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# Morbidity and Mortality Weekly Report in the ASEAN Region

—— Infectious Diseases

September 11, 2023 | MMWR 2023-36  
Epidemiological Week 36



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Weekly Issue





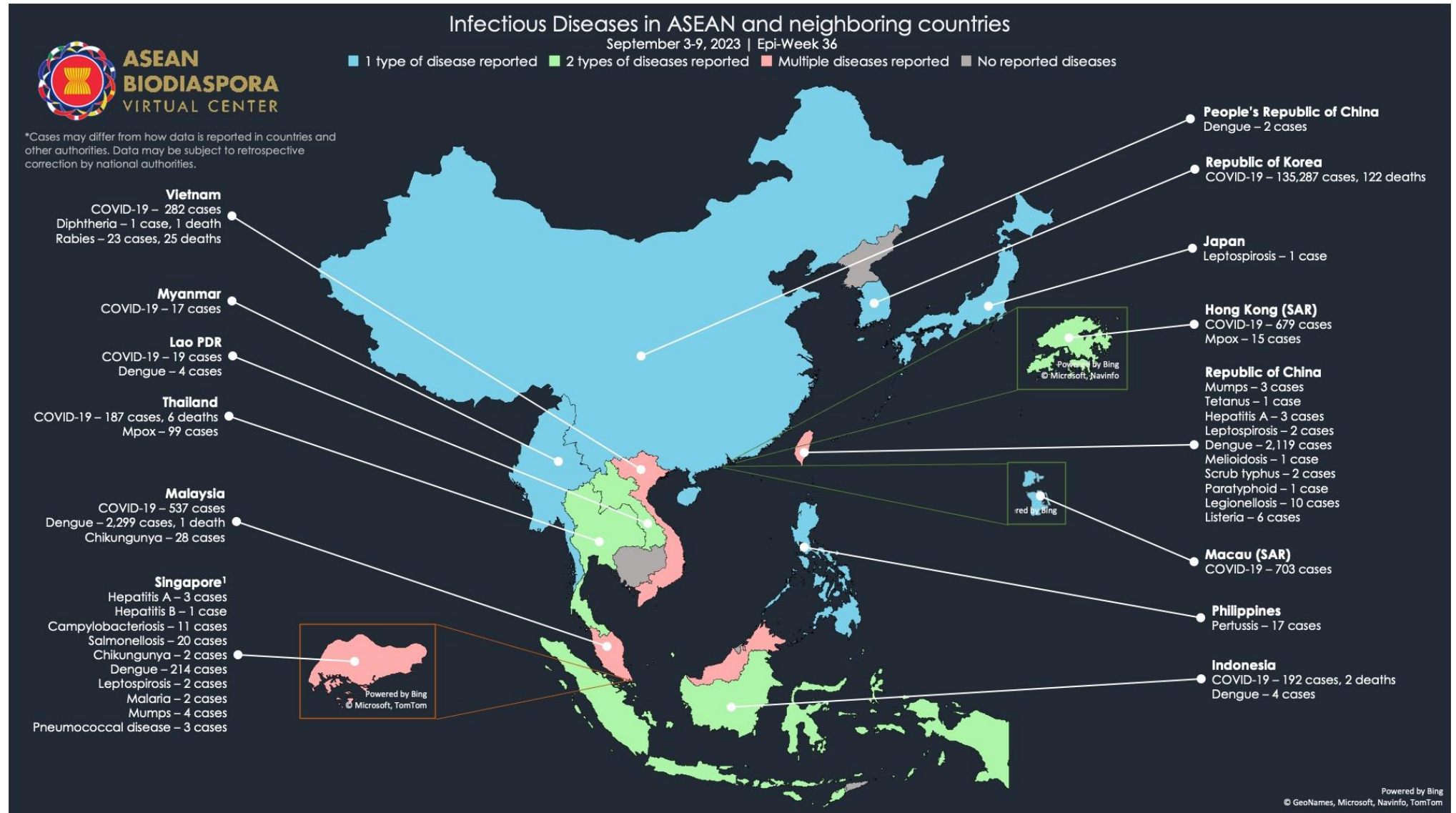
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# Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 36 | September 3-9, 2023



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>.





## Reported Infectious Diseases

Epidemiological Week 36 | September 3-9, 2023

### Infectious Disease Global Updates

#### Diphtheria

- Africa:** In Nigeria, a large outbreak has been reported, with 4,160 suspected cases and 1,534 confirmed cases (News Desk, 2023b). Despite the availability of a safe and cost-effective vaccine, 82% of confirmed cases are unvaccinated. In Guinea, an outbreak began on July 4, with 117 suspected cases and 37 deaths. Routine immunization coverage for the third dose of pentavalent vaccine was 47% in 2022, and even lower in the Kankan region. Algeria's Ministry of Health announced emergency measures to contain a diphtheria outbreak in the southern regions on August 3. Diphtheria vaccination is essential to protect against the disease, and individuals with an anti-diphtheria toxin antibody level of more than 0.1 IU/mL are considered fully protected. [\[Full article\]](#)

