

ASEAN BIODIASPORA VIRTUAL CENTER

Morbidity and Mortality Weekly Report

Infectious and Emerging Diseases

ASEAN REGION

December 6, 2023 | MMWR 2023-48
Epidemiological Week 48

With Support by:





Editorial

CONSULTANTS

ASEAN SECRETARIAT

Assistant Director and Head of Health Division
Human Development Directorate

Ferdinal Fernando, MDM, MD

Programme Coordinator for Mitigation for Biological Threats (MBT) Phase 2

Michael Glen, MSSc

EDITORIAL TEAM

Editor-in-Chief

Abdurrahman, MPH

Managing Editor

Gian Rei Mangcucang, MIH, EMT-B, RN

Associate Editors

Aldilas Achmad Nursetyo, MD, MS

Abdul Haris Ibrahim, MHI

Copy Editor

Nur Ismi Hamid

Interns

Nailul Rizka Novianti

Divva Kaamila

Natasha Alicia Putri

PUBLISHER

ASEAN Biodiaspora Virtual Center

EDITORIAL ADDRESS

ASEAN Biodiaspora Virtual Center, 2/F Ministry of Health, Jl. H.R. Rasuna Said, Blok X5, Kav. 4-9, Jakarta Selatan, Jakarta, Indonesia

E-mail: support@biodiaspora.org

Weekly Issue





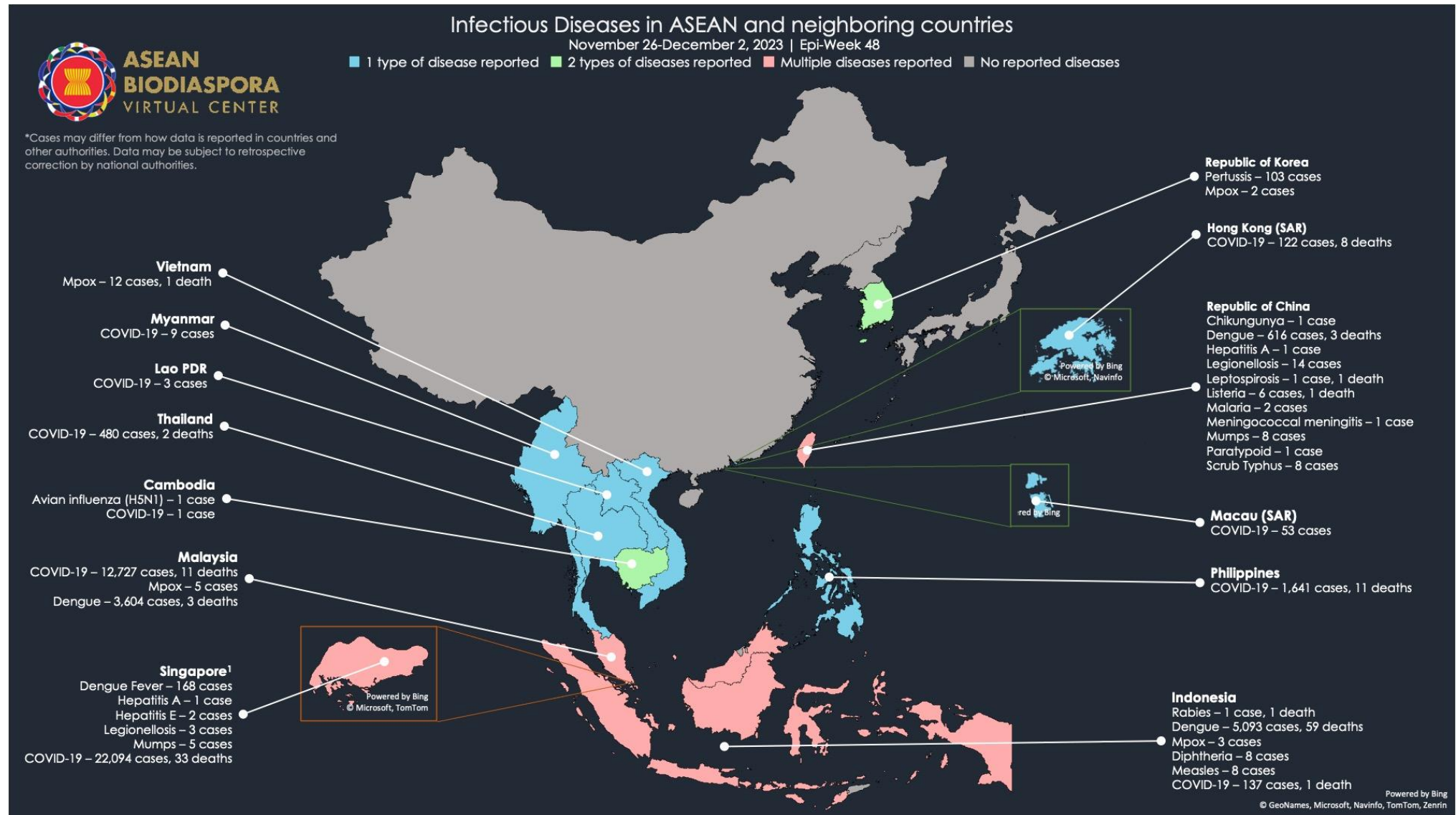
Table of Contents

Infectious Diseases	1	Vector-Borne Diseases	18
Reported Infectious Diseases in the ASEAN Region and Neighboring Countries	1	Dengue	19
Infectious Diseases in the ASEAN Region in 2023 – Summary Table 1 of 2	2	Dengue Cases in the ASEAN Region Map	19
Infectious Diseases in the ASEAN Region in 2023 – Summary Table 2 of 2	3	Dengue Cases in the ASEAN Region Table	19
Emerging Diseases	4	Malaria	20
COVID-19	5	Malaria Cases in the ASEAN Region Map	20
COVID-19 Cases and Deaths	5	Malaria Cases in the ASEAN Region Table	20
COVID-19 Cases in the ASEAN Region Table	5	Chikungunya	21
Epidemic Curve Among the ASEAN Member States	6	Chikungunya Cases in the ASEAN Region Map	21
ASEAN Weekly New Cases and Deaths	7	Chikungunya Cases in the ASEAN Region Table ...	21
COVID-19 Variants Frequencies Among the ASEAN Member States	8	Event Updates for Vector-borne Diseases	22
COVID-19 Variants Frequencies in the ASEAN Region	9	Global Updates	22
ASEAN COVID-19 Vaccination Status	10	Vaccine-Preventable Diseases	24
Mpox	11	Diphtheria	25
Mpox Cases Reported in the ASEAN Region	11	Diphtheria Cases in the ASEAN Region Map	25
Highlights and Situation Overview	12	Diphtheria Cases in the ASEAN Region Table	25
Mpox Cases in the ASEAN Region Table	12	Measles	26
Top 5 Countries with Most Mpox Cases Globally	12	Measles Cases in the ASEAN Region Map	26
Mpox Cases per Region	12	Measles Cases in the ASEAN Region Table	26
Event Updates for Emerging Diseases	13	Event Updates for Vaccine-Preventable Diseases	27
Global Updates	13	Global Updates	27
Regional Updates	13	Regional Updates	28
Zoonosis	15	Event Updates for Other Infectious Diseases	29
Rabies	16	Global Updates	29
Rabies Cases in the ASEAN Region Map	16	Regional Updates	29
Rabies Cases in the ASEAN Region Table	16	References	30
Event Updates for Zoonosis Diseases	17		
Global Updates	17		
Regional Updates	17		



Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 48 | November 26 – December 2, 2023



The data was taken from the BlueDot Developer Portal, accessed December 4, 2023, <https://developer-portal.bluedot.global/>.

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



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

Epidemiological Week 48 | From January 1 to December 2, 2023

Infectious Diseases	COVID-19			Mpox			Rabies			Dengue		
	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR
Brunei Darussalam	52,479	77	0.15%	-	-	-	-	-	-	-	-	-
Cambodia	518	0	0.00%	-	-	-	-	-	-	26,912	39	0.14%
Indonesia	102,545	1,309	1.28%	62	0	0.00%	321	56	17.45%	83,302	633	0.76%
Lao PDR	1,315	87	6.62%	1	0	0.00%	-	-	-	30,292	19	0.06%
Malaysia	127,959	345	0.27%	9	0	0.00%	21	19	90.48%	111,712	83	0.07%
Myanmar	7,802	5	0.06%	-	-	-	-	-	-	6,685	30	0.45%
Philippines	126,549	1,369	1.08%	1	0	0.00%	327	327	100.00%	167,355	575	0.34%
Singapore	546,037	222	0.04%	28	0	0.00%	-	-	-	8,899	0	0.00%
Thailand	40,678	822	2.02%	565	1	0.18%	5	5	100.00%	139,719	151	0.11%
Vietnam	100,747	20	0.02%	90	2	2.22%	64	64	100.00%	135,879	35	0.03%
ASEAN Region	1,106,629	4,256	0.38%	756	3	0.407%	738	471	63.82%	710,755	1,565	0.22%



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

Epidemiological Week 48 | From January 1 to December 2, 2023

Infectious Diseases	Malaria			Chikungunya			Measles			Diphtheria		
	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR	Cumulative Cases	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	1,899	0	0.00%	462	0	0.00%	8,810	11	0.12%	745	45	6.04%
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1,116	0	0.00%	185	0	0.00%	-	-	-	-	-	-
Myanmar	4,510	0	0.00%	-	-	-	-	-	-	-	-	-
Philippines	31	0	0.00%	2,691	0	0.00%	2,024	6	0.30%	162	38	23.46%
Singapore	20	0	0.00%	13	0	0.00%	6	0	0.00%	0	0	0.00%
Thailand	4,815	4	0.08%	1,271	0	0.00%	320	0	0.00%	5	0	0.00%
Vietnam	349	0	0.00%	-	-	-	-	-	-	41	3	7.32%
ASEAN Region	12,740	4	0.03%	4,622	0	0.00%	11,160	17	0.15%	953	86	9.02%

Dominique Faget/AFP/Getty Images

Emerging Diseases



**ASEAN
BIODIASPORA**
VIRTUAL CENTER



COVID-19 Cases and Deaths

- As of 02 December 2023 (5PM, GMT+7), there were **698,724,336** confirmed cases **worldwide**, including **6,942,009** deaths. Globally, Case Fatality Rate (CFR) was **0.99%**.
- 36,516,732** total confirmed cases of COVID-19 have been reported in the **ASEAN Region**.
- The CFR in the **ASEAN** Region was **1.01%**.

