

Situational Report in the ASEAN Region

— ASEAN BioDiaspora Virtual Center (ABVC)



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COVID-19: Highlights and Situation Overview

Global Update

- **Worldwide**, over 688 million cases and over 6 million deaths have been attributed to COVID-19.
- **Australia:** The first diagnostic test for long COVID is now available to patients across Australia.¹ The blood-based test was developed by diagnostic testing company IGenEx using IncelIDx's inCellKINE assay.¹ inCellKINE is a machine learning-based technology that can assess the presence of a distinctive immunologic profile characterized by patterns of cytokine and chemokine biomarkers found to be unique to long COVID patients and provides 97% sensitivity.¹ It received CE-IVD marking in Europe in 2022, which indicates that it fulfills the requirements of relevant European product directives and meets all the requirements of the relevant recognized European harmonized performance and safety standards.¹ The test can support physicians in diagnosing long COVID by differentiating it from other diseases with similar symptoms, and to design personalized treatment approaches.¹ [\[Full article\]](#)

Research Update (Published and peer-reviewed studies)

- The study ***Risk of post-acute sequelae of SARS-CoV-2 infection associated with pre-coronavirus disease obstructive sleep apnea diagnoses: an electronic health record-based analysis from the RECOVER initiative*** found that adults with obstructive sleep apnea (OSA) were more likely to experience symptoms of long COVID compared with adults without apnea.² The findings are based on the National Institutes of Health Researching COVID to Enhance Recovery (RECOVER) Initiative and researchers used the electronic health data of 2.2 million Americans—both children and adults—who tested positive for COVID-19 from March 2020 to February 2022.² About 5% of adults in the N3C study with OSA, 17% of adults in PCORnet, and less than 5% of children in PEDSnet were suspected to have developed long COVID, but only those patients included in the N3C study were seen at long COVID clinics.² Persistent long-COVID symptoms were documented more than 30 days after initial disease diagnosis in PCORnet, and certain symptoms and conditions indicated long COVID in PEDSnet, including myocarditis.² The unadjusted odds ratio for someone with OSA to experience long COVID ranged from 1.41 to 3.93.² After adjusting for other risk factors for long COVID, including obesity and age, the odds ratios diminished but were still significant.² The greatest effect was seen in the N3C study, where patients with OSA were 75% more likely to experience long COVID.² In PCORnet, the increased odds of having long COVID were 12% if the patient also had documented OSA.² In children, however, the unadjusted risk of OSA and long COVID disappeared after adjusting for obesity, with no significant difference in the odds of probable long COVID when comparing children with and without OSA.² [\[Full text\]](#)



Cases and Deaths as of 17 May 2023

- As of 17 May 2023 (1PM, GMT+7), worldwide, there were **688,464,232** confirmed cases, including **6,875,459** deaths. Globally, Case Fatality Rate (CFR) was **1.0%**.
- 36,014,075 confirmed cases** of COVID-19 have been reported in the **ASEAN Region**.
- The Case Fatality Rate in the **ASEAN Region** is range between **0.1 to 3.1%**

COVID-19 cases in ASEAN region

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST REPORT ON CONFIRMED CASE(S)	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS	CUMULATIVE CASES/ 100,000	CUMULATIVE VACCINATED	CUMULATIVE FULLY VACCINATED	CUMULATIVE BOOSTERED	FULLY VACCINATED/ 100
ASEAN REGION	Brunei Darussalam	10 Mar 20	11-May-23	292,644	-	225	-	64,053	450,404	445,929	338,987	99.3
	Cambodia	27 Jan 20	09-May-23	138,736	-	3,056	-	841	15,244,858	14,609,937	10,433,215	87.1
	Indonesia	02 Mar 20	17-May-23	6,798,866	130	162,082	444	2,490	203,657,535	172,693,321	67,952,274	62.7
	Lao PDR	24 Mar 20	15-May-23	218,101	-	758	-	3,041	5,888,649	5,222,417		69.4
	Malaysia	25 Jan 20	14-May-23	5,088,009	-	37,046	-	15,788	28,125,245	27,536,657	17,056,957	81.1
	Myanmar	23 Mar 20	16-May-23	637,483	-	19,494	-	1,173	34,777,314	27,545,329	2,227,351	50.8
	Philippines	30 Jan 20	16-May-23	4,118,013	-	66,453	-	3,771	78,369,243	73,937,435	21,341,197	64.0
	Singapore	23 Jan 20	07-May-23	2,391,248	-	1,727	-	39,049	5,161,990	5,120,768	4,440,289	90.8
	Thailand	13 Jan 20	15-May-23	4,736,356	-	33,989	-	6,791	57,005,497	53,486,086	32,143,431	74.6
	Vietnam	23 Jan 20	17-May-23	11,594,619	-	43,201	-	11,950	90,450,881	85,848,363	57,452,750	87.4
ASEAN COUNTRIES				36,014,075	130	368,031	444	148,946	519,131,616	466,446,242	213,386,451	

*There have been no tests reported in the last 14 days in the **ASEAN Region**.

