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## Maine Health Alert Network (HAN) System

### PUBLIC HEALTH ADVISORY

**To:** Health Care Providers  
**From:** Dr. Isaac Benowitz, State Epidemiologist  
**Subject:** U.S. CDC: Ongoing Risk of Dengue Virus Infections and Updated Testing Recommendations in the United States  
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## U.S. CDC: Ongoing Risk of Dengue Virus Infections and Updated Testing Recommendations in the United States

Please take a moment to review this U.S. CDC health advisory about an increased risk of dengue virus infections in the U.S. in connection with an ongoing global surge in dengue activity. It outlines key actions that clinicians can take to recognize dengue in people with fever and pertinent travel, order appropriate tests, ensure timely reporting to public health authorities, and promote prevention measures in areas where dengue transmission may occur.

The risk of locally-transmitted dengue in Maine remains very low. People in Maine are more likely to acquire dengue infection while traveling to locations with ongoing dengue activity. So far in 2025, Maine reported one confirmed dengue case in a returning traveler. The two primary mosquito vector species associated with dengue virus transmission, *Aedes aegypti* and *Aedes albopictus*, are not currently found in Maine. However, Maine sits at the northern [potential range](#) of *Aedes albopictus* mosquitoes and conducts mosquito surveillance looking for the emergence of these mosquito species.

Health care providers should consider a dengue diagnosis in patients with unexplained febrile illness, particularly patients returning from areas with [heightened dengue activity](#). Confirmed and suspected patients with dengue should be reported to the Maine CDC by electronic laboratory reporting.

Testing for dengue is available at commercial laboratories as well as Maine's Health and Environmental Testing Laboratory (HETL). PCR is the preferred method of testing. Providers interested in pursuing dengue testing at HETL should complete a HETL [Requisition Form](#) and the [Human Arboviral Submission Form](#). Results are usually available within 1-3 business days. Refer to these [instructions](#) for submitting samples to HETL.

For more information on dengue, please visit [www.cdc.gov/dengue](http://www.cdc.gov/dengue).

## Summary

The U.S. Centers for Disease Control and Prevention (U.S. CDC) is issuing this Health Alert Network (HAN) Health Update to provide additional information to health care providers, public health departments, and the public about the ongoing risk of dengue virus (DENV) infections and updates to testing recommendations in the United States. [Dengue activity remains high in some parts of the United States](#) and globally, with many countries reporting higher-than-usual number of [dengue cases](#) in 2024 and 2025. Health care providers and the public are urged to continue to take steps to prevent, detect, diagnose, and respond to dengue as described in the June 2024 [HAN Health Advisory \(CDCHAN-00511\)](#) on dengue in the United States. Updates include:

1. Dengue virus transmission remains high in the Americas region, including in the U.S. territories of Puerto Rico and the U.S. Virgin Islands. Spring and summer travel coincide with the peak season for dengue in many countries, increasing the risk of both travel-associated and locally acquired cases in the United States.
2. Use the [CDC DENV-1-4 real time reverse transcriptase polymerase chain reaction \(RT-PCR\) assay](#) when dengue is the most likely diagnosis.

## Background

[Dengue](#) is caused by four distinct but closely related dengue viruses or serotypes (DENV-1, -2, -3, and -4). Infection with one DENV usually induces lifelong immunity to that serotype and short-term immunity to other DENV serotypes for months to years. Repeat infections with different serotypes can occur, particularly in DENV endemic areas. Approximately one in four DENV infections are symptomatic. Infection with any DENV serotype can cause severe illness, particularly in infants aged ≤1 year, pregnant women, adults aged ≥65 years, people with [certain medical conditions](#), and people with previous DENV infections.

Globally, dengue cases have [increased substantially in the last 5 years](#), with the most pronounced increases occurring in the Americas. [In the Americas region](#), 4.6 million cases and 2,400 deaths were reported in 2023, followed by 13 million cases and 8,200 deaths in 2024. As of March 6, more than 760,000 dengue cases have been reported in 2025, which is a 15% increase compared to the previous 5-year average. Epidemics in the Americas region are expected to increase both travel-associated cases and the possibility of local transmission in the continental United States in areas with competent mosquito vectors. Spring and summer travel in the United States overlaps with the months of increased seasonal dengue activity in many countries.

All four DENV serotypes were reported among travelers returning to the United States in 2024. DENV-3 was the most common serotype identified in 2024, but the proportion of cases caused by DENV-4 has been increasing in recent months. During October 2024–January 2025, DENV-4 was identified in 50% of travel-associated dengue cases among cases with DENV serotype available. In addition, [DENV-3 has re-emerged after a prolonged absence in multiple countries](#) during 2024 and 2025. Introductions of new serotypes have been associated with increasing size and frequency of dengue outbreaks, as well as more severe clinical outcomes in patients with previous DENV exposure.

In Puerto Rico, reported dengue cases have remained above the outbreak threshold since February 2024. A public health emergency was declared in March 2024 and remains in effect. In 2024, [6,291](#)

[cases were reported](#), more than 52% (3,292) required hospitalization and there were 13 deaths. As of March 7, 2025, 936 cases have been reported, representing a 113% increase compared to the same period in 2024.

In the U.S. Virgin Islands, a dengue outbreak was declared in August 2024 and remains in effect. A total of 208 locally acquired cases were identified in 2024, and 30 in 2025 as of March 7, 2025.