COVID-19 cases in the ASEAN region

ASEAN MEMBER STATES	FIRST CONFIRMED CASES	LATEST REPORT ON CONFIRMED	CUMULATIVE CASES	CUMULATIVE CASES IN 2023	NEW CASES SINCE LAST REPORT	CUMULATIVE DEATHS	NEW DEATHS SINCE LAST REPORT	CUMULATIVE CASES/ 100,000	CUMULATIVE WITH AT LEAST ONE DOSE	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTED	FULLY VACCINATED PER 100
Brunei Darussalam	10-Mar-20	13-Nov-23	313,919	52,479	0	225	-	70,475	451,149	446,714	340,466	100.29
Cambodia	27-Jan-20	2-Dec-23	138,956	518	2	3,056	-	809	15,311,319	14,688,007	10,762,713	85.55
Indonesia	02-Mar-20	24-Nov-23	6,814,248	102,545	137	161,921	1	2,441	203,878,498	174,965,692	69,306,543	74.56
Lao PDR	24-Mar-20	1-Dec-23	218,901	1,315	3	758	-	2,926	6,324,678	5,691,962	2,451,034	76.09
Malaysia	25-Jan-20	1-Dec-23	5,147,359	127,959	12,727	37,202	11	15,513	28,137,306	27,550,493	16,346,625	84.40
Myanmar	23-Mar-20	28-Nov-23	641,377	7,802	9	19,495	-	1,161	41,551,927	35,937,796	15,987,381	65.07
Philippines	30-Jan-20	1-Dec-23	4,125,561	126,549	1,641	66,766	11	3,667	82,684,774	78,443,972	23,811,248	69.72
Singapore	23-Jan-20	2-Dec-23	2,732,711	546,037	22,094	1,933	33	45,978	5,284,679	5,248,693	4,769,158	89.41
Thailand	13-Jan-20	27-Nov-23	4,759,586	40,678	480	34,491	2	6,792	57,678,095	54,190,737	27,409,289	77.33
Vietnam	23-Jan-20	24-Oct-23	11,624,114	100,747	0	43,206	-	11,747	90,272,853	85,961,564	57,975,220	86.87
ASEAN REGION			36,516,732	1,106,629	37,093	369,053	58	5,369	531,575,278	483,125,630	229,159,677	71.04

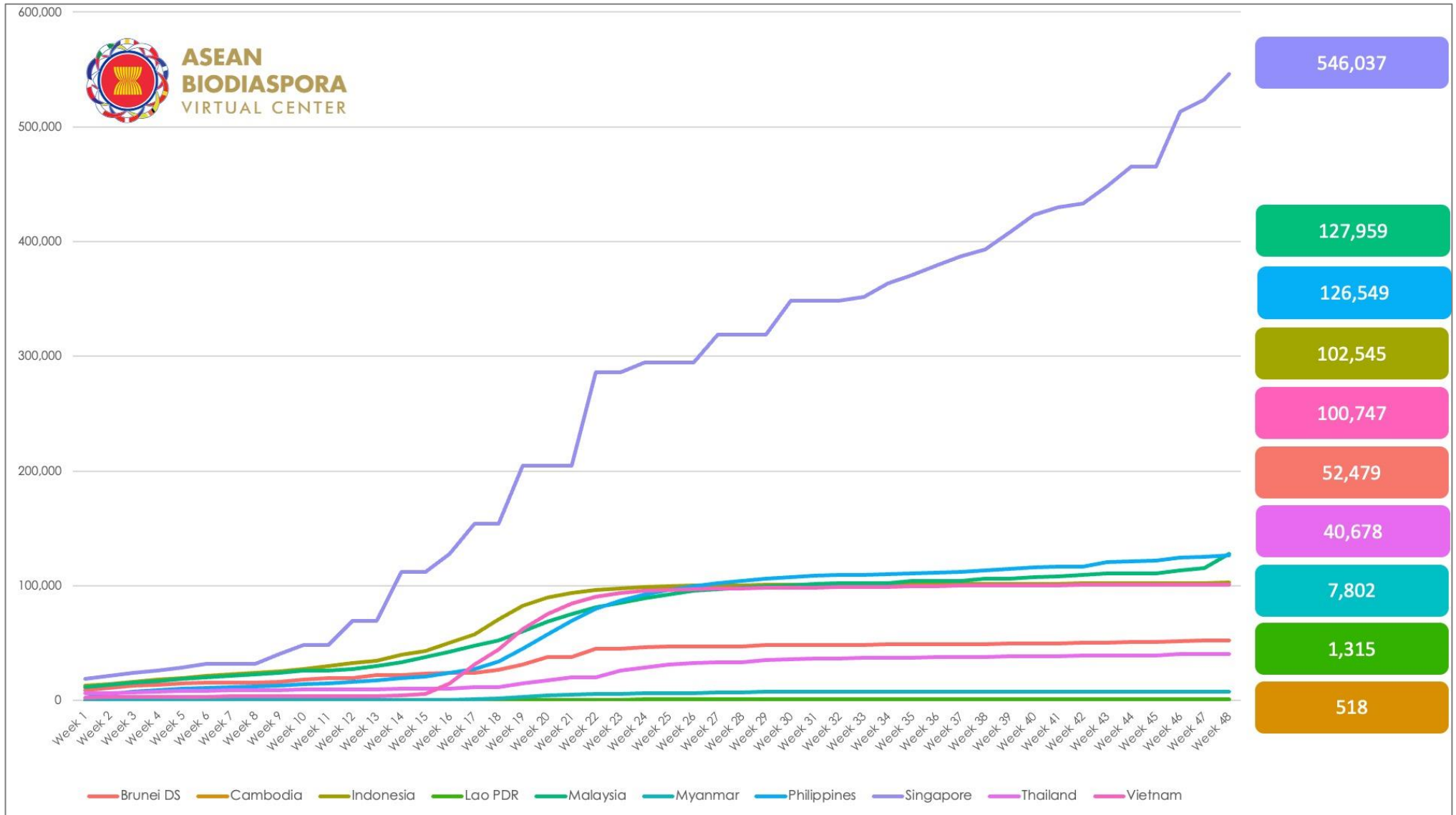
REGIONS	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
AFRICA	12,845,325	860	258,847	4
AMERICAS	198,810,192	152,458	3,019,540	3137
ASEAN	36,516,732	37,093	369,053	58
ASIA & OCEANIA	199,042,725	114,804	1,214,033	210
EUROPE	251,509,362	205,365	2,080,536	5,047
GLOBAL TOTAL	698,724,336	510,580	6,942,009	8,456