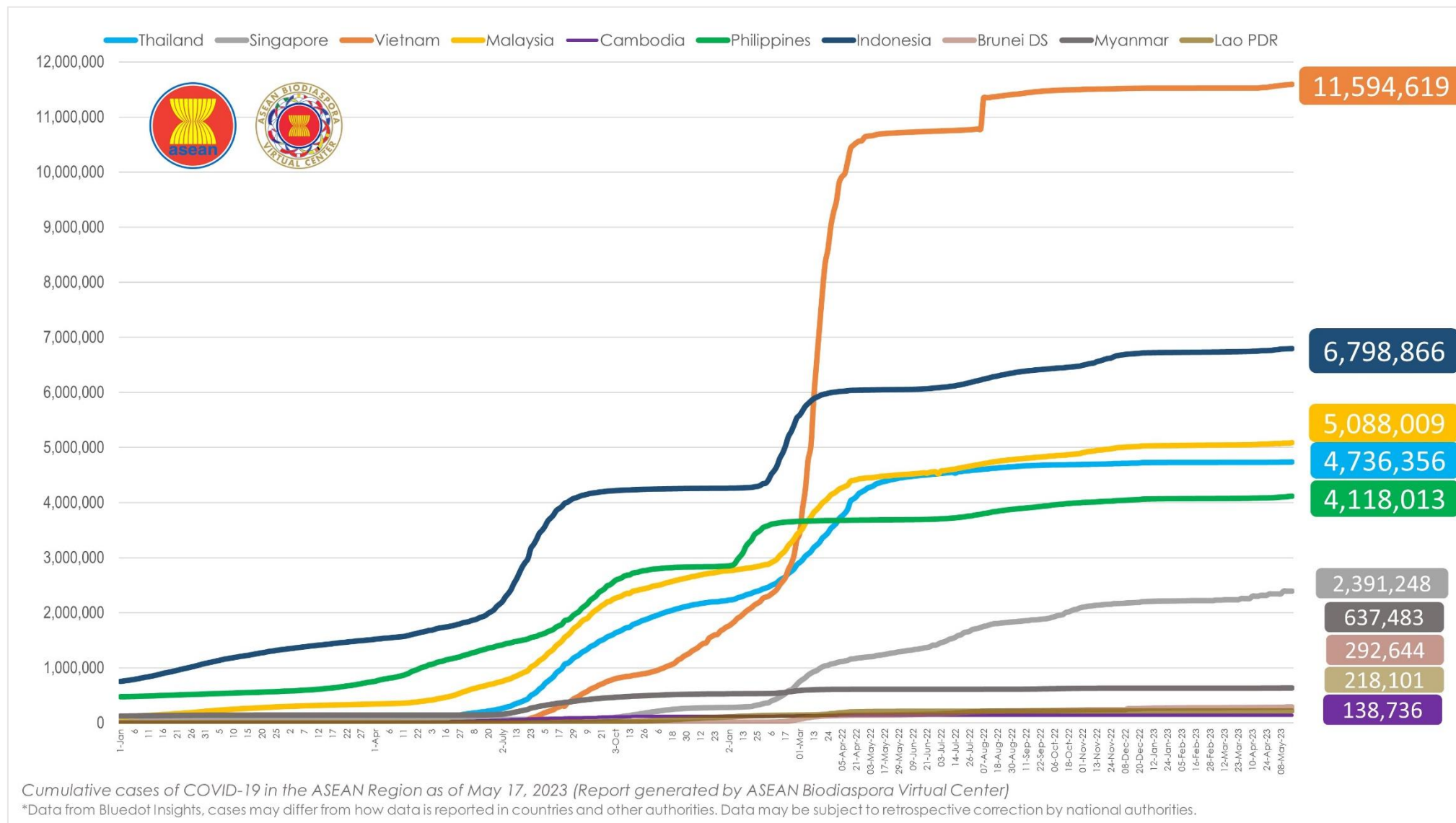
REGION	TOTAL CONFIRMED CASES	NEW CASES	TOTAL DEATHS	NEW DEATHS
ASIA	195,416,374	26,147	1,205,500	11
AFRICA	12,822,016		258,755	
AMERICAS	195,056,132	1,653	2,986,365	18
EUROPE	249,155,635		2,056,808	-
TOTAL	652,450,157	27,800	6,507,428	29

**Data References: [Andra Farm](#), [Worldometer](#), [DOH Philippines](#), and the [WHO](#)



COVID-19 Epi curve among ASEAN Countries:

