



Health Alert Network

Tri-County Health Department

Serving Adams, Arapahoe and Douglas Counties

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The pages that follow contain information critical to protecting the health of your patients and the citizens of Colorado.

HAN UPDATE

Number of pages including cover: 5

Subject: **Update - Recommendations for Diagnostic Testing of Specimens for Suspected Zika Virus**

Message ID: 7/14/2016 1:00:00 PM

Recipients: HAN Community Members.

From: TRI-COUNTY HEALTH DEPARTMENT

Adams, Arapahoe and Douglas County, Colorado

Recipient Instructions: **Tri-County Health Department is forwarding you the attached HAN. You may have already received this broadcast if you are on the CDPHE distribution list, however, we wanted to ensure you did not miss this important information. No response is required.**

You have received this message based upon the information contained within our Health Alert Network Notification System. If you have a different or additional e-mail or fax address that you would like us to use, or if you have additional questions, call 720-200-1477.

Categories of Health Alert Network 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.

Info Service/Public Health Brief: Provides general information that is not necessarily considered to be of an emergent nature.

You may download a copy of this HAN from the TCHD website at
<http://www.tchd.org/259/Health-Alert-Network>



COLORADO

Department of Public
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

HEALTH ALERT NETWORK BROADCAST

MESSAGE ID: 07142016 8:00

FROM: CO-CDPHE

SUBJECT: HAN Health Update - Recommendations for Diagnostic Testing of Specimens for Suspected Zika Virus Infection

RECIPIENTS: Local Public Health Agencies / IPs / Clinical Labs / EDs / ID Physicians

RECIPIENT INSTRUCTIONS: Local Health Public Health Agencies -please forward to healthcare providers

HEALTH UPDATE

Update: Serology testing for Zika virus now available at state health lab
July 14, 2016

*****Health care providers: Please distribute widely in your office*****

KEY POINTS:

This is an evolving situation.

Recommendations will be updated as more information becomes available.

- The CDC MAC-ELISA is now validated to be run at the Colorado Department of Public Health and Environment (CDPHE) lab. The MAC-ELISA detects IgM antibody in clinical samples and can be used for serology testing for symptomatic patients >14 days after symptom onset and asymptomatic pregnant women who traveled to an area with Zika virus transmission in the previous two to 12 weeks.
- The MAC-ELISA can be run on serum, CSF, or amniotic fluid.
- The state health lab is performing both RT-PCR testing and MAC-ELISA testing. Confirmatory Plaque Reduction Neutralization Tests (PRNT) will be conducted at CDC for IgM-positive samples.
- Please consult CDPHE for testing assistance: 303-692-2700 (business hours) or 303-370-9395 (after hours, weekends and holidays). The CDPHE Laboratory can be reached at 303-692-3485 (Serology) or 303-692-3286 (Molecular Sciences).
- Patient specimens should be collected using typical healthcare resources. CDPHE does not provide patient specimen collection services.

Attachment:

CDPHE: Q & As for Zika Specimen Testing

FOR MORE INFORMATION:

Zika virus information for clinicians: <http://www.cdc.gov/zika/hc-providers/index.html>





Q & A's: Zika Virus Diagnostic Testing

July 13, 2016

This is an evolving situation.

Recommendations will be updated as more information becomes available.

Who should be tested for Zika virus?

Pregnant women who traveled to a Zika-affected area:

- Who had one or more of the following symptoms during or within two weeks of travel: acute onset of fever, rash, arthralgia or conjunctivitis.
- Who traveled within the past two to 12 weeks and had no symptoms of Zika.
- During the eight weeks before conception can be tested within two to 12 weeks of that exposure.

Pregnant women who did *not* travel to a Zika-affected area:

- Who had unprotected sexual contact with a male partner who traveled to a Zika-affected area, where the male partner was diagnosed with, or had symptoms of Zika infection.
- Who became symptomatic after having unprotected sexual contact with a male partner who traveled to a Zika-affected area.

All others:

- Who traveled to a Zika-affected area and had one or more symptoms of Zika virus infection during or within two weeks of travel.
- Who became symptomatic after unprotected sexual contact with a male partner who traveled to a Zika-affected area, where the male partner was diagnosed with, or had symptoms of Zika infection.

*Men and non-pregnant women who are asymptomatic are not being tested at this time.

What testing is available and where?

PCR:

- Triplex RT-PCR Assay to detect dengue, chikungunya and Zika virus RNA [available at the state health lab].
- Focus Diagnostics Qualitative Real-time RT-PCR and Altona RealStar RT-PCR to detect Zika virus RNA [available through commercial labs].

Serology:

- IgM capture (MAC) ELISA to detect Zika virus IgM [available at the state health lab].
- Plaque Reduction Neutralization Test (PRNT) to detect total antibody (dengue and Zika virus) [available at CDC; performed on IgM positive or equivocal samples].
- Dengue MAC-ELISA and chikungunya MAC-ELISA [available through commercial labs].