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



COVID-19 Epidemic Curve Among the ASEAN Member States

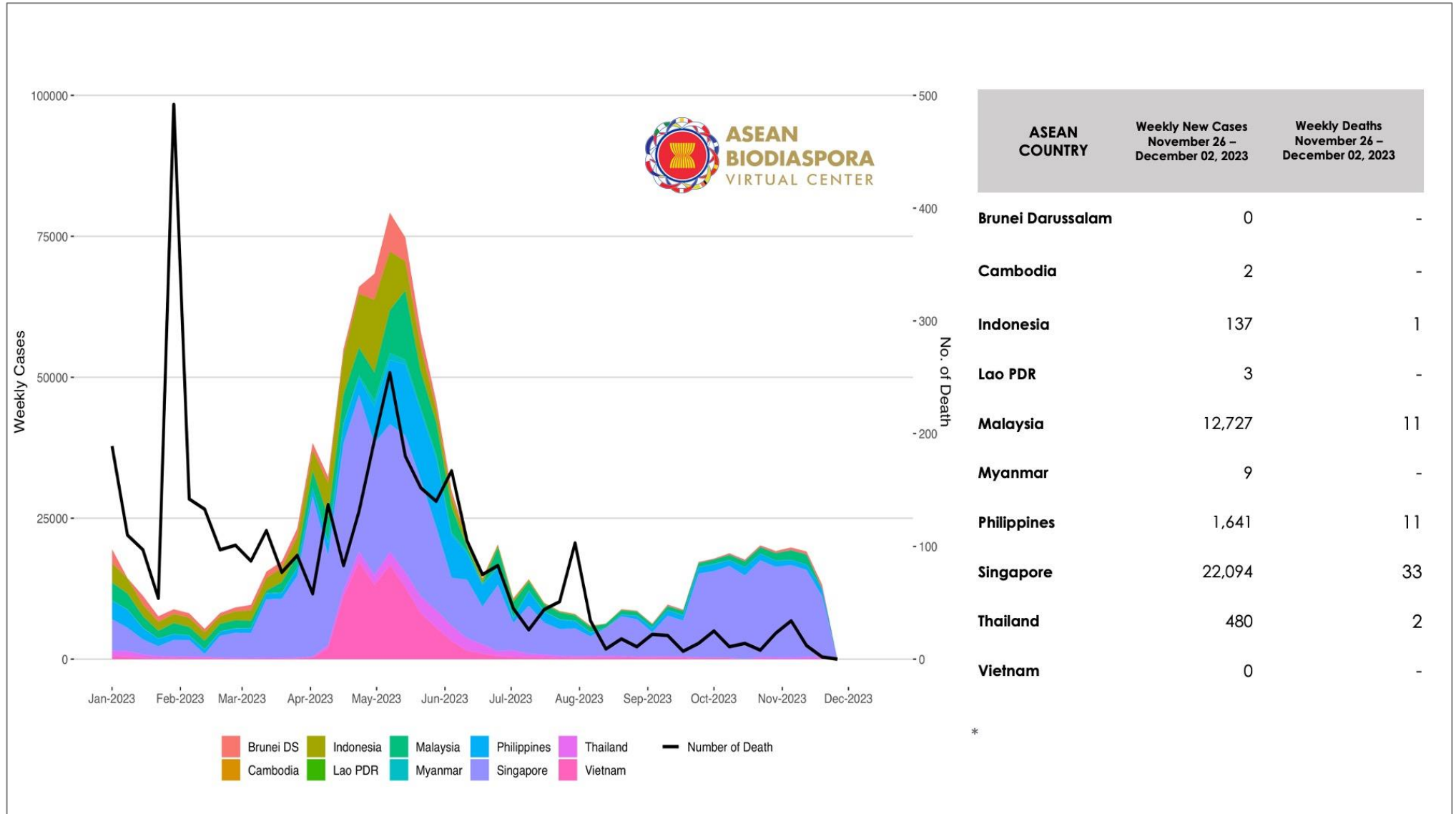
From January 1 to December 2, 2023





ASEAN Weekly COVID-19 New Cases and Deaths

From January 1, 2023 to December 2, 2023

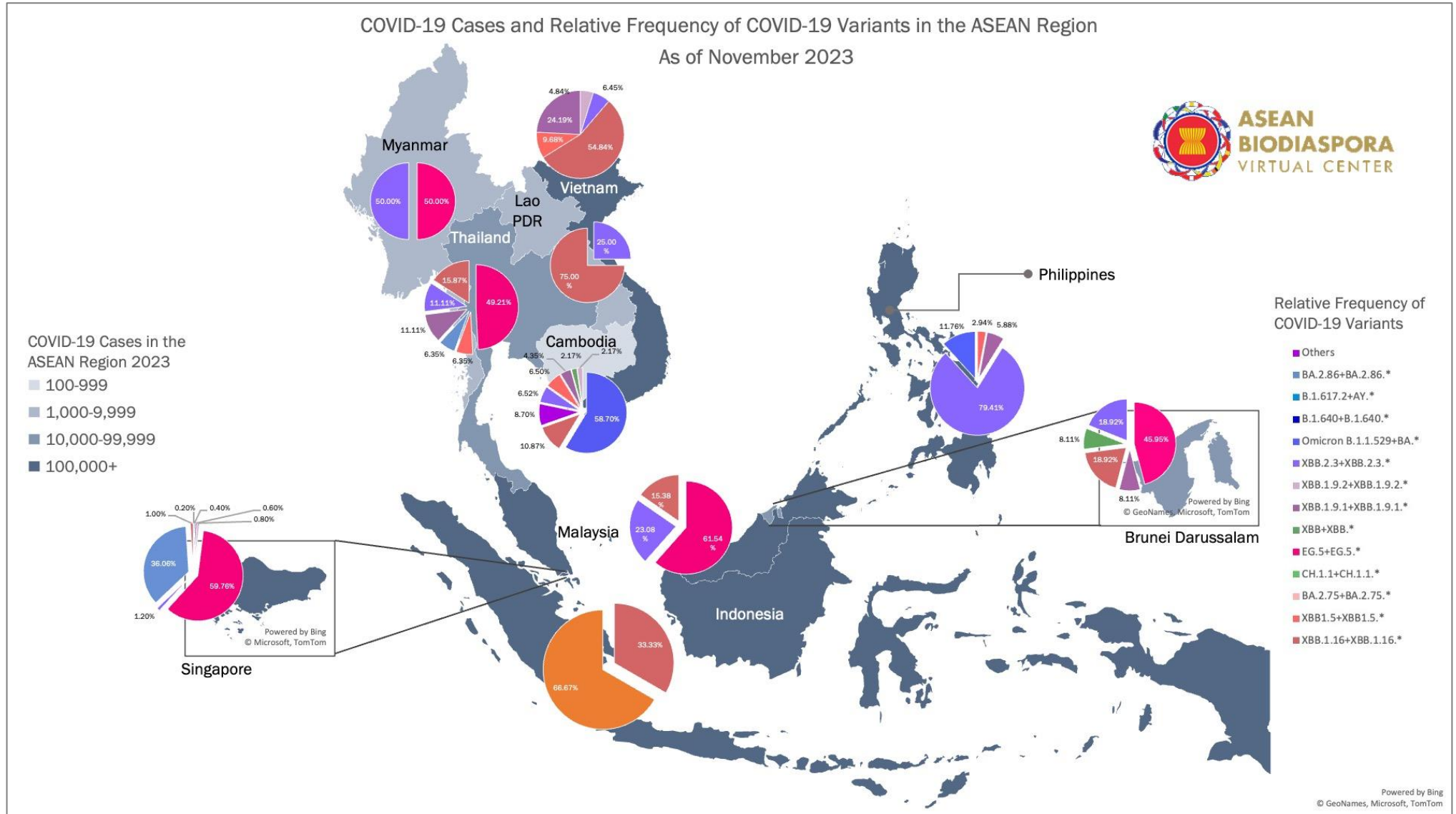


**Data References: [Singapore Government](#), [Worldometer](#), and the [WHO](#)



COVID-19 Variants Frequencies Among the ASEAN Member States

As of November 2023

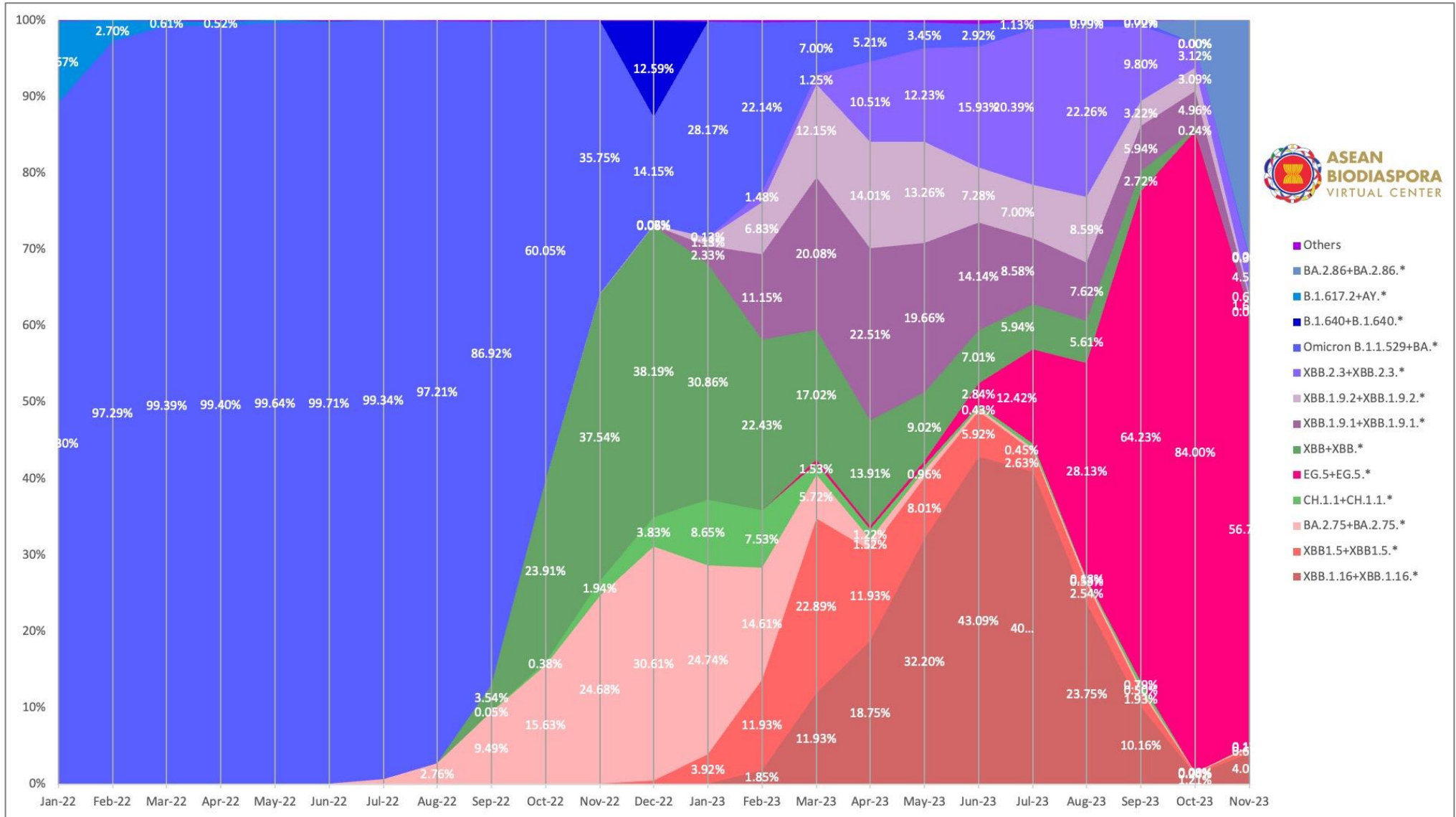


GISAID. "hCoV-19 Variants Dashboard," accessed December 5, 2023. <https://gisaid.org/hcov-19-variants-dashboard/>.



COVID-19 Variants Frequencies in the ASEAN Region

From January to November 2023



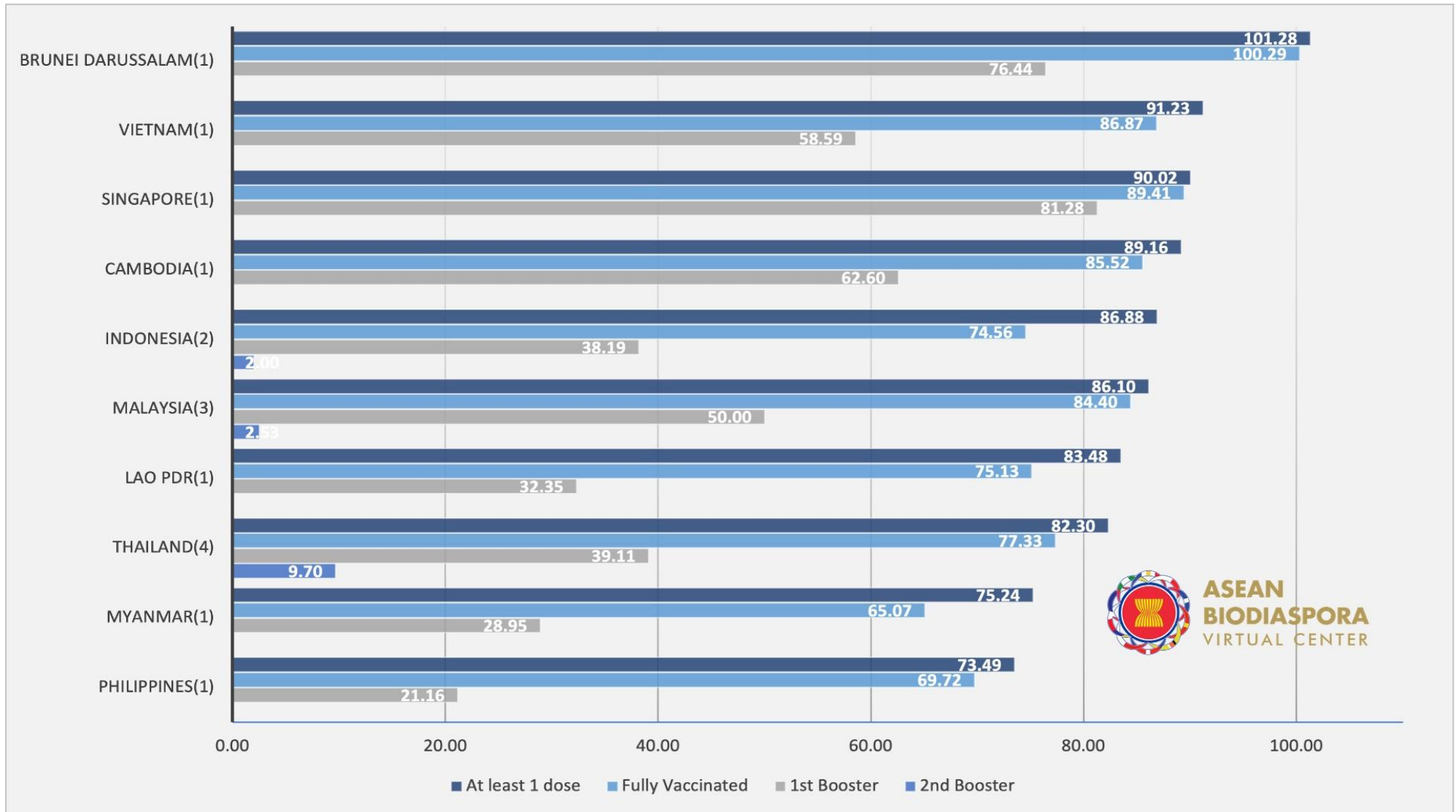
- Others
- BA.2.86+BA.2.86.*
- B.1.617.2+AY.*
- B.1.640+B.1.640.*
- Omicron B.1.1.529+BA.*
- XBB.2.3+XBB.2.3.*
- XBB.1.9.2+XBB.1.9.2.*
- XBB.1.9.1+XBB.1.9.1.*
- XBB+XBB.*
- EG.5+EG.5.*
- CH.1.1+CH.1.1.*
- BA.2.75+BA.2.75.*
- XBB1.5+XBB1.5.*
- XBB.1.16+XBB.1.16.*

