



**ASEAN
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Morbidity and Mortality Weekly Report in the ASEAN Region

—— Infectious Diseases

August 7, 2023 | MMWR 2023-31
Epidemiological Week 31



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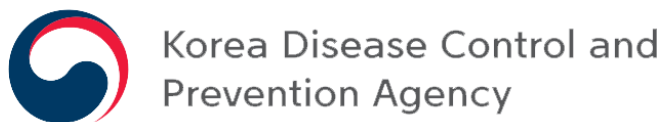


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Weekly Issue





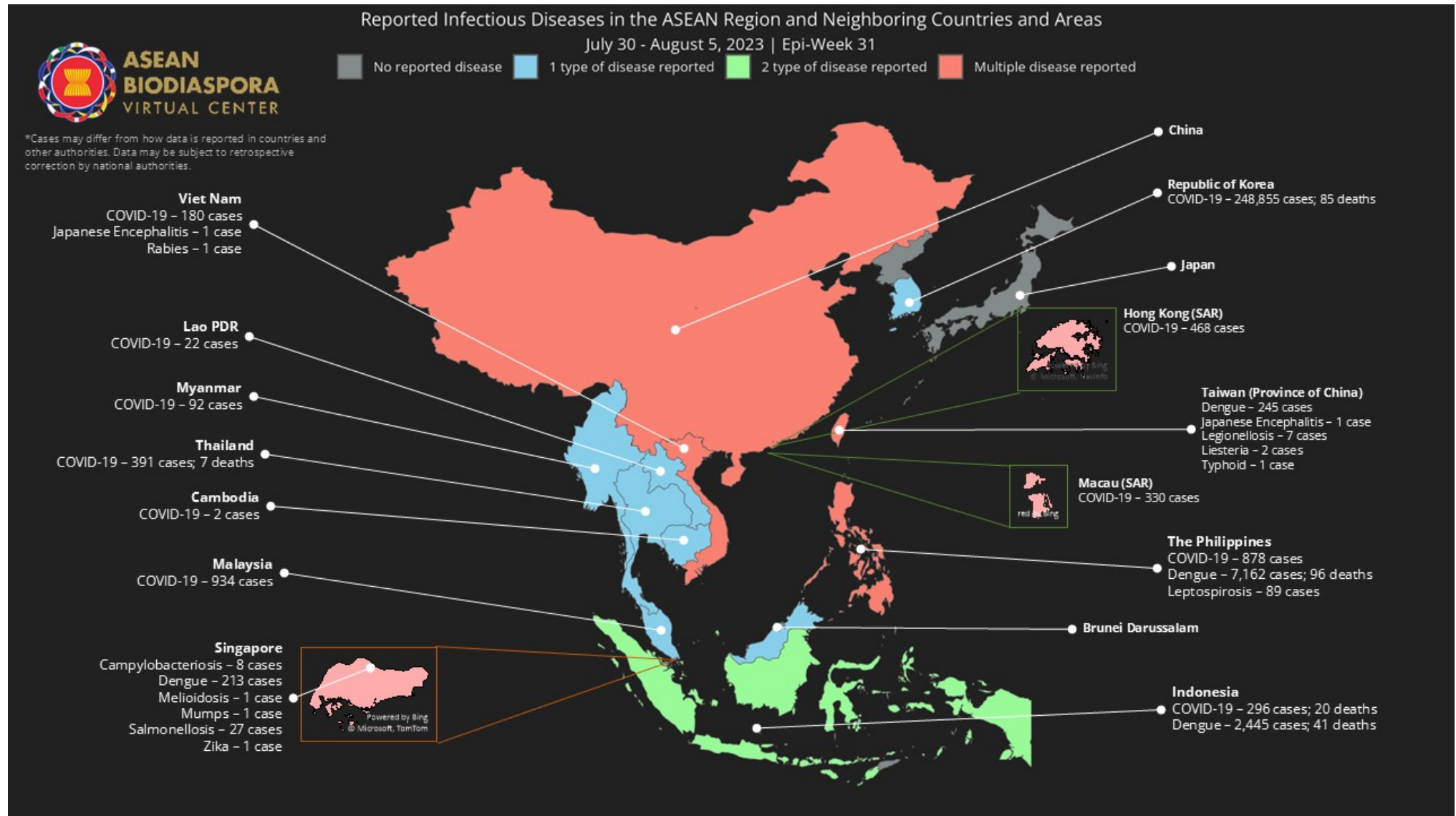
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Reported Infectious Diseases in the ASEAN Region and Neighboring Countries

Epidemiological Week 31 | July 30 – August 5, 2023



1. Ministry of Health Singapore, "Weekly Infectious Diseases Bulletin," Ministry of Health, July 26, 2023, <https://www.moh.gov.sg/resources-statistics/infectious-disease-statistics/2023/weekly-infectious-diseases-bulletin>.



