

ASEAN Biodiaspora Virtual Center

Morbidity and Mortality Weekly Report Infectious and Emerging Diseases

ASEAN REGION

April 03, 2024 | MMWR 2024-13
Epidemiological Week 13



Korea Disease Control and
Prevention Agency



World Health
Organization



With Support by:

This report aims to provide the current situation on infectious and emerging diseases in the ASEAN Region. We collate various information from multiple official sources and publicly available sources and is published every week on Wednesday. For feedback and/or suggestions, please write to support@biodiaspora.org

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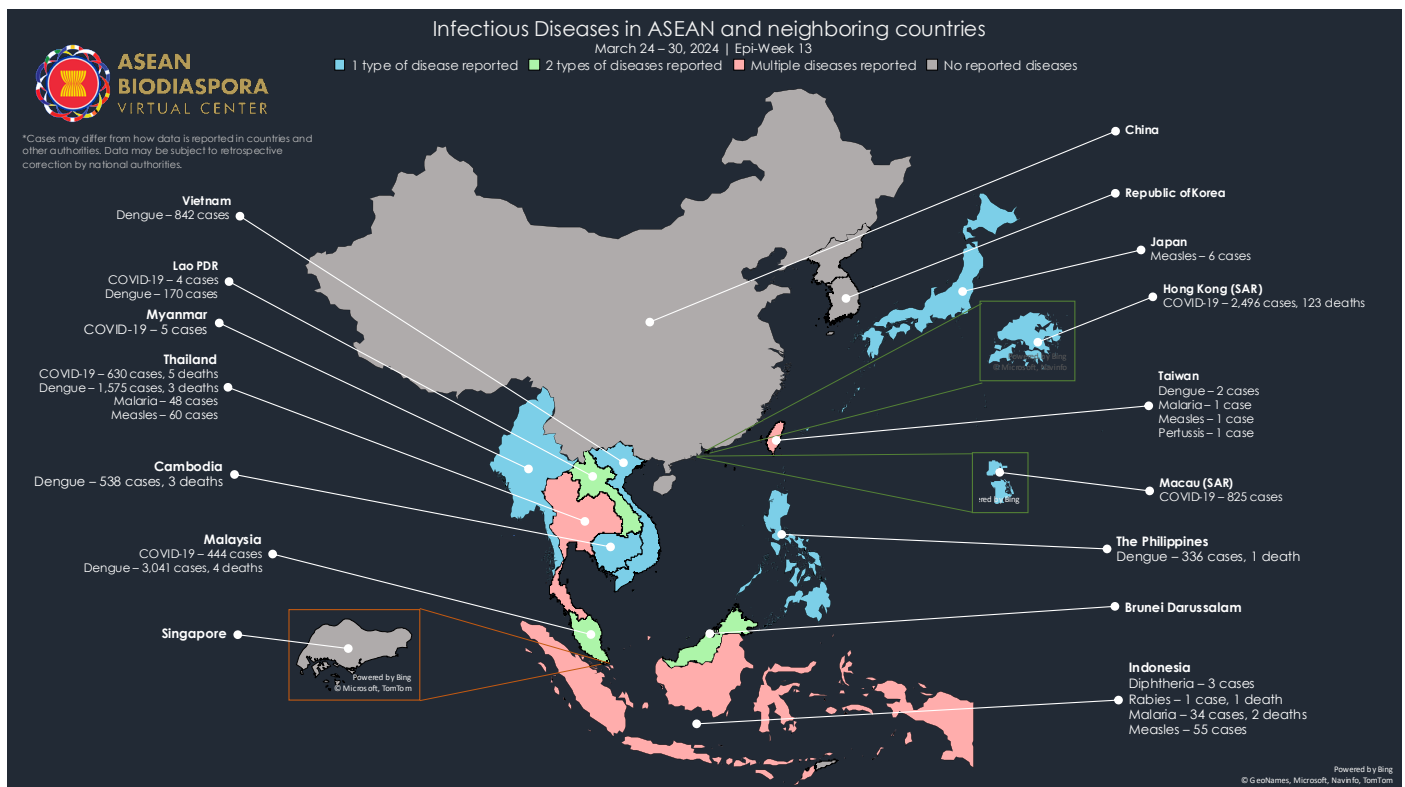
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Key Findings

- In recent months, trends of COVID-19 cases and deaths in the ASEAN region have gradually decreased.
- The **JN.1**, which is subtypes of **BA.2.86**, remains a dominant variant of interest spreading in the ASEAN region until the end of March 2024.
- **One** rabies case has been detected since the last report.
- Dengue cases has increased by **6,502** since the last report. Meanwhile, **82** new malaria cases have been found since the last report for vector-borne diseases in the ASEAN region.
- There have been **3** new diphtheria cases and **115** new measles since the last report of vaccine-preventable diseases in the ASEAN region.
- Based on media monitoring, we notice there are increasing number of Hand, Foot, and Mouth Disease (HFMD) in Indonesia. Additionally, we also notice there is an outbreak of anthrax in Lao PDR.

Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 13 | March 24 – 30, 2024



Source: AMS Official Sources, [Worldometer](#), [WHO](#), [Our World in Data](#), and [Bluedot Platform](#), accessed on April 2, 2024

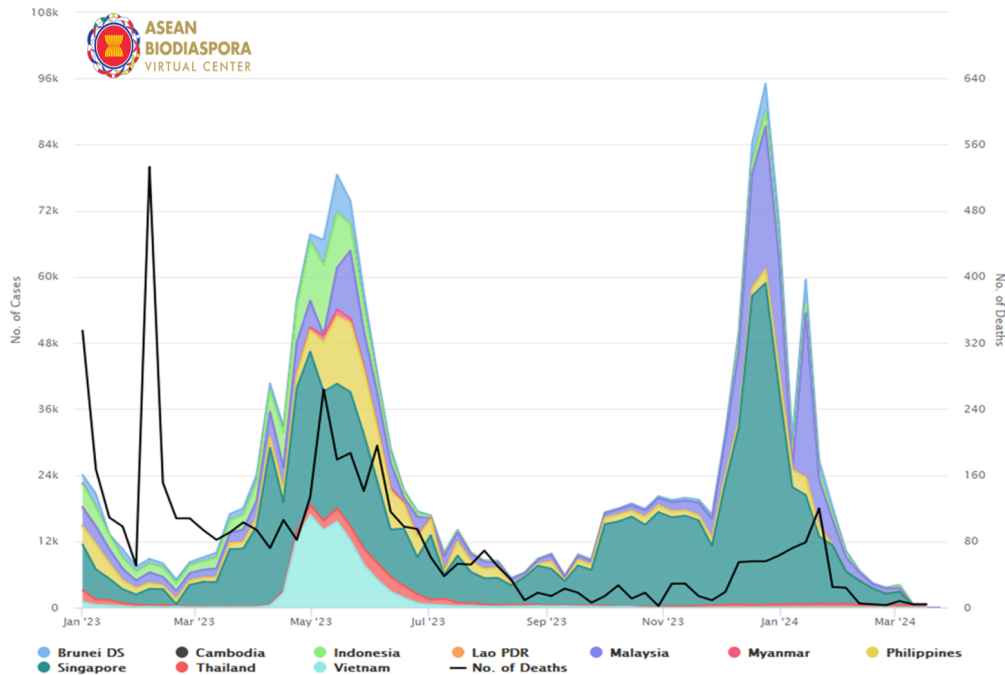
EMERGING DISEASES

COVID-19: Highlights and Situation Overview

- As of 30 March 2024 (5PM, GMT+7), there were **704,541,108** confirmed cases **worldwide**, including **7,008,946 deaths**. Globally, Case Fatality Rate (CFR) was **0.99%**.
- **36,991,561 total confirmed cases** of COVID-19 have been reported in the **ASEAN Region**.
- The CFR in the **ASEAN Region** was **1.00%**.