#### Measles

- Kyrgyzstan's** Ministry of Health reports a deteriorating measles and rubella outbreak since the beginning of the year (News Desk, 2023d). The first cases were reported in Bishkek city and Chui regions, and since then, it has spread to Osh city and Osh region, and 34 districts in five regions. As of August 21, 2023, 2,743 suspected cases were reported, with 1,774 classified as measles. Two measles deaths were reported, both unvaccinated. [\[Full article\]](#)
- Romania** is experiencing a measles outbreak, with 460 confirmed cases in 17 of 41 counties from October 2022 to July 2023 (News Desk, 2023e). The outbreak is due to genotype D8 and has not reported any deaths. The low cases could be attributed to COVID-19 restrictions. The median age of confirmed cases was 4 years, with 78% of them unvaccinated. Measles is highly infectious and can cause serious complications. The World Health Organization recommends 95% vaccination coverage for measles elimination. Low vaccination rates may be due to parents not vaccinating their children, decreased access to general practitioners, and the concentration of human resources in pandemic management. [\[Full article\]](#)
- USA:** A confirmed case of measles has been reported in McCulloch County, Texas, with no other risk factors identified (Press Release, 2023a). The virus is highly contagious and can be transmitted through direct contact with infectious droplets or airborne spread. The last confirmed case was in Hood County in June 2023. The last confirmed measles case in Texas was in June 2023. The best way to prevent measles is to be immunized with two doses of the measles-containing vaccine, which is recommended for children aged 12-15 months and 4-6 years. [\[Full article\]](#)
- Yemen:** Measles cases in Yemen have significantly increased in the first half of 2023, with nearly 4,000 patients receiving treatment in MSF-supported facilities compared to 2022 (Press Release, 2023b). The increase is attributed to a massive vaccination campaign in 2019, but also to the strain on already overloaded medical facilities. United Nations agencies have also highlighted the increase in vaccine-preventable diseases in Yemen, with over 22,000 measles cases recorded in 2022, including 161 deaths. In April, there were 16,114 cases, and cases of diphtheria and pertussis have also increased, with deaths from each disease. [\[Full article\]](#)



## Dengue

- Bangladesh** is facing its most severe dengue outbreak on record, with over 140,000 cases and 691 deaths recorded since the start of the year (News Desk, 2023f). The outbreak is putting immense pressure on the health system, with hospitals struggling to accommodate the large number of patients suffering from high fever, joint pain, and vomiting. The WHO is supporting authorities to strengthen surveillance, laboratory capacity, clinical management, vector control, risk communication, and community engagement. [\[Full article\]](#)
- Costa Rica:** The Ministry of Health in Costa Rica has issued a health alert due to a significant increase in dengue cases (News Desk, 2023a). From August 20 to 26, 8,261 cases were reported, a 42% increase from 2022. The highest number of cases were reported in Sarapiquí, Siquirres, Pococí, Puntarenas, Talamanca, and Limón. The Vice President and Minister of Health emphasizes the need to eliminate breeding sites to prevent the spread of the disease. The ministry is working on prevention through fumigation campaigns, tire collection, alliances with institutions, and interventions in priority areas. Key social actors, such as municipal governments, the Ministry of Public Education, community organizations, and the Costa Rican Social Security Fund, are also urged to join the efforts. [\[Full article\]](#)
- Italy** has reported 10 confirmed autochthonous dengue cases as of 4 September 2023, with all cases recovering or improving (News Desk, 2023c). This follows 122 cases diagnosed in Italy but contracted in other countries from the beginning of the year to 5 September. The situation is expected due to increased international travel and favorable climatic conditions for the tiger mosquito, *Aedes albopictus*. Disinfestation measures were implemented in all cases, and preventive measures were activated in areas where local transmission occurred. Dengue is caused by four similar viruses and is transmitted by mosquito bites. Symptoms include fever, headaches, joint pain, nausea, vomiting, and skin irritations. Diagnosis is based on symptoms, but can be more accurate by looking for the virus or specific antibodies in blood samples. [\[Full article\]](#)

## Rabies

- India:** Over 25 dog bites were reported in Ghaziabad, Uttar Pradesh, on 9th September, with two victims in serious condition (OpIndia, 2023). The health department issued an advisory on what to do in case of a dog bite, with copies sent to government departments, MLCs, Village Chiefs, RWA, and NGOs. India has a serious problem of stray dogs attacking people, with several cases reported in September. CCTV footage showed stray dogs attacking a toddler, a 5-year-old girl, and a 14-year-old boy. A 70-year-old retired doctor was bitten to death by a pack of dogs while out on a morning walk, while strays killed a five-year-old girl in Agra and a 12-year-old boy in Bareilly in May. [\[Full article\]](#)

## Malaria

- USA:** Malaria was eliminated as a public health threat in the United States in the mid-1950s, and the World Health Organization certified the United States malaria-free in 1970 (CDC, 2023). Currently, approximately 2,000 cases of malaria are diagnosed in the United States annually, although most cases are imported from countries where malaria remains endemic. Eight cases of locally acquired, mosquito-transmitted (i.e., autochthonous) *Plasmodium vivax* malaria, which has not been reported in the United States since 2003, were reported to CDC from state health departments in Florida and Texas during May 18–July 17, 2023. As of August 4, 2023, case surveillance, mosquito surveillance and control activities, and public outreach and education activities continue in both states. U.S. clinicians need to consider a malaria diagnosis in patients with unexplained fever, especially in areas where autochthonous malaria has been recently reported, although the risk for autochthonous malaria in the United States



remains very low. CDC Morbidity and Mortality Weekly Report Weekly / Vol. 72 / No. 36 September 8, 2023. [\[Full article\]](#)