Reported Infectious Diseases

Epidemiological Week 31 | July 30 – August 5, 2023

Infectious Disease Global Updates

Malaria

- **Republic of Korea:** On August 3, the Korea Centers for Disease Control and Prevention issued a statewide malaria alert in response to the discovery of the first malaria parasite in mosquito vectors from danger locations (News Desk, 2023d). Local governments should increase control measures, including as running traps in barns and treating chemical residue, to lessen the danger. Residents and visitors should avoid activities, dress warmly, use repellents, and use bug screens. The Malaria Vector Mosquito Investigation and Surveillance Project has detected protozoan genes, indicating infection 9 weeks earlier than expected in 2022 and 4 weeks earlier than expected in 2021. Paju City has the largest number of vector mosquitoes, necessitating extra precautions to avoid malaria exposure. [\[Full article\]](#)

Wild Poliovirus

- **Pakistan:** A three-year-old boy in Bannu, Khyber-Pakhtunkhwa, has been paralyzed by wild poliovirus, marking the second case this year (News Desk, 2023c). The child began experiencing paralysis on July 11th and was confirmed by the Pakistan National Polio Laboratory on August 1st. The child will live with disabilities for the rest of his life due to a preventable virus. Federal Health Minister Abdul Qadir Patel stated that Pakistan is in a better position to combat polio than a year ago, but every child affected is one child too many. Endemic wild polio transmission remains restricted to seven districts in southern Khyber Pakhtunkhwa, while no child has been paralyzed by polio since 2021 in other parts of Pakistan. [\[Full article\]](#)

Dengue

- **Bangladesh** is expected to experience record dengue cases in 2023, with 66,732 cases reported as of August 6. To surpass the 101,350 cases of 2019, the worst year would have to surpass 2019 (News Desk, 2023e). However, the record for dengue deaths in a single year has already been broken, with 10 more deaths reported today, bringing the total to 313. Dhaka has reported the most cases, with over 35,000 cases. Professor Dr. Md Shahadat Hossain, director of the Directorate General of Health Services, suggests that the dengue outbreak could be addressed in August, providing relief and a more comfortable situation for the public. [\[Full article\]](#)

Avian Influenza Outbreaks in Animals

- **People's Republic of China:** The Ministry of Agriculture and Rural Affairs got notification on July 28 from the China Animal Disease Prevention and Control Center of an outbreak of H5N1 subtype highly pathogenic avian influenza in Naqu City, Tibet Autonomous Region (News Desk, 2023a). Within 10,000 kilometers, there is no poultry rearing household. Following the outbreak, the local area immediately responded with an emergency response in accordance with the provisions of the emergency implementation plan, performed harmless treatment of all sick and dead wild birds, and conducted an investigation, blockade, and elimination of the surrounding environment, while strictly prohibiting personnel, livestock, and poultry from entering the epidemic control area.



Infectious Disease Updates in the ASEAN Region

Hand, Foot, and Mouth Disease (HFMD)

- **Vietnam:** Children's hospitals in Ho Chi Minh City continue to see an increase in children hospitalized due to hand, foot, and mouth disease (News Desk, 2023f). To meet the demand for examination and treatment, hospitals have increased staff and expanded beds. Children with Grade 2b and above account for 25-30% of cases. At Children's Hospital 1, over 160 children are treated, with Grade 2b and above accounting for 25-30%. The hospital added another floor for treatment, two wards for severe patients, the ICU, and the Department of Active Resuscitation – anti-poison. At City Children's Hospital, the number of cases of hand, foot, and mouth disease has continued to rise, with an average of 100-150 children treated daily. The Center for Disease Control of Ho Chi Minh City reported a rapid increase in cases in week 30, with 2,665 cases recorded, 1.4 times higher than the average of 1,862 cases four weeks ago. Districts with high cases per 100,000 people include Binh Tan, Binh Chanh, and Tan Phu districts. [\[Full article\]](#)

Leptospirosis

- **Philippines:** From June 18 to July 1, the Philippines Department of Health reported 2,079 cases and 225 deaths due to leptospirosis, a 42% rise from the preceding two weeks (News Desk, 2023b). Leptospirosis is caused by bacteria that are disseminated through the urine of sick animals and can survive in water or soil for weeks to months. Infection can arise as a result of contact with polluted water, soil, or items, as well as contaminated food or water. Fever, headache, chills, vomiting, jaundice, stomach pain, diarrhea, and a rash are some of the symptoms. Leptospirosis, if not treated properly, can cause major problems with the kidneys, liver, brain, and spinal cord, as well as death. [\[Full article\]](#)

Vector-Borne Diseases



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Dengue Cases in the ASEAN Region

From January 1 to August 5, 2023 (Epi-Week 31)