ASEAN Weekly COVID-19 Cases and Deaths

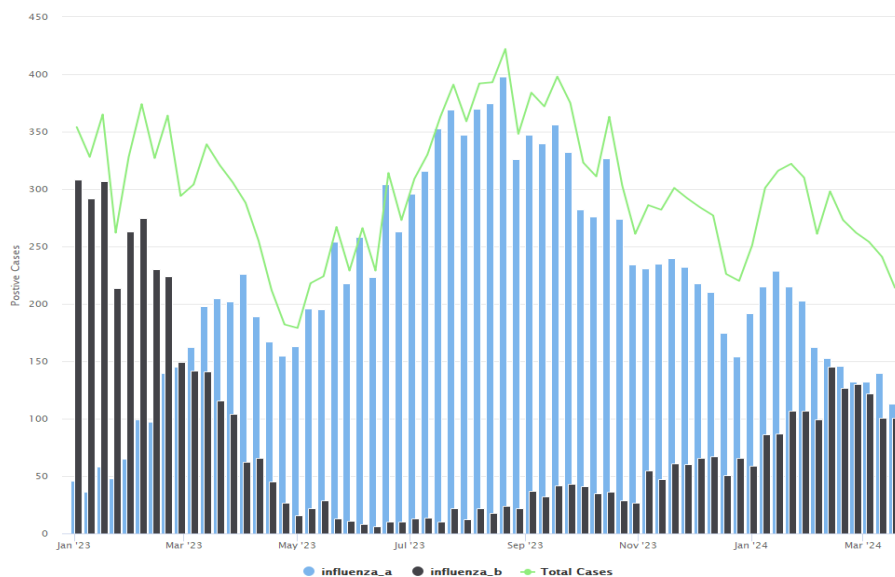
From January 1 to March 30, 2024



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

Trends of Influenza Confirmed Cases in the ASEAN region

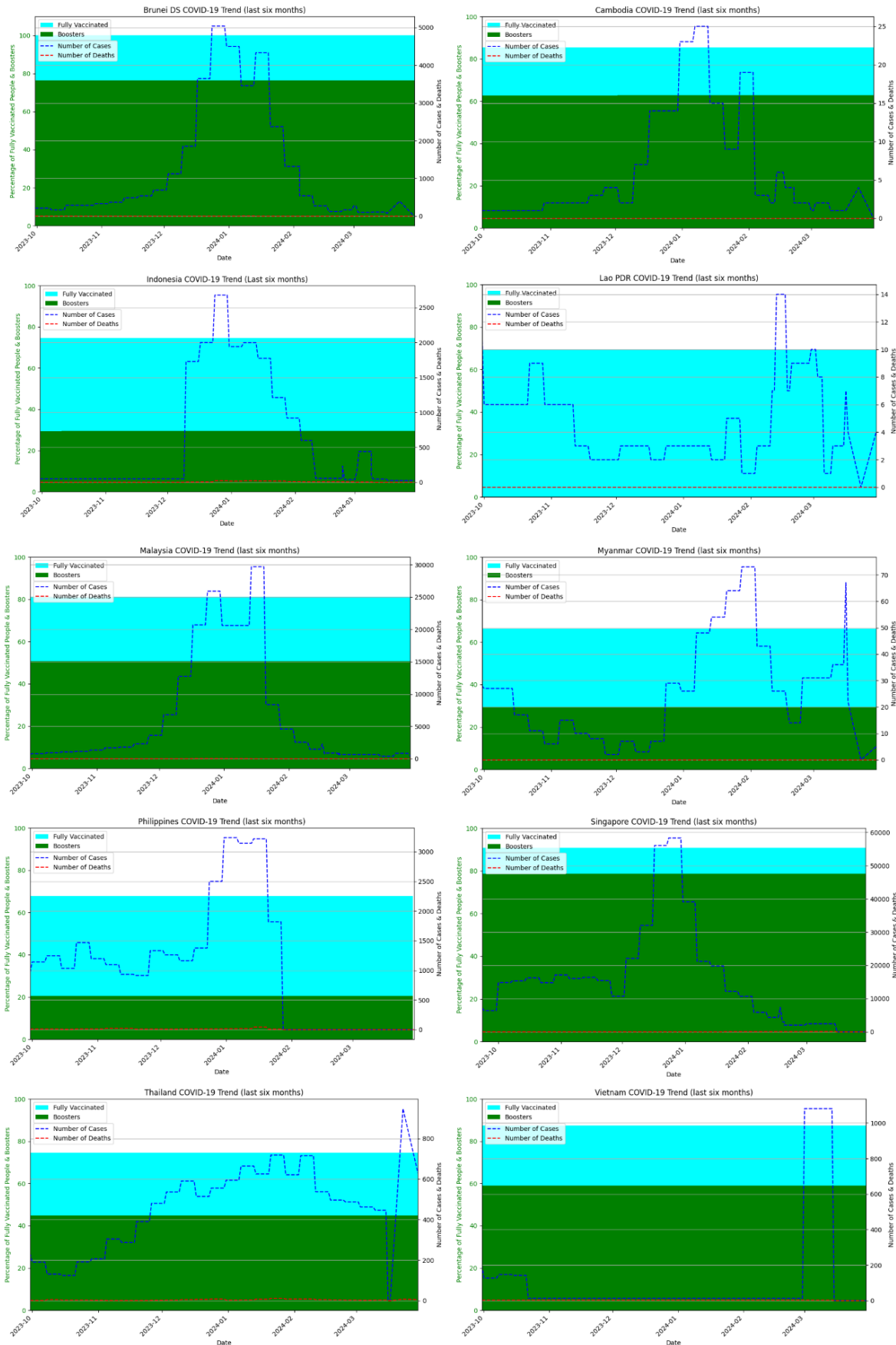
From January 1 to March 30, 2024



Source: FluNet, accessed on April 2, 2024 (<https://www.who.int/tools/fluinet>)

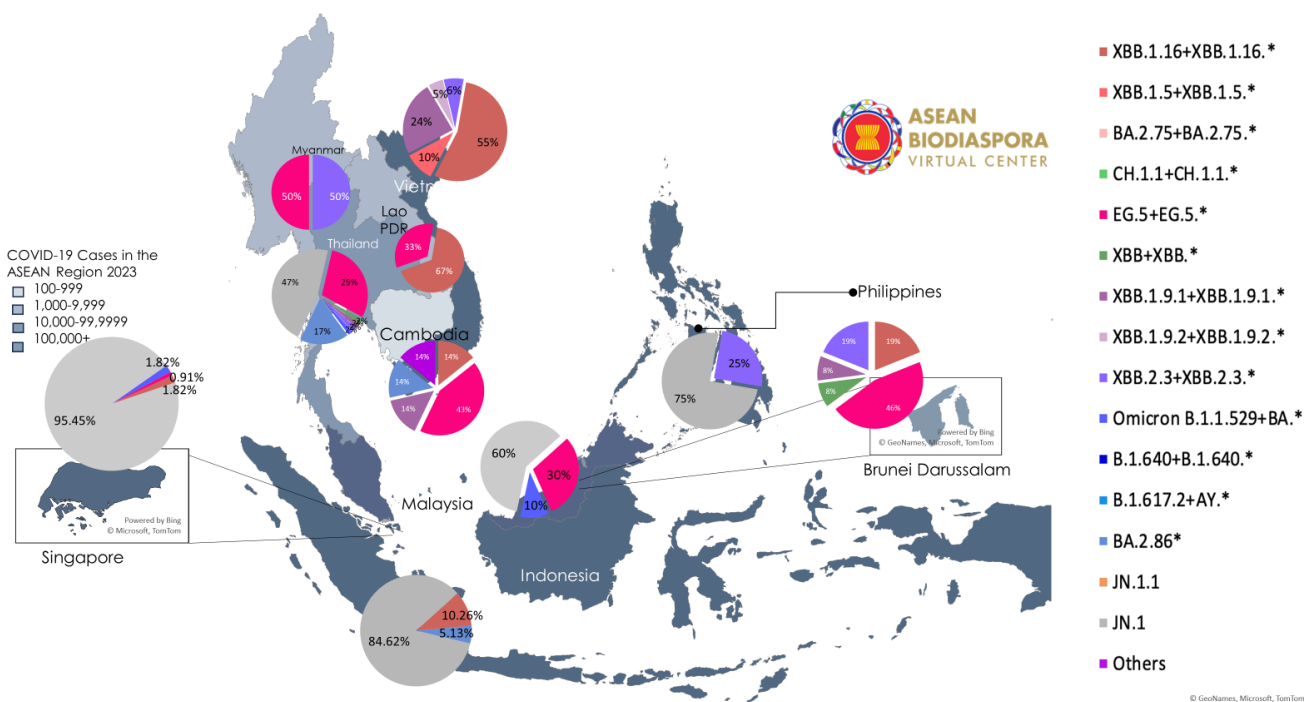
Trends of COVID-19 Cases, Deaths, and Vaccine Coverage among AMS

From September 30, 2023 to March 30, 2024



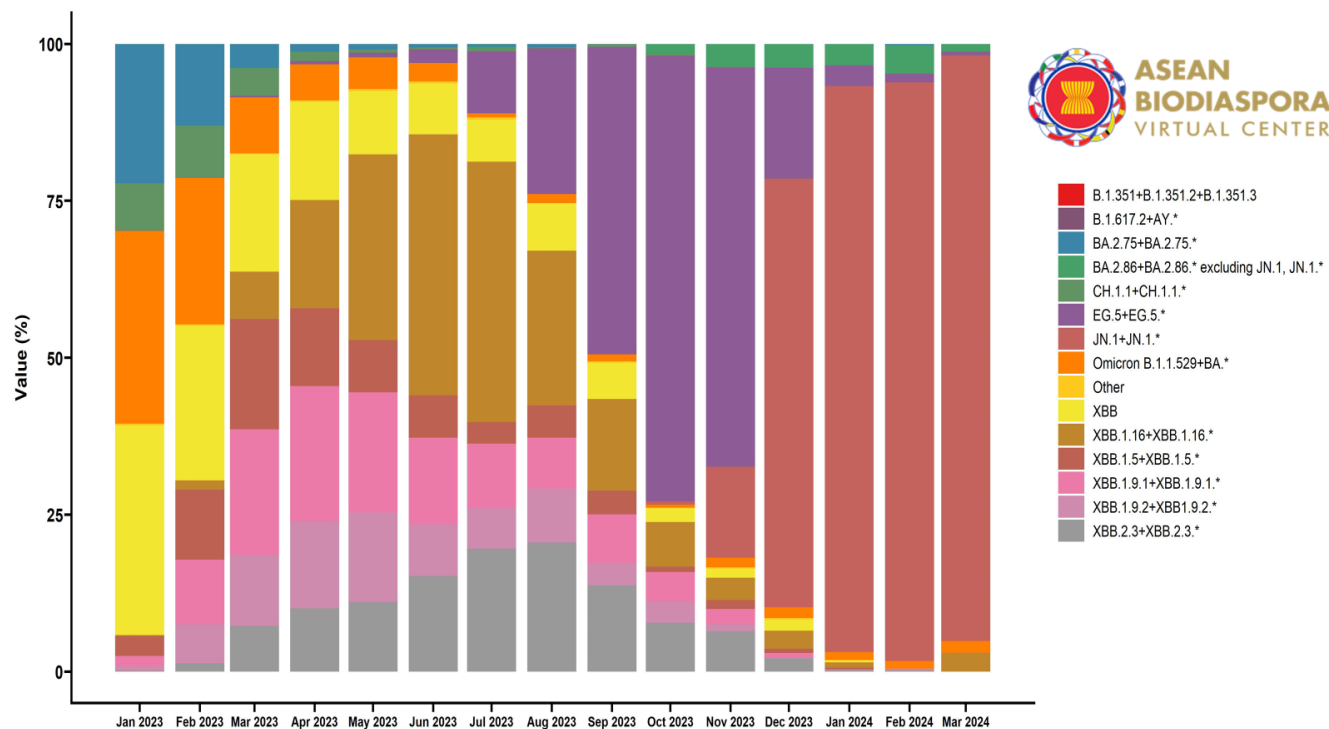
Source: [Worldometer](#), [Our World In Data](#), and [WHO](#)