How can patients access Zika virus testing?

Zika virus testing is only available when requested by a health care provider. The state health lab cannot collect samples directly from patients.

What samples should be sent for Zika virus testing?

For symptomatic patients:

- Day 1-7 after symptom onset: Send urine and serum for RT-PCR testing.
 - CSF and amniotic fluid can also be tested by RT-PCR in this time frame.
- Day 8-14 after symptom onset: Send urine for RT-PCR testing and serum for MAC-ELISA.
- If >14 days after symptom onset (but <12 weeks): Send serum for MAC-ELISA.

For asymptomatic pregnant women:

- Testing is by MAC-ELISA only.
- Collect serum (or amniotic fluid) samples from two to 12 weeks following travel to a Zika-affected area.

What samples should be collected and how much?

Serum:

- Use a red top, tiger top or serum separator tube.
- The state health lab requires 0.25 mL for RT-PCR testing and ≥ 1.0 mL for MAC-ELISA.
- If requesting both RT-PCR and MAC-ELISA, send ≥ 1.25 mL.

Urine:

- Send the sample in a sterile, screw-capped vial secured with thermoplastic, self-sealing lab film.
- The state health lab requires 0.5 to 1.0 mL for RT-PCR testing.

Amniotic fluid:

- Send sample in a sterile, screw-capped vial secured with thermoplastic, self-sealing lab film.
- The state health lab requires 0.5 to 1.0 mL for RT-PCR.
- CDC requires 0.5 to 1.0 mL for MAC-ELISA.

Cerebrospinal fluid (CSF):

- Send sample in a sterile, screw-capped vial secured with thermoplastic, self-sealing lab film.
- The state health lab requires at least 1.0 ml for RT-PCR or MAC-ELISA.

What is the turnaround time for Zika testing?

- RT-PCR testing at the state health lab will take approximately 72 hours following sample receipt.
- MAC-ELISA at the state health lab will take at least five business days following sample receipt.
- Expect confirmatory PRNT testing at CDC (if IgM is positive) to take at least two additional weeks.
- All results will be sent securely to the submitter at the fax number provided on the test request form.

How do I request testing from the lab?

All submitters **MUST** submit the Request for Analytical Services form #270/271. A separate form must be filled out for EACH sample.

- To request the form, call the state health lab (303-692-3485) or state health department (303-692-2700).
- The lab will use the form to set up an account for you if you do not already have one.

All submitters must also complete the CDC 50-34 form.

- The form is available at www.cdc.gov/laboratory/specimen-submission/pdf/form-50-34.pdf, or
- Call 303-692-2700 and we can fax or email the form to you.

The CDC 50-34 form **must be filled out completely** or testing will be delayed.

- In the ‘Test order name’ field on page 1 of the form, put *ZIKA*.
- Include symptoms, symptom onset date, travel dates and locations, suspected mode of transmission, and if applicable, pregnancy status.
- On page 2 under ‘Relevant immunization history’ indicate if patient has a history of yellow fever or Japanese encephalitis virus vaccination.

What is the cost for testing, and is there a CPT code?

- The RT-PCR test at the state health lab costs \$260 (per sample), billed to the submitter [CPT code 87798].
- The MAC-ELISA test at the state health lab costs \$150 (per sample) [CPT code 86790].
- A \$45 handling and processing fee [CPT code 99001] may apply for certain samples sent to CDC.

How do I get the sample to the state health lab?

- Specimens can be sent to the state health lab by FedEx or by the courier of your choice. The address is CDPHE Laboratory Services Division, 8100 Lowry Blvd, Denver, CO 80230.
 - The state health lab can only accept samples Monday - Friday, 8 a.m. to 5 p.m.
 - FedEx and other couriers should be directed to avoid weekend deliveries.
- Alternately, you may check our current list of pickup times and locations for the state health lab courier, www.colorado.gov/pacific/sites/default/files/Kangaroo%20Update.7.29.14-SK.pdf
 - If your hospital lab or local health department is on the courier route, you may arrange to have the sample(s) picked up there. Call 303-692-3086 to make arrangements.

Are there special handling and packaging instructions?

Samples should be kept at 4°C and transported on cold packs. The CDPHE courier will transport at 4°C; other overnight shipments should include a cold pack. If the sample is frozen, it should be kept frozen and be shipped on dry ice.

Can samples be submitted to commercial labs for testing?

Under the FDA’s Emergency Use Authorization, some commercial labs are performing Zika virus RT-PCR testing. For more information on submitting samples to commercial labs, contact your regular commercial laboratory.

Who can I call for other questions about Zika virus?

Call the state health lab at 303-692-3485 or the state health department at 303-692-2700.

Where can I go for more information on Zika virus?

A list of countries with local transmission of Zika virus is available at www.cdc.gov/zika/geo/active-countries.html

The most up to date testing guidance is available at www.colorado.gov/pacific/cdphe/zika