### **Vibrio vulnificus**

- USA:** The Galveston County Health District, Texas, regrets to inform residents of a death due to *Vibrio vulnificus* (*V. vulnificus*). *Vibrio* is a bacterium that naturally lives in coastal waters, including warm, salt water and brackish water, which is a mixture of salt water and fresh water (Bactiman63, 2023). Individuals get infected with *Vibrio* by consuming raw or undercooked shellfish, particularly oysters. Some get infected through exposure to salt water or brackish water through an open wound. *Vibrio* infections are rare and usually occur in people who have underlying health conditions including such as liver disease, immunosuppression, or diabetes. Because of unusually warm ocean temperatures this year, the number of *vibrio* infections in the United States is increasing. On Friday, September 1, The Centers for Disease Control and Prevention (CDC) issued a Public Health Alert Network (HAN) Health Advisory to notify the public, laboratories, and public health departments about the recent reports of fatal infections, including wound and foodborne infections. [\[Full article\]](#)

### **H5N1 Avian Influenza**

- USA:** The U.S. Department of Agriculture's National Veterinary Services Laboratories has confirmed that three adult harbor seals in Puget Sound have tested positive for the Highly Pathogenic Avian Influenza H5N1 strain (Bactiman63, 2023). The seals stranded on Marrowstone Island on August 18 and 25. This confirms initial testing by the Washington Animal Disease Diagnostic Laboratory, which indicated the presence of H5N1 in these seals. No seal pups have tested positive. This marks the first incidence of HPAI in marine mammals on the West Coast. This discovery follows an ongoing HPAI outbreak affecting seabirds on Rat Island and Marrowstone Island since mid-summer. The outbreak resulted in the death of approximately 1,700 birds. The Islands are next to each other in the northern portion of Puget Sound, Washington. Fort Flagler State Park is on the northern tip of Marrowstone Island. Puget Sound harbor seal populations number in the many thousands and are considered healthy. The disease is not expected to affect the species at a population level. "The discovery of HPAI H5N1 in seals brings to light the potential for cross-species transmission and highlights the complexity of managing infectious diseases in wildlife populations," says Kristin Wilkinson, NOAA Fisheries' Regional Stranding and Entanglement Coordinator. "As the investigation continues, the collaboration among agencies remains essential to understanding and addressing this situation." Seals have been diagnosed with influenza before. In the late 1970s, the virus was detected in harbor seals in the Northeast United States, and again in the early 1980s. In the early 1990s, several seals died of pneumonia in Cape Cod, Massachusetts. Outside of the United States, the disease has been found in dead seals in Canada, Russia, the United Kingdom and several countries in South America. [\[Full article\]](#)

### **Escherichia coli**

- Canada:** An *E. coli* outbreak has been declared for six locations of a Calgary daycare and five additional sites that share a central kitchen (Bactiman63, 2023c). At this time, 17 lab-confirmed cases have been linked to the outbreak, as well as 12 individuals hospitalized, and up to 50 children presenting to hospital. [\[Full article\]](#)

### **Anthrax**

- Russia:** Seven people were hospitalized in the Voronezh region after another outbreak of anthrax was discovered in the village of Lebedinka, Bogucharsky district (News Desk, 2023i). Local officials say they are receiving treatment, their condition is stable and there





is no threat to life. On September 7, restrictive measures in connection with the identification of an anthrax outbreak were introduced on the pasture of a dairy farm (Badalova peasant farm) in Lebedinka. “On September 5, a man came to the hospital who cut his hand with a grinder. He was suspected of having anthrax, and specialists from Rospotrebnadzor, law enforcement agencies and the veterinary department went to the scene. The head of one dead animal was found and samples were taken from it. Yesterday they showed a positive result, after which quarantine measures were introduced in the Bogucharsky and part of the Kantemirovsky district,” said Deputy Chairman of the local government, Viktor Logvinov. According to the official, experts took samples from other livestock located on a farm owned by the Badalov peasant farm. To date, 61 samples have shown negative results for anthrax. Now law enforcement agencies are finding out where the farmer brought the cattle from. The man is cooperating with the investigation. Viktor Logvinov added that the animals were not vaccinated. [[Full article](#)]

### **Japanese encephalitis**

- **Republic of Korea:** The Korea Disease Control and Prevention Agency has confirmed the first suspected case of Japanese encephalitis (presumptive diagnosis) of the year (News Desk, 2023j). A nationwide alert was issued on July 27 by the Korea CDC. The patient is a man in his 60s living in Gangwon-do, who was hospitalized for symptoms such as fever and unconsciousness, and was confirmed to have no history of Japanese encephalitis vaccination. Through tests by the Gangwon-do Health and Environment Research Institute and the Korea Disease Control and Prevention Agency, the patient was diagnosed as a presumptive patient on September 5 as specific antibodies for Japanese encephalitis were detected in the cerebrospinal fluid of the acute stage, and confirmed diagnosis will be conducted later through convalescent serum. [[Full article](#)]

## **Infectious Disease Updates in the ASEAN Region**

### **Leptospirosis**

- The **Philippine** Department of Health (DOH) has advised the public against wading through floodwaters due to leptospirosis, citing a 52% increase from the 1,423 cases in 2022 (News Desk, 2023h). The incidence rate of leptospirosis per 100,000 population has risen to 1.97% from 1.29 in the same period last year. The number of deaths due to leptospirosis has also increased to 233 from 201 in 2022. Central Luzon recorded 328 cases, with other regions reporting similar numbers. [[Full article](#)]

# Vector-Borne Diseases



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# Dengue Cases in the ASEAN Region

From January 1 to September 9, 2023 (Epi-Week 36)



