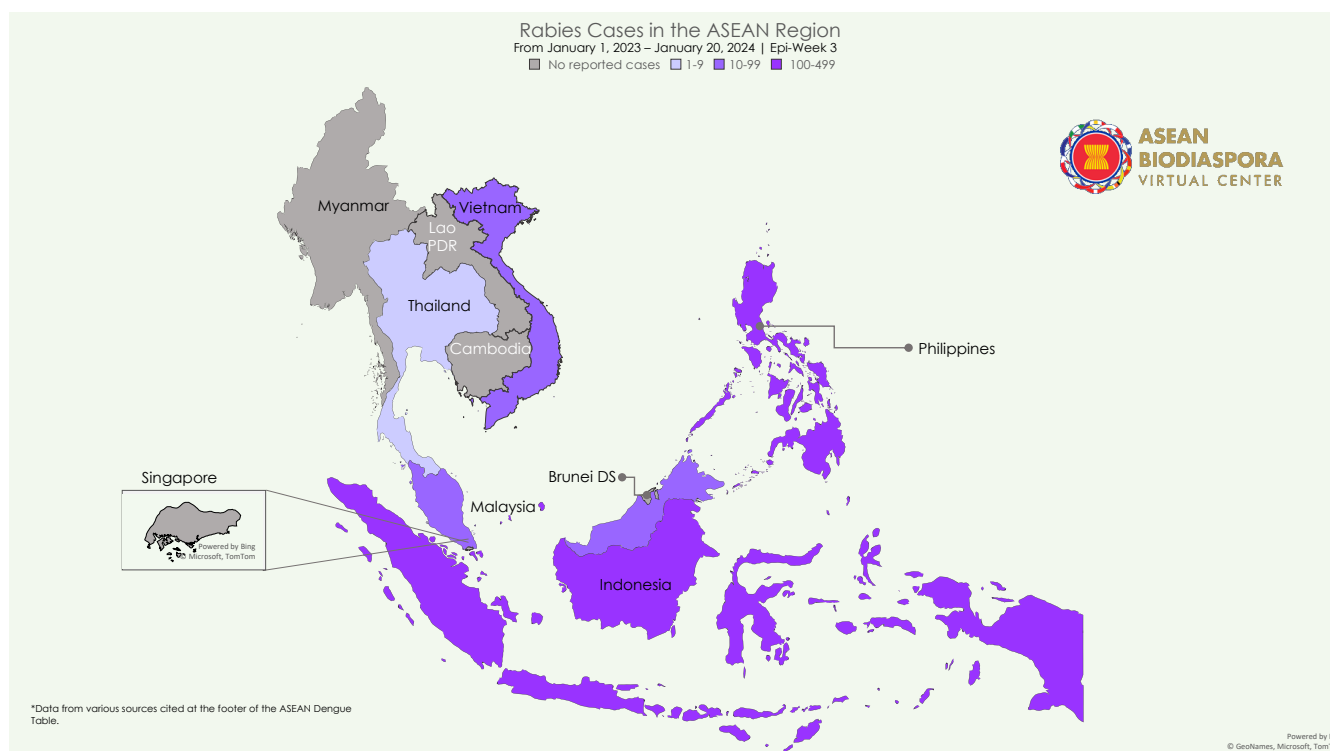
Mpox

- **Vietnam** has reported 121 mpox infections, six deaths, with most cases in Ho Chi Minh City and some central highlands and southern provinces (Giòi, 2024). The disease is classified as Group B infectious by the Ministry of Health. It is transmitted through close contact and symptoms include sudden rashes. Most recover after 10-14 days, but can cause serious complications or be life-threatening for immunocompromised individuals. [[Full article](#)]

ZOONOSIS

Rabies Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



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 50 '23	118	0	118	100%
Lao PDR	-	-	-	-	-
Malaysia²	Week 51 '23	19	0	19	100%
Myanmar	-	-	-	-	-
Philippines³	Week 48 '23	368	0	368	100%
Singapore			Rabies-free country		
Thailand⁴	Week 49 '23	6	0	6	100%
Vietnam²	Week 40' 23	64	0	64	100%
Total		575	0	575	100%

1. Ministry of Health, Republic of Indonesia
2. BlueDot Developer Portal, accessed January 22, 2024, <https://developer-portal.bluedot.global/>.
3. Department of Health Website, accessed January 22, 2024 "Statistics," <https://doh.gov.ph/statistics>.
4. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed January 22, 2024, <http://doe.moph.go.th/surdata/index.php>

- The **ASEAN** region reported **NO** new rabies cases since the previous report. The region reported **575** total cases and **575** total deaths in 2023 with **100%** CFR.

Media Monitoring for Zoonosis

Epidemiological Week 3 | January 14 – 20, 2024

Regional Situation for Zoonosis

Rabies

- **Indonesia:** Efforts to eradicate rabies in Bangli, Bali Province are ongoing, with two positive dog bite cases reported in Pengotan Village in early 2024 (Eka, 2024). The bites occurred in Banjar Delod Umah and Banjar Dajan Umah areas. Lab tests revealed both dogs were positive for rabies. The team is also conducting vaccinations in other dogs in the affected areas, with the general vaccination scheduled for February 2024. The team is taking samples from the dogs and addressing the situation. [\[Full article\]](#)