Dengue cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Dengue Cases	New Cases Since the Previous Report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-	-
Cambodia ⁵	Week 26	6,683	2,015	14	0.21%
Indonesia ¹	Week 29	44,000	0	332	0.75%
Lao PDR ⁵	Week 27	8,175	2,865	5	0.06%
Malaysia ⁵	Week 25	56,721	2,582	39	0.07%
Myanmar ¹	Week 28	6,685	0	30	0.45%
Philippines ³	Week 27	75,230	2,897	282	0.37%
Singapore ⁴	Week 30	5,210	217	0	0.00%
Thailand ²	Week 27	27,235	0	1	0.003%
Vietnam ⁵	Week 28	46,658	8,944	11	0.02%
Total		276,597	19,509	714	0.26%

1. BlueDot Developer Portal, accessed August 7, 2023, <https://developer-portal.blue-dot-global/>.
 2. Asian Dengue Voice and Action, "Asian Dengue Dashboard," accessed August 7, 2023, <https://www.adva.asia/asian-dengue-dashboard/>.
 3. Department of Health Website, accessed August 7, 2023 "Statistics," July 8, 2023, <https://doh.gov.ph/statistics>.
 4. National Environment Agency (NEA), accessed August 7, 2023. Dengue cases, July 29, 2023, <https://www.nea.gov.sg/dengue-zika/dengue/dengue-cases>.
 5. WHO WPRO, "Dengue." World Health Organization, July 20, 2023, <https://www.who.int/westernpacific/emergencies/surveillance/dengue>.
 *Data were updated and collected from official sources, which may have a 2-4 weeks delay in reporting. Data must be interpreted cautiously.

- The ASEAN region reported **19,509** new dengue cases in Cambodia, Lao PDR, Malaysia, the Philippines, Singapore, and Vietnam since the previous report. The region reported **276,597** total cases and **714** total deaths in 2023 with **0.26%** CFR.



