

DEPARTMENT OF PUBLIC HEALTH AND HUMAN SERVICES



Brian Schweitzer
GOVERNOR

Anna Whiting Sorrell
DIRECTOR

STATE OF MONTANA

www.dphhs.mt.gov

PO BOX 4210
HELENA, MT 59604-4210
(406) 444-5622
FAX (406) 444-1970

State of Montana DPHHS HAN ADVISORY

Forwarding Instructions:

FORWARD to your local HAN contacts

DPHHS Information / Recommendations:

Increased Potential for Dengue Infection in Travelers Returning from International and Selected Domestic Areas

1. Dengue cases HAVE been diagnosed and reported in Montana residents. In 2009, there were two reported cases in travelers to dengue-affected areas. *Report all suspected or confirmed cases to the local public health department.*
2. Please submit an acute serum specimen (2ml off red blood cells, shipped cold) within 5 days of onset of symptoms to the Montana Public Health Laboratory (MTPHL), who will forward to the CDC. Arrangements should also be made with the patient to obtain a convalescent specimen, drawn approximately 2 weeks after onset, and submitted to MTPHL for referral testing at CDC.

DPHHS Subject Matter Expert (SME) Contact:

Questions? 1-800-821-7284

Distributed by the Department of Public Health and Human Services Health Alert Network (HAN) System

DPHHS Health Alert Hotline: 1-800-701-5769

DPHHS HAN Website: www.han.mt.gov

You have received this message based upon the information contained within our emergency notification data base. If you have a different e-mail or fax address that you would like us to use please notify us as soon as possible by e-mail at hhshan@mt.gov.

The goal of Montana's Health Alert Network is to transmit information to local public health authorities as quickly as possible, and assign a suitable priority to the message. For questions or comments about Montana's HAN system you may contact the DPHHS HAN Coordinator, Gerry Wheat at gwheat@mt.gov.

Categories of Health Alert Messages:

Health Alert: conveys the highest level of importance; warrants immediate action or attention.

Health Advisory: provides important information for a specific incident or situation; may not require immediate action.

**DEPARTMENT OF
PUBLIC HEALTH AND HUMAN SERVICES**



Brian Schweitzer
GOVERNOR

Anna Whiting Sorrell
DIRECTOR

STATE OF MONTANA

www.dphhs.mt.gov

PO BOX 4210
HELENA, MT 59604-4210
(406) 444-5622
FAX (406) 444-1970

Health Update: provides updated information regarding an incident or situation; unlikely to require immediate action.

From: Health Alert Network (CDC) [healthalert@cdc.gov]
Sent: Thursday, July 22, 2010 4:39 PM
To: Health Alert Network (CDC)
Subject: CDC Health Advisory 000315 - Increased Potential for Dengue Infection in Travelers Returning from International and Selected Domestic Areas

This is an official
CDC HEALTH ADVISORY

Distributed via Health Alert Network
July 22, 2010, 18:35 EST (6:35 PM EST)
CDCHAN-000315-2010-07-22-ADV-N

Increased Potential for Dengue Infection in Travelers Returning from International and Selected Domestic Areas

Summary: Dengue virus transmission has been increasing to epidemic levels in many parts of the tropics and subtropics. Travelers to these areas are at risk of acquiring dengue virus and developing dengue fever (DF) or the severe form of the disease, dengue hemorrhagic fever (DHF). The Centers for Disease Control and Prevention (CDC) strongly advises that health care providers in the United States should: 1) consider DF and DHF when evaluating patients returning from dengue-affected areas--both domestic and abroad--who present with an acute febrile illness within two weeks of their return, 2) submit serum specimens for appropriate laboratory testing, and 3) report all presumptive and confirmed cases of DF and DHF to their local or state health department.

Background

Dengue transmission has been increasing to epidemic levels in many parts of the tropics and subtropics where it had previously been absent or mild. Dengue-affected areas are widely distributed throughout Africa, Asia, Pacific, the Americas and the Caribbean. This calendar year, more than 50 countries have reported evidence of dengue transmission; including 17 countries in Asia, 17 in the Americas, 10 in Africa, seven in the Caribbean, and one in the Pacific. With an extensive dengue outbreak occurring in Puerto Rico and evidence of continued transmission in Key West, Florida, travel to certain domestic locations may also pose a risk for the traveler. The mosquitoes known to transmit dengue virus, *Aedes aegypti* and *Aedes albopictus*, are present throughout much of the southeastern United States and infected returning travelers may pose a risk for initiating local transmission.