## Dengue cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Deaths	New Deaths	Case Fatality Rate (CFR)
<b>Brunei Darussalam</b>	-	-	-	-	-	-
<b>Cambodia<sup>5</sup></b>	Week 30	11,824	0	32	0	0.27%
<b>Indonesia<sup>6</sup></b>	Week 34	59,198	0	429	0	0.72%
<b>Lao PDR<sup>5</sup></b>	Week 31	16,413	0	12	0	0.07%
<b>Malaysia<sup>5</sup></b>	Week 31	71,193	0	49	0	0.07%
<b>Myanmar<sup>1</sup></b>	Week 28	6,685	0	30	0	0.45%
<b>Philippines<sup>3</sup></b>	Week 31	95,252	9,560	357	33	0.37%
<b>Singapore<sup>4</sup></b>	Week 35	6,167	212	0	0	0.00%
<b>Thailand<sup>2</sup></b>	Week 27	27,235	0	1	0	0.003%
<b>Vietnam<sup>5</sup></b>	Week 31	57,698	0	14	0	0.02%
<b>Total</b>		<b>351,665</b>	<b>9,772</b>	<b>924</b>	<b>33</b>	<b>0.26%</b>

1. BlueDot Developer Portal, accessed September 11, 2023, <https://developer-portal.bluedot.global/>.  
 2. Asian Dengue Voice and Action, "Asian Dengue Dashboard," accessed September 11, 2023, <https://www.adva.asia/asian-dengue-dashboard/>.  
 3. Department of Health Website, accessed September 11, 2023 "Statistics," August 5, 2023, <https://doh.gov.ph/statistics>.  
 4. National Environment Agency (NEA), accessed September 11, 2023. Dengue cases, September 2, 2023, <https://www.nea.gov.sg/dengue-zika/dengue/dengue-cases>.  
 5. WHO WPRO, "Dengue," World Health Organization, accessed September 11, 2023, <https://www.who.int/westernpacific/emergencies/surveillance/dengue>.  
 6. Ministry of Health Indonesia

\*Data were updated and collected from official sources, which may have a 2-6 weeks delay in reporting. Data must be interpreted cautiously.

- The ASEAN region reported **9,772** new dengue cases in the Philippines and Singapore since the previous report. The region reported **351,665** total cases and **924** total deaths in 2023 with **0.26%** CFR.



## Dengue

- Cambodia:** Dengue fever cases in Cambodia have reached 25,229, with 65 new cases reported in Vientiane province (Vientiane Times, 2023). The Ministry of Health blames the surge in cases on a lack of public awareness about precautionary measures to prevent mosquito bites. These measures include removing stagnant water, covering unused containers, flushing out water vessels, and cleaning areas around homes. The Food and Drug Department warns against self-medication, advising people not to buy remedies without a doctor's prescription. The Ministry of Health has attributed the surge in cases to a lack of public awareness about precautionary measures, such as covering unused containers and flushing out water vessels. [\[Full article\]](#)
- Indonesia:** Dengue hemorrhagic fever (DHF) continues to be a significant health concern in West Java, with a total of 11,076 cases recorded from January to August 2023 (Imran, 2023). The most severe cases occurred in Bandung City, with 1,281 cases, and the highest number of death cases in Karawang Regency. Five cities have high DHF case rates, with Bandung City having the most cases, resulting in six deaths. The trend of DHF cases reported in West Java from January to August 2023 tends to decrease, with the highest number of deaths occurring in February and June. The Ministry of Health issued a circular on Dengue Early Warning regarding El Niño-related climate change, predicting increased dengue cases and extraordinary events due to increased temperatures. Prevention efforts involve cleaning stagnant water environments and educating community groups and schoolchildren. High case rates are also observed in Bekasi city, Bogor Regency, and Depok City. Residents are advised to bring family members with fevers up to three days to a doctor for examination or rapid tests. [\[Full article\]](#)

Four residents in Pekon Luas, Batuketulis District, West Lampung were infected by dengue hemorrhagic fever in August (Eliyah, 2023). Three of the patients have recovered, while one is still recovering. An epidemiological investigation was conducted to identify mosquito larvae and prevent the spread. The Health Service was not found, but abate was spread in residents' water reservoirs. Residents are advised to implement clean living habits, eradicate mosquito nests, and use mosquito repellent. [\[Full article\]](#)

- Lao PDR:** Dengue fever cases in Laos reached 23,432 on Sunday, with 14 deaths reported nationwide (The Star Malaysia, 2023). Oudomxay province reported the highest number of cases this year at 4,508, followed by Khammouane at 3,330, Vientiane Capital at 2645, Luang Prabang at 2,566, and Savannakhet at 2,396. The number of cases has increased significantly in recent weeks, with the Ministry of Health attributed to factors like the start of the monsoon season and lack of public awareness. People with dengue may experience fever, headache, eye pain, muscle and joint pain, and rash. [\[Full article\]](#)
- Malaysia** has recorded one death due to dengue fever in the 34th epidemiological week, with a 4.3% rise in case numbers from 2,248 to 2,349 compared to the previous week (Borneo Bulletin, 2023). Cumulatively, there have been 78,227 cases, a 113.3% increase from 2022. There are 82 hotspot localities, with Selangor leading with 51 cases. Authorities have taken 2,114 blood and 167 urine samples as part of Zika surveillance measures. [\[Full article\]](#)