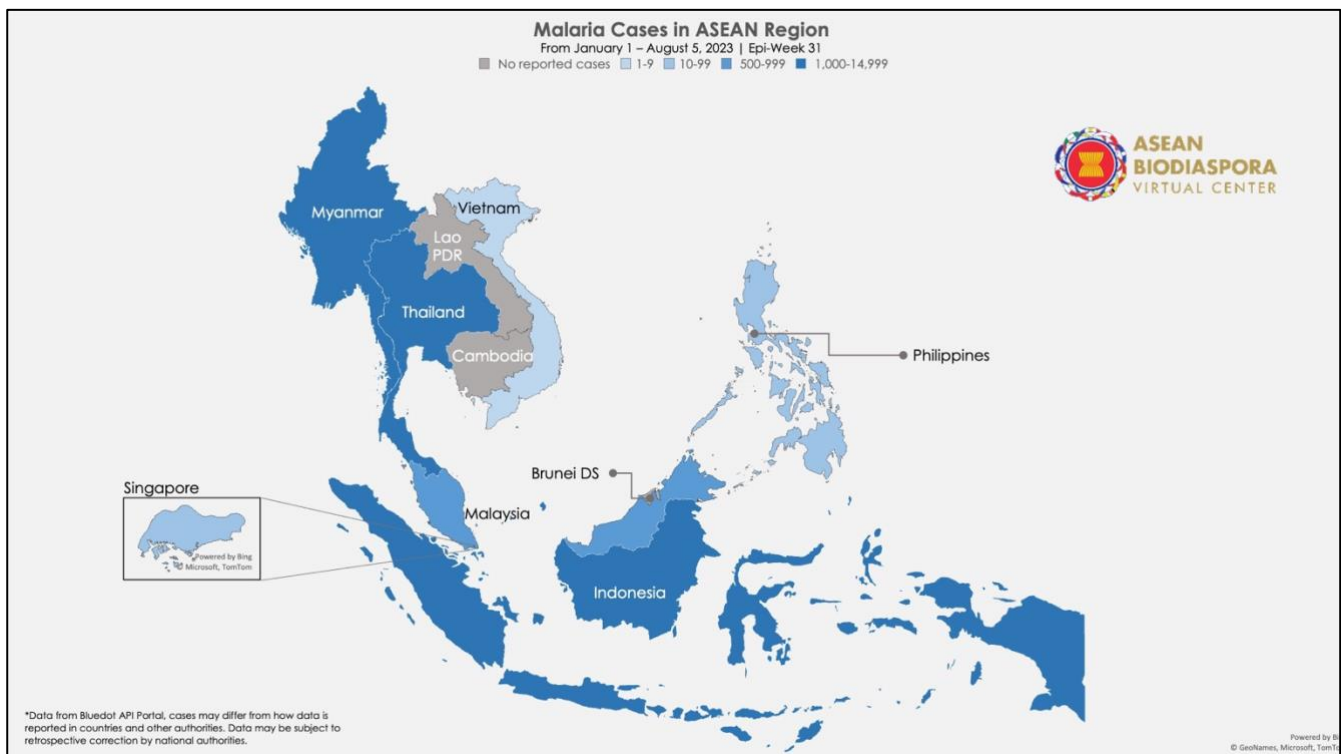
Dengue

- Cambodia:** In 2023, over 9,000 dengue fever cases were reported nationwide, an increase of 5,000 from 2022 (Punreay, 2023). The government and national anti-diarrheal program are concerned about the rise in dengue cases. Dengue fever affects people of all ages and is transmitted by tiger mosquitoes. The highest incidences have been in Phnom Penh, Kandal, Tboung Khmum, Siem Reap, and Banteay Meanchey provinces. During the rainy season, people must remove water from utensils that can become breeding grounds for tiger mosquitoes. The Ministry of Health advises adding Abate to water vessels to prevent them becoming mosquito sanctuary. The provincial health department educates locals about dengue fever dangers and distributes Abate to the community. [[Full article](#)]
- Lao PDR:** Dengue fever cases in Laos have increased to 17,473 with 371 new cases confirmed in the last 24 hours (Xinhua, 2023). The disease has caused 12 deaths, with Oudomxay province having the highest number of cases at 3,545. Health officials and medical staff are working to raise public awareness of the disease's dangers. The Ministry of Health attributes the surge in cases to a lack of public awareness regarding precautionary measures to prevent mosquito bites. [[Full article](#)]
- Philippines:** The Davao Region of the Philippines has experienced an increase in dengue cases, with 8,681 cases reported from January to July (News Desk, 2023g). The region includes Davao City, Davao del Norte, Davao de Oro, Davao del Sur, Davao Oriental, and Davao Occidental. Davao City saw the most deaths, with nine, followed by Davao del Norte with eight. DOH-11 director Dr. Annabelle Yumang emphasized the need to intensify the 4S campaign to prevent the increase in cases. The "4S" strategy includes searching and destroying mosquito breeding sites, seeking early consultation, self-protection methods, and supporting fogging operations in areas with an increase in cases for two consecutive weeks. [[Full article](#)]
- Thailand:** Thai health officials have warned that if preventive measures fail, the number of dengue virus cases this year might exceed 150,000 (News Desk, 2023h). The sickness, caused by a mosquito-borne virus, typically affects children, but it is now being identified in adults and older folks as well. It might take up to two weeks to manifest and cause symptoms such as fever, headache, nausea, vomiting, rash, muscle and joint pain, and mild bleeding. Severe dengue is a medical emergency that necessitates hospitalization. [[Full article](#)]



Malaria Cases in the ASEAN Region

From January 1 to August 5, 2023 (Epi-Week 31)



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 ¹	Week 30	1,056	687	0	0.00%
Lao PDR	-	-	-	-	-
Malaysia ¹	Week 22	866	0	0	0.00%
Myanmar ¹	Week 23	4,510	0	0	0.00%
Philippines ¹	Week 28	31	0	0	0.00%
Singapore ¹	Week 28	8	0	0	0.00%
Thailand ¹	Week 27	9,300	0	3	0.03%
Vietnam ¹	Week 29	1	0	0	0.00%
Total		15,772	687	3	0.02%

1. BlueDot Developer Portal, accessed August 7, 2023, <https://developer-portal.bluedot.global/>.

- The ASEAN region reported **687** new malaria case in Indonesia since the previous report. The region reported **15,772** total cases and **3** total deaths in 2023 with **0.02%** CFR.



Malaria

- **Indonesia:** Malaria is currently present in the State Capital (IKN), with high-risk locations in East Kalimantan Province (Adhiwidharta, 2023). The Health Service examined workers for infrastructure building in Nusantara City, Indonesia's future capital, in Sepaku District for malaria. The North Penajam Paser District Health Office works in collaboration with the World Health Organization (WHO) to provide routine health examinations on plantation and forestry workers in the Benuo Taka area. The health office trains and creates cadres for malaria inspection activities in order to reduce malaria cases. To combat the spread of malaria, surveys of vectors and mosquito breeding areas, as well as the distribution of larvicide brekat and insecticide nets, are being carried out. [[Full article](#)]