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



Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on April 2, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)

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

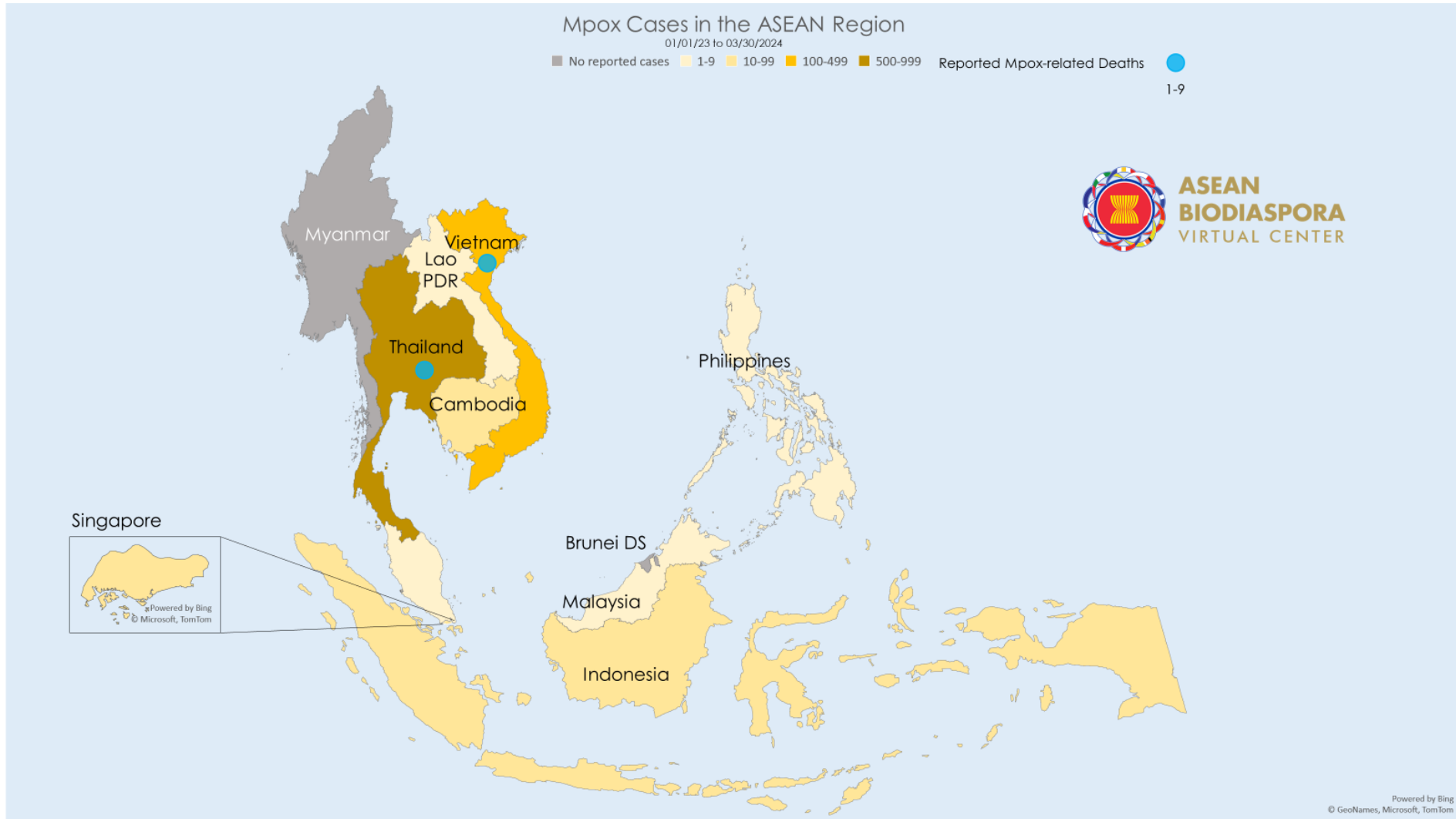


Source: GISAIID. "hCoV-19 Variants Dashboard," accessed on April 2, 2024 (<https://gisaid.org/hcov-19-variants-dashboard/>)



Mpox Cases Reported in the ASEAN Region

January 1, 2023 – March 30, 2024



Source:

1. Ministry of Health Republic of Indonesia
2. Bluedot Platform, accessed on April 2, 2024 (<https://portal.bluedot.global>)
3. Ministry of Health Singapore, accessed April 2, 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 30 March 2024, **11,698** confirmed cases worldwide since 2023, including **123** deaths. Globally, the CFR was **1.05%**.
- **1037 confirmed cases** including **eight deaths** in the **ASEAN** region, with a CFR of **0.77%**.
- **10,661 confirmed cases** of mpox have been reported in **other regions** (other than the **ASEAN** region):

Mpox cases in the ASEAN region (Jan. 1, 2023 to March 30, 2024)

ASEAN Member States	Cumulative Cases 2023-2024	New Cases Since Previous Report	Cumulative Deaths 2023	CFR
Cambodia ¹	13	0	0	0.00%
Indonesia ²	85	0	0	0.00%
Lao PDR ¹	1	0	0	0.00%
Malaysia ¹	9	0	0	0.00%
Philippines ¹	5	0	0	0.00%
Singapore ³	38	0	0	0.00%
Thailand ¹	731	0	1	0.14%
Vietnam ¹	155	0	7	4.52%
ASEAN Total	1037	0	8	0.77%

Source:

1. Bluedot Platform, accessed on April 2, 2024 (<https://portal.bluedot.global/>)
2. Ministry of Health Republic of Indonesia
3. Ministry of Health Singapore, accessed on April 2, 2024, (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)

Top 5 countries with the most mpox cases globally (Jan. 1, 2023 to March 30, 2024)

Country	Cumulative Cases	New Cases Since Previous Report	Cumulative Deaths	CFR
United States of America	2,197	0	37	1.68%
People's Republic of China	2,028	0	1	0.05%
Democratic Republic of Congo	1,356	0	2	0.15%
Thailand	731	0	1	0.14%
Brazil	456	0	2	0.44%

Source: Our World in Data, accessed on April 2, 2024 (<https://ourworldindata.org/monkeypox>)

Mpox cases per region (Jan. 1, 2023 to March 30, 2024)

REGIONS	CUMULATIVE CASES	NEW CASES SINCE THE PREVIOUS REPORT	CUMULATIVE DEATHS	CFR
AFRICA	1,543	31	7	0.45%
AMERICAS	4,276	0	86	2.01%
ASEAN	1,037	1	8	0.77%
ASIA & OCEANIA	3,522	0	17	0.48%
EUROPE	1,320	0	5	0.38%
TOTAL	11,698	32	123	1.05%

Source: Our World in Data, accessed on April 2, 2024 (<https://ourworldindata.org/monkeypox>)

Media Monitoring for Emerging Diseases

Epidemiological Week 13 | March 24 – 30, 2024

Global Situation for Emerging Diseases

COVID-19

- **Australia:** South Australia (SA) reported 977 new COVID-19 cases in the past week, with 3,252 people receiving a PCR test in the past week (The National Tribune, 2024). The number of cases has been readjusted due to data reconfiguration. SA Health encourages everyone to be up-to-date with vaccinations and to have a plan with their general practitioner (GP) for PCR testing and antiviral treatments if symptoms develop. [\[Full article\]](#)
- **Bangladesh** reported 40 more COVID-19 cases in the last 24 hours, with 740 samples tested, a positivity rate of 5.10% (The Daily Observer, 2024). The country's total deaths remained at 29,493, with 2,049,465 cases and 2,016,750 recoveries. [\[Full article\]](#)
- **Canada:** Three more residents of New Brunswick have died from COVID-19, while no new influenza deaths have been reported (MacKinnon, 2024). Hospitalizations for both viruses have decreased, with some indicators decreasing slightly during the reporting period. The province's pandemic death toll has risen to at least 1,022, with 15 people hospitalized and testing positive. Six lab-confirmed COVID-19 outbreaks have been declared, with 40 new cases confirmed through PCR lab tests. The positivity rate is 3%, down from 5%. About 400 New Brunswickers have received a COVID-19 vaccine in the past week, with a total of 147,677 XBB.1.5 vaccines administered since October 4, 2023. Spring COVID-19 vaccine boosters will be available from April 2 through June 15 for those considered most at. [\[Full article\]](#)
- The **United States (US):** Ohio experienced a sixth consecutive week of decreased COVID-19 cases, with 2,291 cases reported this week (Washington, 2024). The state reported a 5,000 increase in the number of people receiving the updated one-dose vaccine, representing 11.3% of the population. The total COVID-19 case count since early 2020 in Ohio reached 3,737,176. The week also saw 96 hospitalizations and 37 deaths, raising the total to 43,859. [\[Full article\]](#)