In the continental United States in 2024, locally acquired cases were reported in [Florida](#) (91), California (18), and Texas (1). A record number of dengue cases were identified among U.S. travelers (3,483 cases), which is an 84% increase compared to the previous year. This trend is expected to continue with increased dengue activity in endemic areas in 2025. The highest numbers of travel-associated cases in 2024 were reported in [Florida](#) (1,016) followed by [California](#) (648), and New York (327).

U.S. CDC will continue to support state, tribal, local, and territorial public health partners; clinicians; and public health laboratories in case detection, surveillance, and outreach to respond to the ongoing threat of dengue in the United States.

### Recommendations for Health Care Providers

- Review and be familiar with the recommendations for health care providers in the June 2024 [HAN \(CDCHAN-00511\)](#) on dengue in the United States. This includes information about reporting cases, clinical presentation and care (including severe dengue), vaccination, testing, and patient outreach.
- Take a thorough travel history for patients presenting with acute febrile illness as initial clinical presentation is similar among many vector-borne diseases such as [dengue](#), [Zika](#), [chikungunya](#), and [Oropouche](#).
- Advise patients who plan to travel to take steps to prevent mosquito bites during travel and for 3 weeks after returning, especially if traveling to an area with [frequent or continuous dengue transmission](#).
- Continue to have increased suspicion of dengue among people with fever who have been in areas with [frequent or continuous dengue transmission](#) within 14 days before illness onset.
- Patients with suspected DENV infection should be tested with RT-PCR (i.e., a nucleic acid amplification test [NAAT]) or an NS1 antigen test, as well as with an IgM enzyme-linked immunosorbent assay (ELISA) antibody test. These tests are available from commercial laboratories and public health laboratories.
  - These tests can be considered regardless of the symptom onset date, although the sensitivity of RT-PCR and NS1 antigen tests decrease after the first 7 days of symptoms.
  - If the patient test negative for dengue, consider testing for other infectious diseases that might be occurring in the location where the patient was likely exposed. Zika, chikungunya, and Oropouche can all have similar clinical signs and symptoms and often circulate in the same areas as dengue.

### Recommendations for the Public

- Review and be familiar with the recommendations for the public in the June 2024 [HAN \(CDCHAN-00511\)](#) on dengue in the United States and CDC's current [Travel Health Notice on global dengue](#).

- Take steps to [prevent mosquito bites](#) during travel, particularly if traveling to an [area with frequent or continuous dengue transmission](#). In addition, take steps to prevent mosquito bites for 3 weeks after travel to avoid possibly spreading the virus to others if you are in an area where mosquitoes are active. These activities will also lower the risk for other vector-borne diseases.

## For More Information

### *For Health Care Providers*

- [Clinical Testing Guidance for Dengue | Dengue | U.S. CDC](#)
- [Guidelines for Classifying Dengue | Dengue | U.S. CDC](#)
- [Clinical Features of Dengue | Dengue | U.S. CDC](#)
- [Dengue Clinical Management Pocket Guide | Dengue | U.S. CDC](#)
- [Dengue During Pregnancy | Dengue | U.S. CDC](#)
- [Dengue Vaccine | Dengue | U.S. CDC](#)
- [Dengue | Yellow Book 2024 | U.S. CDC](#)
- [Dengue Clinical Management Course | Dengue | U.S. CDC](#)
- [Current Dengue Outbreak | Dengue | U.S. CDC](#)
- [Fact Sheet for Health Care Providers: Interpreting Trioplex Real Time RT-PCR Assay \(Trioplex rRT-PCR\) Results](#)

### *For the Public*

- [Preventing Dengue | Dengue | U.S. CDC](#)
- [Preventing Mosquito Bites While Traveling | U.S. CDC](#)
- [Dengue During Pregnancy | Dengue | U.S. CDC](#)
- [Caring for a Family Member with Dengue | U.S. CDC](#)
- [Mosquito Control at Home | Mosquitoes | U.S. CDC](#)
- [Get Rid of Mosquitos at Home | U.S. CDC](#)
- [Your Infant Has Dengue | U.S. CDC](#)
- [Areas with Risk of Dengue | Dengue | U.S. CDC](#)
- [Global Dengue | Travel Health Notices | U.S. CDC](#)
- [Find a Clinic | Travelers' Health | U.S. CDC](#)
- [Current Dengue Outbreak | Dengue | U.S. CDC](#)
- [About Dengue Fact Sheet | Dengue | U.S. CDC](#)
- [Fact sheet for pregnant women: Understanding results from the Trioplex Real-Time RT-PCR Assay \(Trioplex rRT-PCR\)](#)

## References

1. Pan American Health Organization. [Report on the epidemiological situation of dengue in the Americas](#). February 27, 2024.
2. Pan American Health Organization. [Epidemiological Update — Increase in dengue cases in the Region of the Americas](#). June 18, 2024.
3. Pan American Health Organization. [Epidemiological Alert — Risk of dengue outbreaks due to increased circulation of DENV-3 in the Americas Region](#). February 7, 2025.
4. Ware-Gilmore F, Rodriguez DM, Ryff K, et al. Dengue outbreak and response — Puerto Rico, 2024. *MMWR Morb Mortal Wkly Rep* 2025;74:54–60. DOI: [15585/mmwr.mm7405a1](#)

5. Wong JM, Adams LE, Durbin AP, et al. Dengue: A growing problem with new interventions. *Pediatrics*. 2022;149(6):e2021055522. DOI: [1542/peds.2021-055522](https://doi.org/10.1542/peds.2021-055522)
6. World Health Organization. [Dengue – Global situation](#). May 30, 2024.