DPHHS HAN Health Advisory

Cover Sheet

DATE: 9/10/2018

SUBJECT: CDC Advice to Clinicians about Leptospirosis in

U.S. Travelers Returning from Northern Israel

INSTRUCTIONS:

DISTRIBUTE AT YOUR DISCRETION. Share this information with relevant SMEs or contacts (internal and external) as you see fit.

For LOCAL HEALTH DEPARTMENT reference only

DPHHS Subject Matter Resource for more information regarding this HAN, contact:

DPHHS CDCP Epidemiology Section 1-406-444-0273

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

DPHHS HAN Website: www.han.mt.gov

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Please ensure that DPHHS is included on your HAN distribution list. hhshan@mt.gov

Categories of Health Alert Messages:

<u>Health Alert</u>: 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

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

<u>Information Service</u>: passes along low level priority messages that do not fit other HAN categories and are for informational purposes only.

Please update your HAN contact information on the Montana Public Health Directory

State of Montana Health Alert Network

DPHHS HAN

Date: September 10, 2018



Information Sheet

Subject: CDC Advice to Clinicians about Leptospirosis in U.S. Travelers Returning from Northern Israel

Background: Seven recreational water sites in the Golan Heights region have been linked to the outbreak: Gilabun (Jilbon) Yarden (Jordan) Park Majrase (Majrase-Beteha Nature Reserve) Meshushim (Meshushim Nature Reserve) Yehudiya (Yehudia Nature Reserve) Zaki (Zakhi) Zavitan

Information: The attached Health Alert Network (HAN) message provides information on an outbreak of leptospirosis cases in Northern Israel with exposure to natural water sources after July 1, 2018, and advises clinicians to consider leptospirosis as a diagnosis among travelers to the region who are experiencing fever, headache, chills, muscle aches, vomiting, diarrhea, cough, conjunctival suffusion, jaundice, and sometimes a rash.

Recommendations: This HAN is being shared as an FYI, and can be forwarded to your local HAN network at your discretion. Please emphasize the need to contact the local health jurisdiction if a travel-associated case of leptospirosis is suspected. Montana has not reported any cases of leptospirosis in the past five years.

This is an official CDC HEALTH ADVISORY

Distributed via the CDC Health Alert Network September 07, 2018, 13:45 ET (1:45 PM ET) CDCHAN-00414

Advice to Clinicians about Leptospirosis in U.S. Travelers Returning from Northern Israel

Summary

The Israeli Ministry of Health is reporting an outbreak of leptospirosis in persons with exposure to natural water sources in the Golan Heights region of northern Israel after July 1, 2018. As of September 6, 2018, three persons with leptospirosis who traveled to Israel have been identified in the United States, with additional suspected cases reported and under investigation. Early symptoms of leptospirosis include fever, headache, chills, muscle aches, vomiting, diarrhea, cough, conjunctival suffusion (conjunctival redness without exudates), jaundice, and sometimes a rash. Clinicians should consider leptospirosis as a diagnosis in any patient who develops an acute febrile illness within 4 weeks of travel to one of the areas in northern Israel listed below since July 1, 2018.

Background

Seven recreational water sites in the Golan Heights region have been linked to the outbreak:

- Gilabun (Jilbon)
- Yarden (Jordan) Park
- Majrase (Majrase-Beteha Nature Reserve)
- Meshushim (Meshushim Nature Reserve)
- Yehudiya (Yehudia Nature Reserve)
- Zaki (Zakhi)
- Zavitan

Leptospira species are spread by the urine of infected animals and can survive for weeks to months in fresh water, soil, and mud. The incubation period is usually 5-14 days, with a range of 2-30 days. Humans acquire the disease through direct contact with urine from animals infected with leptospirosis or with urine-contaminated water or mud. High-risk activities can include wading, swimming, or boating in floodwater or freshwater (rivers, streams, lakes) that may be contaminated with animal urine. Some actions like prolonged immersion in, submerging head in, or swallowing contaminated water can particularly increase risk. Other high risk activities can include direct contact with animals and activities that can lead to skin abrasions and water or soil exposure. Human-to-human transmission is very rare but has been documented through sexual intercourse and breastfeeding. Transmission has also rarely occurred through animal bites.