Mpox

- The **United States (US):** Virginia is experiencing a resurgence of mpox infections in 2024, matching the total cases recorded in 2023 (Latin Time, 2024). The Virginia Department of Health reported 12 cases so far, indicating a worrying expansion of the outbreak. The Department of Health's surveillance and research division warns that the public may underestimate the risk of a resurgence when cases decline, leading to sporadic but continuous transmission of the virus. Mpox, formerly known as monkeypox, can affect anyone and can spread through contact with contaminated objects. [\[Full article\]](#)

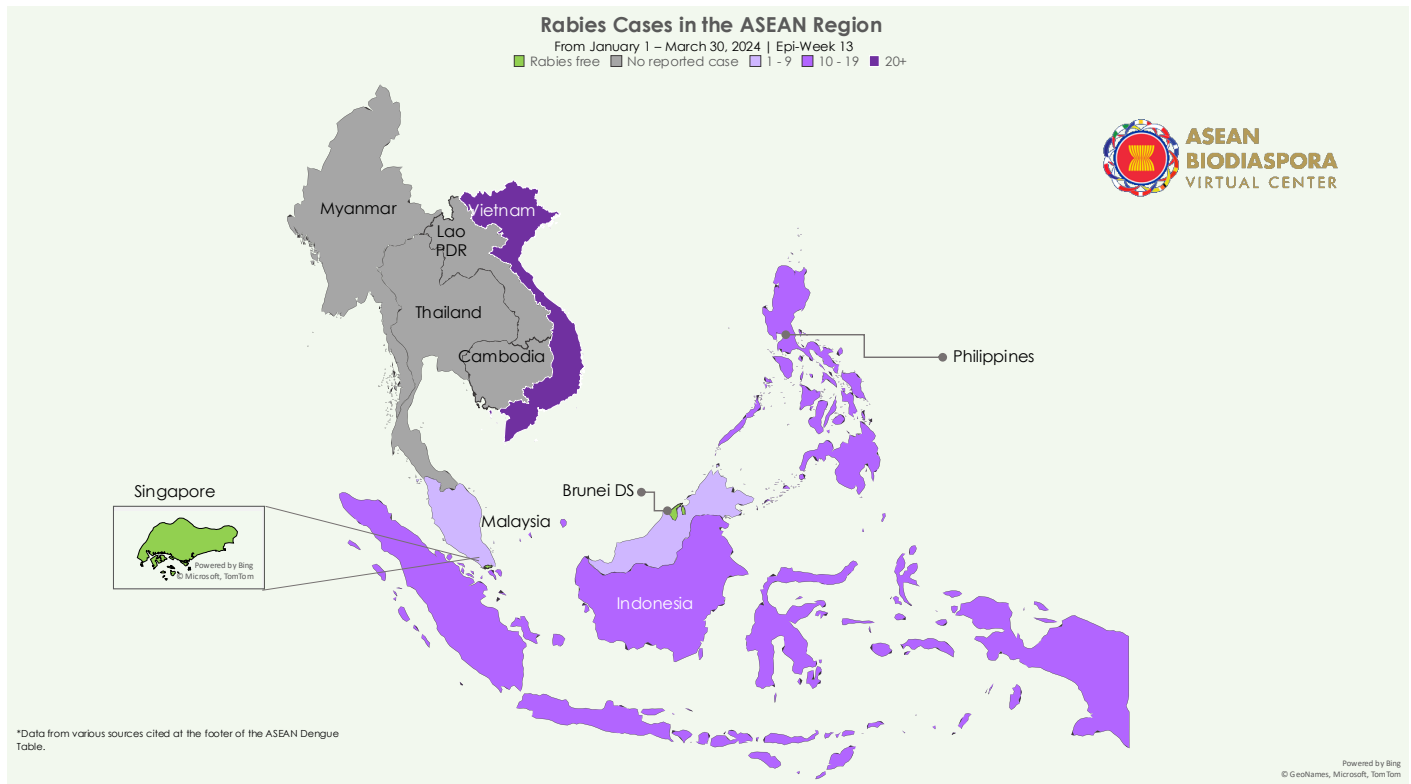
Regional Situation for Emerging Diseases

Mpox

- **Cambodia:** The Ministry of Health has identified 14 cases of mpox disease in young men under 40, with two new cases discovered in Phnom Penh (Punreay, H., 2024). The virus is transmitted through sexual contact, wounds, body fluids, saliva, airborne droplets, and contaminated utensils. Preventive measures are being implemented to curb the spread of the disease. [\[Full article\]](#)

ZOONOSIS

Rabies Cases in the ASEAN Region From January 1 to March 30, 2024 (Epi-Week 13)



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	-	-	-	-	-
Indonesia ¹	Week 13	20	1	20	100%
Lao PDR	-	-	-	-	-
Malaysia ²	Week 4	3	0	3	100%
Myanmar	-	-	-	-	-
Philippines ²	Week 10	15	0	15	100%
Singapore			Rabies-free country		
Thailand ³	Week 11	0	0	0	0%
Vietnam ²	Week 12	27	0	27	100%
Total		65	1	65	100%

1. Ministry of Health, Republic of Indonesia
 2. Bluedot Platform, accessed April 2, 2024 (<https://portal.bluedot.global/>)
 3. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 2, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **one** new rabies case in Indonesia since the previous report. The region reported **65** total cases with **100%** CFR.



Media Monitoring for Zoonosis

Epidemiological Week 13 | March 24 – 30, 2024

Regional Situation for Zoonosis

Anthrax

- **Lao PDR:** Ministry of Health has urged local authorities to be alert after 54 anthrax cases were reported in two districts in the southern Champasak province (Xinhua, 2024). High-risk areas will be zoned off, and some abattoirs have been banned from slaughtering cattle and buffalo. Livestock owners are advised to closely monitor their animals for anthrax symptoms, and local authorities are tasked with disinfecting affected areas. The district agricultural department has also issued a notice urging not to trade animals or animal products outside the district. [[Full article](#)]

Avian Influenza

- **Vietnam:** A 21-year-old man infected with avian influenza A (H5) died in Vietnam after 8 days of treatment (Baomoi, 2024). The cause of the death is unknown. The patient had symptoms starting on March 11 and was diagnosed with acute pharyngitis-laryngitis. He refused hospitalization and sought outpatient treatment. The patient was later transferred to Khanh Hoa Provincial General Hospital, where he was isolated in a coma with near-zero blood pressure and mechanical ventilation. The source of the infection is unknown. The hospital is sprayed with disinfectant chemicals to ensure public health. [[Full article](#)]