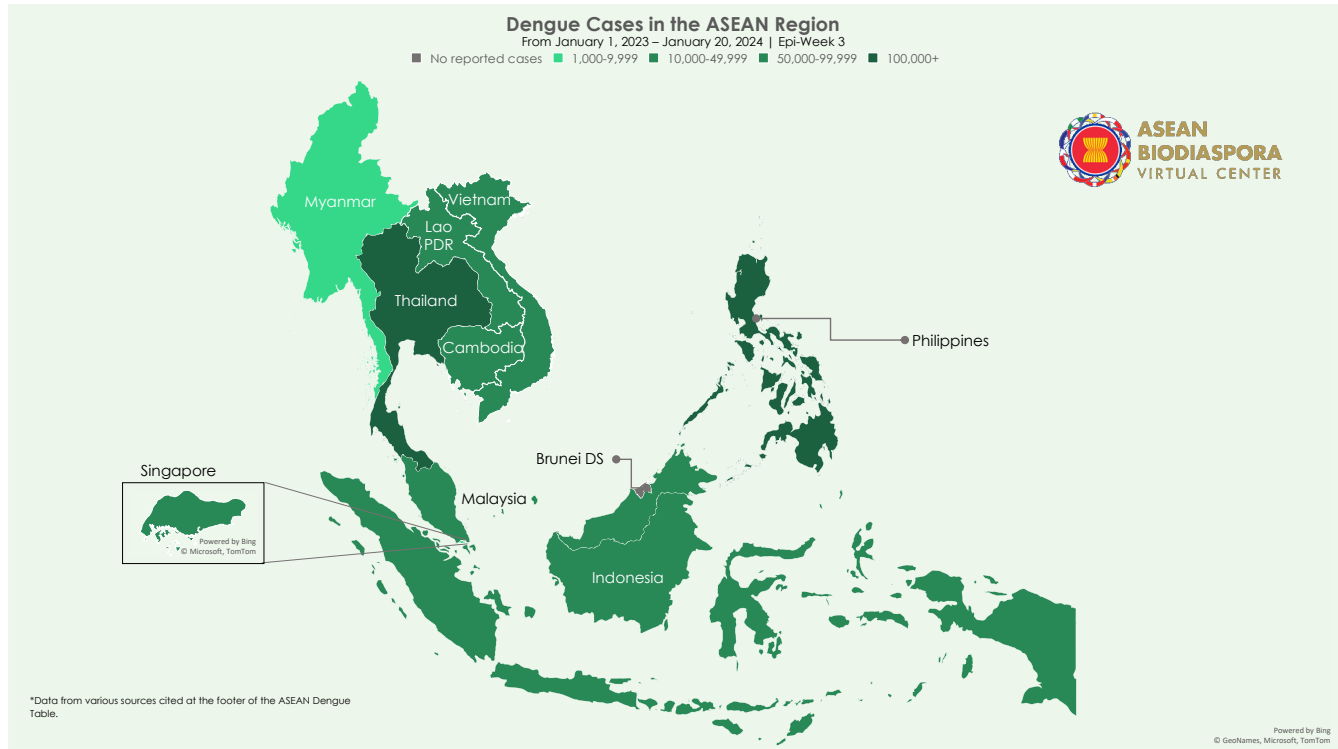
A case of rabid dog bites has also been reported in Pupuan Sub-district, Tabanan District, Bali (Irwan A.F, 2024). A male was bitten by his pet dog, which tested positive for rabies. The owner, suspected of not being vaccinated, was taken to the nearest health center for further treatment. This year, there have been five cases of rabid dog bites, with four found in Padangan Kelod Hamlet and one in Padangan Kaja Hamlet. Emergency vaccinations are planned to suppress rabies cases. [\[Full article\]](#)

Indonesia: In 2024, 29 rabies cases occurred in Dompus District, with 14 cases in the Woja sub-district area (SUARANTB, 2024). Most of these cases occurred in Saneo and Serakapi villages, where residents often use dogs to protect their fields and houses from attacks by pigs and livestock. The number of bite cases is concerning, especially since it is only mid-January 2024. The Disease Control and Prevention Services Division of the Dompus District Health Office has only received 21 cases of suspected rabies cases, and 6 cases from Woja sub-district. In 2023, 546 cases of bites were recorded, with the District Animal Husbandry and Animal Health Office handling the cases. [\[Full article\]](#)

VECTOR-BORNE DISEASES

Dengue Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



Dengue cases in the ASEAN region

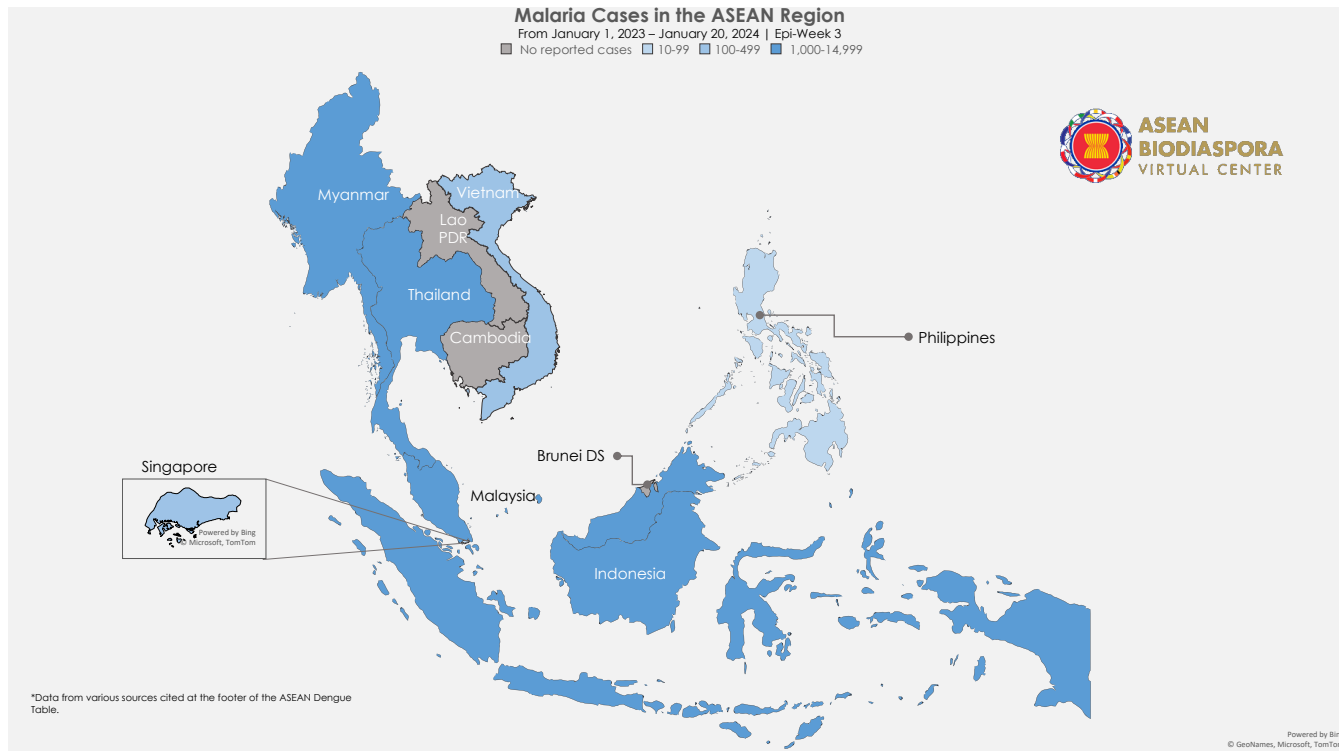
Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-
Cambodia ¹	Week 52 '23	35,390	3,823	99	60	0.28%
Indonesia ²	Week 3	99,253	394	777	4	0.78%
Lao PDR ¹	Week 1	32,174	177	20	0	0.06%
Malaysia ³	Week 2	142,048	11,973	108	4	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 2	10,640	396	-	-	0.00%
Thailand ⁷	Week 1	158,585	0	181	0	0.11%
Vietnam ¹	Week 50 '23	166,619	0	42	0	0.03%
Total		846,997	17,157	1,914	73	0.23%