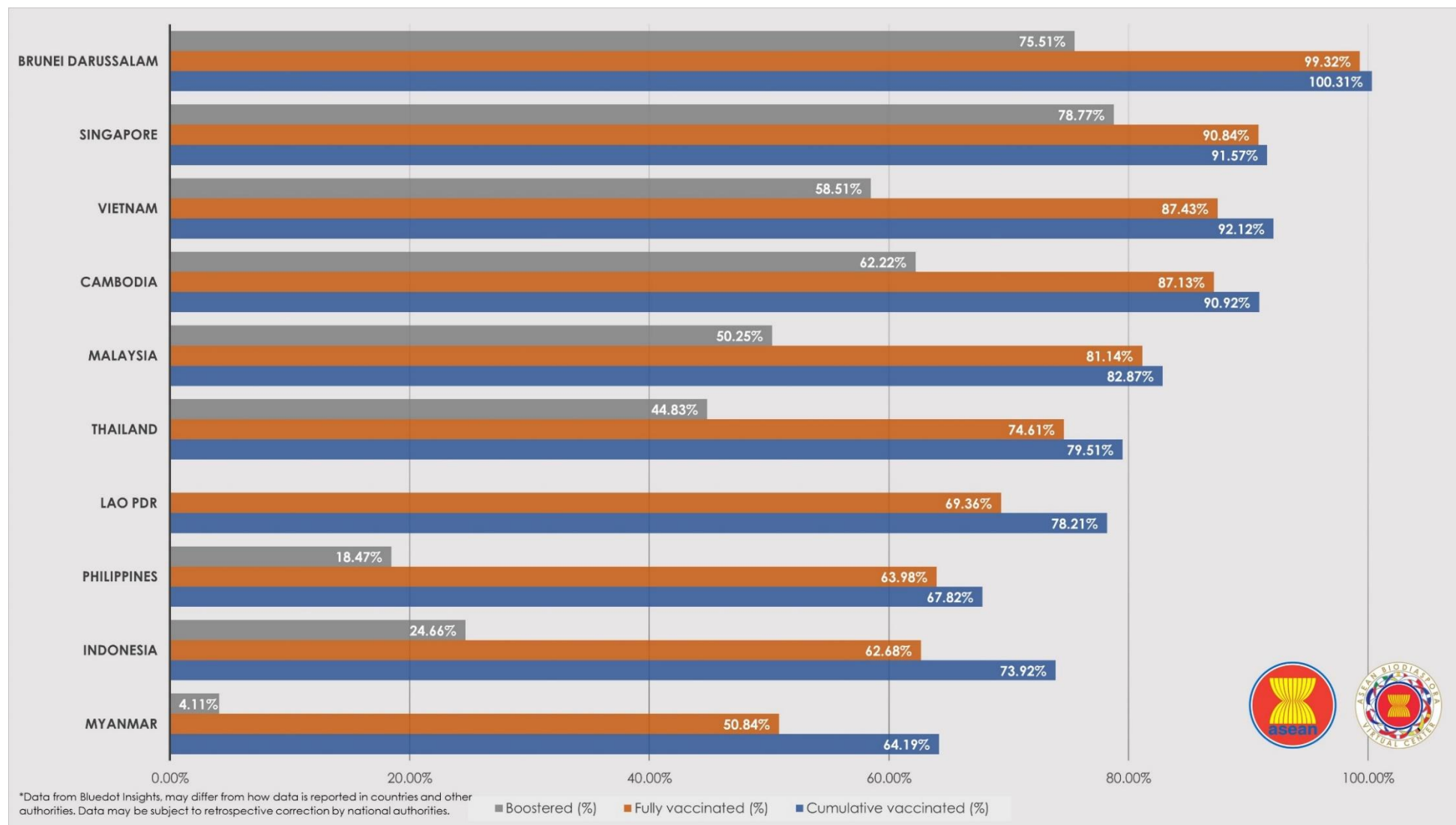
From January 1, 2021 to May 17, 2023





ASEAN COVID-19 Vaccination Status

as of 09 March 2023

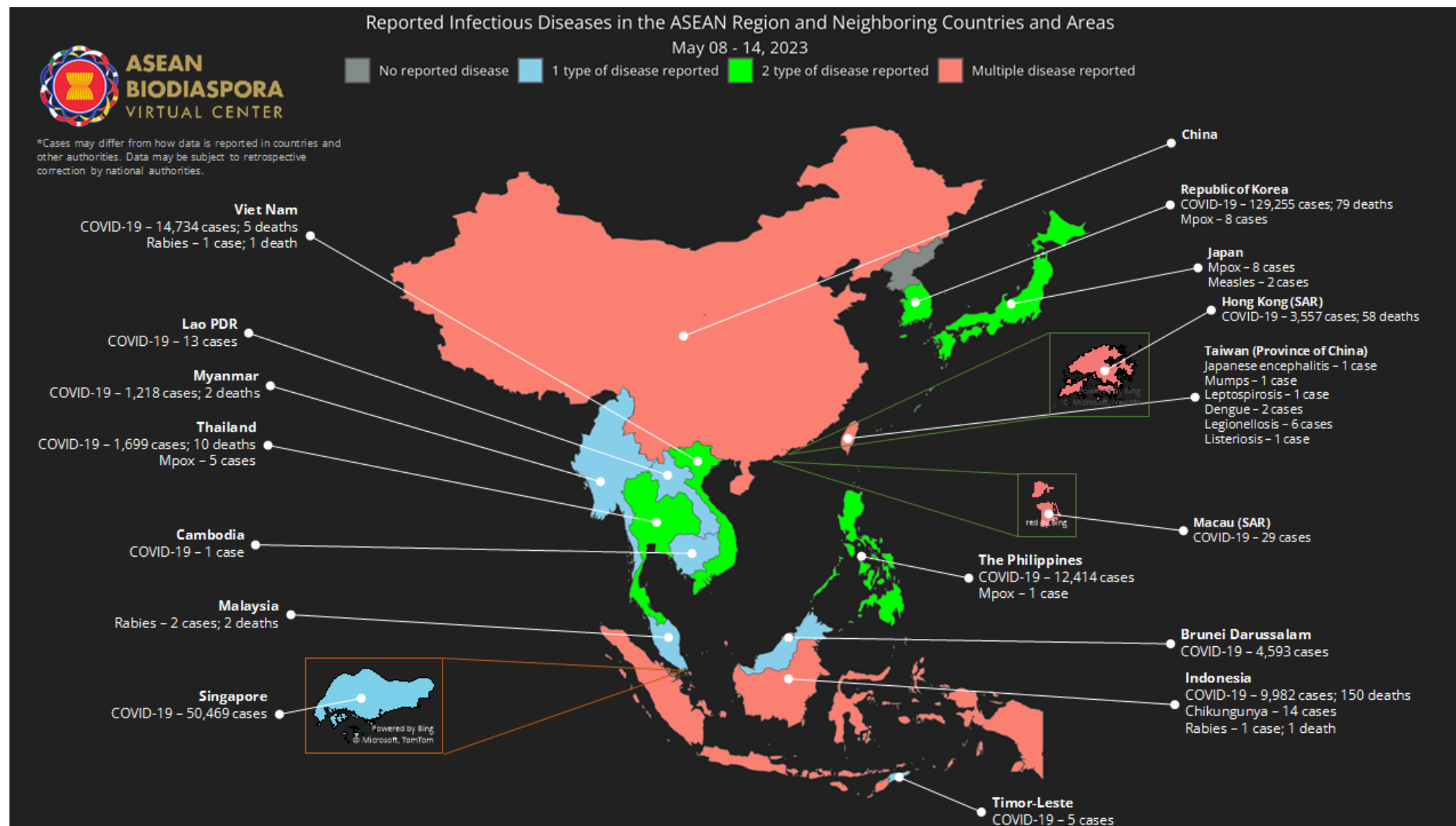


*Last update in COVID-19 vaccination status in ASEAN was on March 9, 2023.