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



ASEAN COVID-19 Vaccination Status

As of 02 December 2023

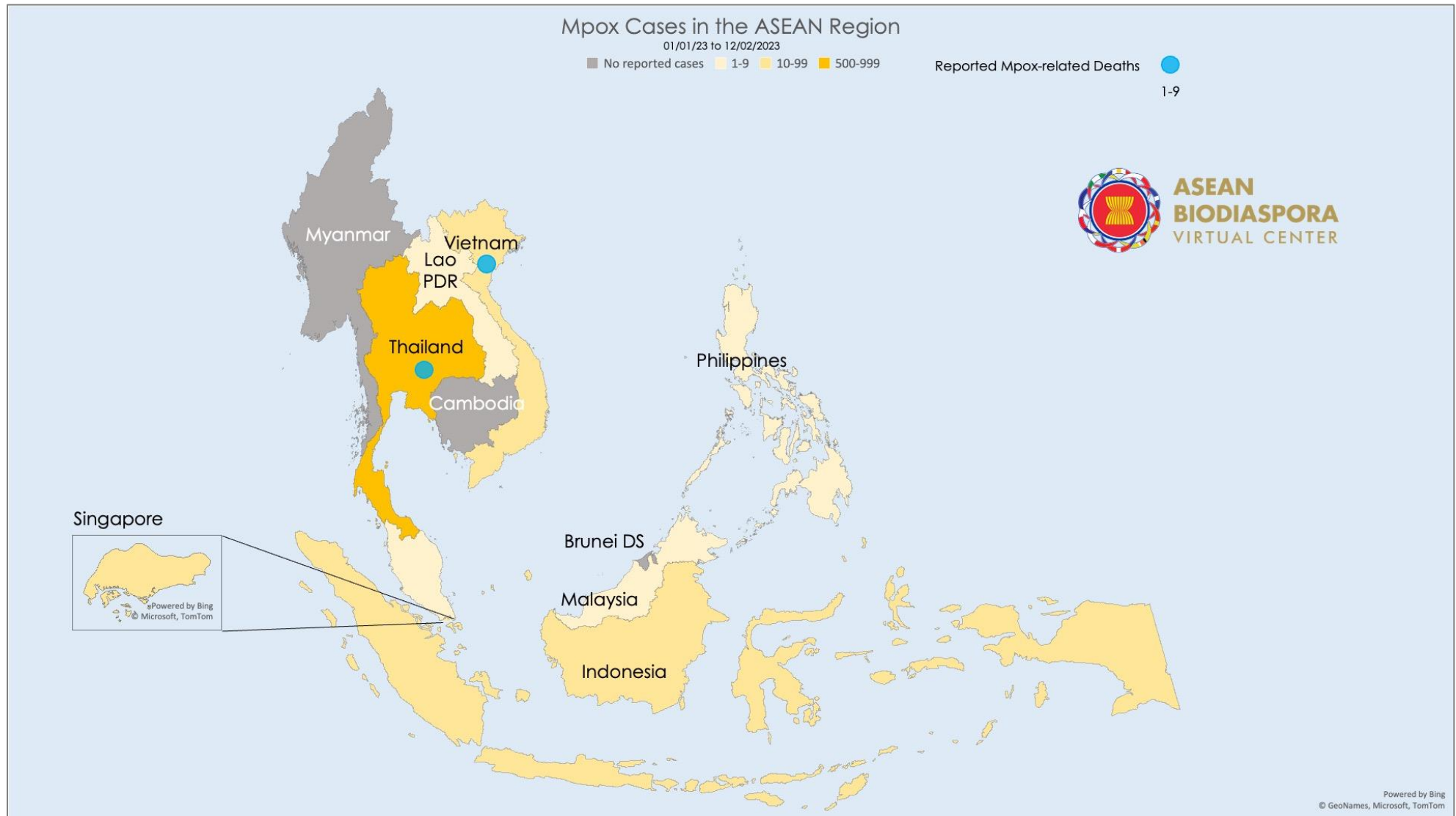


1. World Health Organization, Coronavirus (Covid-19) Data, accessed December 04, 2023 <https://covid19.who.int/data>
 2. Ministry of Health Indonesia, "Vaccine Dashboard, December 04, 2023, <https://vaksin.kemkes.go.id/#/vaccines>
 3. Ministry of Health Malaysia, Covid-19 vaccination, accessed December 04, 2023, <https://data.moh.gov.my/dashboard/covid-vaccination>
 4. Ministry of Public Health Thailand, Covid-19 Vaccination Infographic, accessed December 04, 2023, <https://dashboard-vaccine.moph.go.th/>



Mpox Cases Reported in the ASEAN Region

January 1 – December 2, 2023



1. Ministry of Health Republic of Indonesia
2. EBS Bluedof (Accessed on December 4, 2023)
3. Ministry of Health Singapore, accessed December 4, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>



Mpox: Highlights and Situation Overview

- From 01 January to 02 December 2023, there were **8,309** confirmed cases worldwide in 2023, including **97** deaths. Globally, the CFR was **1.17%**.
- **756 confirmed cases** including **two deaths** in the **ASEAN** region in 2023, with a CFR of **0.40%**.
- **7,553 confirmed cases** of mpox have been reported in **other regions** in 2023 (other than the **ASEAN** region):

Mpox cases in the ASEAN region (Jan. 1 to Dec. 2, 2023)

ASEAN Member States	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Indonesia ¹	62	3	0	0.00%
Lao PDR ²	1	-	0	0.00%
Malaysia ²	9	5	0	0.00%
Philippines ²	1	-	0	0.00%
Singapore ³	28	-	0	0.00%
Thailand ²	565	-	1	0.18%
Vietnam ⁴	90	12	2	2.22%
ASEAN Total	756	20	3	0.40%

1. Ministry of Health Republic of Indonesia
2. EBS Bluedot (Accessed on December 04, 2023)
3. Ministry of Health Singapore, accessed December 04, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>

Top 5 countries with the most mpox cases globally (Jan. 1 to Dec. 2, 2023)

Country	Cumulative Cases 2023	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
People's Republic of China ⁴	1,939	331	1	0.05%
United States of America ⁵	1,467	178	35	2.39%
Democratic Republic of Congo ⁵	610	0	2	0.33%
Thailand ⁵	565	0	1	0.18%
Brazil ⁵	456	8	2	0.44%

4. 2022-23 Mpox Outbreak: Global Trends. Geneva: World Health Organization, 2023. Available online: https://worldhealthorg.shinyapps.io/mpx_global/ (last cited: December 02, 2023).
5. Edouard Mathieu, Fiona Spooner, Saloni Dattani, Hannah Ritchie and Max Roser (2022) - "Mpox (monkeypox)". Published online at OurWorldInData.org. Retrieved from: 'https://ourworldindata.org/monkeypox' [Online Resource]

Mpox cases per region

REGIONS	CUMULATIVE CASES 2023	NEW CASES SINCE THE PREVIOUS REPORT	CUMULATIVE DEATHS 2023	CFR
AFRICA ⁵	765	0	7	0.92%
AMERICAS ⁵	3,561	183	84	2.36%
ASEAN	756	20	3	0.40%
ASIA & OCEANIA ⁵	2,537	243	1	0.04%
EUROPE ⁵	690	0	2	0.29%
TOTAL	8,309	446	97	1.17%



Event Updates for Emerging Diseases

Epidemiological Week 48 | November 26 – December 2, 2023

Global Updates for Emerging Diseases

COVID-19

- **Australia:** South Australia reported 1,802 new COVID-19 cases in the past week, with 76 people in hospital, four in ICU, and 24 new deaths notified to the Department for Health and Wellbeing (Adelaide, 2023). The total number of cases has been readjusted due to data reconfiguration. [[Full article](#)]
- **India** has recorded 88 new COVID-19 infections, 396 active cases, and 5,33,300 deaths (PTI, 2023). The country's COVID-19 case tally is 45 million, with a recovery rate of 98.81% and a CFR of 1.19%. 2.2 billion COVID-19 vaccine doses have been administered. [[Full article](#)]
- **New Zealand** has reported 6,656 new COVID-19 cases and 20 additional deaths, with 1,131 probable cases and 3,553 reinfections (RNZ, 2023). The seven-day rolling average of new cases was 951 per day. COVID-19 booster vaccinations are available for those aged over 30 and those with underlying health conditions. Otago University public health expert Michael Baker emphasized the importance of boosters. Te Whatu Ora reported 6,814 new cases and 27 deaths. [[Full article](#)]

Regional Updates for Emerging Diseases

COVID-19

- The **Philippines** recorded 1,340 new COVID-19 cases from November 28 to December 4, 2023, the highest number in 19 weeks, according to the Department of Health (DOH) (Locus, 2023). The recent week saw a 10% increase in new cases compared to the previous week, marking the fourth consecutive week of increasing cases and over 1,000 new weekly cases. The average daily case rate was 191, with 11 tagged as severe or critical cases. Healthcare utilization remains low-risk, with over 78 million individuals completing their primary doses and 23 million receiving booster shots. [[Full article](#)]
- **Singapore:** The Ministry of Health (MOH) Singapore reported a significant increase in COVID-19 cases, with an estimated 22,094 cases in the period of 19-25 November 2023 (Hardiyanto, 2023). This increase is attributed to factors such as the year-end travel season and a decline in the population's immune system. The MOH urges Singaporeans to take the COVID-19 vaccination immediately. The EG.5 virus variant and its sub-descendant, HK.3, are the dominant subvariants locally, accounting for over 70% of cases in the Lion Country. However, overall cases of respiratory diseases in Singapore, especially those affecting children, remain stable. The MOH recommends administering additional doses about a year after the last vaccine dose is injected, especially for those aged 60 and above, medically vulnerable people, and residents of aged care facilities. Free vaccines are currently available at the Joint Testing and Vaccination Center and some selected clinics. The MOH continues to monitor the global and local situation closely. [[Full article](#)]

A 13-month-old boy in Singapore died from COVID-19, marking the first pediatric case in 2023 (Vaidyanathan, 2023). The toddler, who was not vaccinated and had a history of congenital conditions, passed away on October 12. Singapore recorded no COVID-related child deaths in 2020 and 2021, but three children died last year. The risk of severe COVID-19 in young children is lower than in older adults, but severe outcomes can still occur. The country is experiencing a "second COVID-19 infection wave" this year, primarily fueled by the EG.5 and HK.3 sub-lineages of the XBB Omicron variant. [[Full article](#)]



Mpox

- Indonesia:** Two residents in West Java have been confirmed positive for mpox, and are currently undergoing self-isolation at home (Fitrati, 2023). The case was confirmed on November 23, 2023, after specimens were taken from the Jakarta Health Development Policy Agency (BKPK) Laboratory. The handling of mpox cases in Bogor City is coordinated with the West Java Provincial Health Office and the MOH. The public is advised to maintain health by implementing clean and healthy living behaviors and to report symptoms to health facilities. [\[Full article\]](#)

Mpox is a significant public health concern in Indonesia, with 62 Mpox patients currently in the country, mainly from DKI Jakarta (Pratiwi, 2023). The virus is primarily contracted from sexual contact and affects males aged 25-50. The Technical Staff of Health Transformation Communication of the Indonesian MOH confirmed that all cases had mild symptoms and were contracted from sexual contact. Currently, 495 people have been vaccinated with the first dose, and 411 have been vaccinated with the second dose. However, monitoring is still necessary to prevent the transmission of cases during celebrations or entertainment events. Collaboration with HIV programs and a tightened TB-HIV-DM collaboration is also necessary for mpox patients. All mpox patients are required to undergo HIV and STI examinations. [\[Full article\]](#)