Johor has seen an increase in cumulative dengue cases this year, with 6,896 cases compared to 1,965 in the 2022 period (Musa, 2023). The state health and unity committee chairman, Ling Tian Soon, reported that 2,787 cases (40.4%) were epidemic locality cases, while 4,109 (59.6%) were non-epidemic locality cases. Johor Baru district had the highest number of cases, followed by Kulai, Kluang, Segamat, Kota Tinggi, Tangkak, Batu Pahat, Pontian, and Mersing. There were 11 cumulative deaths from ME01 to ME35 this year. The state recorded 400,895 cumulative cases as of September 2, 2023, with 397,834 local infections and 3,061 imported cases. [\[Full article\]](#)



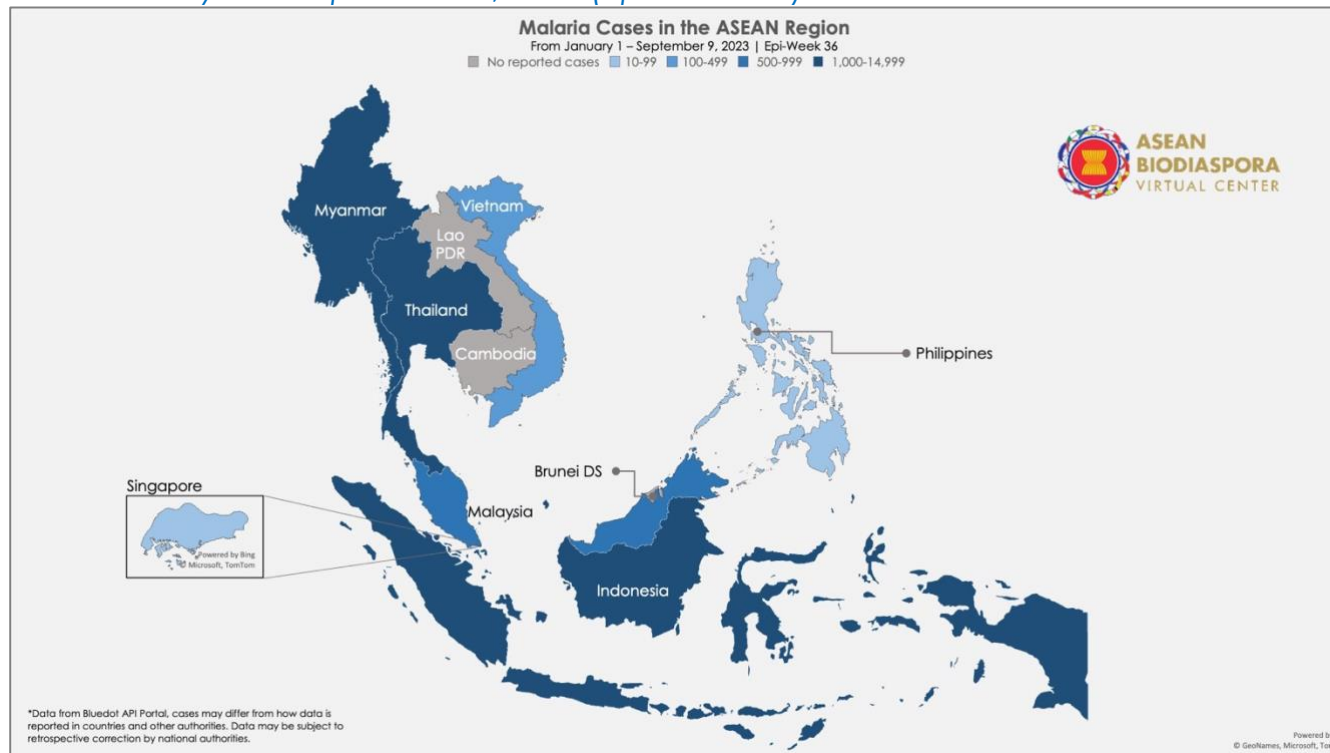
- **Philippines:** The Department of Health Western Visayas Center for Health Development (DOH WV CHD) has reported a decrease in dengue cases from January 1 to August 19, despite a decrease from the previous year (Sunstar, 2023). The risk remains, particularly due to rains. The most affected age group is one to 10 years old, with 23% of cases being among the 11 to 20-year-olds. The declining cases are attributed to the continuous support provided to local government units (LGUs) through larvicides, indoor residual spray, and insecticide for vector control activities. The success of the case decline depends on public compliance with the 4S strategy, which includes search and destroy breeding areas, self-protection, fogging and indoor residual spraying, and seeking early medical consultation. [\[Full article\]](#)
- **Singapore** has reported over 6,200 dengue cases as of 5 September 2023, with a risk of a surge due to the dominance of Dengue virus serotype 1 (DENV-1) [News Desk, 2023g]. The increase in DENV-1 cases over the past two months is concerning, as it has historically been associated with a surge in cases months later. There are 48 active dengue clusters, with 13 large clusters. Immediate action is needed to prevent a surge in cases, including removing stagnant water, using insecticide, and wearing long-sleeve tops and pants. [\[Full article\]](#)
- **Vietnam:** Hanoi's Department of Health reported an increase in dengue fever cases between August 25 and 31 (VietnamNet News, 2023). Since the start of the year, the city has seen over 6,693 cases, with the majority in Thach That, Hoang Mai, Thanh Tri, Bac Tu Liem, Ha Dong, Phu Xuyen, Cau Giay, Dong Da, and Nam Tu Liem districts. The CDC predicts a complex outbreak and campaigns to improve environmental sanitation and prevent dengue. [\[Full article\]](#)





# Malaria Cases in the ASEAN Region

From January 1 to September 9, 2023 (Epi-Week 36)



