ZIKA TESTING GUIDANCE

WHO TO TEST:

- Offer test to all pregnant women (asymptomatic and symptomatic) who have returned from a Zika-affected country in the last 12 weeks. For asymptomatic pregnant women, submit specimens 2-12 weeks after return from a Zika-affected country. For symptomatic pregnant women, submit specimens from onset of illness up to 12 weeks after return from a Zika-affected country.
- (A)
- Test symptomatic travelers (any age or gender) that have traveled to a Zikaaffected country. Specimens may be obtained from onset of illness up to 12 weeks.
- No testing for asymptomatic men or children.
- Guidance for testing of infants and children with possible congenital or perinatal *Zika virus* infection at http://www.cdc.gov/zika/hc-providers/qa-pediatrician.html.
- See ODH Zika Virus Testing Recommendations page 2 for a detailed algorithm

For a current list of Zika-affected countries visit www.cdc.gov/zika/geo.

HOW TO TEST:

- 1. See page 3 for details on specimen collection
- 2. See page 4 for details on specimen shipping and reporting to IDRS.

For more information about testing and the forms above, go to www.IDRSinfo.org.









ADVISING PATIENTS REGARDING PREVENTION:

- Women who are pregnant or trying to get pregnant should avoid travel to Zikaaffected areas.
- Zika can be transmitted through semen. All men who have been in a Zika-affected area should use condoms correctly every time for all vaginal, anal and oral sex or abstain from sex.
- Prevent mosquito bites while traveling and for three weeks after you return:
 - o Use EPA-registered insect repellents according to the product label.
 - o Wear long-sleeved shirts and pants when weather permits.
 - Use air conditioning when possible.
 - o Check and repair window or door screens around your home.
 - o Empty or get rid of standing water around your home.

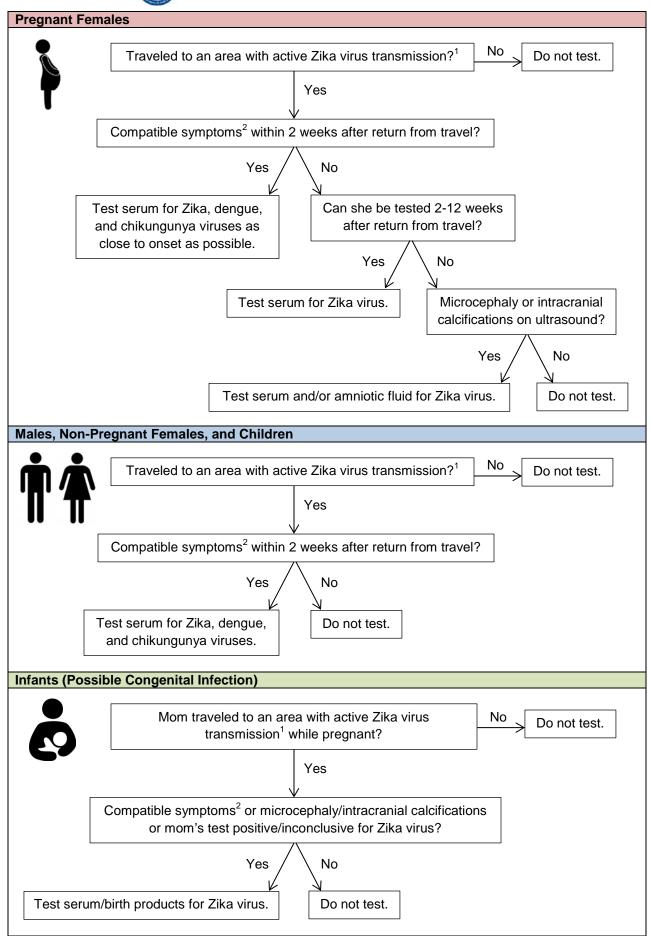








ZIKA VIRUS TESTING RECOMMENDATIONS



¹ Areas with active Zika virus transmission: www.cdc.gov/zika/geo/.

² Compatible symptoms: Onset of one or more of fever, rash, conjunctivitis, arthralgia.



Specimen Collection:

- Serum: Single serum specimens are acceptable for Zika virus real-time Reverse Transcriptase
 Polymerase Chain Reaction (rRT-PCR) and antibody testing. A convalescent serum specimen
 may be requested depending on results of acute specimen testing.
 - Collect 0.5 mL of blood into a serum separator tube.
 - o Keep the serum refrigerated until ready to ship.