1. WHO WPRO, "Dengue," World Health Organization, accessed January 22, 2024, <https://www.who.int/westernpacific/emergencies/surveillance/dengue>.
 2. Ministry of Health, Republic of Indonesia
 3. Disease Control Division, Ministry of Health Malaysia, accessed January 22, 2024. iDengue, <https://idengue.mysa.gov.my/did/>.
 4. BlueDot Developer Portal, accessed January 22, 2024, <https://developer-portal.bluedot.global/>.
 5. Department of Health Website, accessed January 22, 2024 "Statistics," <https://doh.gov.ph/statistics>.
 6. Ministry of Health. "Weekly Infectious Disease Bulletin", accessed January 22, 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 January 22, 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 **17,157** new dengue cases in Cambodia, Indonesia, Lao PDR, Malaysia and Singapore – 73 Deaths. The region reported **846,997** total cases and **1,914** total deaths with **0.23%** CFR.

Malaria Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



Malaria cases in the ASEAN region

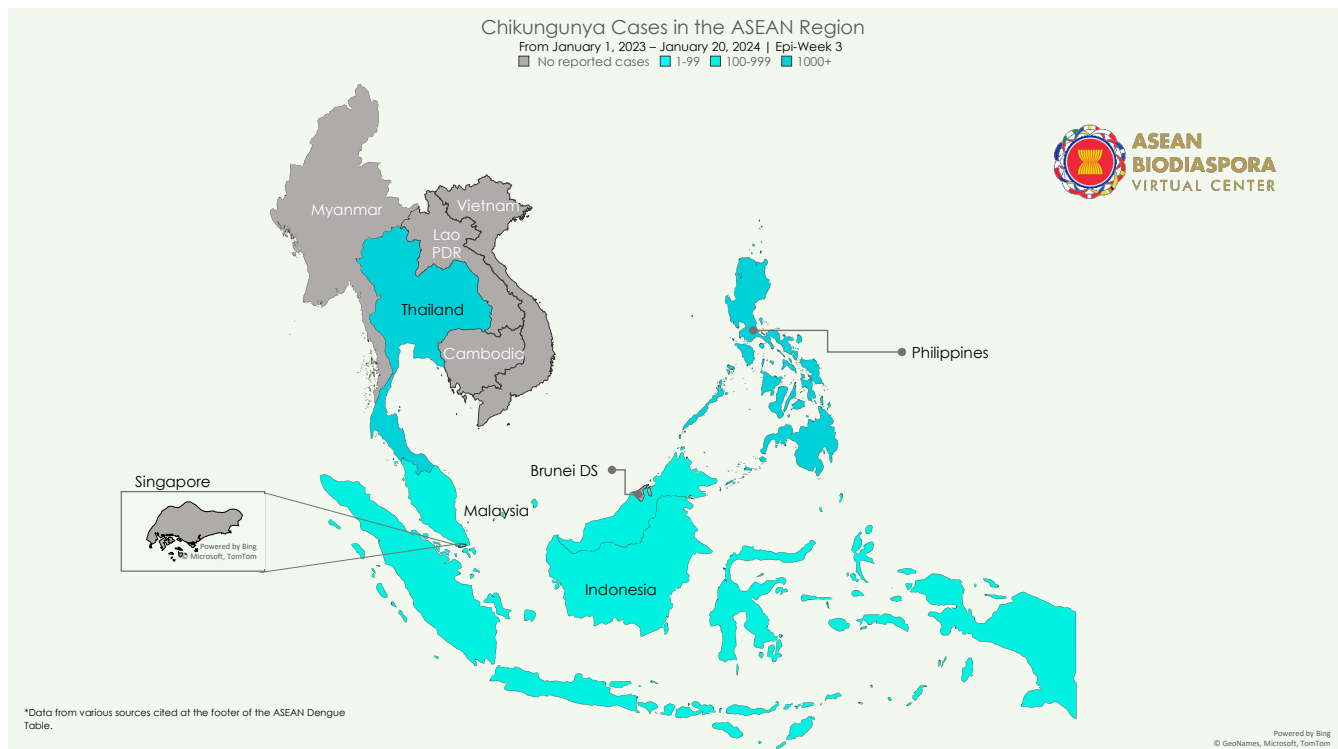
Country	Epi-Week Reported	Cumulative Malaria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 44 '23	1,899	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ¹	Week 45 '23	1,116	0	0	0.00%
Myanmar ¹	Week 23 '23	4,510	0	0	0.00%
Philippines ¹	Week 28 '23	31	0	0	0.00%
Singapore ³	Week 2	24	1	0	0.00%
Thailand ²	Week 1 '23	5,080	0	4	0.08%
Vietnam ¹	Week 42 '23	349	0	1	0.29%
Total		13,009	1	5	0.04%

1. BlueDot Developer Portal, accessed January 22, 2024, <https://developer-portal.bluedot.global/>.
2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed January 22, 2024, <http://doe.moph.go.th/surdata/index.php>
3. Ministry of Health Singapore, accessed January 22, 2024, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

- The **ASEAN** region reported **one** new malaria case in Thailand since the previous report. The region reported **13,009** total cases and **five** total deaths with **0.04%** CFR.