## Malaria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Malaria Cases	New Cases Since the Previous Report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia <sup>1</sup>	Week 30	1,056	0	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia <sup>1</sup>	Week 22	866	0	0	0.00%
Myanmar <sup>1</sup>	Week 23	4,510	0	0	0.00%
Philippines <sup>1</sup>	Week 28	31	0	0	0.00%
Singapore <sup>1</sup>	Week 35	15	2	0	0.00%
Thailand <sup>1</sup>	Week 27	9,300	0	3	0.03%
Vietnam <sup>1</sup>	Week 30	146	0	0	0.00%
<b>Total</b>		<b>15,924</b>	<b>2</b>	<b>3</b>	<b>0.02%</b>

1. BlueDot Developer Portal, accessed September 11, 2023, <https://developer-portal.bluedot.global/>.

- The ASEAN region reported **2** new malaria cases in Singapore since the previous report. The region reported **15,924** total cases and **3** total deaths in 2023 with **0.02%** CFR.

# Vaccine- Preventable Diseases

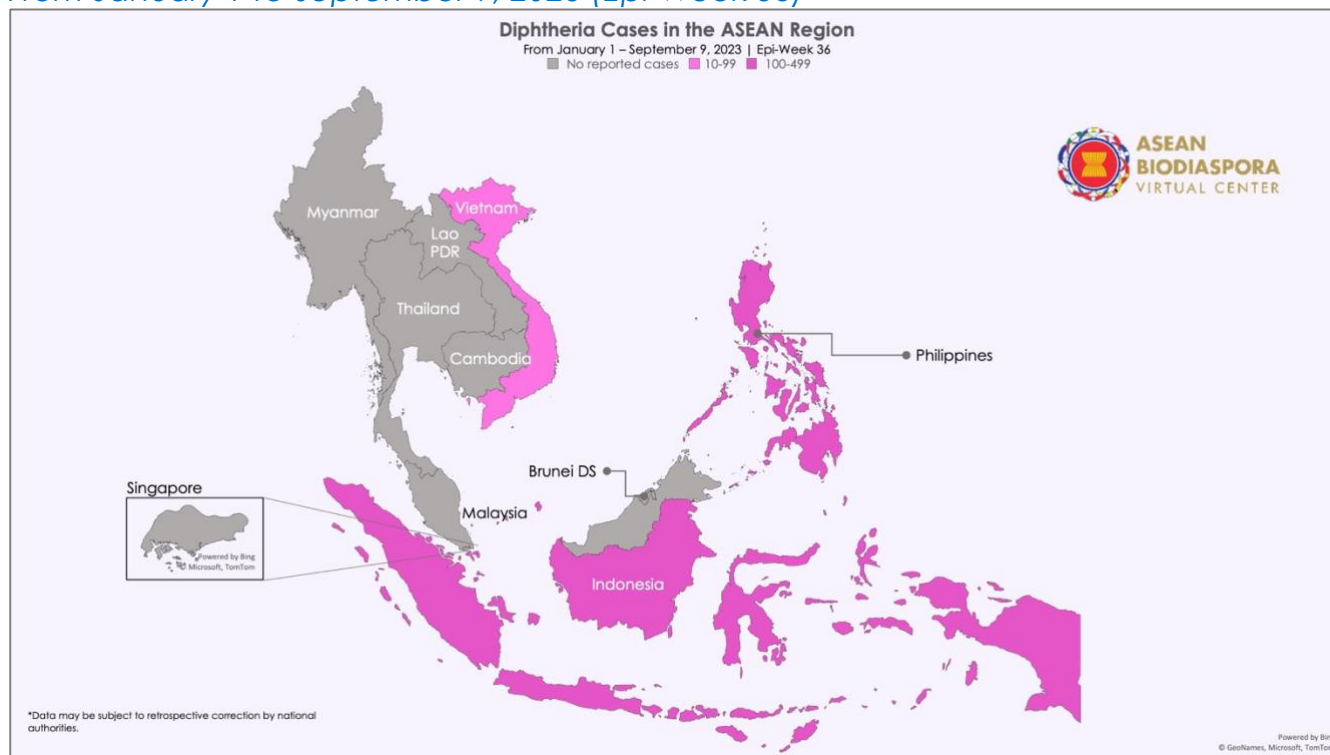


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# Diphtheria Cases in the ASEAN Region

From January 1 to September 9, 2023 (Epi-Week 36)



## Diphtheria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Deaths	Case Fatality Rate (CFR)
<b>Brunei Darussalam</b>	-	-	-	-	-
<b>Cambodia</b>	-	-	-	-	-
<b>Indonesia<sup>3</sup></b>	Week 32	416	0	29	6.97%
<b>Lao PDR</b>	-	-	-	-	-
<b>Malaysia</b>	-	-	-	-	-
<b>Myanmar</b>	-	-	-	-	-
<b>Philippines<sup>2</sup></b>	Week 31	108	20	24	22.22%
<b>Singapore</b>	-	-	-	-	-
<b>Thailand</b>	-	-	-	-	-
<b>Vietnam<sup>1</sup></b>	Week 36	29	1	3	10.34%
<b>Total</b>		<b>553</b>	<b>21</b>	<b>56</b>	<b>10.13%</b>

1. BlueDot Developer Portal, accessed September 11, 2023, <https://developer-portal.bluedot.global/>.  
 2. Department of Health Website, accessed September 11, 2023 "Statistics," August 8, 2023, <https://doh.gov.ph/statistics>.  
 3. Ministry of Health Indonesia

- The ASEAN region reported **21** new diphtheria cases in the Philippines and Vietnam since the previous report. The region reported **553** total cases and **56** total deaths in 2023 with **10.13%** CFR.