Vaccine- Preventable Diseases

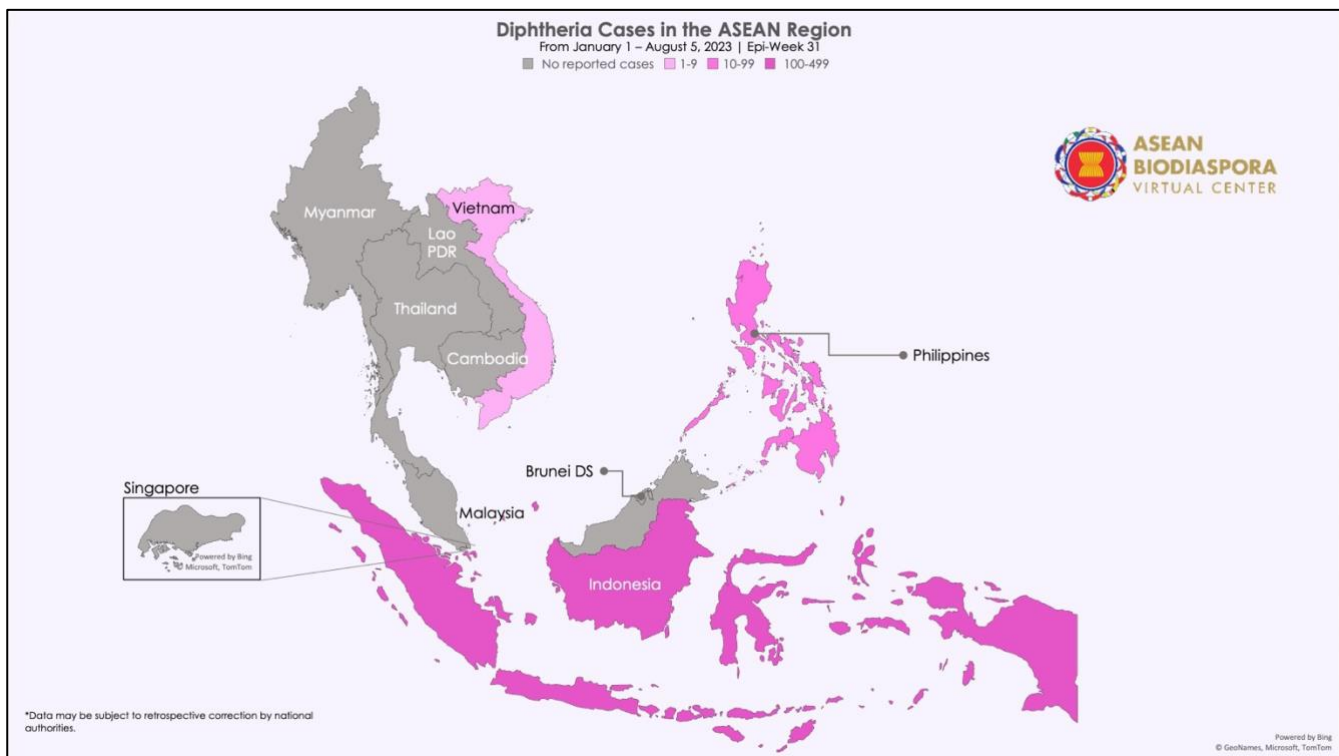


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Diphtheria Cases in the ASEAN Region

From January 1 to August 5, 2023 (Epi-Week 31)



Diphtheria cases in the ASEAN region

Country	Epi-Week Reported	Cumulative Diphtheria Cases	New Cases Since the Previous Report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-	-
Cambodia	-	-	-	-	-
Indonesia ¹	Week 31	184	0	15	8.15%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 27	88	0	18	20.45%
Singapore	-	-	-	-	-
Thailand	-	-	-	-	-
Vietnam ¹	Week 21	3	0	1	33.33%
Total		275	0	34	12.36%

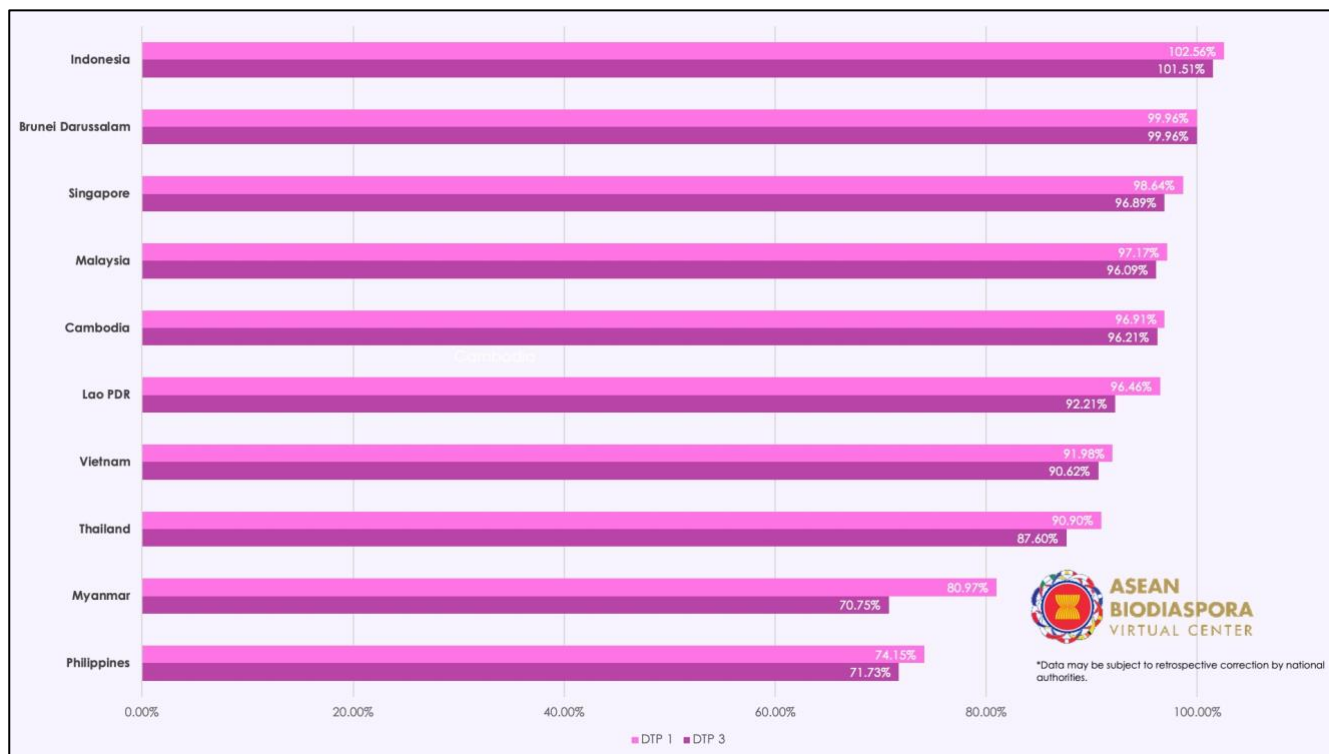
1. BlueDot Developer Portal, accessed August 7, 2023, <https://developer-portal.bluedot.global/>.
2. Department of Health Website, accessed August 7, 2023 "Statistics," July 8, 2023, <https://doh.gov.ph/statistics>.