- Malaysia** has reported nine mpox cases, with Kuala Lumpur having the highest number of cases at six (Yusry, 2023). The virus was detected in three states, with the first and second cases reported in July. The MOH is taking preventive measures to ensure the virus doesn't spread like COVID-19. These include monitoring at international entry points, requiring higher education students from countries with reported cases or endemic countries to self-monitor symptoms for 21 days, and referring travelers with rash signs to healthcare officers for further examination. Symptoms include fever, maculopapular rash, and fever. [\[Full article\]](#)

Zoonosis

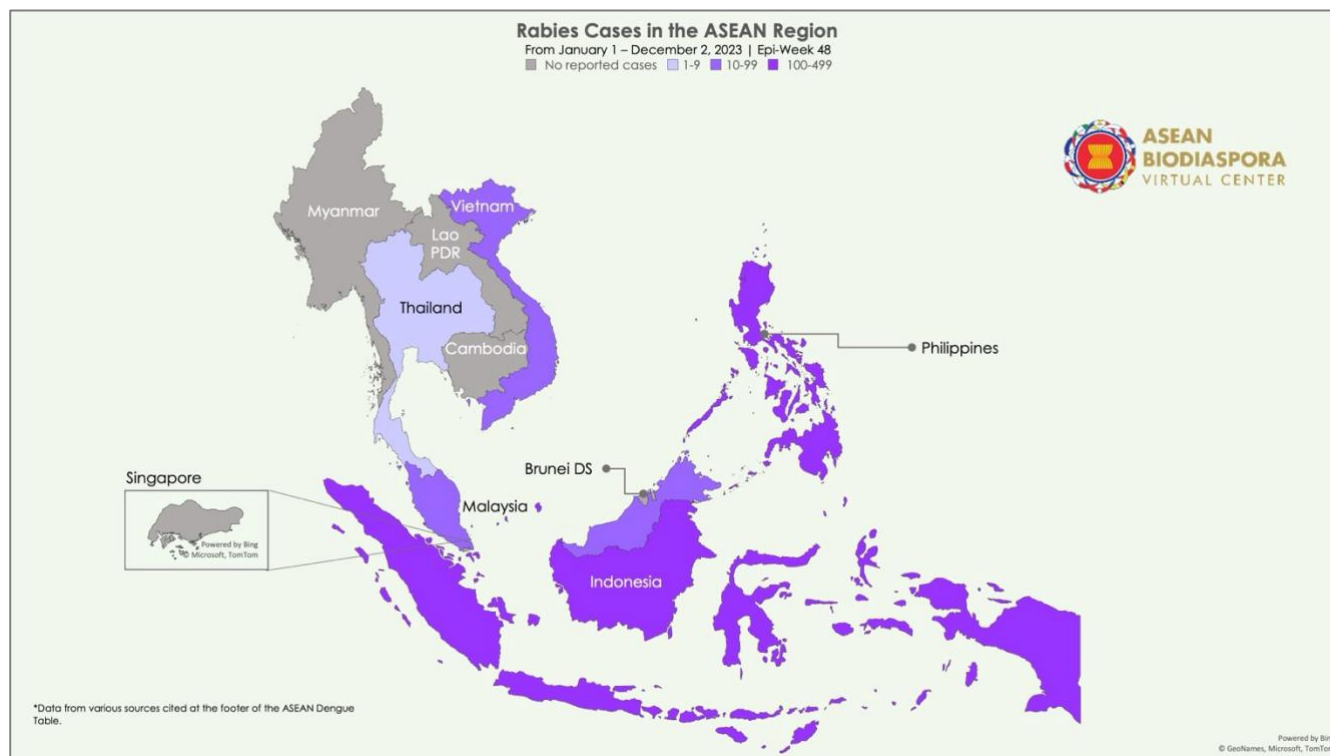


**ASEAN
BIODIASPORA**
VIRTUAL CENTER



Rabies Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



Rabies cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Reported Rabies Cases	Laboratory-Confirmed Rabies Cases	Rabies-Related Deaths
Brunei Darussalam		<i>Rabies-free Country</i>		
Cambodia	-	-	-	-
Indonesia¹	Week 48	321	21	56
Lao PDR	-	-	-	-
Malaysia¹	Week 38	21	9	19
Myanmar	-	-	-	-
Philippines²	Week 43	327	327	327
Singapore		<i>Rabies-free Country</i>		
Thailand³	Week 46	5	5	5
Vietnam¹	Week 40	64	34	64
Total		738	396	471

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

- The **ASEAN** region reported **738** rabies cases, **396** confirmed rabies cases, and **471** rabies-related deaths.



Event Updates for Zoonosis

Epidemiological Week 48 | November 26 – December 2, 2023

Global Updates for Zoonosis

Leptospirosis

- **Fiji:** The MOH is experiencing a significant rise in dengue cases, with 5,571 recorded this year compared to 4,835 in the previous year, while leptospirosis cases have surpassed the outbreak threshold, with 3,186 reported, along with 260 typhoid cases (Prasad, 2023). The Ministry is monitoring trends and ensuring timely treatment to prevent unnecessary hospital admissions. [[Full article](#)]
- **Ukraine:** A 58-year-old resident in Vistova has been diagnosed with leptospirosis, while the first case was registered in August in Kalush (Bikha, 2023). The cause of both cases is unknown, but possible causes include contact with mouse-like rodents, contaminated food or water from unknown uncontrolled sources, or consumption of mouse-like rodent products or their products. [[Full article](#)]

Rabies

- **India:** A father-son duo in Uttar Pradesh's Kanpur died from rabies after their pet cat was bitten by a stray dog (Mitra, 2023). The incident spread panic among residents, leading to the sending of other family members for testing. The fear of the cat possibly causing the death has led to concerns among those keeping dogs and cats as pets at home. Senior doctor recommends pets receive anti-rabies injections and clean wounds with spirit. Treatment and awareness are crucial in such situations, as symptoms can appear years after the bite. [[Full article](#)]

Regional Updates for Zoonosis

Rabies

- **Indonesia:** A male, a 48-year-old rabies patient in Dompu Regency, West Nusa Tenggara, died after being treated for two days at Dompu Hospital (Nickyrawi, 2023). He was bitten by a stray dog in mid-November, and his symptoms, including raging, fear of water, and wind, were confirmed by a neurologist. The death occurred at 9 pm on November 29 in a special isolation room for VIPs. [[Full article](#)]
- **Vietnam:** Dak Lak province recorded its fourth suspected rabies death in 2023, a male from village 6, Hoa Thang commune, Buon Ma Thuot City (Cong an, 2023). The patient was bitten by a domestic dog three months ago and developed hydrophobia, and fear of wind. Despite receiving treatment and being diagnosed, the family asked for him to go home. The Dak Lak Provincial Center for Disease Control notified the Department of Animal Husbandry and Veterinary Health and Buon Ma Thuot City Medical Center to coordinate handling and rabies prevention. The Health Sector recommends people bitten by dogs to seek anti-serum injections and rabies vaccines, and to monitor health developments to avoid unfortunate consequences. [[Full article](#)]

Highly Pathogenic Avian Influenza H5N1

- **Cambodia:** The MOH has confirmed a bird flu case in a 4-year-old girl and a 21-year-old woman in Trapeang Russey village, Damnak Sokrom commune, Dang Tong district, Kampot province (ProMED, 2023). The ducks were culled by the Kampot Provincial Authority to contain the spread of the virus. Chief of Provincial Animal Production and Treatment, Eng Santepheap, urged villagers to work with local authorities and report any illness to authorities. [[Full article](#)]

Vector-Borne Diseases

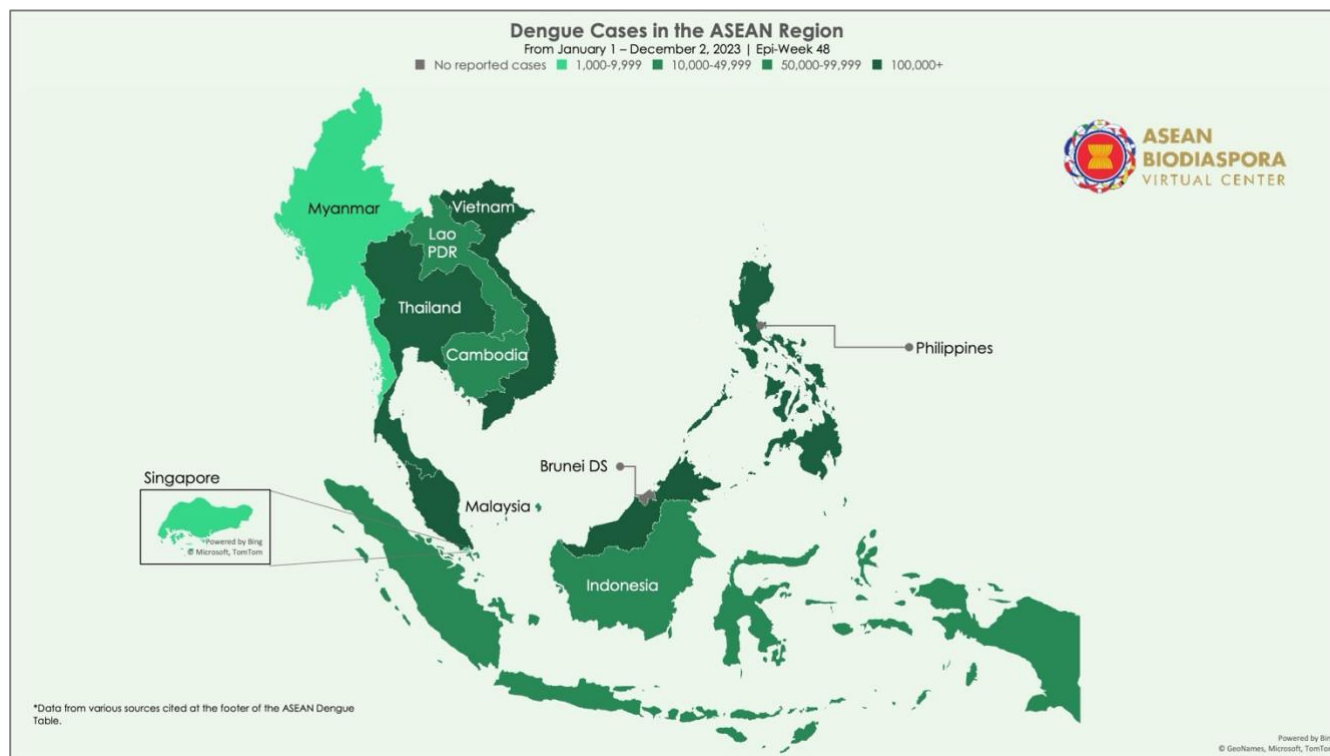


ASEAN
BIODIASPORA
VIRTUAL CENTER



Dengue Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



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	-	-	-	-	-	-
Cambodia¹	Week 42	26,912	0	39	0	0.14%
Indonesia²	Week 47	83,302	5,093	633	59	0.76%
Lao PDR¹	Week 45	30,292	0	19	0	0.06%
Malaysia³	Week 48	111,712	3,604	83	3	0.07%
Myanmar⁴	Week 28	6,685	0	30	0	0.45%
Philippines⁵	Week 43	167,355	0	575	0	0.34%
Singapore⁶	Week 47	8,899	68	0	0	0.00%
Thailand⁷	Week 47	139,719	3,064	151	0	0.11%
Vietnam¹	Week 44	135,879	0	35	0	0.03%
Total		710,755	11,829	1,565	62	0.22%