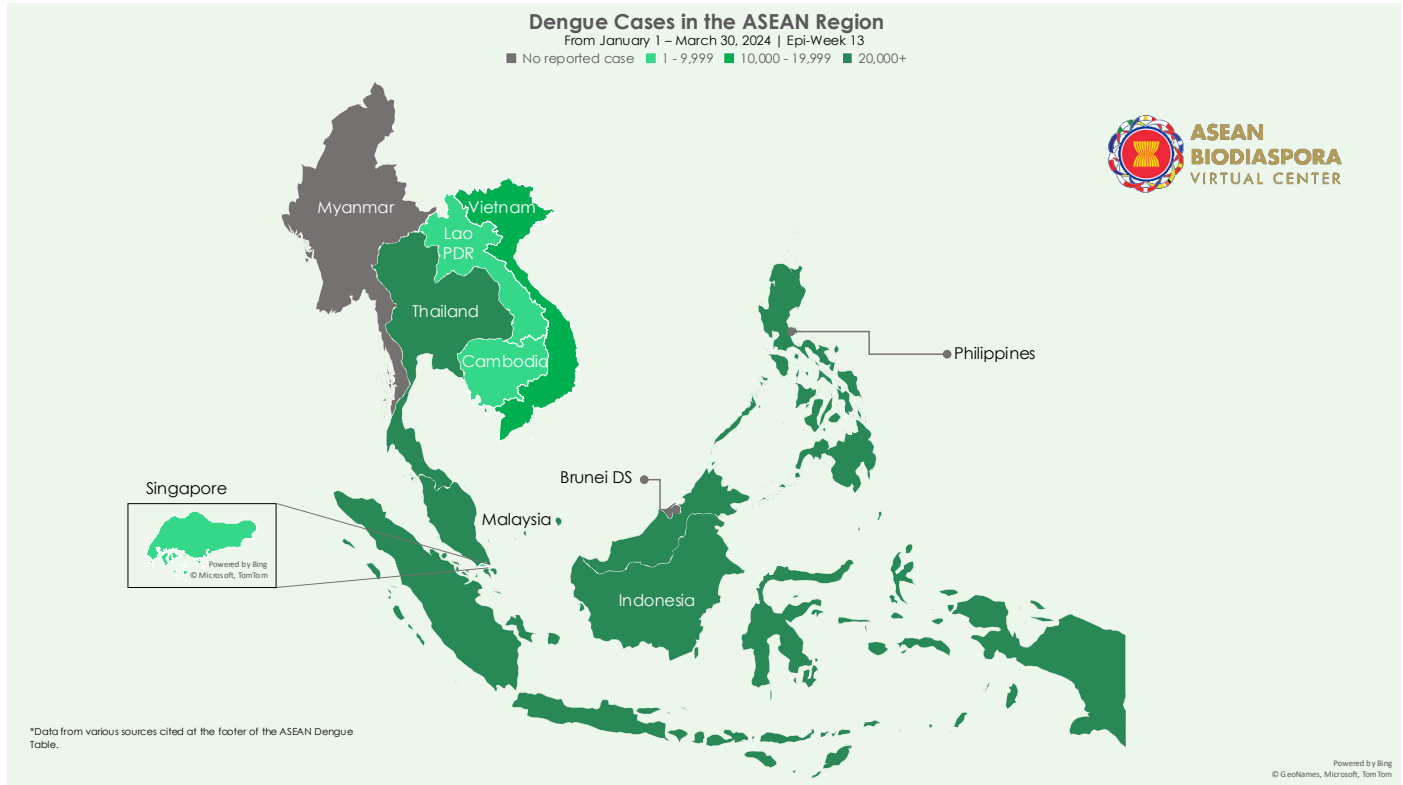
Rabies

- **Indonesia:** East Nusa Tenggara Province in Indonesia is facing a rabies emergency, with 46 deaths reported from May 2023 to March 2024 (Rambu, 2024). Head of the Animal Health and Veterinary Public Health Division of the East Nusa Tenggara Provincial Animal Husbandry Office, warns that the situation could escalate to a time bomb if not handled well. In 2023, there were 39 cases, while in 2024, there are 7 cases. Head of the Animal Health and Veterinary Public Health Division of the East Nusa Tenggara Provincial Animal Husbandry Office, also noted that Flores Island has been dealing with rabies cases for 26 years. Since the first case occurred in May 2023, all districts on Timor Island have been infected with the virus, except Kupang District. He emphasized the need for rapid vaccination of dogs to prevent further human cases and spread to Timor Leste. [[Full article](#)]
- **The Philippines:** The Department of Health's Center for Health Development in Bicol has reported 12 rabies deaths in the first quarter of 2024, a 100% increase from the previous year (Barcia, R. 2024). Among the six provinces of Bicol, Albay has the highest number of cases with six while Camarines Norte, Sorsogon, and Camarines Sur have two recorded cases each. The Department of Health is urging the public to have their pets vaccinated for rabies at Animal Bite Treatment Centers or private animal clinics. Rabies is a viral infection that targets human nerves. [[Full article](#)]

VECTOR-BORNE DISEASES

Dengue Cases in the ASEAN Region

From January 1 to March 30, 2024 (Epi-Week 13)



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 11	4,113	538	13	3	0.32%
Indonesia ^{2*}	Week 10	27,417	0	250	0	0.91%
Lao PDR ¹	Week 11	1,499	170	0	0	0.00%
Malaysia ³	Week 12	41,565	3,041	28	4	0.07%
Myanmar	-	-	-	-	-	-
Philippines ⁴	Week 11	21,069	336	67	1	0.32%
Singapore ^{5**}	Week 11	4,499	0	0	0	0.00%
Thailand ^{6***}	Week 11	22,544	1,575	21	3	0.09%
Vietnam ¹	Week 11	12,937	842	0	0	0.00%
Total		135,643	6,502	379	11	0.28%

1. WHO WPRO, "Dengue," World Health Organization, accessed April 02, 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 April 02, 2024. https://www.moh.gov.my/index.php/database_stores/store_view/17
 4. Bluedot Developer Portal, accessed April 02, 2024. <https://developer-portal.bluedot.global/>.
 5. Ministry of Health. "Weekly Infectious Disease Bulletin", accessed April 02, 2024. <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2024/weekly-infectious-diseases-bulletin>
 6. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 02, 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.
 *Notified dengue cases only includes severe cases Dengue Hemorrhagic fever (DHF) and Dengue Shock Syndrome (DSS)
 **Notified dengue cases only includes Dengue Fever (DF) and DHF
 ***Notified dengue cases include all type of cases DF, DHF, and DSS

- The **ASEAN** region reported **6,502** new dengue cases in Cambodia, Lao PDR, Malaysia, the Philippines, Thailand, and Vietnam. The region reported **135,643** total cases with **0.28%** CFR.

Malaria Cases in the ASEAN Region

From January 1 to March 30, 2024 (Epi-Week 13)



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	-	-	-	-	-
Indonesia¹	Week 13	709	34	2	0.28%
Lao PDR	-	-	-	-	-
Malaysia¹	Week 10	2	0	0	0.00%
Myanmar¹	-	-	-	-	0.00%
Philippines¹	Week 6	2	0	0	0.00%
Singapore³	Week 11	5	0	0	0.00%
Thailand²	Week 11	487	48	0	0.00%
Vietnam¹	Week 11	1	0	0	0.00%
Total		1,206	82	2	0.17%

1. Bluedot Platform, accessed April 02, 2024 (<https://portal.bluedot.global/>)
 2. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health Thailand, accessed April 02, 2024 (<http://doe.moph.go.th/surdata/index.php>)
 3. Ministry of Health Singapore, accessed April 02, 2024 (<https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>)

- The **ASEAN** region reported **82** new malaria cases in Indonesia and Thailand since the previous report. The region reported **1,206** total cases with **0.17%** CFR.

Media Monitoring for Vector-borne Diseases

Epidemiological Week 13 | March 24 – 30, 2024

Global Situation for Vector-borne Diseases

Dengue

- **Bangladesh:** Dengue fever has caused 22 deaths this year, with 11 people admitted to hospitals (Pratidin, 2024). From January 1 to March 24, 1,631 people contracted dengue, with 769 Dhaka residents and 862 outside Dhaka. In 2023, the country had the highest number of dengue cases and deaths, with 1,705 deaths. In 2022, 281 people died and 62,000 people were admitted to hospitals due to dengue. [\[Full article\]](#)

Regional Situation for Vector-borne Diseases

Dengue

- **Indonesia:** In March 2024, 16 people died from dengue hemorrhagic fever (DHF) in Banten Province, an increase from the previous month (Muntaha, 2024). The cases were spread across various districts and cities, with Serang City being the most affected. The total number of cases in Banten Province reached 3,801, with 131 cases in Serang Regency, 629 in Pandeglang, 1517 in Tangerang, and 949 in Lebak. [\[Full article\]](#)

Mimika District Hospital in Central Papua Province treated 209 cases of dengue hemorrhagic fever (DHF) from January to March 2024 (FP, 2024). The doctor reported one child death from the 209 cases. As of today, there are four children and one adult patient at Mimika Regional Hospital. He expects an increase in cases in early 2024, but hopes for a decrease. One child patient died in January 2024 due to dengue fever. [\[Full article\]](#)

Leptospirosis

- **Indonesia:** Leptospirosis cases in Sleman District reached eight people by mid-March 2024, with three others suspected (Syarifudin, 2024). One person died from the disease at the beginning of the year. The Sleman District Health Office reported eight cases, three suspected, and one death. The disease was spread through various locations, including Kapanewon Moyudan, Gamping, Tempel, and Pakem. To prevent further cases, the Head of the Disease Prevention and Control Division of the Sleman District Health Office urged the public to keep the environment clean and use personal protective equipment when working. [\[Full article\]](#)