The ASEAN region reported **NO** new diphtheria cases since the previous report. The region reported **275** total cases and **34** total deaths in 2023 with **12.36%** CFR.



Diphtheria, Tetanus Toxoid, and Pertussis Vaccination Coverage in the ASEAN Region

As of 2022



Reference: WHO, "Diphtheria Tetanus Toxoid and Pertussis (DTP) Vaccination Coverage," World Health Organization, 2022, <https://immunizationdata.who.int/pages/coverage/dtp.html?CODE=global>.

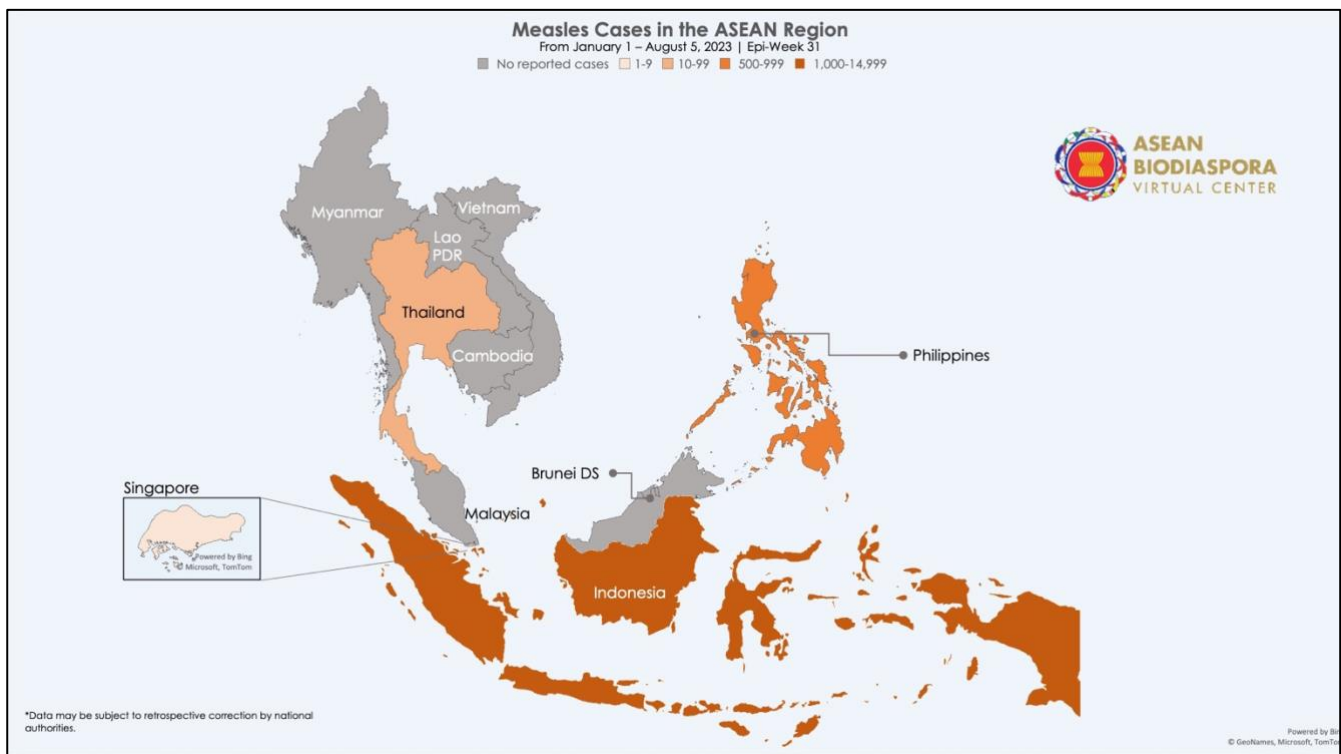
Diphtheria

- Indonesia:** Cases of diphtheria have been reported in Gresik Regency, affecting people of Suci Village, Manyar, and Sukowati Village, Bungah. A 3-year-old child from Sukowati Village in Bungah was exposed to the illness, which is progressing well (Jawapos, 2023). The health office discovered risk indicators, such as a history of vaccine refusal. A 52-year-old male from Suci Village in Manyar was also exposed after being treated at Ibnu Sina Hospital. Diphtheria is a