Chikungunya Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



Chikungunya cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Chikungunya Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-
Indonesia ¹	Week 51 '23	468	0	0	-	0.00%
Lao PDR	-	-	-	-	-	-
Malaysia ²	Week 1 '24	198	0	0	-	0.00%
Myanmar	-	-	-	-	-	-
Philippines ³	Week 48 '23	2,889	0	0	-	0.00%
Singapore ⁴	Week 46 '23	13	0	0	-	0.00%
Thailand ⁵	Week 50 '23	1,415	0	0	-	0.00%
Vietnam	-	-	-	-	-	-
Total		4,983	0	0		0.00%

1. BlueDot Developer Portal, accessed January 22, 2024, <https://developer-portal.bluedot.global/>.
2. Portal Rasmi, Ministry of Health Malaysia, accessed January 22, 2024, https://www.moh.gov.my/index.php/database_stores/store_view/17.
3. Department of Health Website, accessed January 22, 2024 "Statistics," <https://doh.gov.ph/statistics>.
4. Ministry of Health Singapore, accessed January 22, 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 January 22, 2024, <http://doe.moph.go.th/surdata/index.php>.

- The **ASEAN** region reported **NO** new chikungunya cases since the last report. The region reported **4,983** total cases and **NO** deaths with **0.00%** CFR.

Event Updates for Vector-borne Diseases

Epidemiological Week 3 | January 14 – 20, 2024

Global Situation for Vector-borne Diseases

Dengue

- **Bangladesh:** A person has died, and 30 more people have been admitted to the hospital due to dengue in the last 24 hours, according to a press release from the Health Emergency Operation Center and Control Room of the Department of Health (Pratidin B, 2024). In the first 15 days of the new year, eight people died due to dengue. A total of 733 people has been infected with dengue till January 16, with 529 patients receiving clearance. [\[Full article\]](#)

Dengue treatment in Barisal is increasing, with 25 patients under treatment on January 17 (Abdullah, 2024). Since January 1, there were 213 patients have died due to dengue infection in Barisal division, with 171 dying at Sher-e Bangla Medical. [\[Full article\]](#)

- **India:** Climate change has led to a surge in dengue cases in the state, with 14,955 recorded cases and 1,829 confirmed within a month (Vartabharati, 2024). Over 200,000 dengue fever suspects have been screened, with 9 deaths in BBMP this year. Over 60 thousand chickenpox cases have also been detected in 28 districts. To combat the situation, mosquitoes should be avoided, and nets and repellents should be used at home and at night. [\[Full article\]](#)

Dengue fever in Tamil Nadu has affected 922 people in 17 days, with the Public Health Department predicting it will be under control within three weeks (Dinamalar, 2024). The *Aedes aegypti* mosquito, which transmits the disease, has already affected 9,121 people last year. [\[Full article\]](#)

On 20 January 2024, The Health Department reported 18 confirmed dengue cases across 36 districts in Punjab, with 11 in Lahore, two in Rawalpindi, two in Faisalabad, one in Gujarat, one in Sargodha, and one in Vehari (The news, 2024). [\[Full article\]](#)

- **Sri Lanka** has reported over 5,000 dengue cases in January, with 5,829 reported in the first half of the month (Xinhua, 2024). The Western Province had the highest number of cases, followed by the Northern Province. Last year, 88,398 cases and 57 deaths were reported. The Ministry of Health declared a nationwide dengue prevention week earlier this year. [\[Full article\]](#)

In the last 15 days, there were 5,892 dengue cases have been reported in Sri Lanka, with 1,228 cases from the Western Province and 390 from Colombo city (News H, 2024). Last year, 86,232 cases were reported. A 23-year-old student died from dengue. Dengue checks were conducted in various areas. [\[Full article\]](#)

Leptospirosis

- **Fiji:** In 2023, the Raiwaqa Health Centre reported 1,200 non-communicable diseases, including one leptospirosis death (Shaw W, 2024). A doctor highlighted the importance of educating the community about health risks and spreading factors, urging them to utilize the services provided, especially in the community where communicable diseases are common. [\[Full article\]](#)

- **India:** A young girl in Bhilwara, Rajasthan, has been diagnosed with leptospirosis, a potentially dangerous disease transmitted through rat-borne sources (Pillai G.S, 2024). The girl, who was initially treated at home, was referred to a private hospital in Bhilwara for further examination and treatment. Despite initial tests failing to identify the ailment, a positive test for leptospirosis was received, and treatment has been administered. Leptospirosis is a common infection during monsoon, especially in areas prone to flooding and waterlogging. It is known to spread to children through contact with rat urine, presenting symptoms like dengue. [\[Full article\]](#)

Malaria

- **Papua New Guinea:** A second outbreak of malaria in Kikori, Gulf, has resulted in six confirmed deaths, with over 400 people infected and in desperate need of medical help (National T, 2024). The Haia Health Centre, which lacks medical officer and is not operational, could lead to more deaths due to the remoteness of the village and the lack of medical help. Patients are treated with local herbs. [\[Full article\]](#)

Regional Updates for Vector-borne Diseases

Chikungunya

- The **Philippines:** Chikungunya cases in the Philippines increased 269% in 2023 (Campos, 2024). Central South Region recorded 27 cases, Chorotega 16 cases, and Central Pacific regions 14 cases. Those were the 3 regions with the highest number of reports from the Ministry of Health. The country-wide rate of the virus increased from 1.8 per 100,000 inhabitants in 2022 to 96 in 2023. [\[Full article\]](#)

Dengue

- **Indonesia:** Dengue fever cases in Jombang have increased significantly, with 30 cases reported in the past three months (Zuhri, 2024). Most of these cases are children and young adults. Jombang District Health Office has identified 11 positive cases of dengue fever, with 70% of cases are under 14 years old. The situation is expected to worsen in the coming months. [\[Full article\]](#)

Dengue Hemorrhagic Fever (DHF) has caused a significant increase in deaths in 2024, with one 13-year-old child in Gunung Telihan Village dying (Halim A, 2024). The patient had received medical treatment since January 8, but his condition continued to decline, and his life could not be saved. Since the beginning of the year, 41 cases of DHF have been reported in Bontang City, with the highest cases in certain sub-districts. The Head of Disease Prevention and Control at the City Health Office urges the public to pay attention to surrounding conditions and to clean areas that may become breeding grounds for the *Aedes aegypti* mosquito. [\[Full article\]](#)