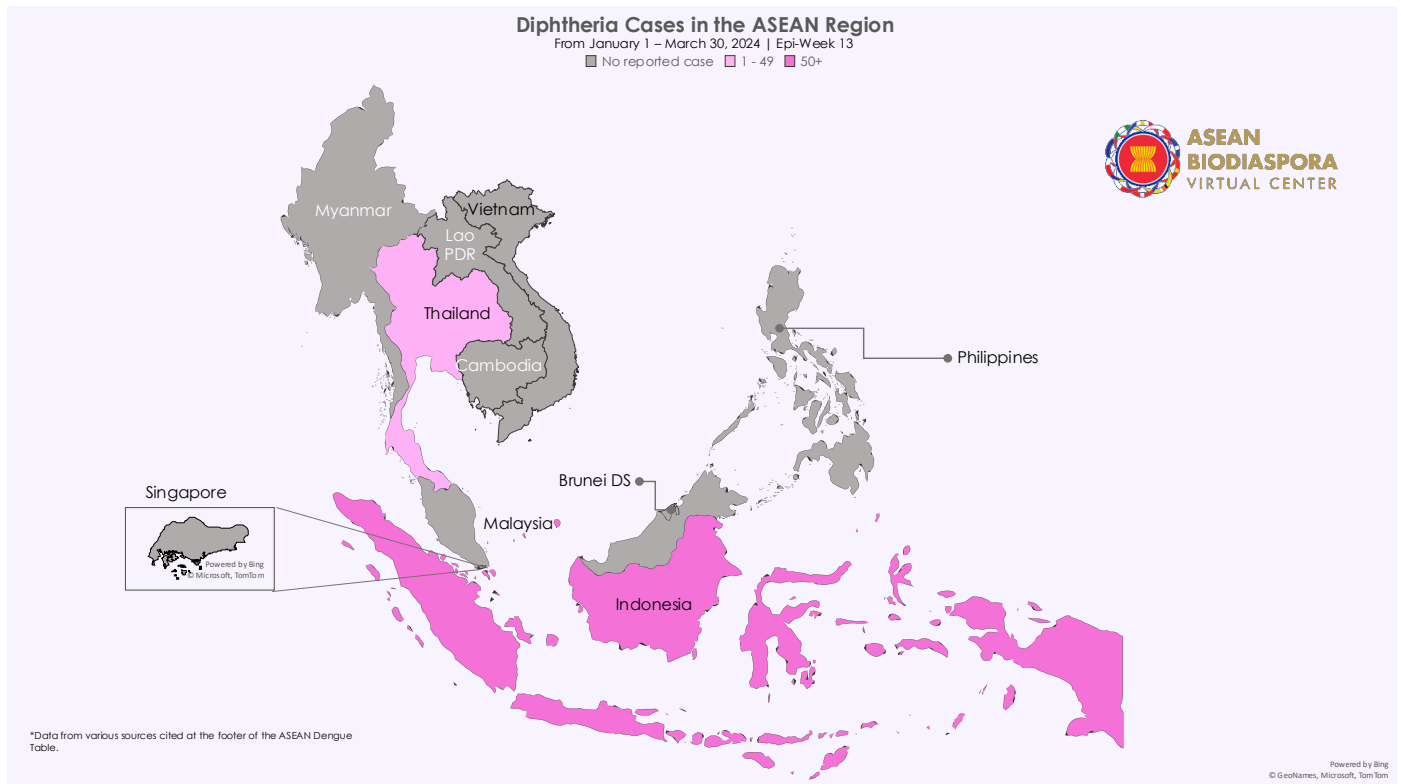
Malaria

- **Indonesia:** Dozens of residents from six villages in Simuk Sub-District, South Nias District have tested positive for malaria, with two of the 34 people who tested positive dying (Waspada, 2024). The Head of South Nias District Health Office confirmed that six villages are currently affected by malaria symptoms. The malaria outbreak has been ongoing for about three weeks, but the number of people infected has been increasing day by day. [\[Full article\]](#)

VACCINE-PREVENTABLE DISEASES

Diphtheria Cases in the ASEAN Region

From January 1 to March 30, 2024 (Epi-Week 13)



Diphtheria cases in the ASEAN region

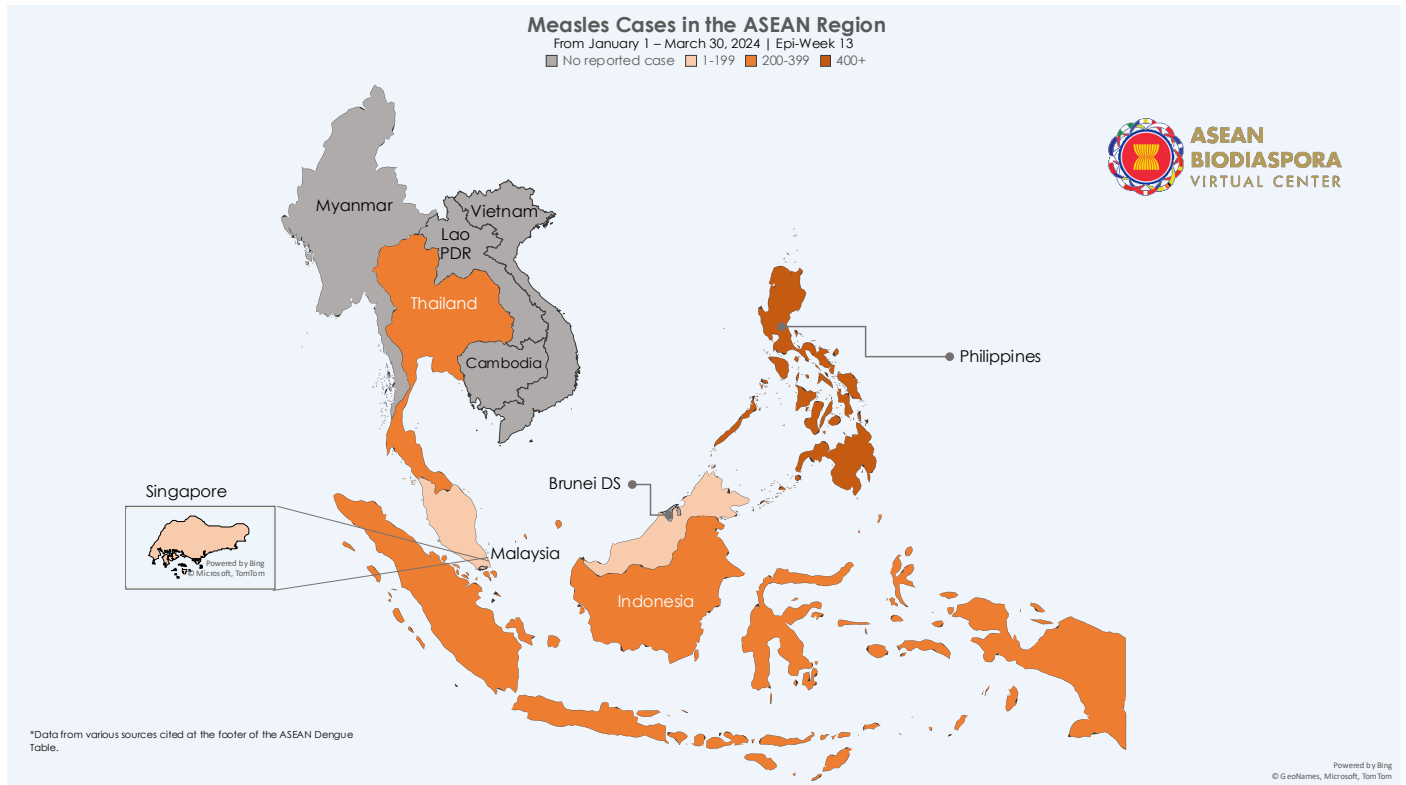
Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Cumulative Deaths	CFR
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 12	168	3	7	4.17%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	-	-	-	-	-
Singapore ³	Week 11	0	0	0	0.00%
Thailand ⁴	Week 11	1	0	0	0.00%
Vietnam ⁵	-	-	-	-	-
Total		169	3	7	4.14%

1. Ministry of Health, Republic of Indonesia.
2. Department of Health Website, accessed April 02, 2024 "Statistics" (<https://doh.gov.ph/statistics>)
3. Ministry of Health Singapore, accessed April 02, 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 April 02, 2024 (<http://doe.moph.go.th/surdata/index.php>)
5. BlueDot Platform, accessed April 02, 2024 (<https://developer-portal.bluedot.global/>)

- The ASEAN region reported **3** new diphtheria cases in Indonesia since the previous report. The region reported **169** total cases with **4.14%** CFR.

Measles Cases in the ASEAN Region

From January 1 to March 30, 2024 (Epi-Week 13)



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 12	377	55	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ²	Week 11	34	0	0	0.00%
Myanmar	-	-	-	-	-
Philippines ²	Week 12	600	-	3	0.50%
Singapore ⁴	Week 11	1	0	0	0.00%
Thailand ⁵	Week 11	342	60	0	0.00%
Vietnam	-	-	-	-	-
Total		1,354	115	3	0.22%

1. Ministry of Health, Republic of Indonesia
2. Bluedot Platform, accessed April 02, 2024 (<https://developer-portal.bluedot.global/>)
3. Ministry of Health Singapore, accessed April 02, 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 April 02, 2024 (<http://doe.moph.go.th/surdata/index.php>)

- The **ASEAN** region reported **115** new measles cases in Indonesia and Thailand since the previous report. The region reported **1,354** total cases with **0.22%** CFR.