potentially fatal condition in which toxins harm the heart, kidneys, and brain. The health office declared an outbreak to be handled quickly, administered antidiphtheria serum to patients, and conducted epidemiological investigations and surveillance. To interrupt the virus's propagation chain, the health office implemented mass immunization. [\[Full article\]](#)



Measles Cases in the ASEAN Region

From January 1 to August 5, 2023 (Epi-Week 31)



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 ¹	Week 14	2,161	0	17	0.79%
Lao PDR	-	-	-	-	-
Malaysia	-	-	-	-	-
Myanmar	-	-	-	-	-
Philippines ²	Week 27	830	100	3	0.36%
Singapore ¹	Week 24	6	0	0	0.00%
Thailand ¹	Week 16	73	0	0	0.00%
Vietnam	-	-	-	-	-
Total		3,070	100	20	0.65%

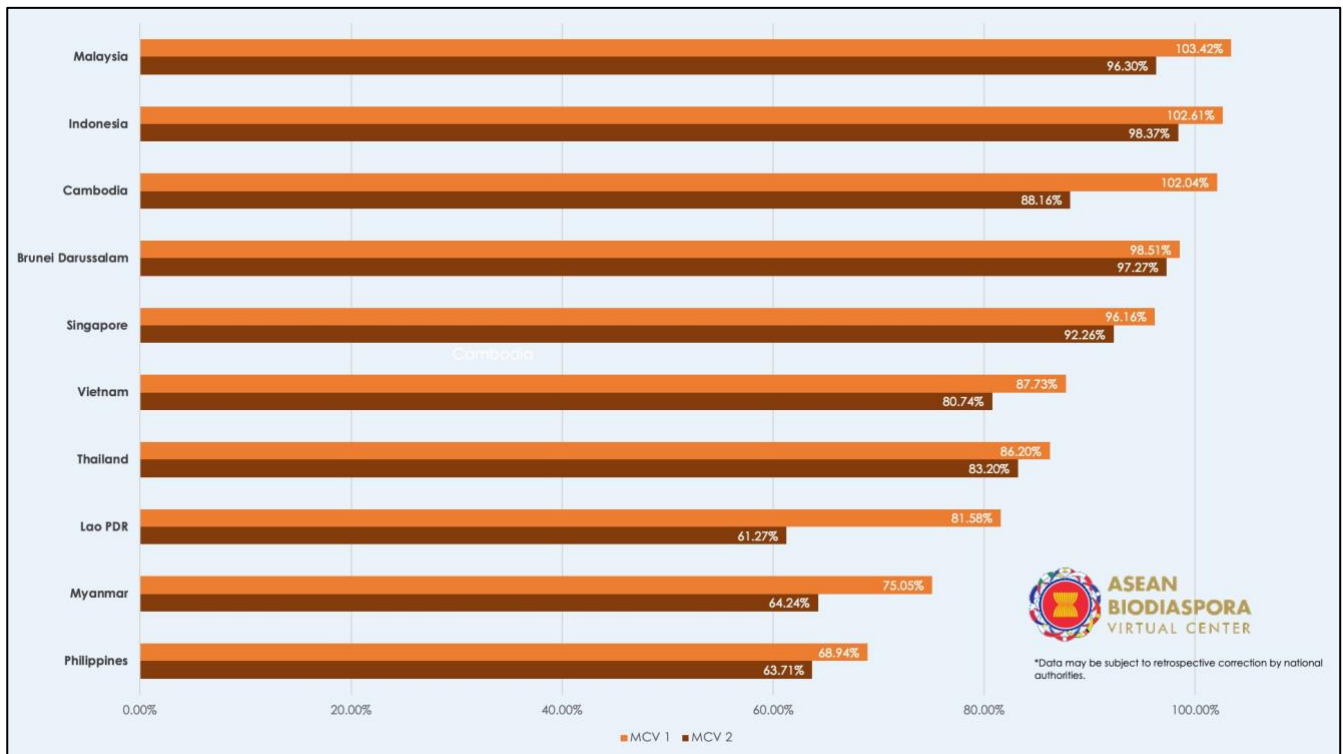
1. BlueDot Developer Portal, accessed August 7, 2023, <https://developer-portal.bluedot.global/>.
2. Department of Health Website, accessed August 7, 2023 "Statistics," July 8, 2023, <https://doh.gov.ph/statistics>.