Over the past two weeks, 133 Dengue Hemorrhagic Fever (DHF) patients have been treated at District General Hospital, South Kalimantan (Aritonang and Ridwan, 2024). The hospital has prepared a spare room to accommodate the surge in patients, with 106 being treated in children's, adult, and intensive rooms. The hospital has also prepared nursing staff to handle the increased number of patients. The transmission of DHF cases in Hulu Sungai Tengah has been transmitted across several sub-districts. The District Health Office has made efforts to prevent the spread of DHF through mosquito nest eradication and health education. [\[Full article\]](#)

- **Malaysia:** first epidemiological week from December 31 to January 6, 2024 (Bernama, 2024). No fatalities were reported due to dengue complications. Hotspots decreased to 130, with Selangor having the highest number. One chikungunya case was recorded in the first epidemiological week, and 18 blood samples were screened for Zika and all negatives. No deaths were reported in the first week of this year. [[Full article](#)]

Sarawak recorded 1,091 dengue cases in 2023, despite having the third lowest number of dengue cases nationwide in 2023 (Aubrey, 2024). The state recorded 0.9% of dengue cases in Malaysia, with Selangor and the Federal Territory of Kuala Lumpur accounting for 61.1% and 11.5% of cases respectively. Despite the increase, 123,133 dengue cases were reported last year, an 86.3% increase from 66,102 cases in 2022. He also announced the release of Wolbachia-infected Aedes mosquitoes in 10 new localities to help address dengue cases, costing RM4 million annually. [[Full article](#)]

- **Singapore:** Dengue infections have surged for six consecutive weeks, with 396 cases reported in the week of January 7-13, 2024, the highest weekly figure in over a year (Salma Khalik, 2024). The National Environment Agency (NEA) urges people living in dengue cluster areas to take immediate action to suppress the Aedes mosquito population and help break disease transmission. In 2023, nearly 10,000 cases were reported, down from 32,000 in 2022. Experts suggest recent storms could lead to a drop in cases. [[Full article](#)]

Malaria

- **Cambodia** has reported 1,384 malaria cases in 2023, a 66% decrease from the previous year, marking significant progress in the disease's fight (Online T.S, 2024). No deaths were reported, and the country has achieved a milestone in eliminating malaria deaths since 2018, with diagnostic tests and treatments being highly effective. [[Full article](#)]

Zika

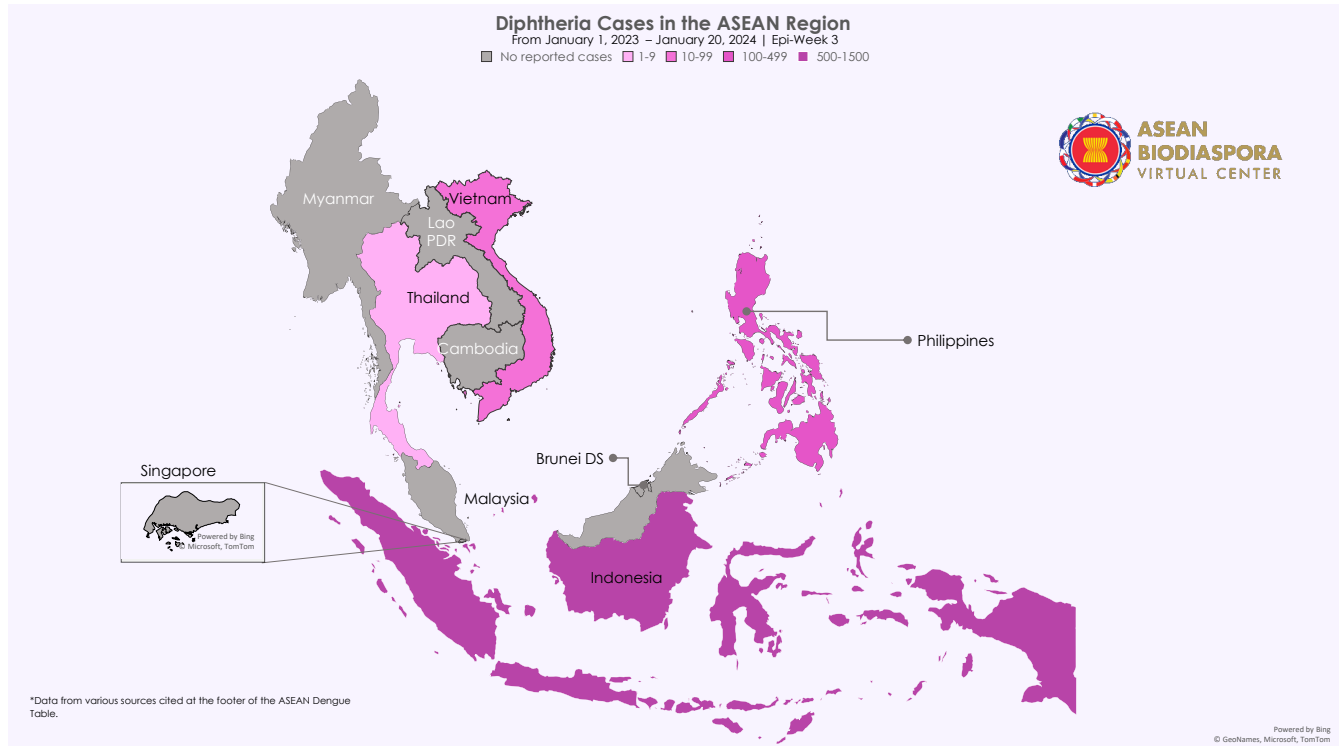
- **Thailand:** Public health authorities are preparing for a potential Zika virus outbreak in Nakhon Ratchasima province, following 19 reported cases in the lower Northeast district (Pattaya Mail, 2024). The virus, transmitted by mosquitoes, has affected 758 individuals across 36 provinces, with Chanthaburi, Phetchabun, and Trat experiencing the highest number of infections. Symptoms include rashes, fever, headaches, and joint and muscle pains. Pregnant women and those planning pregnancy should seek medical attention. [[Full article](#)]