## Diphtheria

- **Vietnam:** The Ministry of Health (MoH) has established two groups to monitor and direct diphtheria prevention and control in Hà Giang and Điện Biên northern mountainous provinces (Vietnam News, 2023). These groups are responsible for identifying and treating diphtheria patients, conducting educational campaigns, and proposing solutions to control the epidemic. Recently, a 15-year-old ethnic group member, died of diphtheria in Mèo Vạc District, Hà Giang Province, marking the first reported case in nearly two decades. [\[Full article\]](#)



## Measles Cases in the ASEAN Region

From January 1 to September 9, 2023 (Epi-Week 36)



### Measles cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Measles Cases	New Cases Since the Previous Report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia <sup>3</sup>	Week 32	3,527	0	17	0.48%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines <sup>2</sup>	Week 31	1,023	102	3	0.29%
Singapore <sup>1</sup>	Week 24	6	0	0	0.00%
Thailand <sup>1</sup>	Week 16	73	0	0	0.00%
Vietnam	-	-	-	-	-
<b>Total</b>		<b>4,629</b>	<b>102</b>	<b>20</b>	<b>0.43%</b>

1. BlueDot Developer Portal, accessed September 11, 2023, <https://developer-portal.bluedot.global/>.  
 2. Department of Health Website, accessed September 11, 2023 "Statistics," August 8, 2023, <https://doh.gov.ph/statistics>.  
 3. Ministry of Health Indonesia

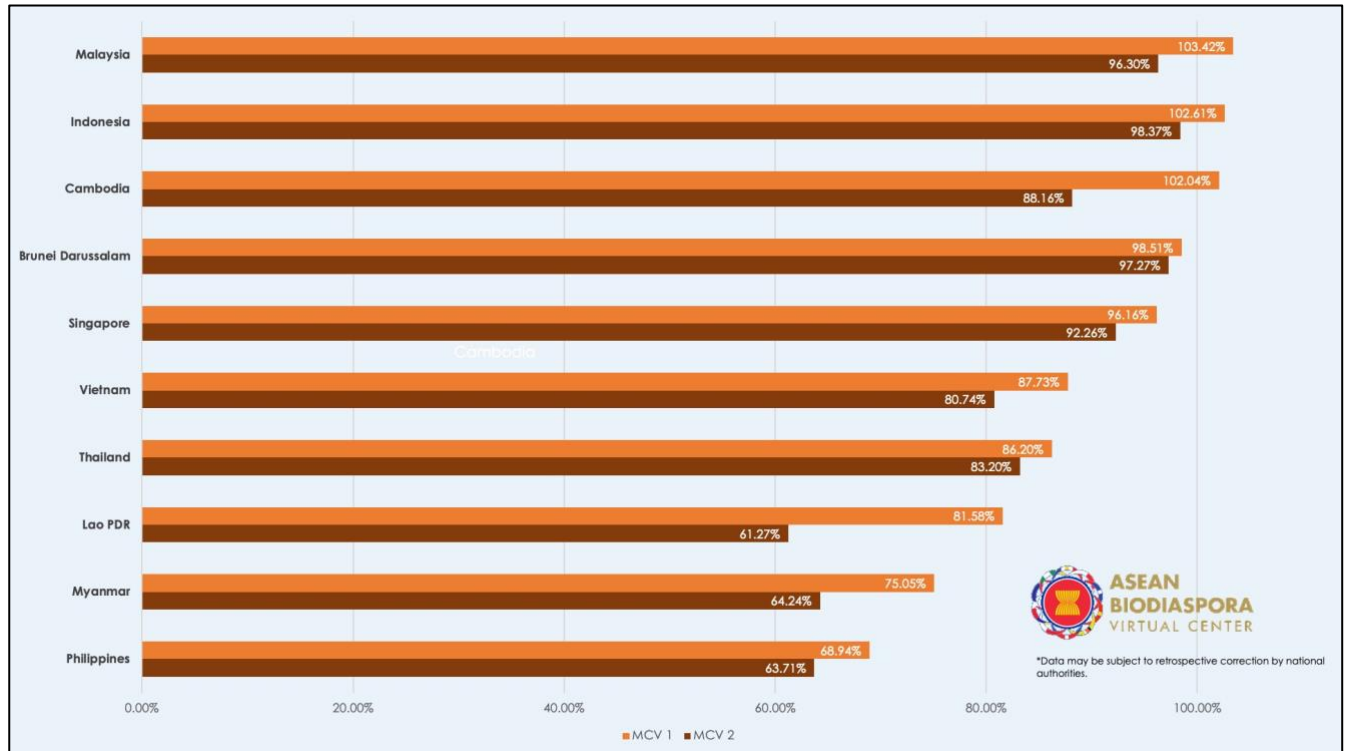
- The ASEAN region reported **102** new measles cases in the Philippines since the previous report. The region reported **4,629** total cases and **20** total deaths in 2023 with **0.43%** CFR.





# Measles Vaccination Coverage in the ASEAN Region

As of 2022



Reference: WHO, "Measles Vaccination Coverage," World Health Organization, 2022, <https://immunizationdata.who.int/pages/coverage/mcv.html?CODE=global>.