In humans, leptospirosis can cause a wide range of symptoms. Most patients have a mild flu-like illness with symptoms including fever, headache, muscle aches, conjunctival suffusion, vomiting, diarrhea, jaundice, and sometimes a rash. Some patients may go on to develop severe illness, including liver and renal failure, hemorrhage (especially pulmonary), aseptic meningitis, cardiac arrhythmias, and pulmonary insufficiency. Leptospirosis is fatal in approximately 5-15% of patients with severe illness.

Recommendations

Clinicians should evaluate patients for leptospirosis who have onset of an acute febrile illness within 4 weeks of travel to the Golan Heights region in northern Israel, especially with exposure to one of the seven natural water recreational sites listed above. If clinicians suspect leptospirosis in a patient, they

should initiate treatment with antibiotics (e.g., doxycycline or penicillin) prior to receiving results of diagnostic tests, as earlier treatment is associated with a decrease in duration and severity of disease. For more specifics about antibiotics and dosage, please see CDC's leptospirosis fact sheet for clinicians.

Commercially available tests include:

- Polymerase chain reaction (PCR): a positive result is confirmatory, but a negative result does not rule out leptospirosis.
 - In the acute phase of illness, leptospires are present in the blood (septicemia) for approximately the first 4–6 days of illness. Leptospires may be shed intermittently in the urine after approximately the first week of illness onset.
- Screening (non-confirmatory) IgM-based serologic assays (ELISA, ImmunoDot): serologic test results may be falsely negative early in the course of the disease.
 - Antibodies to leptospires develop between 3-10 days after symptom onset, thus any serologic test must be interpreted accordingly. Negative serologic test results from samples collected in the first week of illness do not rule out disease. Repeat serologic testing on convalescent-phase samples collected 7-14 days after the first testing.

Samples can be sent to the Centers for Disease Control and Prevention (CDC) for confirmatory testing (PCR and confirmatory serologic testing by the microscopic agglutination test). Send all specimens through the state/territorial public health department, unless authorized to send directly to CDC. Specimen submission instructions are available at CDC's Zoonoses and Select Agent Laboratory website (https://www.cdc.gov/ncezid/dhcpp/bacterial_special/zoonoses_lab.html).

It is best to submit as many specimen types as possible (both in terms of type of body fluid and collection date within illness progression). Recommended specimens based on collection timing:

- Acute-phase illness (first week): whole blood and serum
- · Convalescent-phase illness (after first week): serum, with or without urine

Leptospirosis is a nationally notifiable disease. Clinicians should report leptospirosis cases to their local/state health department according to their state's disease reporting requirements.

For More Information

- Leptospirosis diagnosis and management https://www.cdc.gov/leptospirosis/index.html
- CDC leptospirosis fact sheet for clinicians https://www.cdc.gov/leptospirosis/pdf/fs-leptospirosis-clinicians-eng-508.pdf
- 3. Leptospirosis chapter in CDC <u>Health Information for International Travel</u> (Yellow Book) https://wwwnc.cdc.gov/travel/yellowbook/2018/infectious-diseases-related-to-travel/leptospirosis
- 4. Travel health notice on leptospirosis cases: https://wwwnc.cdc.gov/travel/notices/watch/leptospirosis-israel
- New CDC "Think Travel" posters to remind clinicians and patients about the importance of travel history https://wwwnc.cdc.gov/travel/page/infographics-travelers#thposters
- CDC-INFO https://www.cdc.gov/cdc-info/index.html or 1-800-232-4636

- 7. CDC Emergency Operations Center (EOC) 770-488-7100
- 8. CDC's Bacterial Special Pathogens Branch bspb@cdc.gov or 404-639-1711

The Centers for Disease Control and Prevention (CDC) protects people's health and safety by preventing and controlling diseases and injuries; enhances health decisions by providing credible information on critical health issues; and promotes healthy living through strong partnerships with local, national, and international organizations.

Categories of Health Alert Network messages:

Health Alert Requires immediate action or attention; highest level of importance

Health Advisory May not require immediate action; provides important information for a specific incident or situation **Health Update** Unlikely to require immediate action; provides updated information regarding an incident or situation

HAN Info Service Does not require immediate action; provides general public health information

##This message was distributed to state and local health officers, state and local epidemiologists, state and local laboratory directors, public information officers, HAN coordinators, and clinician organizations##