Media Monitoring for Vaccine-Preventable Diseases

Epidemiological Week 13 | March 24 – 30, 2024

Global Situation for Vaccine-Preventable Diseases

Measles

- **Australia:** A baby in Adelaide has been found to be in stable condition after contracting measles (ABC News, 2024). The baby, from metropolitan South Australia (SA), had recently returned from overseas but was not infectious during the flight to Australia. SA Health has issued an alert for public locations around Adelaide, advising people who are not fully immunised to be alert for symptoms over the next few weeks. The baby was in public locations across Adelaide's Central Business District (CBD) and suburbs between March 15 and March 23. It has also been at a winery in McLaren Vale on March 16. Symptoms of measles include fever, cough, runny nose, sore eyes, and a blotchy rash. Most measles cases in Australia occur in overseas visitors and returning residents who did not have two doses of the measles vaccine. [\[Full article\]](#)
- **Canada** has seen a rise in measles cases in the first months of 2024 (Toronto Star, 2024). By the third week of March, the country had already recorded more than three times the number of cases as all of last year. Canada had just 12 cases of measles in 2023, up from three in 2022. Public health leaders are expecting more cases in the coming months, urging people to be fully vaccinated. [\[Full article\]](#)
- **Italy:** Head of Infectious Diseases at San Martino polyclinic in Genoa, reports a progressively increasing number of measles cases among adults in Liguria (Mazzeo, 2024). In Genoa, five cases in 7 days among unvaccinated individuals can lead to serious complications, and outbreaks are expected in the coming months. [\[Full article\]](#)
- **Japan:** Japan has confirmed at least 20 highly contagious measles cases this year, mainly among travelers abroad, due to a global outbreak (Shimbun, 2024). This number exceeds two-thirds of last year's total, raising concerns about the disease's spread. The World Health Organization (WHO) confirmed Japan's measles elimination in 2015, but since then, infections have been caused by overseas transmission. As of March 22, there have been 20 cases in eight prefectures. [\[Full article\]](#)
- **Netherlands:** Eindhoven and the surrounding area have measles cases slightly increased from March 21 to 28, with all cases traced back to the local outbreak (ANP, 2024). Unvaccinated children, particularly those aged 5 years and two adults, have contracted the virus. Most have recovered, but no one is in serious condition. [\[Full article\]](#)
- The **United States (US):** Chicago has confirmed 33 cases of measles in the city, with one cluster in a shelter for migrants (Goldhamer, 2024). However, social media claims that new arrivals are refusing to get vaccinated against the highly contagious virus are false. Local officials say inoculation or proof of prior immunity is required for temporary housing, and those living in the affected facility agreed to the job when offered. The city has welcomed over 37,000 new arrivals from the US-Mexico border since August 2022. Jacob Martin, public information coordinator for the CDPH, said new arrivals did not bring measles to the city and is treating vaccination as a requirement for shelter admission. [\[Full article\]](#)
- **Ukraine:** The Ministry of Health Ukraine reported 1,407 measles cases in a week, with 756 children affected (TV and radio company Gomel, 2024). Since the start of the year, 15,261 people have been affected, with six children and two adults died from complications. [\[Full article\]](#)



Pertussis

- **Kazakhstan:** Ministry of Health reports an unfavorable epidemiological situation with 392 cases registered among children under 14, 90% of whom are under 5 (Serdalina, 2024). The increase in the disease is linked to a decrease in collective immunity and emphasizes the need for vaccination. Whooping cough can lead to complications like pneumonia and brain damage, and no specific medications are available. [[Full article](#)]
- **Spain:** Navarra is experiencing a "wide circulation" of whooping cough, with 49 confirmed cases in 2024 (Cope, 2024). The incidence of pneumonia remains high, with 537 cases per 100,000 inhabitants. The flu virus has caused hospital admissions, with influenza A(H3N2) predominating. COVID-19 and respiratory syncytial virus circulation remain low, with one hospital admission. Pneumonia incidence remains high, with pneumococcus and Mycoplasma pneumoniae confirmed. In the week of March 11-17, 119 deaths were recorded, remaining at average values. [[Full article](#)]
- The **United States (US):** A whooping cough outbreak has affected southern Marin, including Tamalpais High School in Mill Valley (Brenner, K., 2024). The Marin Public Health Division reported 93 cases since mid-December, with 65 at the high school. Whooping cough, also known as pertussis, is a highly contagious, vaccine-preventable bacterial respiratory infection that spreads through droplets in the air. Symptoms can start like a common cold, and infected people develop a severe cough lasting weeks or months. [[Full article](#)]

Regional Situation for Vaccine-Preventable Diseases

Measles

- **Vietnam:** The first 13 cases of the measles virus in Ha Tinh, Vietnam, were detected on March 28 (Nam, 2024). The first cluster of cases was found in Duc Tho district, with no serious cases. The 13 patients, aged 6-9 months, were hospitalized for treatment and were treated with fluids, antibiotics, fever reducers, and expectorants. The district health center has implemented epidemic prevention measures in affected areas and schools. The measles epidemic began on March 6 at Duc Tho Town Primary School and Duc Yen Primary School, and has spread rapidly. The Ha Tinh Center for Disease Control is coordinating with district authorities to promote and advise against negligence in preventing and fighting measles and other diseases. [[Full article](#)]

Pertussis

- The **Philippines:** The Department of Health in Central Visayas has warned the public about the increasing number of pertussis cases, which have already killed six infants (Saavedra, J., 2024). There are 42 confirmed cases and 115 suspected cases. The Head of the Regional Epidemiology and Surveillance Unit advised the public to observe good respiratory hygiene, avoid close contact with infected persons, and ensure family members are up-to-date on pertussis vaccinations. [[Full article](#)]



Media Monitoring for Other Diseases

Epidemiological Week 13 | March 24 – 30, 2024

Regional Situation for Other Diseases

Hand, Foot, and Mouth Disease (HFMD)

- **Indonesia:** Singapore flu, also known as Hand, Foot, and Mouth Disease (HFMD), is a growing concern in Indonesia (Rahmadania, 2024). In the 11th week of 2024, the Indonesian Ministry of Health reported over 5,000 patients infected with the disease, with 738 cases recorded in Banten province. The disease can affect both children and adults, with the most common cases occurring in children. The most common type of Singapore flu is the Coxsackievirus strain, A16. The term "Singapore flu" is a general term for HFMD, not related to the influenza virus. In Depok province, 14 suspected cases were reported, with 10 being treated at one hospital. The disease is generally caused by the coxsackievirus strain, with rare cases of Enterovirus 71 or EV-A71. [\[Full article\]](#)



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

Epidemiological Week 13 | From January 1 to March 30, 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	82,029	77	0.10%	-	-	-	Rabies-free Country			-	-	-
Cambodia	662	0	0%	13	0	0%	-	-	-	4,113	13	0.32%
Indonesia	117,459	1,451	1.26%	85	0	0%	20	20	100%	27,417	250	0.91%
Lao PDR	1,376	87	6.55%	1	0	0%	-	-	-	1,499	0	0%
Malaysia	258,585	491	0.20%	9	0	0%	3	3	100%	41,565	28	0.06%
Myanmar	8,298	5	0.06%	-	-	-	-	-	-	-	-	-
Philippines	141,371	1,467	1.04%	5	0	0%	15	15	100%	21,069	67	0.32%
Singapore	819,481	313	0.04%	38	0	0%	Rabies-free Country			4,499	0	0%
Thailand	50,369	912	1.98%	731	1	0.14%	0	0	0%	22,544	21	0.09%
Vietnam	101,828	20	0.02%	155	7	4.52%	27	27	100%	12,937	0	0.00%
ASEAN Region	1,580,375	4,823	0.31%	1,036	8	0.77%	65	65	100%	135,643	379	0.28%

Infectious Diseases	Malaria			Measles			Diphtheria		
	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR	Cum. Cases	Cum. Deaths	CFR
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-
Indonesia	709	2	0.28%	377	55	0%	168	7	4.17%
Lao PDR	-	-	-	-	-	-	-	-	-
Malaysia	2	0	0%	34	0	0%	-	-	-
Myanmar	-	-	-	-	-	-	-	-	-
Philippines	2	0	0%	600	3	0.50%	-	-	-
Singapore	5	0	0%	1	0	0%	0	0	0%
Thailand	487	0	0%	342	0	0%	1	0	0%
Vietnam	1	0	0%	-	-	-	-	-	-
ASEAN Region	1,206	2	0.17%	1,354	3	0.22%	169	7	4.14%