Reported Infectious Diseases in ASEAN Region and Neighboring Countries

From May 8-14, 2023





Reported Infectious Diseases Other than COVID-19, Mpox, Measles, and Dengue

May 8-14, 2023

Infectious Disease in ASEAN Region and Neighboring Countries Updates

Chikungunya

- Indonesia:** As many as 43 residents of Dusun Soko, Pacarluk Village, Megaluh District, Jombang Regency, East Java, suddenly became paralyzed.⁶ Some of them tested positive for chikungunya based on medical examinations.⁶ The Head of the Pacarluk Village Dyah Kusnowati revealed, apart from being suddenly paralyzed, the dozens of people also complained of pain in almost all parts of the body.⁶ Other symptoms include weakness, hot body temperature, and sore throat, which makes it difficult for residents to eat food.⁶ "Symptoms experienced by residents, there are all body aches, some are weak, some have a sore throat and difficulty eating.⁶ Most can't walk," said Dyah when confirmed by Kompas.com, Friday (12/5/2023).⁶ He said that this condition has been experienced by his residents since the last Eid al-Fitr.⁶ Until this week, he explained, a total of 43 people living in Dusun Soko complained of similar conditions.⁶ "Yesterday there were two new ones, but not confirmed if chikungunya or not," said Dyah.⁶ He said, some residents who experienced sudden paralysis and body aches, weakness and several other symptoms, underwent a medical examination.⁶ Based on examination of blood samples, 14 people tested positive for chikungunya.⁶ [\[Full article\]](#)

Rabies

- Indonesia:** A five-year-old boy in Sikka Regency died as a result of being bitten by a rabid dog.⁷ This resident of RT 13/RW 04 in Wairhabi Hamlet, Habi Village, Kangae District, Sikka Regency died Monday 8 May 2023, after being bitten by a rabid dog some time ago.⁷ The body was then taken by the family to the funeral home in Habi Village, Kangae District, Sikka Regency.⁷ Meanwhile, from the information collected, the 5-year-old child suffered facial injuries and was treated at the TC Hillers Maumere Hospital.⁷ According to the information, the dog that bit the child died the next day.⁷ Based on the results of laboratory tests at the Denpasar Veterinary Center, the dog tested positive for rabies.⁷ Until now, journalists are still trying to get official information from the agency regarding this incident but there has been no response.⁷ [\[Full article\]](#)
- Malaysia:** A 50-year-old man from Kampung Bumbok, Jalan Batu Kitang has died after being bitten by a rabid dog.⁸ He was the eighth rabies fatality in the state for this year.⁸ Kuching South mayor Datuk Wee Hong Seng revealed the man passed away at Sarawak General Hospital (SGH) around 3:30pm on May 10.⁸ "Sadly, on May 10, there's one person been bitten and has already passed away.⁸ There were previously seven rabies deaths, so plus one more," he told reporters when met at the Solid Waste Management and Improvement Workshop here on May 11.⁸ The man was bitten on the left arm by a stray dog at his home on April 3.⁸ Wee said Kuching South City Council (MBKS) prioritizes human life and as such has carried out joint operations to catch stray dogs and curb the spread of rabies.⁸ "We totally understand the feeling of certain groups of people having the love for their pets and all that.⁸ We want to make it very clear that the joint operation between councils is to catch stray dogs, the dogs without owners.⁸ "They've (dogs) been moving around in the city areas, all those common areas like the parks where people exercise and all that," he said.⁸ He denied accusations of MBKS personnel breaking into homes to catch dogs.⁸ Wee pointed out such accusations have gone viral on social media, which is unfair as the council is striving to stop the spread of the disease because cases are on the rise.⁸ "When you start to share and all



that, it has a very big impact you know.⁸ Do you think that we kill the dogs for fun?" he asked. He pointed out MBKS has joined forces with Kuching North City Commission (DBKU) and Padawan Municipal Council (MPP) on joint operations in six areas to carry out stray dogs catching, vaccination, and neutering drives together with the Department of Veterinary Services (DVS).⁸ "I think there are a lot of things that need to be sorted out. Don't go pointing fingers at each other.⁸ The most important is to solve the problem.⁸ Don't panic the people, and don't accuse people for the things that we did not do," he said.⁸ [\[Full article\]](#)

- **Vietnam:** A man, 56, died of rabies after getting bitten by a dog in Bu Dop District in Vietnam's southern province of Binh Phuoc.⁹ The deceased was identified as L.V.X., a resident of Thanh Hoa Commune.⁹ After the dog bit him, he failed to receive treatment soon, leading to the death, the healthcare center in Bu Dop District said on May 14.⁹ Two months ago, X.⁹ was bitten by his neighbor's dog, but he did not go to a medical facility for rabies vaccination.⁹ The man developed some symptoms of fear of water and light, and shortness of breath on April 28.⁹ As his health condition got worse, his family took him to the healthcare center in Bu Dop District for treatment.⁹ He was transferred to the higher-level medical facility in Binh Phuoc Province and was quickly sent to the Ho Chi Minh City Hospital for Tropical Diseases.⁹ However, he passed away due to his critical condition.⁹ One week before attacking X., the dog bit two other dogs.⁹ The two died after the bites.⁹ Dr. Dang Duc Toan, deputy head of the healthcare center in Bu Dop District, said that after the death, the center asked the caregivers of the patient to get rabies vaccine doses.⁹ [\[Full article\]](#)

Japanese encephalitis

- **Taiwan (Province of China):** The Taiwan Centers for Disease Control and Prevention (CDC) announced today of the first confirmed case of Japanese encephalitis this year in the country.¹⁰ The patient is a man in his 50s from Luzhu District, Kaohsiung City.¹⁰ He developed headache and loss of appetite on May 1.¹⁰ Symptoms such as trembling and inability to move prompted him be sent to the hospital for treatment.¹⁰ On May 4, due to symptoms such as persistent fever, delirium, and unconsciousness, he was transferred to the hospital for treatment and admitted to the hospital.¹⁰ The place of daily activities of the case is mainly around the home.¹⁰ There are high-risk places such as chicken coops, pigeon coops, pig houses, and paddy fields near the home.¹⁰ It is judged that the possibility of infection is higher near the place of residence.¹⁰ Mosquito traps, and at the same time strengthen the health and education publicity to the local people and ask the medical institutions to strengthen the notification.¹⁰ According to the monitoring data of the CDC, there is one confirmed case of Japanese encephalitis in Taiwan, which is the first local case this year; the cumulative number of cases in the country from 2019 to 2022 is 21, 21, 28, and 19 respectively.¹⁰ The Centers for Disease Control and Prevention says the most effective way to prevent Japanese encephalitis is to get vaccinated.¹⁰ [\[Full article\]](#)