Public health authorities are preparing for a potential Zika virus outbreak after 19 cases were reported in the lower Northeast region between January 1 and 3 (VNA, 2024). The virus has affected at least 758 individuals across 36 provinces, with Chanthaburi, Phetchabun, and Trat experiencing the highest number of infections. [[Full article](#)]

VACCINE-PREVENTABLE DISEASES

Diphtheria Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



Diphtheria cases in the ASEAN region

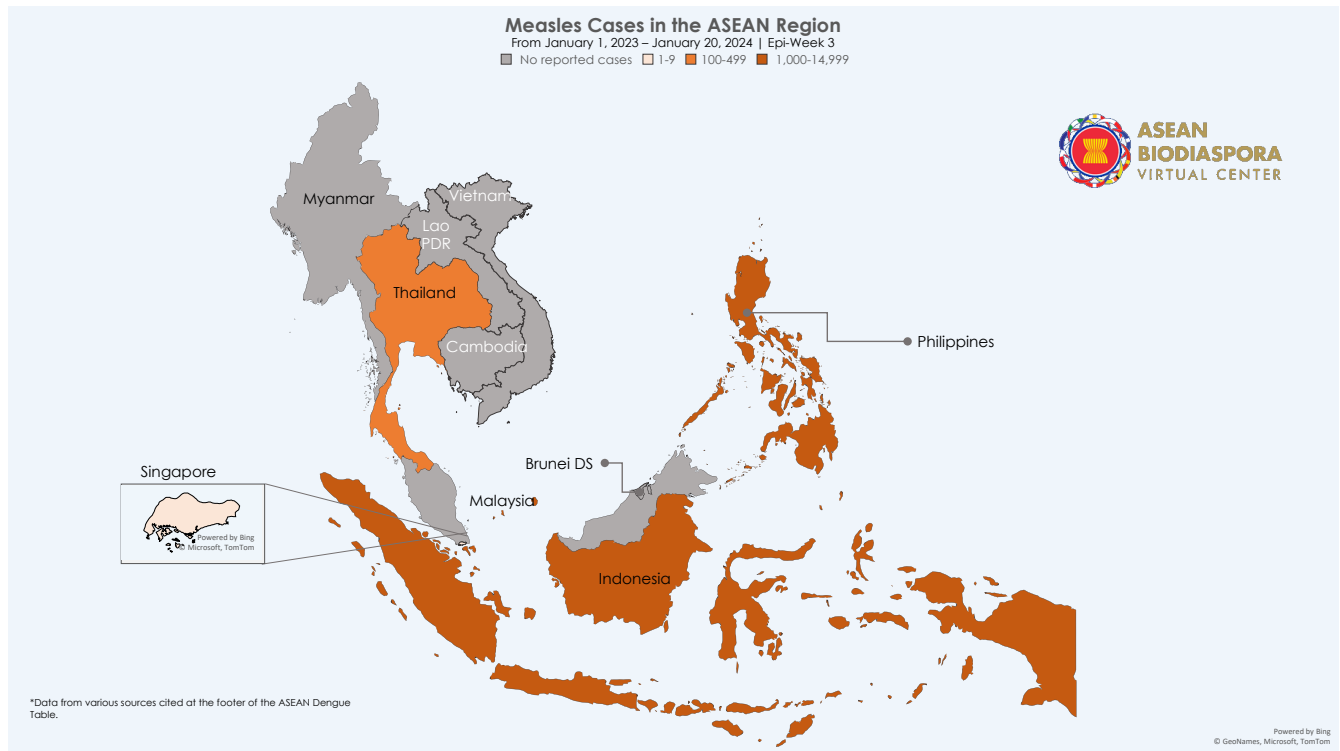
Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 52 '23	905	0	56	6.19%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 48 '23	198	0	50	25.25%
Singapore ³	-	0	0	0	0.00%
Thailand ⁴	Week 52 '23	6	0	0	0.00%
Vietnam ⁵	Week 38 '23	41	0	3	7.32%
Total		1,150	0	109	9.48%

1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed January 22, 2024 "Statistics," <https://doh.gov.ph/statistics>.
3. Ministry of Health Singapore, accessed January 22, 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 January 22, 2024, <http://doe.moph.go.th/surdata/index.php>
5. BlueDot Developer Portal, accessed January 22, 2024, <https://developer-portal.bluedot.global/>

- The ASEAN region reported **NO** new diphtheria cases since the previous report. The region reported **1,150** total cases and **109** total deaths in 2023 with **9.48%** CFR.

Measles Cases in the ASEAN Region

From January 1, 2023 to January 20, 2024 (Epi-Week 3)



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 49	9,120	0	11	0.12%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 48	2,576	0	16	0.62%
Singapore ³	Week 49	7	0	-	0.00%
Thailand ⁴	Week 50	352	0	0	0.00%
Vietnam	-	-	-	-	-
Total		12,056	0	27	0.22%

1. Ministry of Health, Republic of Indonesia
2. Department of Health Website, accessed January 22, 2024 "Statistics," <https://doh.gov.ph/statistics>.
3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed January 22, 2024, <http://doe.moph.go.th/surdata/index.php>
4. Ministry of Health Singapore, accessed January 22, 2024, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

- The **ASEAN** region reported **NO** new measles cases since the previous report. The region reported **12,056** total cases and **27** total deaths with **0.22%** CFR.