- The ASEAN region reported **100** new measles cases in the Philippines since the previous report. The region reported **3,070** total cases and **20** total deaths in 2023 with **0.65%** CFR.



Measles Vaccination Coverage in the ASEAN Region

As of 2022

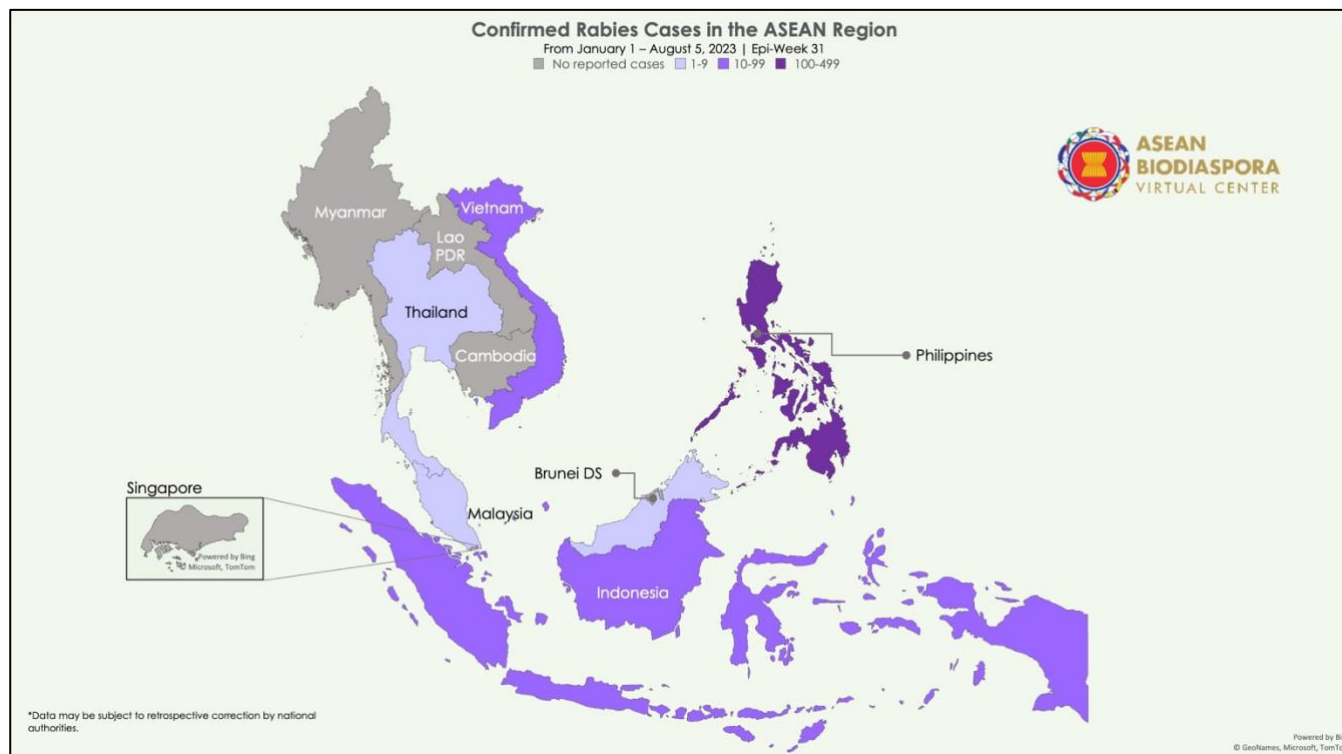


Reference: WHO, "Measles Vaccination Coverage," World Health Organization, 2022, <https://immunizationdata.who.int/pages/coverage/mcv.html?CODE=global>.



Rabies Cases in the ASEAN Region

From January 1 to August 5, 2023 (Epi-Week 31)



Rabies cases in the ASEAN region

Country	Epi-Week Reported	Reported Rabies Cases	Confirmed Rabies Cases	Rabies-Related Deaths
Brunei Darussalam	-	-	-	-
Cambodia	-	-	-	-
Indonesia ¹	Week 29	304	17	47
Lao PDR	-	-	-	-
Malaysia ¹	Week 26	15	9	13
Myanmar	-	-	-	-
Philippines ²	Week 27	191	191	191
Singapore	-	-	-	-
Thailand ¹	Week 21	3	3	3
Vietnam ¹	Week 31	11	10	8
Total		524	230	262

1. BlueDot Developer Portal, accessed August 7, 2023, <https://developer-portal.bluedot.global/>.
2. Department of Health Website, accessed August 7, 2023 "Statistics," July 8, 2023, <https://doh.gov.ph/statistics>.

- The ASEAN region reported **524** rabies cases, **230** confirmed rabies cases, and **262** rabies-related deaths.



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