Measles

- **Japan:** Two people in Tokyo, a woman in her 30s and a man in her 40s, were confirmed to have measles this week.¹¹ It is the first time since 2020, three years ago, that measles has been confirmed in Tokyo.¹¹ According to the metropolitan government, medical institutions reported on the 10th and 11th that a woman in her 30s and a man in her 40s living in Tokyo were infected with measles.¹¹ Both of them had symptoms of fever, rash, and cough, and when they visited a medical institution, they were confirmed to be infected.¹¹ It is the first time since February 2020, three years ago, that measles has been confirmed in Tokyo.¹¹ Last month, a man in his 30s in Ibaraki Prefecture was confirmed to be infected after returning from India, and the two were on the same Shinkansen on



April 23 that this man was on.¹¹ The city publishes information on the Shinkansen that the two were riding on its website, and will accept consultations from people who have symptoms such as fever and rash on the 13th and 14th.¹¹ [\[Full article\]](#)

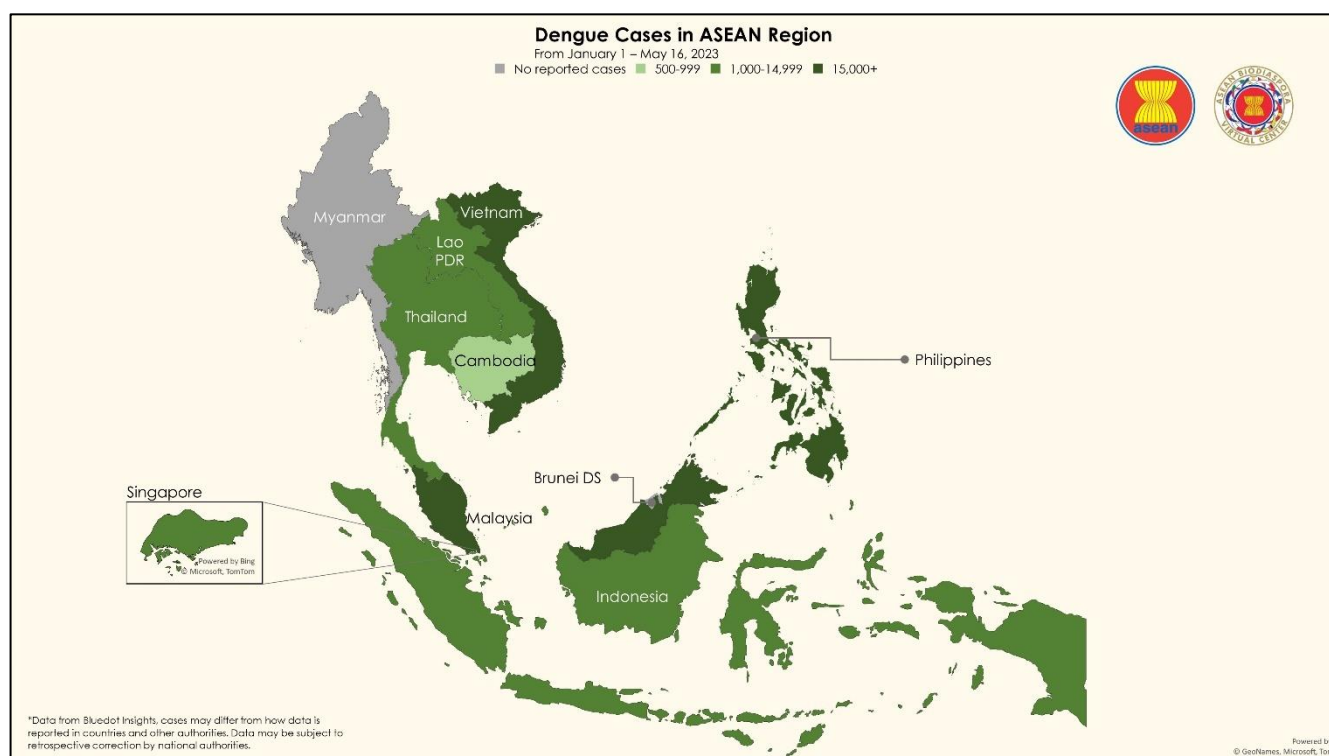
Hepatitis E

- Hong Kong (SAR)** health officials report that they are investigating a case of human infection of rat Hepatitis E virus (HEV).¹² The case involves a 32-year-old man with underlying illnesses.¹² He was found to have an abnormal liver function during his follow-up in Queen Elizabeth Hospital.¹² The patient is now in stable condition.¹² His blood sample tested positive for rat HEV upon laboratory testing.¹² Epidemiological investigations revealed that the patient resides in Wong Tai Sin.¹² He did not have contact with rodents or rats, and had no travel history during the incubation period.¹² Personnel from the Centre for Health Protection (CHP) and the Pest Control Advisory Section of the Food and Environmental Hygiene Department (FEHD) visited the place where the patient lives (Tsz Ching Estate, Wong Tai Sin) and the building where he works at (On Tat Industrial Building, San Po Kong) for environmental investigations.¹² The personnel conducted a site visit to the places concerned to inspect the rodent infestation and environmental hygiene.¹² Accompanied by staff of the Housing Department (HD), the personnel from the CHP and FEHD found some traces of rodents and possible hiding places for rodents in Tsz Ching Estate.¹² The HD has set up rodent traps at the estate immediately in order to further investigate whether the rodents carry HEV.¹² Separately, personnel from the CHP and FEHD also identified significant rodent infestation when they conducted the site visit at On Tat Industrial Building where rubbish are piled up at the rear lane with unsatisfactory environmental hygiene.¹² The personnel have immediately requested the property management staff to improve the environmental hygiene, and has disseminated rodent control guidelines and management rules as well as provided professional opinions on rodent control to them.¹² The CHP will continue its surveillance of HEV, including conducting testing on human and rat HEVs in clinical specimens.¹² The FEHD, HD and property management staff of relevant places will continue to strengthen rodent control measures for enhanced effectiveness on anti-rodent.¹² [\[Full article\]](#)



Dengue Cases in ASEAN Region

From January 1 to May 16, 2023



Dengue cases in ASEAN region

Country	Dengue Cases	New Cases since the previous report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-
Cambodia	750	0	2	0.27%
Indonesia	3,941	0	24	0.61%
Lao PDR	2,041	895	0	0.00%
Malaysia	38,933	3,731	24	0.06%
Myanmar	-	-	-	-
Philippines	31,459	0	99	0.31%
Singapore	3,067	343	0	0.00%
Thailand	3,855	0	1	0.03%
Vietnam	20,537	0	0	0.00%
Total	104,583	4,969	150	0.14%

*Data from Bluedot Insights, cases may differ from how data is reported in countries and other authorities. Data may be subject to retrospective correction by national authorities.