Media Monitoring for Vaccine-Preventable Diseases

Epidemiological Week 3 | January 14 – 20, 2024

Global Situation for Vaccine-Preventable Diseases

Measles

- **Australia:** New South Wales Health Office has confirmed a measles case in Sydney, involving a nine-month-old infant who returned from Asia due to an outbreak in Pakistan and India (Health N, 2024). The infant was exposed to the case at Emirates flight EK416, Sydney Airport Terminal 1-, and Five-Star Coffee and Nuts in Lakemba. Symptoms include fever, sore eyes, a cough, and a red, blotchy rash. People should be alert for the infection. [\[Full article\]](#)
- **Kazakhstan:** The Pavlodar region has recorded 750 measles cases since last year, with 74% of cases being children under 14 (Zinchenko, 2024). Most sick people are not vaccinated, with only 15.7% being vaccinated. Over 300 people were not vaccinated due to parental refusal, 71 children were unvaccinated due to medical reasons, and 100 children have not reached the age for vaccination. An additional immunization campaign began in November, resulting in 26.4 thousand vaccinated individuals. [\[Full article\]](#)
- The **United States (US):** A case of measles was confirmed in an unvaccinated resident in the Atlanta area of Georgia, who was exposed to the virus while traveling (Herald, 2024). The Department of Public Health is working to identify anyone who may have had contact with the individual. Measles is highly contagious and can stay in the air or on surfaces for up to two hours after an infected person leaves the room. The MMR vaccine, recommended by the Center for Diseases Prevention and Control (CDC), can prevent measles and rubella. The last reported case in Georgia was in 2020. [\[Full article\]](#)

Pertussis

- **Canada:** A case of whooping cough has been confirmed at a Fort St. John school, with Northern Health advising parents to limit exposure to infants under one year of age due to their high risk of serious cases (Popove, 2024). The highly contagious infection, caused by *Bordetella pertussis*, includes coughing, sneezing, fever, sore eyes, lips, and blue tongues and nailbeds. [\[Full article\]](#)

Regional Situation for Vaccine-Preventable Diseases

Measles

- **Malaysia:** Sabah Health Department is now providing targeted immunization to children affected by a measles outbreak, as over 80% of those infected had not been vaccinated (Online T.S, 2024). The outbreak has affected 52 cases, with 65% involving foreigners and 46% of children aged seven to 17 infected. Most cases have recovered, with only one hospital case admitted for further treatment. [\[Full article\]](#)

Media Monitoring for Other Diseases

Epidemiological Week 3 | January 14 – 20, 2024

Tuberculosis

- **Canada:** In Northern Quebec, tuberculosis (TB) cases have surged, with 81 reported cases in 2023, a significant increase from 58 in July (Khandelwal, 2024). The increase is partly due to augmented community screening clinics since the summer, which resumed in 2022. The health board emphasizes the importance of early detection and treatment for all communities, as TB is treatable with medication and the Bacillus Calmette-Guèrin (BCG) vaccine. Residents are encouraged to participate in screenings and campaigns to prevent the spread of the disease. [\[Full article\]](#)

References

- Abdullah (2024) Dengue patients under treatment are increasing again in Barisal , Dengue patients under treatment are increasing again in Barisal. Available at: <https://www.bd-pratidin.com/dengue-update/2024/01/18/959290> (Accessed: 19 January 2024).
- Adelaide (2024) COVID-19 update 19 January 2024, SA Health. Available at: <https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/ab+out+us/news+and+media/all+media+releases/covid-19+update+19+january+2024> (Accessed: 19 January 2024).
- Akurat. Available at: <https://kaltim.akurat.co/news/1343772887/update-covid-19-kaltim-16-januari-2024-pasien-positif-dan-semuh-bertambah-masyarakat-diminta-waspada> (Accessed: 17 January 2024).
- Aritonang, T.A. and Ridwan, T. (2024) RSUD Hulu Sungai Tengah Tangani 133 Pasien DBD, ANTARA News Kalimantan Selatan. Available at: <https://kalsel.antaranews.com/berita/402219/rsud-hulu-sungai-tengah-tangani-133-pasien-dbd> (Accessed: 19 January 2024).
- Aubrey, S. (2024) Dr Sim: Four dengue deaths in Sarawak last year despite third lowest cases nationwide, Borneo Post Online. Available at: <https://www.theborneopost.com/2024/01/16/dr-sim-four-dengue-deaths-in-sarawak-last-year-despite-third-lowest-cases-nationwide/> (Accessed: 16 January 2024).
- Available at: <https://www.bd-pratidin.com/dengue-update/2024/01/16/958679> (Accessed: 17 January 2024).
- Dinamalar (2024) Dengue fever: 922 people affected, Dinamalar. Available at: https://www.dinamalar.com/news_detail.asp?id=3529286 (Accessed: 19 January 2024). Dubas, D. and Williams, K. (2024) UK covid rates mapped in every region of England - check full list for your area, The Mirror. Available at: <https://www.mirror.co.uk/news/health/uk-covid-rates-mapped-every-31915145> (Accessed: 19 January 2024).
- Giöi, H.M. (2024) Ministry warns of Monkeypox Outbreak, DTiNews. Available at: <https://dtinews.dantri.com.vn/en/news/017/87212/ministry-warns-of-monkeypox-outbreak.html> (Accessed: 16 January 2024).
- Halim, A. (2024) Satu Kasus Meninggal di Awal tahun, Radar Tarakan. Available at: <https://radartarakan.jawapos.com/nasional/17/01/2024/satu-kasus-meninggal-di-awal-tahun/> (Accessed: 17 January 2024).
- Herald, T. (2024) DPH confirms measles case in Metro Atlanta, Times. Available at: https://www.times-herald.com/news/dph-confirms-measles-case-in-metro-atlanta/article_760bc74c-b62d-11ee-88c1-1fc73a92cb7f.html (Accessed: 19 January 2024).
- <https://www.pattayamail.com/thailandnews/zika-virus-cases-rise-in-northeast-thailand-450128> (Accessed: 17 January 2024).
- IRK.ru (2024) In the Irkutsk region, 263 people became infected with covid-19 in a week, Новости Иркутска: экономика, спорт, медицина, культура, происшествия. Available at: <https://www.irk.ru/news/20240116/covid/> (Accessed: 17 January 2024).
- Irwan, A.F. (2024) Lagi, Satu Warga Digigit Anjing rabies di Pupuan Tabanan, detikbali. Available at: <https://www.detik.com/bali/berita/d-7145190/lagi-satu-warga-digigit-anjing-rabies-di-pupuan-tabanan> (Accessed: 17 January 2024).
- Khandelwal, S. (2024) Tuberculosis cases surge in Nunavik amid increased screenings, BNN Breaking. Available at: <https://bnnbreaking.com/world/canada/tuberculosis-cases-surge-in-nunavik-amid-increased-screenings/> (Accessed: 17 January 2024).
- National, T. (2024) Six die from malaria in Gulf Village, Six die from malaria in Gulf village – TheNational. Available at: <https://www.thenational.com.pg/six-die-from-malaria-in-gulf-village/> (Accessed: 17 January 2024).
- News, H. (2024) 5892 dengue cases on 15 days, Hiru News. Available at: <https://www.hirunews.lk/359609/%E0%B6%AF%E0%B7%92%E0%B6%B1-15%E0%B6%A7-%E0%B6%A9%E0%B7%99%E0%B6%82%E0%B6%9C%E0%B7%94-%E0%B6%BB%E0%B7%9D%E0%B6%9C%E0%B7%93%E0%B6%B1%E0%B7%8A-5892%E0%B6%9A%E0%B7%8A> (Accessed: 19 January 2024).
- Online, T.S. (2024) Sabah targets immunisation amid measles outbreak, The Star. Available at: <https://www.thestar.com.my/news/nation/2024/01/20/sabah-targets-immunisation-amid-measles-outbreak> (Accessed: 22 January 2024).
- Online, T.S. (2024) Sharp drop last year in malaria cases, The Star. Available at: <https://www.thestar.com.my/aseanplus/aseanplus-news/2024/01/14/sharp-drop-last-year-in-malaria-cases> (Accessed: 15 January 2024).
- Pattaya Mail (2024) Zika virus cases rise in northeast Thailand, Pattaya Mail. Available at:
- Pillai, G.S. (2024) Emergence of leptospirosis in Rajasthan: First patient detected in Bhilwara, The Mooknayak English - Voice Of The Voiceless. Available at: <https://en.themooknayak.com/health/emergence-of-leptospirosis-in-rajasthan-first-patient-detected-in-bhilwara> (Accessed: 22 January 2024).
- Popove, M. (2024) Case of whooping cough confirmed at a school in Fort St. John, C.JDC. Available at: <https://www.cjdcvtv.com/case-of-whooping-cough-confirmed-at-a-school-in-fort-st-john-1.6732735> (Accessed: 19 January 2024).
- Pratidin, B. (2024) One person died of dengue in 24 hours, 30 in hospital, Bangladesh every day.
- Rasad, Y.M.N. (2024) Update covid-19 kaltim 16 januari 2024: Pasien Positif Dan Sembuh ..., Kaltim
- Reaseyeam38 (2024) Top news: Cambodia reports 1 new Covid19 case; 3 recovered; 0 died, FRESH NEWS. Available at: <https://en.freshnewsasia.com/index.php/en/localnews/44973-2024-01-20-05-14-08.html> (Accessed: 22 January 2024).
- RNZ News (2024) Covid-19 update: 8040 new cases, 324 people in Hospital, RNZ. Available at: <https://www.rnz.co.nz/news/national/506753/covid-19-update-8040-new-cases-324-people-in-hospital> (Accessed: 15 January 2024).
- Rose, S. (2024) Jn.1 covid-19 variant detected in Thailand: 40 cases and counting, Thaiger. Available at:



<https://thethaiger.com/news/national/jn-1-covid-19-variant-detected-in-thailand-40-cases-and-counting> (Accessed: 17 January 2024).

Salma Khalik (2024) Dengue cases highest in over a year in Singapore, but recent storms may bring relief for Island, The Star. Available at:

<https://www.thestar.com.my/aseanplus/aseanplus-news/2024/01/20/dengue-cases-highest-in-over-a-year-in-singapore-but-recent-storms-may-bring-relief-for-island> (Accessed: 22 January 2024).

Shabbir, S. (2024) Pakistan confirms 15 cases of JN.1 Coronavirus strain, Arab News PK. Available at: <https://www.arabnews.pk/node/2442406/pakistan> (Accessed: 17 January 2024).

Shaw, W. (2024) Centre Records 1200 cases, one death for Leptos, The Fiji Times. Available at: <https://www.fijitimes.com.fj/centre-records-1200-cases-one-death-for-leptos/> (Accessed: 19 January 2024).

SUARANTB (2024) Waspada rabies, Gigitan Anjing di Dompu Capai 29 Kasus di Awal 2024, SuaraNTB. Available at: <https://www.suarantb.com/2024/01/18/waspada-rabies-gigitan-anjing-di-dompu-capai-29-kasus-di-awal-2024/> (Accessed: 19 January 2024).

TIMESOFINDIA (2024) Covid cases in India: Country reports 180 new cases, 3 deaths in last 24 Hours: India News - Times of India, The Times of India. Available at: <https://timesofindia.indiatimes.com/india/covid-cases-in-india-country-reports-180-new-cases-3-deaths-in-last-24-hours/articleshow/106889460.cms?from=mdr> (Accessed: 17 January 2024).

Tribune Desk (2024) Bangladesh logs one more Covid death in 24hrs - Dhakatribune.com, Bangladesh logs one more Covid death in 24hrs. Available at: <https://www.dhakatribune.com/bangladesh/health/336735/bangladesh-logs-one-more-covid-death-in-24hrs> (Accessed: 15 January 2024).

Wilk, N. (2024) Jn.1, a new COVID variant, becomes dominant in Oregon, The Lund Report. Available at: <https://www.thelundreport.org/content/jn1-new-covid-variant-becomes-dominant-oregon> (Accessed: 17 January 2024).

Xinhua (2024) Over 5,000 dengue cases reported in Sri Lanka in January, Xinhua. Edited by Huaxia. Available at: <https://english.news.cn/20240116/da0443d7edbb4dbba5d97e69bb26529e/c.html> (Accessed: 16 January 2024).

Zinchenko, N. (2024) More than 140 people have fallen ill with measles in the Pavlodar region since the beginning of the year, Казинформ. Available at: <https://www.inform.kz/ru/bolshe-140-chelovek-zaboleli-koryu-v-pavlodarskoy-oblasti-snachala-goda-d570db> (Accessed: 19 January 2024).

Zuhri, A.E. (2024) Waspada Lonjakan DBD! 30 Pasien DBD Kini Tengah Dirawat di RSUD Jombang, Mayoritas Anak-anak dan Remaja, Radar Jombang. Available at: <https://radarjombang.jawapos.com/politik-pemerintahan/663729622/waspada-lonjakan-dbd-30-pasien-dbd-kini-tengah-dirawat-di-rsud-jombang-mayoritas-anak-anak-dan-remaja?page=2> (Accessed: 15 January 2024).



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