Symptoms

Dengue virus infections can manifest as a subclinical infection or DF, and may develop into potentially fatal DHF. DF is a self-limited febrile illness that is characterized by high fever plus two or more of the following: headache, retro-orbital pain, joint pain, muscle or bone pain, rash, mild hemorrhagic manifestations (e.g., bleeding of nose or gums, petechiae, or easy bruising), and leukopenia. Because the incubation period for dengue infection ranges from 3 to 14 days, the patient may not present with illness until after returning from travel. Clinical management of DF consists of symptomatic treatment (avoid aspirin, NSAIDs and corticosteroids, as they can promote hemorrhage) and monitoring for the development of severe disease at or around the time of defervescence. A

small proportion of patients develop DHF, which is characterized by presence of resolving fever or a recent history of fever, lasting 2–7 days, any hemorrhagic manifestation, thrombocytopenia (platelet count $\leq 100,000/\text{mm}^3$), and increased vascular permeability, evidenced by hemoconcentration, hypoalbuminemia or hypoproteinemia, ascites, or pleural effusion. DHF can result in circulatory instability or shock. Adequate management requires timely recognition and hospitalization, close monitoring of hemodynamic status, and judicious administration of intravascular fluids. There is no antiviral drug or vaccine against the dengue virus. Updated guidelines for the management of dengue can be found at http://whqlibdoc.who.int/publications/2009/9789241547871_eng.pdf

Recommendations

- Health care providers seeing patients with dengue-like illness who have recently traveled to Puerto Rico, Key West, Florida or international dengue-affected areas (See world distribution of dengue maps at <http://wwwnc.cdc.gov/travel/yellowbook/2010/chapter-5/dengue-fever-dengue-hemorrhagic-fever.aspx>) should report cases to the local or state health department and send specimens for laboratory testing. DF and DHF are now nationally notifiable conditions in the United States. Please remember that apart from individuals traveling for tourism, individuals responding to international disasters (e.g., Haiti earthquake), participating in medical or religious missionary work, and visiting friends and relatives are often returning from dengue-affected areas and should be evaluated for dengue infection if they present with dengue-like illness during or after their travel.
- Reporting to local public health officials and consideration of hospitalization to initiate supportive care should not be delayed pending test results. Reporting suspected dengue cases will trigger a public health investigation and the implementation of prevention measures.
- Specimens from patients with acute febrile illness, who returned from dengue-affected areas within the past 14 days, should be submitted to their local or state health department, if the health department laboratory offers dengue testing. State health departments with the capacity to test for dengue include: AZ, CA, CT, FL, NY, PR, and TX.
- If the local or state health department does not perform dengue testing, submit specimens directly to CDC laboratories in San Juan, Puerto Rico (address below). CDC offers free diagnostic testing for health care providers and confirmatory dengue testing for health department and private laboratories. A completed CDC Dengue Case Investigation Form (http://www.cdc.gov/Dengue/resources/DCIF_English_ColorSept1508_FINAL_.pdf) must accompany the specimens for the appropriate testing to be performed.

Whenever possible, submit paired acute and convalescent specimens (2 ml of centrifuged serum.) Accuracy is increased when both acute and convalescent specimens are available for testing. But providers should not wait and should submit acute specimens as soon as available; a convalescent specimen can be submitted when available.

Type of specimen	Interval since onset of symptoms	Type of Analysis
Acute	until day 5	RT-PCR for dengue virus
Convalescent	6 to 30 days	ELISA for dengue IgM

Centers for Disease Control & Prevention

Dengue Branch

1324 Cañada Street

San Juan, Puerto Rico 00920

Tel: (787) 706-2399; Fax (787) 706-2496

For More Information

- Instructions for the preparing and delivering specimens for dengue testing to the CDC Dengue Branch is available at: www.cdc.gov/Dengue/resources/TestpolEng_2.pdf.
- Additional information about dengue is available at: www.cdc.gov/dengue
- Call CDC's toll-free information line, 800-CDC-INFO (800-232-4636) TTY: (888) 232-6348, which is available 24 hours a day, every day.

Categories of Health Alert messages:

Health Alert conveys the highest level of importance; warrants immediate action or attention.

Health Advisory provides important information for a specific incident or situation; may not require immediate action.

Health Update provides updated information regarding an incident or situation; unlikely to require immediate action.

This Message was distributed to State and Local Health Officers, Public Information Officers, Epidemiologists and HAN Coordinators as well as Clinician organizations

=====
You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail or fax address that you would like us to use please contact your State-based Health Alert Network program at your State or local health department.
=====