- ASEAN region reported **4,969** new dengue cases in Indonesia since previous report. The region reported **104,583** total cases and **150** total deaths in 2023 with **0.14%** CFR.



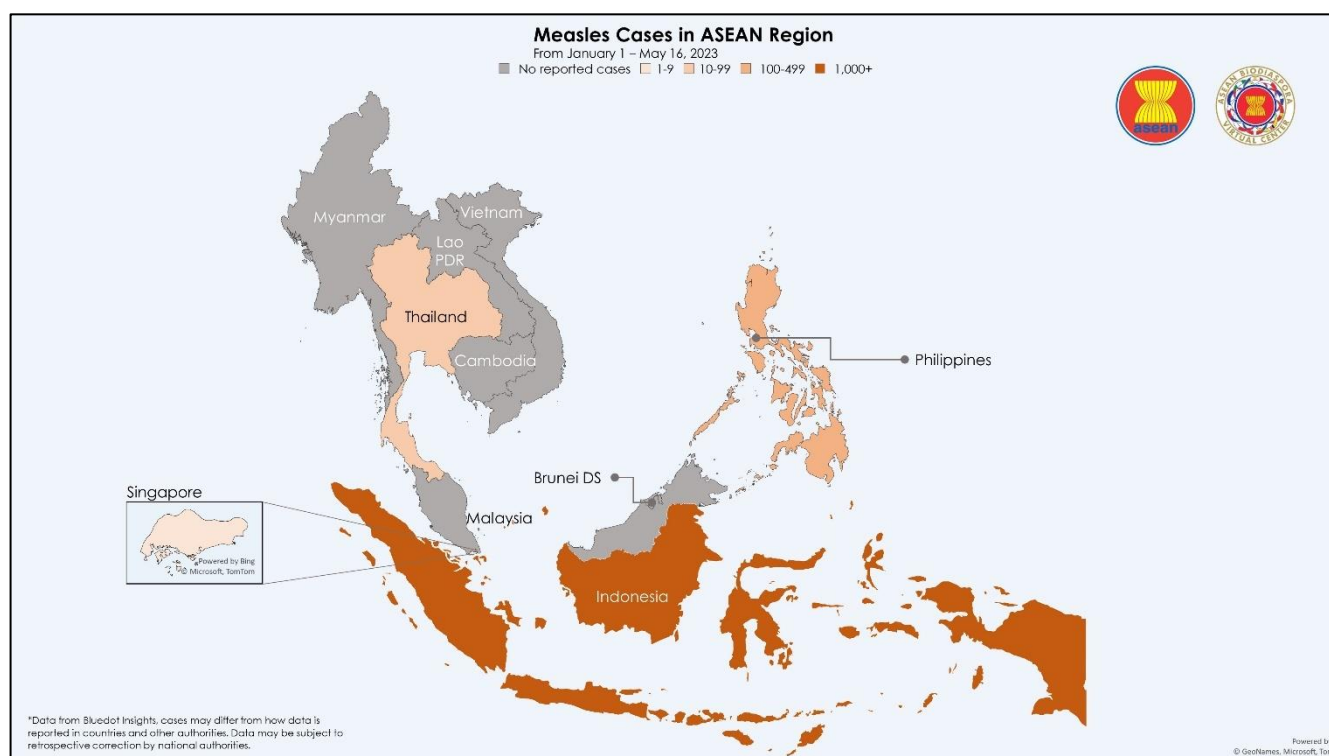
Dengue

- Malaysia:** The Johor health and unity committee chairman said dengue cases continue to rise with 218 cases and one death recorded in week 19 (May 8 to 14).⁵ He said the cases were a 30% increase from 168 cases recorded in the previous week.⁵ "Last week also saw one of the highest number of cases recorded so far this year, bringing the accumulated cases to 2,917.⁵ It is worrying with a huge jump of 415% compared to the corresponding period last year," he said in a statement on Monday (May 15).⁵ He said Johor Baru has the highest number of dengue cases with 154, followed by Kulai (30), Batu Pahat (11), Kluang (eight), Kota Tinggi (four), Muar, Tangkak and Segamat (three each) and Pontian and Mersing (one each).⁵ Ling said the current hot weather with evening rains made it easy for Aedes mosquitoes to breed.⁵ "Besides that, 31 new outbreak localities were identified in Johor Baru, Kulai and Batu Pahat.⁵ At present, there are 347 outbreak localities compared to 48 in the same period last year.⁵ "More than RM1.143mil worth of compounds have been issued by health enforcement officials against those found with Aedes mosquito breeding grounds but the people still lack awareness about the risks of dengue," he said, adding that dengue has claimed five lives so far.⁵ The Yong Peng assemblyman urged the public to keep their homes and workplaces clean by disposing of stagnant water in containers and the surroundings.⁵ Ling also urged schools to organize gotong royong activities from time to time to keep the premises clean.⁵ [\[Full article\]](#)



Measles Cases in ASEAN Region

From January 1 to May 16, 2023



Measles cases in ASEAN region

Country	Measles Cases	New Cases since the previous report	Deaths	Case Fatality Rate (CFR)
Brunei Darussalam	-	-	-	-
Cambodia	-	-	-	-
Indonesia	2,161	0	17	0.79%
Lao PDR	-	-	-	-
Malaysia	-	-	-	-
Myanmar	-	-	-	-
Philippines	308	0	-	0.00%
Singapore	5	0	-	0.00%
Thailand	73	0	-	0.00%
Vietnam	-	-	-	-
Total	2,547	0	17	0.67%