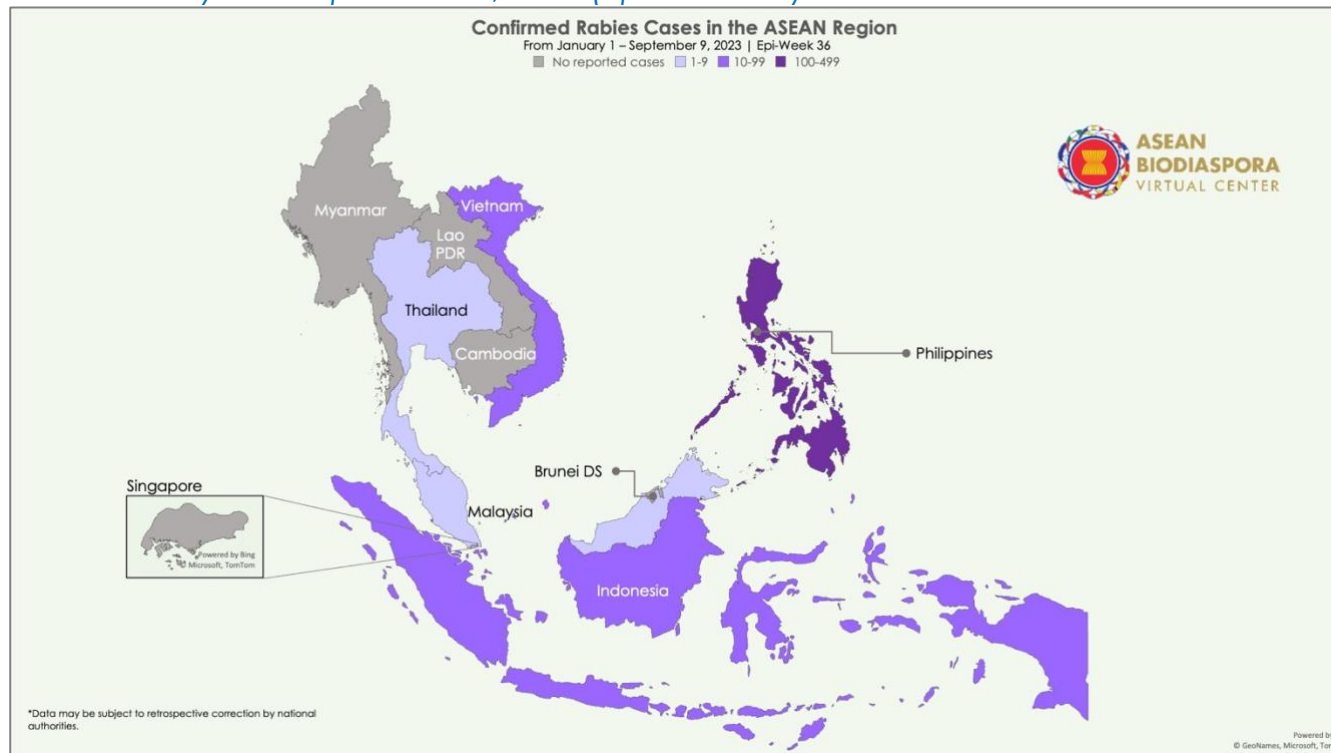
## Measles

- Indonesia:** The West Aceh District Health Service reported 77 measles cases in the area from January to September 2023 (Raharjo, 2023). The outbreak is attributed to many babies not receiving complete vaccinations from birth, which is the golden age for immunity. Most babies or toddlers contract measles, often experiencing fever and a rash. The most dangerous group affected by measles is pregnant women, as it can cause defects in the baby's womb and lead to rapid transmission. Pregnant health workers handling other babies who have not received immunizations or been exposed to measles are also at risk. The West Aceh District Health Office urges the public to vaccinate babies and toddlers to strengthen immunity against dangerous viruses. [\[Full article\]](#)



## Rabies Cases in the ASEAN Region

From January 1 to September 9, 2023 (Epi-Week 36)



### Rabies cases in the ASEAN region

Country	Epi-Week Reported	Reported Rabies Cases	Confirmed Rabies Cases	Rabies-Related Deaths
<b>Brunei Darussalam</b>	-	-	-	-
<b>Cambodia</b>	-	-	-	-
<b>Indonesia<sup>1</sup></b>	Week 34	315	17	47
<b>Lao PDR</b>	-	-	-	-
<b>Malaysia<sup>1</sup></b>	Week 32	19	9	17
<b>Myanmar</b>	-	-	-	-
<b>Philippines<sup>2</sup></b>	Week 31	223	223	223
<b>Singapore</b>	-	-	-	-
<b>Thailand<sup>1</sup></b>	Week 21	3	3	3
<b>Vietnam<sup>1</sup></b>	Week 36	34	33	33
<b>Total</b>		<b>594</b>	<b>285</b>	<b>323</b>

1. BlueDot Developer Portal, accessed September 11, 2023, <https://developer-portal.bluedot.global/>.  
2. Department of Health Website, accessed September 11, 2023 "Statistics," August 8, 2023, <https://doh.gov.ph/statistics>.

- The ASEAN region reported **594** rabies cases, **285** confirmed rabies cases, and **323** rabies-related deaths.



## Rabies

- **Vietnam:** Rabies deaths in Vietnam increased by 15 cases compared to last year, with Gia Lai province having the highest number of cases and deaths (Hai, 2023). In nearly 8 months, 55 rabies deaths were recorded in 25 provinces and cities. Rabies is a dangerous infectious disease caused by the rabies virus, transmitted through bites, scratches, and licks of rabid animals. Currently, there is no specific treatment, but rabies is completely preventable if fully vaccinated. [[Full article](#)]



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