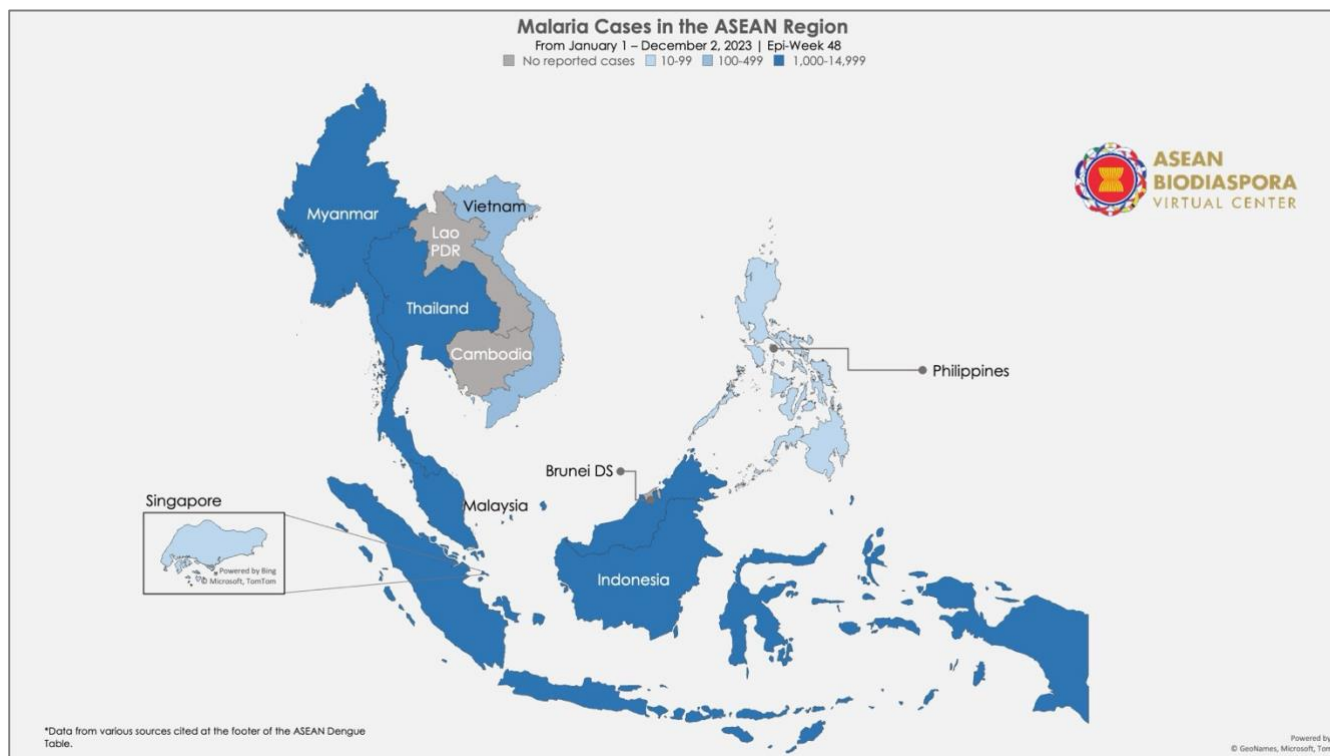
1. WHO WPRO, "Dengue," World Health Organization, accessed December 5, 2023, <https://www.who.int/westernpacific/emergencies/surveillance/dengue>.
 2. Ministry of Health, Republic of Indonesia
 3. Disease Control Division, Ministry of Health Malaysia, accessed December 5, 2023, iDengue, <https://idengue.mysa.gov.my/djd/>.
 4. BlueDot Developer Portal, accessed December 5, 2023, <https://developer-portal.bluedot.global/>.
 5. Department of Health Website, accessed December 5, 2023 "Statistics," <https://doh.gov.ph/statistics>.
 6. National Environment Agency (NEA), accessed December 5, 2023, Dengue cases, <https://www.nea.gov.sg/dengue-zika/dengue/dengue-cases>.
 7. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 5, 2023, <http://doe.moph.go.th/surdata/index.php>
 *Data were updated and collected from official sources, which may have a 2-8 weeks delay in reporting. Data must be interpreted cautiously.

- The **ASEAN** region reported **11,829** new dengue cases in Indonesia, Malaysia, and Thailand – 62 Deaths. The region reported **710,755** total cases and **1,565** total deaths in 2023 with **0.22%** CFR.



Malaria Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



Malaria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Malaria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 44	1,899	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ¹	Week 45	1,116	0	0	0.00%
Myanmar ¹	Week 23	4,510	0	0	0.00%
Philippines ¹	Week 28	31	0	0	0.00%
Singapore ³	Week 47	20	0	0	0.00%
Thailand ²	Week 47	4,815	48	4	0.08%
Vietnam ¹	Week 42	349	0	0	0.00%
Total		12,740	48	4	0.03%

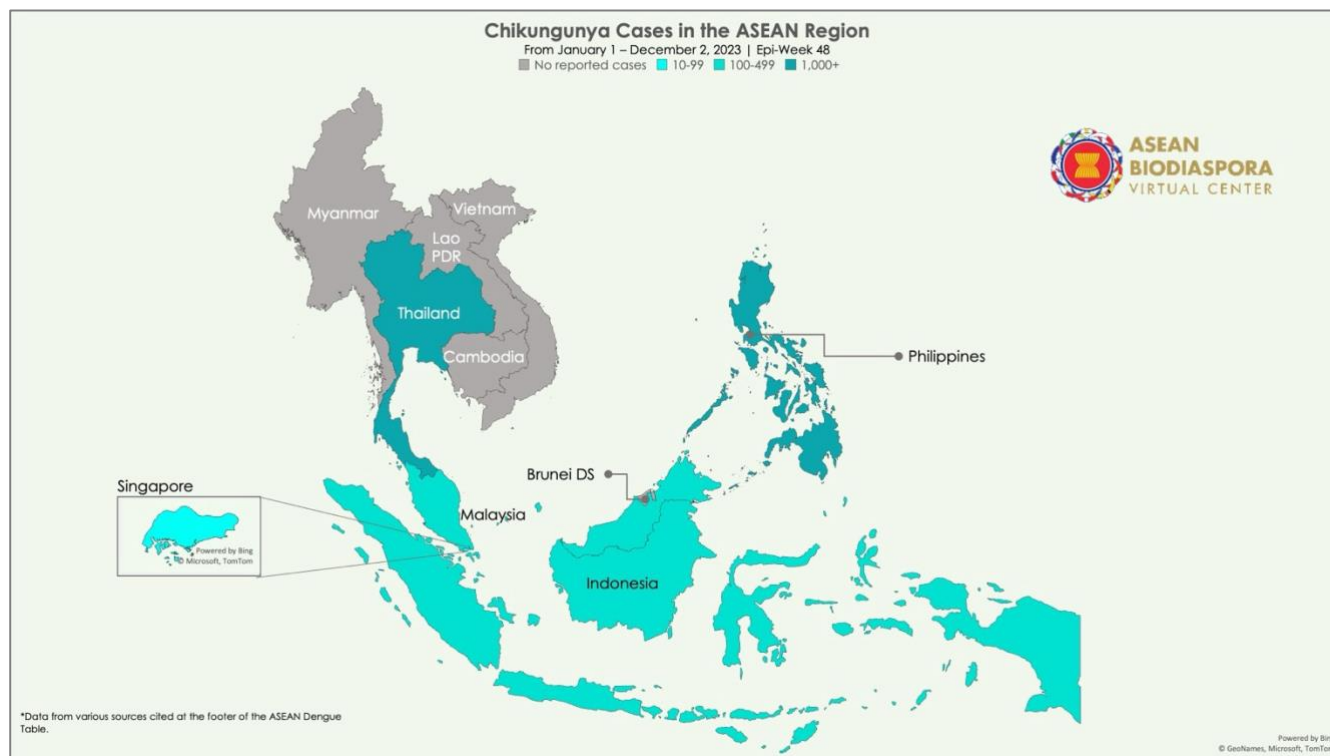
1. BlueDot Developer Portal, accessed December 5, 2023, <https://developer-portal.bluedot.global/>.
 2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed December 5, 2023, <http://doe.moph.go.th/surdata/index.php>
 3. Ministry of Health Singapore, accessed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

- The **ASEAN** region reported **48** new malaria cases in Thailand since the previous report. The region reported **12,740** total cases and **four** total deaths in 2023 with **0.03%** CFR.



Chikungunya Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



Chikungunya cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Cumulative Deaths	New Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-
Indonesia ¹	Week 47	462	-	0	-	0.00%
Lao PDR	-	-	-	-	-	-
Malaysia ²	Week 44	185	-	0	-	0.00%
Myanmar	-	-	-	-	-	-
Philippines ³	Week 43	2,691	-	0	-	0.00%
Singapore ⁴	Week 47	13	0	0	-	0.00%
Thailand ⁵	Week 47	1,271	38	0	-	0.00%
Vietnam	-	-	-	-	-	-
Total		4,622	38	0		0.00%

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

- The **ASEAN** region reported **38** new chikungunya cases in Singapore and Thailand. The region reported **4,622** total cases and **NO** deaths in 2023 with **0.00%** CFR.