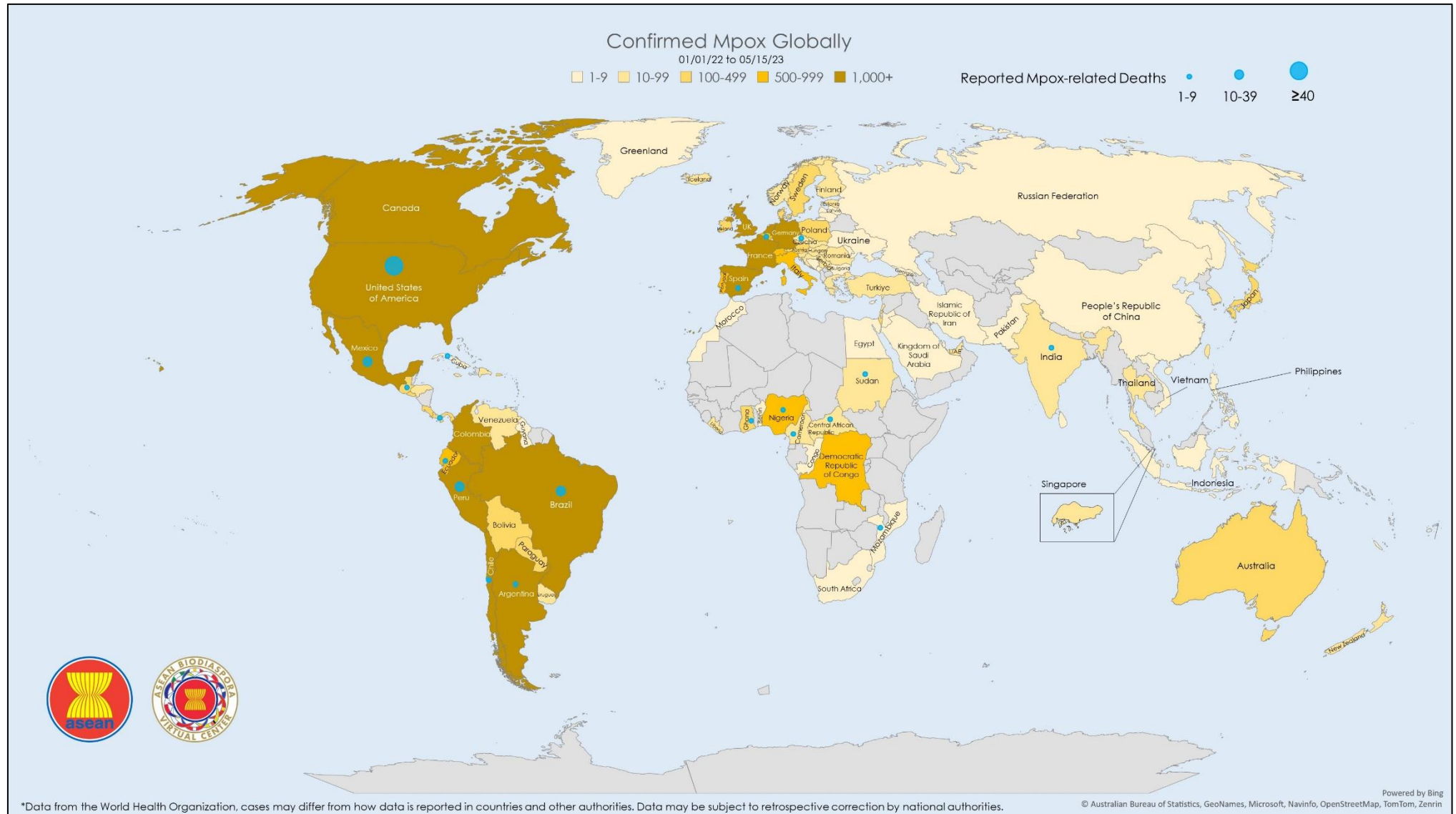
*Data from Bluedot Insights, cases may differ from how data is reported in countries and other authorities. Data may be subject to retrospective correction by national authorities.

- ASEAN region reported **NO** new measles cases for the week. The region reported **2,547** total cases and **17** total deaths in 2023 with **0.67%** CFR.