References

- ABC News (2024) SA Health Issues Alert after baby contracts measles, ABC News. Available at: <https://www.abc.net.au/news/2024-03-24/sa-measles-case-in-baby/103625296> (Accessed: 25 March 2024).
- ABC7 Chicago (2024) Measles case confirmed in Lake County, Illinois: Health Department, ABC7 Chicago. Available at: <https://abc7chicago.com/what-is-measles-outbreak-lake-county-illinois-chicago/14562306/> (Accessed: 25 March 2024).
- Ajttv.com (2024) Kabid P2P Dinkes Tulungagung : Leptospirosis penyakit disebabkan bakteri leptospira interrogans, AJTTV.COM. Available at: <https://ajttv.com/kabar-daerah/kabid-p2p-dinkes-tulungagung-leptospirosis-penyakit-disebabkan-bakteri-leptospira-interrogans/> (Accessed: 27 March 2024).
- ANP (2024) Aantal Mazelenbesmettingen Eindhoven Stijgt Licht verder, naar 28, RTL Nieuws. Available at: <https://www.rtlnieuws.nl/nieuws/nederland/artikel/5442123/aantal-mazelenbesmettingen-eindhoven-stijgt-licht-verder-naar-28> (Accessed: 27 March 2024).
- Barcia, R. (2024) Doh Bicol Records 12 deaths due to rabies, The Manila Times. Available at: <https://www.manilatimes.net/2024/03/22/region/s/doh-bicol-records-12-deaths-due-to-rabies/1937904> (Accessed: 25 March 2024).
- Baomoi (2024) A patient with influenza a/h5 in Khanh Hoa has DIED, <https://baomoi.com>. Available at: <https://baomoi.com/benh-nhan-mac-cum-a-h5-o-khanh-hoa-da-tu-vong-c48640619.epi> (Accessed: 25 March 2024).
- Brenner, K. (2024) Bay Area County health officials report whooping cough spike, The Mercury News. Available at: <https://www.mercurynews.com/2024/03/26/marin-health-officials-report-whooping-cough-spike/> (Accessed: 27 March 2024).
- Cope (2024) Navarra Registra Una 'amplia circulación' de tos ferina y la incidencia de la neumonía se mantiene en 'Niveles Altos', COPE. Available at: https://www.cope.es/actualidad/espasa/noticias/navarra-registra-una-amplia-circulacion-tos-ferina-incidencia-neumonia-mantiene-niveles-altos-20240328_3220514 (Accessed: 29 March 2024).
- Darwati, E. (2024) Kasus dbd di salatiga naik, Korban meninggal dua Orang Hingga Maret, Solopos.com. Available at: <https://jateng.solopos.com/kasus-dbd-di-salatiga-naik-korban-meninggal-dua-orang-hingga-maret-1892396> (Accessed: 29 March 2024).
- Fitrat, I. (2024) Tiga Bulan Terdata 70 kasus dbd di Sleman, Satu Orang meninggal, Republika Online. Available at: <https://rejojja.republika.co.id/berita/say8r5432/tiga-bulan-terdata-70-kasus-dbd-di-sleman-satu-orang-meninggal> (Accessed: 27 March 2024).
- FP, R. (2024) Triwulan Pertama Tahun 2024, RSUD Mimika Tangani 209 kasus demam berdarah dengue, Fajar Papua. Available at: <https://fajarpapua.com/2024/03/24/triwulan-pertama-tahun-2024-rsud-mimika-tangani-209-kasus-demam-berdarah-dengue/> (Accessed: 25 March 2024).
- Goldhamer, M. (2024) Chicago measles outbreak fuels misinformation about migrants, Yahoo! News. Available at: <https://www.yahoo.com/news/chicago-measles-outbreak-fuels-misinformation-205313173.html> (Accessed: 29 March 2024).
- Hernandez, C. (2024) Chicago health officials announce new policy to slow measles outbreak, NBC Chicago. Available at: <https://www.nbcchicago.com/news/local/chicago-health-officials-announce-new-policy-to-slow-measles-outbreak/3393627/> (Accessed: 27 March 2024).
- Latin Time (2024) Aumentan Casos de Mpox, Conocida Antes Como Viruela del Mono, en virginia, Tiempo Latino. Available at: <https://eltiempolatino.com/2024/03/26/noticias-locales/dc-dmv/aumentan-casos-de-mpox-conocida-antes-como-viruela-del-mono-en-virginia/> (Accessed: 27 March 2024).
- MacKinnon, B.-J. (2024) 3 more Covid deaths in New Brunswick, 4 youth among flu hospitalizations | CBC News, CBCnews. Available at: <https://www.cbc.ca/news/canada/new-brunswick/covid-19-new-brunswick-deaths-hospitalizations-march-16-respiratory-watch-report-1.7155553> (Accessed: 27 March 2024).
- Mazzeo, G. (2024) Morbillo Tra Gli adulti Anche in Italia: Bassetti: 'A genova 5 casi in 7 giorni: Complicanze sono gravi', Zazoom Social News. Available at: <https://www.zazoom.it/2024-03-28/morbillo-tra-gli-adulti-anche-in-italia-bassetti-a-genova-5-casi-in-7-giorni-complicanze-sono-gravi/14504285/> (Accessed: 29 March 2024).
- Mediatama, G. (2024) Kondisi Luar Biasa DBD Terjadi di Beberapa Daerah, Harus Ada Pencegahan Yang Inovatif, kontan.co.id. Available at: <https://nasional.kontan.co.id/news/kondisi-luar-biasa-dbd-terjadi-di-beberapa-daerah-harus-ada-pencegahan-yang-inovatif> (Accessed: 29 March 2024).
- Muntaha, I. (2024) Kematian Akibat dbd di provinsi Banten Bertambah, Dewan Minta Rumah Sakit Disiagakan, Kabar Banten. Available at: <https://kabarbanten.pikiran-rakyat.com/seputar-banten/pr-597889501/kematian-akibat-dbd-di-provinsi-banten-bertambah-dewan-minta-rumah-sakit-disiagakan> (Accessed: 27 March 2024).
- Nam, H. (2024) HA Tinh Recorded the first cluster of measles cases, Báo điện tử Tiền Phong. Available at: <https://tienphong.vn/ha-tinh-ghi-nhan-chum-ca-benh-soi-dau-tien-post1624268.tpo> (Accessed: 29 March 2024).
- Online Desk (2024) ২৪ ঘণ্টায় ডেঙ্গুতে আক্রান্ত হওয়া হাসপাতালে ৪, বাংলাদেশ প্রত্যাশিত. Available at: <https://www.bd-pratidin.com/dengue-update/2024/03/26/979658> (Accessed: 27 March 2024).



- Pratidin, B. (2024) *In 24 hours, 11 people were hospitalized with dengue*, বাংলাদেশ প্রতিদিন. Available at: <https://www.bd-pratidin.com/dengue-update/2024/03/24/979054> (Accessed: 25 March 2024).
- Punreay, H. (2024) *Health Ministry finds 14 cases of Mpox in young men - khmer times*, Khmer Times - Insight into Cambodia. Available at: <https://www.khmertimeskh.com/501461667/health-ministry-finds-14-cases-of-mpox-in-young-men/> (Accessed: 25 March 2024).
- Rambu, B. (2024) *NTT Darurat Rabies! 46 orang meninggal dalam 11 bulan, NTT DARURAT RABIES! 46 Orang Meninggal Dalam 11 Bulan - Victory News*. Available at: <https://www.victorynews.id/nasional/33112239447/ntt-darurat-rabies-46-orang-meninggal-dalam-11-bulan> (Accessed: 25 March 2024).
- Rahmadania, S.R. (2024) *Tembus 5 Ribu Kasus di Ri, waspadai penularan flu Singapura*, detikHealth. Available at: <https://health.detik.com/berita-detikhealth/d-7265527/tembus-5-ribu-kasus-di-ri-waspada-penularan-flu-singapura> (Accessed: 29 March 2024).
- Saavedra, J. (2024) *C. Visayas logs 42 pertussis cases, 6 infant deaths | philippine ...*, The Philippine News Agency. Available at: <https://www.pna.gov.ph/articles/1221578> (Accessed: 27 March 2024).
- Serdalina, A. (2024) *In Kazakhstan, almost 400 children fell ill with whooping cough*, Казинформ. Available at: <https://www.inform.kz/ru/v-kazahstane-pochti-400-detey-zaboleli-koklyushe-m-a04bf3> (Accessed: 25 March 2024).
- Shimbun, T.Y. (2024) *Measles infection surpass 20 cases as of March 22, more than two-thirds that of last year*, The Japan News by The Yomiuri Shimbun. Available at: <https://japannews.yomiuri.co.jp/society/general-news/20240324-176522/> (Accessed: 25 March 2024).
- Strokava, A. (2024) *Коклюш продолжает распространяться среди детей в Карагандинской области - Караганда Онлайн*, . Караганда Онлайн. Available at: https://ekaraganda.kz/?mod=news_read&id=138552 (Accessed: 29 March 2024).
- Syarifudin, A. (2024) *8 Warga Sleman Terpapar leptospirosis, 1 meninggal Dunia*, Tribunjogja.com. Available at: <https://jogja.tribunnews.com/2024/03/23/8-warga-sleman-terpapar-leptospirosis-1-meninggal-dunia> (Accessed: 25 March 2024).
- The Daily Observer (2024) *24 new covid cases reported in country -*, The Daily Observer. Available at: <https://www.observerbd.com/news.php?id=466002> (Accessed: 27 March 2024).
- The Daily Observer (2024) *16 new covid cases reported in country -*, The Daily Observer. Available at: <https://www.observerbd.com/news.php?id=466317> (Accessed: 29 March 2024).
- The National Tribune (2024) *South Australia covid update as at 29 March 2024*, The National Tribune. Available at: <https://www.nationaltribune.com.au/south-australia-covid-update-as-at-29-march-2024/> (Accessed: 29 March 2024).
- Toronto Star (2024) *We're tracking every measles case in Canada. use our tool to check the spread*, Toronto Star. Available at: https://www.thestar.com/news/canada/were-tracking-every-measles-case-in-canada-use-our-tool-to-check-the-spread/article_20aa7df4-e88f-11ee-8fad-8f8368d7ff53.html (Accessed: 27 March 2024).
- TV and radio company Gomel (2024) *Measles in Ukraine: more than 1.4 thousand people fell ill in a week*, TV and radio company Gomel. Available at: <https://tvrngomel.by/news/kor-v-ukraine-za-nedelyu-zaboleli-bolee-1-4-tys-chelovek-> (Accessed: 25 March 2024).
- Washington, J. (2024) *Ohio covid-19 cases down for 6th Straight Week: Coronavirus update for Thursday, March 28, 2024*, cleveland. Available at: <https://www.cleveland.com/metro/2024/03/ohio-covid-19-cases-down-for-6th-straight-week-coronavirus-update-for-thursday-march-28-2024.html> (Accessed: 29 March 2024).
- Waspada (2024) *Penyakit malaria Mewabah di Kecamatan Simuk, Nisel, 2 meninggal Dunia*, WASPADA. Available at: <https://www.waspada.id/sumut/penyakit-malaria-mewabah-di-kecamatan-simuk-nisel-2-meninggal-dunia/> (Accessed: 29 March 2024).
- Xinhua (2024) *Lao Health Ministry on major alert after 54 anthrax cases reported in South*, The Star. Available at: <https://www.thestar.com.my/aseanplus/aseanplus-news/2024/03/26/lao-health-ministry-on-major-alert-after-54-anthrax-cases-reported-in-south> (Accessed: 27 March 2024).