Event Updates for Vector-borne Diseases

Epidemiological Week 48 | November 26 – December 2, 2023

Global Updates for Vector-borne Diseases

Dengue

- **Fiji:** The MOH is currently dealing with a notable increase in dengue cases (ReliefWeb, 2023a). According to the Health Minister, this year has seen 5,571 recorded cases, compared to 4,835 during the same period last year. [\[Full article\]](#)
- **India:** Bhopal has seen 10 new dengue cases, bringing the total to 810 in 2023 (Kunchikor, 2023). The district malaria officer, predicts a gradual decline in cases with temperature drops. Dengue fever is primarily transmitted by female mosquitoes and is caused by a Flaviviridae virus. Early reporting and prompt diagnosis are crucial for managing the infection. Preventive measures include eliminating breeding sites, improving sanitation, and promoting mosquito repellents and protective clothing. [\[Full article\]](#)
- **Italy** has reported 82 cases of autochthonous or locally transmitted dengue fever, up from 76 reported in the third week of November (Adnkronos Health, 2023). The cases are from four unconnected transmission episodes in Lodi, Latina, and Rome. All known cases have recovered or are improving. Since the start of the year, 338 cases of Dengue have been reported. [\[Full article\]](#)
- **Pakistan:** Punjab is facing a dengue outbreak with 87 new cases reported, with Lahore leading with 6,494 cases (Yousaf, 2023). The situation persists, with 94 patients receiving treatment in hospitals. The Health Secretary urges citizens to maintain cleanliness and cooperate with health teams to combat the outbreak. [\[Full article\]](#)
- **Sri Lanka:** Dengue cases in 2023 have exceeded the 76,000 mark, with 76,086 reported as of November 30, with the highest number in Colombo district (Fernandopulle, 2023). Health officials urge people to maintain cleanliness and eradicate mosquito breeding sites. [\[Full article\]](#)

Malaria

- **Ethiopia:** The number of weekly malaria cases reported nationwide exceeded 100,000, totaling 3.2 million malaria cases up to 26 November 2023 (ReliefWeb, 2023b). [\[Full article\]](#)
- **India:** Five children died in Bada Kutlo Village, Jharkhand's Pakur district, prompting the health department to conduct mass testing for malaria (Angad, 2023). At least 30 positive cases have been confirmed so far. The village is inhabited by the Paharia tribe, under the Particularly Vulnerable Tribal Groups. The Deputy Commissioner prioritizes testing and diagnosing symptoms among the local population while building trust and awareness for a healthy lifestyle. [\[Full article\]](#)

Chikungunya

- **India:** The viral infection chikungunya has swept through the outskirts of Jammu, causing a surge in reported cases and raising concerns among experts (Sharma, 2023). The outbreak, which shares its carrier with dengue, is predicted to persist until the end of December. The migratory population from states like Bihar, Uttarakhand, Chhattisgarh, Uttar Pradesh, Madhya Pradesh, and others has shifted from Jammu City to its outskirts. The region faces a dual health crisis, with over 700 reported cases of chikungunya and over 6,200 cases of dengue. [\[Full article\]](#)

Vaccine- Preventable Diseases

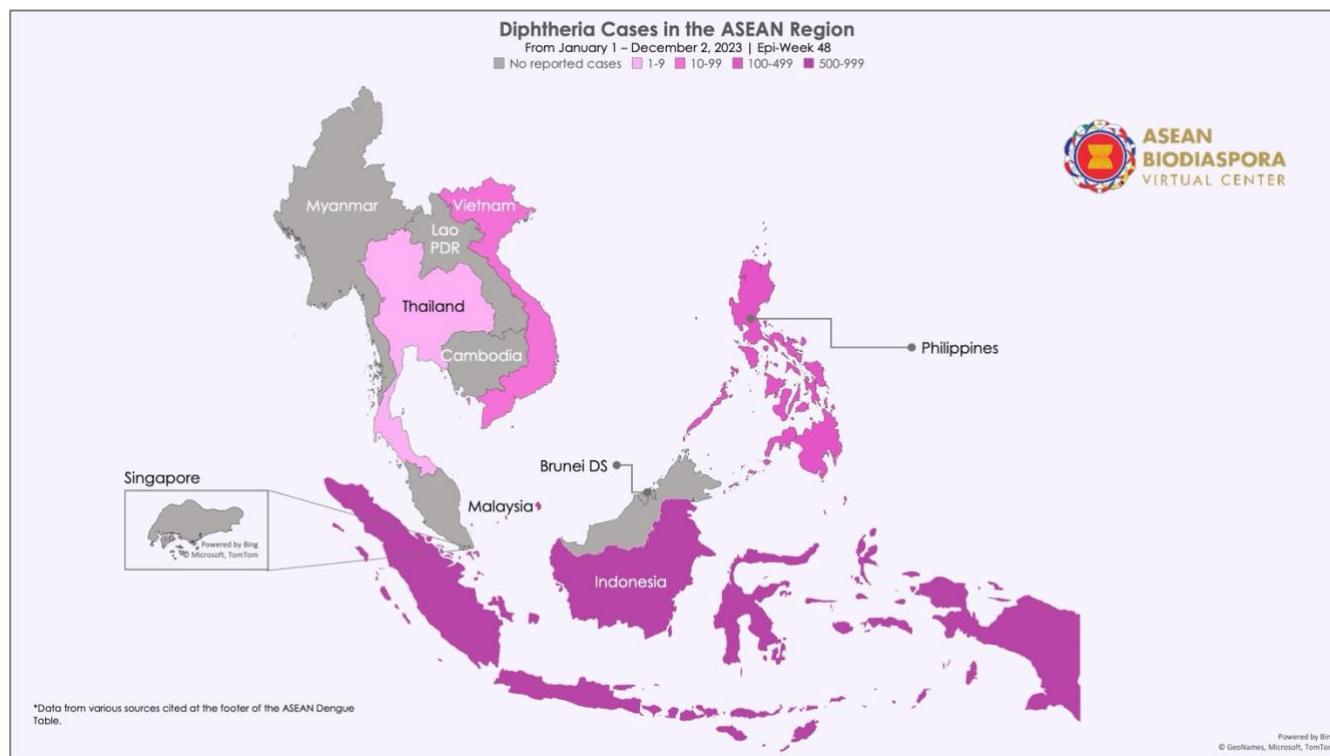


**ASEAN
BIODIASPORA**
VIRTUAL CENTER



Diphtheria Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



Diphtheria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 47	745	8	45	6.04%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 43	162	0	38	23.46%
Singapore ³	Week 47	0	0	0	0.00%
Thailand ⁴	Week 46	5	0	0	0.00%
Vietnam ⁵	Week 38	41	0	3	7.32%
Total		953	8	86	9.02%

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

- The ASEAN region reported **eight** new diphtheria cases in Indonesia since the previous report. The region reported **953** total cases and **86** total deaths in 2023 with **9.02%** CFR.



Measles Cases in the ASEAN Region

From January 1 to December 2, 2023 (Epi-Week 48)



Measles cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Measles Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 46	8,810	8	11	0.12%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 43	2,024	0	6	0.30%
Singapore ³	Week 47	6	0	0	0.00%
Thailand ⁴	Week 46	320	8	0	0.00%
Vietnam	-	-	-	-	-
Total		11,160	16	17	0.15%

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

- The **ASEAN** region reported **16** new measles cases in Indonesia and Thailand since the previous report. The region reported **11,160** total cases and **17** total deaths in 2023 with **0.15%** CFR.



Event Updates for Vaccine-Preventable Diseases

Epidemiological Week 48 | November 26 – December 2, 2023

Global Updates for Vaccine-Preventable Diseases

Measles

- Australia:** Western Australians are advised to be aware of the risk of measles following a confirmed case in a child. The Health Department's Director of Communicable Diseases has warned that anyone who has had a potential exposure to measles and develops symptoms should see a doctor (WA Health, Government of Western Australia, 2023). Every measles case is treated as a potential public health emergency due to the risk of local spread and the potentially severe nature of the disease. People born after 1965 should ensure they have had two documented doses of a measles vaccine at some stage in their lives. [\[Full article\]](#)
- Canada:** Alberta Health Services (AHS) has confirmed a person with lab-confirmed measles was in public settings in Calgary while infectious (CBC News Canada, 2023). The agency has alerted individuals who may have been exposed to measles in three instances: Calgary International Airport on November 23, Alberta Children's Hospital on November 24, and Alberta Children's Hospital on November 27. AHS encourages those who believe they may have been exposed to review their immunization records and call HealthLink 811 for advice. Those with less than two documented doses of measles-containing vaccine, those born after 1970, pregnant, under one year old, or have a weakened immune system may be eligible for medication to prevent measles. [\[Full article\]](#)
- Ethiopia:** The Southwest region of Ethiopia experienced an extensive measles outbreak, with 8,290 cases reported as of 26 November 2023, including 30 deaths, due to poor immunization coverage (ReliefWeb, 2023b). [\[Full article\]](#)
- Kazakhstan:** Measles cases in the region are mostly from Petropavlovsk, with 68 cases detected in the region (Temirgalieva, 2023). Three cases were imported from the UAE, Russian Federation, and Kyrgyzstan. 79 patients are aged 15 and older, with 79% not vaccinated. The situation is stable, with 48 patients receiving hospital treatment and 181 beds prepared. [\[Full article\]](#)
- Russia:** The Saratov region has seen an increase in measles cases, with 187 confirmed cases registered (Aksenova, 2023). The region's morbidity situation remains stable. [\[Full article\]](#)
- Switzerland:** A measles outbreak has affected the canton of Geneva since October 2023, with six confirmed cases and 750 contact persons identified (Gerome, 2023). The situation seems to be under control, but contact persons must be vaccinated within three days. Those with measles symptoms should contact their doctor to avoid contaminating others. The cantonal doctor's service recommends wearing masks in emergency rooms, medical offices, and ambulances to prevent the virus's spread. Measles epidemics occur regularly in Switzerland, with an average two-dose vaccination coverage of 90% in two-year-olds. A vaccination coverage rate of at least 95% with two doses is essential to eliminate the measles virus. [\[Full article\]](#)
- Uzbekistan:** Since the start of the year, 735 measles cases have been recorded in the Namangan region of Uzbekistan, with 255 children aged three years undergoing treatment (Kurbanov, 2023). The region has a sufficient supply of diagnostic tools, reagents, and vaccines, with 9,500 doses transferred and 1,936 children vaccinated. In November, 3 million doses of measles vaccine were purchased from the state budget.



The World Health Organization (WHO) reported an 18% increase in measles incidence and mortality in 2022 due to decreased vaccination coverage. [[Full article](#)]

Pertussis

- **Russia:** Kuzbass residents have reported a high incidence of whooping cough since 2023, with 357 children and nine adult residents affected (Klinnikova, 2023). The majority of cases were recorded in Novokuznetsk and Kemerovo, with Leninsk-Kuznetsky having the most cases. [[Full article](#)]

Regional Updates for Vaccine-Preventable Diseases

Pertussis

- **Thailand:** A large number of pertussis cases have been reported in Pattani province from September to November 27, 2023 (Bangkok Broadcasting & Television Company Limited, 2023). The province has seen 72 cases spread across several districts, including an 18-day-old baby who died due to co-occupants infected. The high infection rate is attributed to low vaccination rates. Parents are encouraged to get their children vaccinated, as whooping cough, a respiratory infection caused by *Bordetella pertussis*, is contagious and can lead to life-threatening complications. [[Full article](#)]



Event Updates for Other Infectious Diseases

Epidemiological Week 48 | November 26 – December 2, 2023

Global Updates for Other Infectious Diseases

Mycoplasma pneumoniae

- **Republic of China:** *Mycoplasma pneumoniae* outbreak in Taiwan has led to cases in Taichung City, including a persistent cough for two months (Everington, 2023). The Taiwan Center for Disease Control (CDC) has declared an "airport alert" and issued a letter to medical professionals to implement the TOCC (travel history, occupation, contact history, and cluster information) inquiry mechanism. [[Full article](#)]

HIV/AIDS

- **Republic of China:** Taiwan has seen a 9.3% decrease in new AIDS cases this year, surpassing the global average of "86-89-93," according to the Taiwan CDC (Tzu-ti, 2023). The UNAIDS target of "95-95-95" requires 95% of individuals living with HIV to be aware of their status, on life-saving antiretroviral treatment, and achieve viral suppression. Taiwan has seen the highest number of self-tests since its initiation in 2016, with nearly 75,000 individuals conducting self-tests from January to October. [[Full article](#)]