Mpox Cases Reported Globally

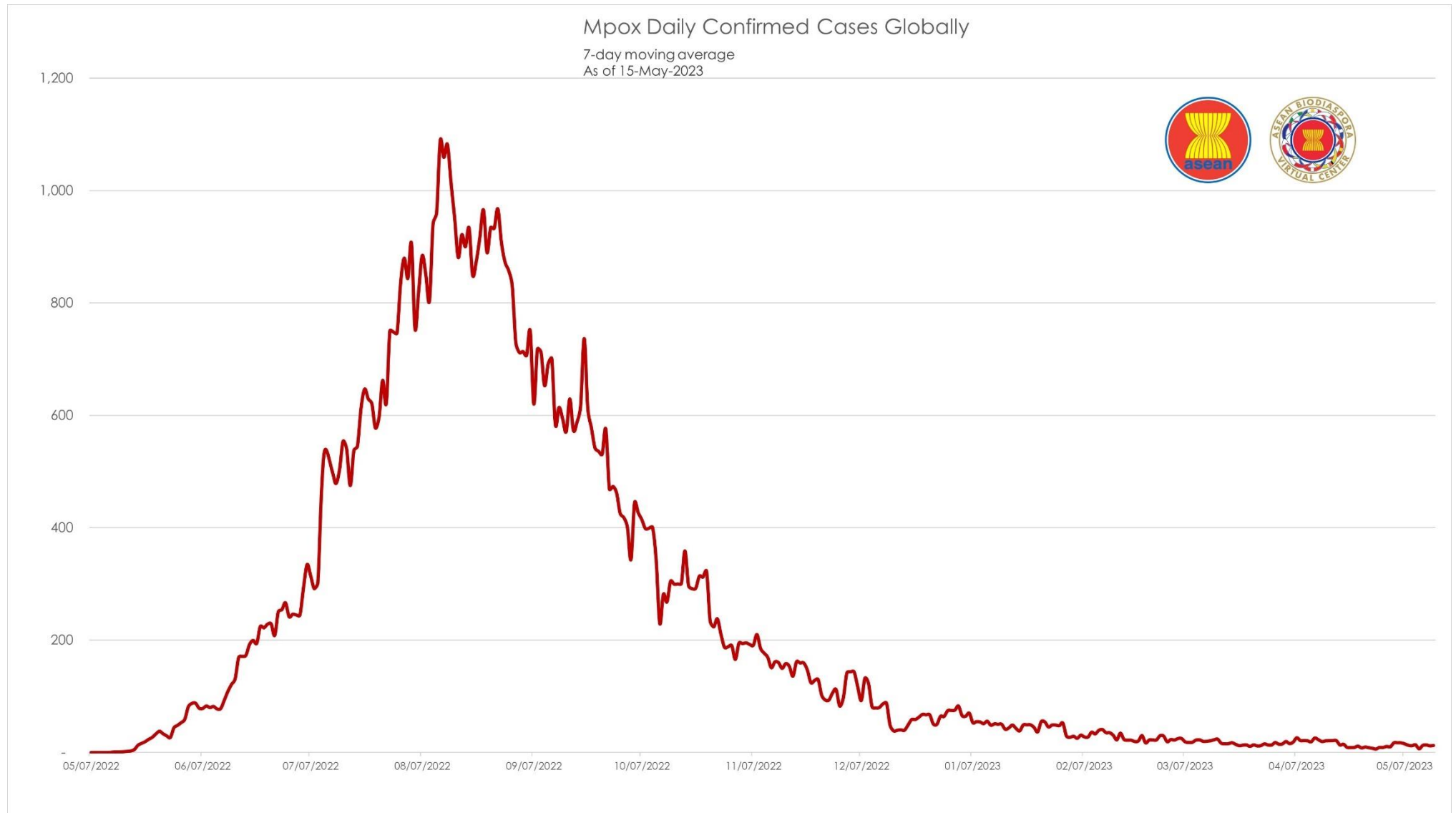
as of May 15, 2023





Mpox Daily Trend Globally

as of May 15, 2023





Mpox: Highlights and Situation Overview

- As of 15 May 2023 (1PM, GMT+7), worldwide, there were **87,429** confirmed cases, including **140** deaths. Globally, Case Fatality Rate (CFR) was **0.16%**.
- 59 confirmed cases** in the ASEAN region, with CFR of **0%**.
- 87,370 confirmed cases** of Mpox have been reported in other **5 regions** (other than ASEAN region):

Mpox cases in ASEAN region

Country	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
Indonesia	1	-	-	0.00%
Philippines	5	1	-	0.00%
Singapore	25	-	-	0.00%
Thailand	26	-	-	0.00%
Vietnam	2	-	-	0.00%
ASEAN Total	59	1	-	0.00%

Mpox cases in Asia-Pacific region

Country/Territory	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
Australia	145	-	-	0.00%
India	22	-	1	4.55%
Japan	135	8	-	0.00%
New Caledonia	1	-	-	0.00%
New Zealand	41	-	-	0.00%
People's Republic of China*	87	-	-	0.00%
Republic of Korea	75	7	-	0.00%
Sri Lanka	2	-	-	0.00%
Asia-Pacific Total	508	25	1	0.20%

*People's Republic of China – including Hong Kong (SAR), Macao (SAR), and Taiwan (Province of China)

Top 5 countries with the most mpox cases globally

Country	Total Cases	New Cases	Deaths	Case Fatality Rate (CFR)
United States of America	30,154	-	42	0.14%
Brazil	10,920	-	16	0.15%
Spain	7,551	-	3	0.04%
France	4,146	-	-	0.00%
Colombia	4,090	-	-	0.00%



Mpox cases per region

REGION	TOTAL CONFIRMED CASES SINCE JANUARY 1, 2022	NEW CASES SINCE THE PREVIOUS REPORT	TOTAL DEATHS	CASE FATALITY RATE
AFRICA	1,626	-	19	1.17%
AMERICAS	59,294	-	114	0.19%
ASEAN	59	1	-	0.00%
ASIA PACIFIC	508	15	1	0.20%
EUROPE	25,617	1	6	0.02%
MIDDLE EAST	325	-	-	0.00%
TOTAL	87,429	17	140	0.16%

Global Update

- The **Centers for Disease Control and Prevention (CDC)** on May 15 (Wednesday) warned health providers about the possibility of an mpox resurgence connected to summer festivals and gatherings.³ CDC said that together with local health officials, they are investigating a cluster of cases in the Chicago area.³ Earlier this month, Chicago health providers sounded the alarm about a cluster of seven cases reported since the middle of April.³ From April 17 to May 5, 2023, a total of 12 confirmed and one probable case of mpox were reported to the Chicago Department of Public Health.³ All cases were among symptomatic men.³ Among the 13 cases, 9 patients had received two Jynneos vaccine doses.³ Travel history available for nine patients revealed that four had recently traveled, with locations including New York City, New Orleans, and Mexico.³ Though uptake varies widely by location, the CDC projects that the risk of resurgence is greater than 35% for most locations without stepped-up vaccination or adapting of sexual behaviors to prevent the spread of the virus.³ [\[Full report\]](#)
- **South Korea** recorded 16 new cases of monkeypox in the first week of May, bringing the total number of cases in the country to 60, health authorities said on May 8.⁴ A total of 11 cases were reported from the capital Seoul, then two from Gyeonggi Province and three others from Incheon, Busan and Gwangju, Yonhap News Agency reported, citing the Korea Disease Control and Prevention Agency.⁴ Of the 16 patients, 14 were South Korean nationals and two were foreigners, and none of them had traveled abroad in the past three weeks, according to the agency.⁴ South Korea recorded its first monkeypox case in June last year and four additional cases through March.⁴ The first five cases are linked to overseas travel.⁴ [\[Full article\]](#)



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