0

- Cerebrospinal fluid: Cerebrospinal fluid specimens are acceptable for Zika virus rRT-PCR and antibody testing, although they should only be submitted if collected for other purposes.
 - Collect 1.0 mL of cerebrospinal fluid into a tube.
 - Keep the specimen refrigerated until ready to ship.
- Amniotic fluid: rRT-PCR and virus isolation can be performed on amniotic fluid, although the performance of rRT-PCR testing of amniotic fluid for Zika virus infection is currently unknown.
 - o Collect 1.0 mL of amniotic fluid in a sterile container.
 - Keep the specimen refrigerated until ready to ship.
- Other body fluid: rRT-PCR and virus isolation can be performed on other body fluids, such as
 urine, semen, and saliva. However, the performance of RT-PCR testing of other body fluids for
 Zika virus infection is currently unknown. Further information is available on CDC's Zika website.
 - Collect 1.0 mL of urine or semen in a sterile container. Urine should be collected before semen if both are being submitted for the same person.
 - Collect saliva with a dry cotton swab and place in a tube with 1.0 mL of viral transport media
 - Keep the specimen(s) refrigerated until ready to ship.
- Fetal tissues: Tissues may be submitted for infants or fetuses with suspected congenital infection for rRT-PCR, antibody testing, histopathology, or immunohistochemical staining. Fetal tissues may include cord blood, placental tissue, brain tissue, or autopsy tissues. Further information is available on CDC's Zika website.
 - Collect 0.5 mL of cord blood into a serum separator tube.
 - Provide both formalin-fixed (preferred) and frozen tissues for each type of tissue submitted; if it's not possible to submit both, prioritize formalin-fixed tissues.
 - Collect brain tissue, maintaining the structure of the brain architecture for evaluation of viral neuropathology.
 - Sample placental tissue extensively, including full thickness pieces, section of the placental disk, membranes, umbilical cord, and pathologic lesions when possible.
 - Provide 0.5-1.0 cm of autopsy samples of each major organ (heart, lungs, liver, kidneys, skeletal muscle, bone marrow). Sampling of the eyes is highly recommended.
 - o Place tissues into sterile containers containing adequate formalin.
 - o Store frozen tissues at -70°C until ready to ship.
 - Keep fixed tissues at room temperature until ready to ship.

Serum is the preferred specimen for Zika virus testing. If submitting a specimen other than serum, it is recommended to also collect and submit a serum specimen for the patient.

ZIKA VIRUS TESTING RECOMMENDATIONS

Specimen Shipping:

- Complete the CDC's Specimen Submission Form to accompany the specimen(s).
 - Select "Arbovirus Serology" from the drop-down menu for Test Order Name.
 - Include the date of illness onset and the specimen collect date. Leave the illness onset date blank if the patient was asymptomatic.
 - The healthcare provider can fill his/her information in the Original Submitter section to receive a copy of the results.
 - o If the specimen is being drawn by a different facility, the lab can fill its information in the Intermediate Submitter section to receive a copy of the results.
 - The Travel History section on the second page needs to be filled out with country(ies) traveled to and dates of travel.
 - The Brief Clinical Summary section on the second page needs to be completed with the patient's signs and symptoms. If the patient is pregnant and asymptomatic, please note that in this section.
 - o In the Comments section at the bottom of the second page, "Zika, chikungunya, and dengue testing requested" can be filled in. Previous arboviral test results for the patient should be noted here as well, including both positive and negative results.
 - The form should be filled out electronically and then printed. If the form cannot be accessed online, it can be printed and filled in by hand.
- Complete ODH Lab's Microbiology Submission Form to accompany the specimen(s).
 - o Enter "Zika virus" in the Agent Suspected field.
 - Fill in the bubble appropriately in the Specimen Type & Site section.
- Ship serum, cerebrospinal fluid, amniotic fluid, and other body fluids on frozen freeze packs.
- Ship frozen tissues on dry ice.
- Ship fixed tissues at room temperature and separate from specimens requiring freeze packs or dry ice.
- Do not ship specimens for weekend delivery unless otherwise instructed by ODH Laboratory.
- Ship specimens to:

Ohio Department of Health Laboratory ATTN: Microbiology Labs 8995 E. Main St. Building 22 Reynoldsburg, OH 43068

 Complete the Mosquito-borne Illness Case Investigation Form and fax it to IDRS at (614) 525-8890.

Contact Information:

IDRS

Phone: (614) 525-8888

E-mail: idrs@franklincountyohio.gov

ODH Zoonotic Disease Program
 Phone: (614) 995-5599

o E-mail: Zoonoses@odh.ohio.gov

ODH Laboratory

o Phone: (888) ODH-LABS

o E-mail: ODHLabs@odh.ohio.gov