Regional Updates for Other Infectious Diseases

Mycoplasma pneumoniae

- **Indonesia:** The DKI Jakarta Health Office has reported cases of children infected with *Mycoplasma pneumoniae* bacteria, which is one of the causes of an increase in pneumonia cases in China (Dany, 2023). The agency is collecting the exact number of infected children through specific tests to determine the type of bacteria causing pneumonia. The main symptom is shortness of breath due to pneumonia, and treatment is needed if the condition is severe. *Mycoplasma pneumoniae* can cause multiple infections, with the most common being respiratory syncytial virus (RSV). The disease is not a new or mysterious one, and many cases are found in school-age children. A study in Chengdu, China, found that cases of pneumonia transmission due to *Mycoplasma pneumoniae* were more common in school-age children and preschool-age children. Atypical pneumonia, often caused by *Mycoplasma pneumoniae*, can be difficult to diagnose and requires further checks for more precise management. [[Full article](#)]

Hand, Foot, and Mouth Disease (HFMD)

- **Vietnam:** The Ho Chi Minh City CDC reported 1,373 cases of HFMD from November 13 to November 19, 2023, bringing the total number of cases to 39,413 (Baomoi, 2023). Nha Be, Binh Chanh, and Binh Tan districts had the highest number of cases. Nguyen Dinh Qui, Deputy Head of the Department of Infectious Diseases and acting Head of the Department at Children's Hospital 2, said that the situation of dengue fever and HFMD shows no sign of declining, although the cases are still lower compared to the previous year and have not caused a peak in the epidemic. [[Full article](#)]



References

- Adelaide (2023) COVID-19 update 1 December 2023, Sa health. Available at: <https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/about+us/news+and+media/all+media+releases/covid-19+update+1+december+2023> (Accessed: 05 December 2023).
- Angad, A. (2023) Deputy commissioner leads by example in Jharkhand district - gets tested for malaria so others follow suit, *The Indian Express*. Available at: <https://indianexpress.com/article/india/5-children-die-of-suspected-malaria-testing-begins-in-jharkhand-village-9044930/> (Accessed: 04 December 2023).
- Bangkok Broadcasting & Television Company Limited (2023) News of a severe whooping cough outbreak: An 18-day-old baby was found infected and died in Pattani Province., Ch7 News. Available at: <https://news.ch7.com/detail/688188> (Accessed: 04 December 2023).
- Baomoi (2023) TP.HCM: Dịch Sốt Xuất Huyết, Tay Chân Miệng Chưa Có Dấu Hiệu giảm, Nỗi Lo cảm Cúm Tăng dần dịp Cuối Năm, <https://baomoi.com>. Available at: <https://baomoi.com/tp-hcm-dich-sot-xuat-huyet-tay-chan-mieng-chua-co-dau-hieu-giam-noi-lo-cam-cum-tang-dan-dip-cuoi-nam-c47669648.epi> (Accessed: 04 December 2023).
- Bikha (2023) На Калушині - другий за рік випадок лептоспірозу: захворів 58-річний чоловік: ВІКНА. Новини Калуша та Прикарпаття, *Vikna*. Available at: <https://vikna.if.ua/news/category/all/2023/11/28/148641/view> (Accessed: 04 December 2023).
- CBC News Canada (2023) AHS confirms case of measles in Calgary, prompts public alert | CBC news. Available at: <https://www.cbc.ca/news/canada/calgary/measles-alberta-ahs-public-exposure-1.7043151> (Accessed: 04 December 2023).
- Cong an (2023) Đắc Lắc Ghi nhận thêm 1 Trường Hợp Tử Vong Nghi Bệnh dại, Báo Công An Đà Nẵng. Available at: <https://cadn.com.vn/dak-lak-ghi-nhan-them-1-truong-hop-tu-vong-nghi-benh-dai-post287185.html> (Accessed: 04 December 2023).
- Dany, F.W.W. (2023) Dinas Kesehatan DKI terima laporan Anak Terinfeksi pneumonia, *kompas.id*. Available at: <https://www.kompas.id/baca/metro/2023/12/03/dinkes-dki-jakarta-terima-laporan-anak-terinfeksi-mycoplasma-pneumoniae> (Accessed: 04 December 2023).
- Everington, K. (2023) Taiwan nurse tests positive for mycoplasma, *Taiwan News*. Available at: <https://www.taiwannews.com.tw/en/news/5048658> (Accessed: 05 December 2023).
- Fernandopulle, S. (2023) Dengue cases in Sri Lanka Cross 76,000 - breaking news: *Daily Mirror*, *Breaking News | Daily Mirror*. Available at: <https://www.dailymirror.lk/breaking-news/Dengue-cases-in-Sri-Lanka-cross-76-000/108-272313> (Accessed: 04 December 2023).
- Fitrat, I. (2023) Positif Cacar Monyet, Dua Warga kota Bogor jalani Isolasi Mandiri, *Republika Online*. Available at: <https://rejabar.republika.co.id/berita/s4zrt0432/positif-cacar-monyet-dua-warga-kota-bogor-jalani-isolasi-mandiri> (Accessed: 04 December 2023).
- Gerome, P. (2023) an outbreak of measles affected the canton of Geneva *Travel medicine, Suisse : une flambée de rougeole a touché le canton de Genève*. Available at: <https://www.mesvaccins.net/web/news/21453-suisse-une-flambee-de-rougeole-a-touche-le-canton-de-geneve> (Accessed: 04 December 2023).
- Klinskova, S. (2023) Rospotrebnadzor: more than 350 children fell ill with whooping cough in Kuzbass - 11.29.2023 - News - A42.RU. Available at: <https://gazeta.a42.ru/lenta/news/177534-rospotrebnadzor-bolee-350-detei-zaboleli-koklyusem-v-kuzbasse> (Accessed: 04 December 2023).
- Kunchikor, S. (2023) Exploring the rising cases of Dengue in Bhopal: An urgent call for action, *Express Healthcare Management*. Available at: <https://www.expresshealthcaremgmt.com/news2/bhopal-records-10-dengue-cases-this-wk-latest-news-bhopal-news/396943/#gsc.tab=0> (Accessed: 04 December 2023).
- Kurbanov, T. (2023) В Наманганской области Узбекистана наблюдается вспышка кори, *Новости Кыргызстана - КНИА 'Кабар'*. Available at: <https://kabar.kg/news/v-namanganskoi-oblasti-uzbekistana-nabludaetsia-vspyshka-kori/> (Accessed: 04 December 2023).
- Locus, S. (2023) Philippines' 1,340 COVID-19 cases from Nov. 28-Dec. 4 highest in 19 weeks, *GMA News Online*. Available at: <https://www.gmanetwork.com/news/topstories/nation/890343/philippines-1-340-covid-19-cases-from-nov-28-dec-4-highest-in-19-weeks/story/> (Accessed: 05 December 2023).
- Mitra, E. by H. (2023) Uttar Pradesh: Father-son duo dies of rabies after pet cat, which was attacked by Stray Dog, bites them, *English*. Available at: <https://www.indiatvnews.com/uttar-pradesh/father-son-duo-dies-of-rabies-after-pet-cat-attacked-by-stray-dog-in-akbarpur-kanpur-dehat-latest-updates-2023-12-01-905270> (Accessed: 04 December 2023).
- Nickyrawi, F. (no date) Pasien Suspek rabies meninggal Seusai Dirawat 2 Hari Di RSUD Dompur, *detikbali*. Available at: <https://www.detik.com/bali/nusra/d-7064227/pasien-suspek-rabies-meninggal->



- [seusai-dirawat-2-hari-di-rsud-dompu](#)
(Accessed: 04 December 2023).
- Prasad, S.S. (2023) *LTDD on the rise*, Fiji Broadcasting Corporation. Available at: <https://www.fbcnews.com.fj/news/health/ltdd-on-the-rise/> (Accessed: 04 December 2023).
- Pratiwi, C.A. (2023) *Kasus Cacar Monyet tembus 62 Pasien, Kemenkes sebut Didominasi Dari Jakarta*, iNews.ID. Available at: <https://www.inews.id/lifestyle/health/kasus-cacar-monyet-tembus-62-pasien-kemenkes-sebut-didominasi-dari-jakarta> (Accessed: 04 December 2023).
- ProMED (2021) *ProMED*. Available at: <https://promedmail.org/promed-post/?id=8713340> (Accessed: 04 December 2023).
- ReliefWeb (2023a) *Alertes de Maladies épidémiques et émergentes en océanie le 28 novembre 2023 - world*, ReliefWeb. Available at: <https://reliefweb.int/map/world/alertes-de-maladies-epidemiques-et-emergentes-en-océanie-le-28-novembre-2023> (Accessed: 04 December 2023).
- ReliefWeb (2023b) *Ethiopia Health Cluster Bulletin (November 2023) - ethiopia*, ReliefWeb. Available at: <https://reliefweb.int/report/ethiopia/ethiopia-health-cluster-bulletin-november-2023> (Accessed: 04 December 2023).
- RNZ (2023) *Covid-19 update: 6656 new cases, 20 deaths*, New Zealand Doctor. Available at: <https://www.nzdoctor.co.nz/article/news/covid-19-update-6656-new-cases-20-deaths> (Accessed: 05 December 2023).
- Sharma, A. (2023) *Jammu witnesses first-ever surge in chikungunya cases*, Rising Kashmir. Available at: <https://risingkashmir.com/jammu-witnesses-first-ever-surge-in-chikungunya-cases-6b21f45c-d61b-418b-acb3-8f22fed4e58c> (Accessed: 04 December 2023).
- Temirgalieva, A. (2023) *Measles cases surge among National Guard Academy cadets in N Kazakhstan Region*, en.inform.kz. Available at: <https://en.inform.kz/news/measles-cases-surge-among-national-guard-academy-cadets-in-n-kazakhstan-region-81cc3b/> (Accessed: 04 December 2023).
- Tzu-ti, H. (2023) *Taiwan sees highest number of AIDS self-tests in 7 years as awareness rises*, Taiwan News. Available at: <https://www.taiwannews.com.tw/en/news/5049726> (Accessed: 05 December 2023).
- Vaidyanathan, V. (2023) *Singapore Records First Child Covid Death of 2023 as 13-month-old succumbs to virus*, TimesNow. Available at: <https://www.timesnownews.com/world/singapore-records-first-child-covid-death-of-2023-as-toddler-succumbs-to-virus-article-105505026> (Accessed: 04 December 2023).
- WA Health, Government of Western Australia (2023). *Measles alert for Western Australians*. Available at: <https://www.health.wa.gov.au/Media-releases/2023/December/Measles-Alert-for-Western-Australians> (Accessed: 04 December 2023).
- Yousaf, I. (2023) *87 new cases of dengue in Punjab*, Associated Press of Pakistan. Available at: <https://www.app.com.pk/domestic/87-new-cases-of-dengue-in-punjab/> (Accessed: 04 December 2023).
- Yusry, M. (2023) *Deputy health minister: Nine monkeypox cases detected in Malaysia since July this year*, Malay Mail. Available at: <https://www.malaymail.com/news/malaysia/2023/11/29/deputy-health-minister-nine-monkeypox-cases-detected-in-malaysia-since-july-this-year/104818> (Accessed: 04 December 2023).



Report generated by

ASEAN Biodiaspora Virtual Center (ABVC)

in collaboration with **Bluedot Inc.**

Email: support@biodiaspora.org

Facebook: <https://facebook.com/ASEANBiodiaspora>

Instagram: <https://instagram.com/ASEANBiodiaspora>



**ASEAN
BIODIASPORA**
VIRTUAL CENTER