GWINNETT · ROCKDALE · NEWTON
COUNTY HEALTH DEPARTMENTS

GNR Zika Testing Management

Calls received by GNR Epidemiologists regarding ZIka testing will be facilitated in the following manner. All testing must be approved by the GA Epidemiology Division and be in accordance with current testing recommendations by CDC (http://www.cdc.gov/zika/hc-providers/types-of-tests.html). Guidance from CDC for testing of pregnant women is available here (http://www.cdc.gov/mmwr/volumes/65/wr/mm6529e1.htm?s_cid=mm6529e1_w).

Call received requesting testing a patient for Zika virus

Obtain pertinent information regarding patient needing testing and confirm state approval. To gain approval, contact the Zika team (404-657-2588/866-PUB-HLTH)

Is the patient symptomatic?

No → Is the patient pregnant?

- **Yes** → **<2 weeks** after travel or **exposure***:
  PCR on serum and urine. If negative then a convalescent should be drawn 2-12 weeks after travel and tested for IgM.
  2-12 weeks after travel or **exposure***, collect 2 tubes of serum and 1 tube of urine. GPHL will test for IgM. All three specimens will be sent to GPHL but only the IgM forms should be sent to the provider.
  Note: If IgM is positive or equivocal, PCR testing on serum and urine will be performed at GPHL.
  Note: This would include testing for pregnant women who had sex with an asymptomatic male who traveled to a Zika affected area.
- **No** → Patient should **self monitor** for 14 days after return date of travel. If symptoms develop, contact the Zika team at (404-657-2588/866-PUB-HLTH) to gain approval for testing.

Yes → Is the patient pregnant?

- **Yes** → **<2 weeks** after symptom onset or **exposure***: PCR on serum and urine. If negative then a convaslescent should be drawn in 2-12 weeks after travel and tested for IgM .
  2-12 weeks after symptom onset or **exposure***, collect 2 tubes of serum and 1 tube of urine. GPHL will test for IgM. All three specimens will be sent to GPHL but only the IgM forms should be sent to the provider.
  Note: If IgM is positive or equivocal, PCR testing on serum and urine will be performed at GPHL.
- **No** → **0-3 days** after illness onset: PCR on serum and urine (if negative, collect a convalescent sample for IgM).
  4-14 days after illness onset: PCR on serum and urine and IgM testing is recommended.
  14 days -12 weeks after illness onset: IgM serum only.
  Note: Those with travel greater than 12 weeks would not qualitfy for testing.

Log testing in Zika virus testing log (G:\EPI\EPI\Disease Information\ZOONOTIC + VECTOR BORNE + INFESTATIONS\Zika virus

Complete the GPHL forms. For PCR, select the box "16600 Molecular Arbovirus (RT-PCR) and write in Zika located under Molecular Biology. For IgM, select the box "16550 Zika IgM" located under immunology. **Note**: A form needs to be completed for each test performed.

Complete the CDC DASH 50.34 form in accordance with testing guidance in the DPH Zika Guide

Can specimen collection be completed by PMD office?

- **No** → Facilitate testing through GNR clinic.
- **Yes** → Provide testing and shipping guidance. Fax laboratory paperwork to the appropriate provider.
  Note: If provider needs a UPS shipping label and/or a category B shipper, request from someone on the Zika team. The category B shipper will be sent directly to the provider from the state. The UPS shipping label is sent to the epidemiologist through email and can then be faxed with Zika laboratory paperwork to the provider

Once received, report lab results to provider.

If **positive**, report to Epidemiology Director immediately. Contact the provider via phone to disseminate the results. Then contact the case for epidemiological interview. Notify Rosmarie Kelly of case's address for mosquito surveillance following approval from the case.

***Exposure**: travel to or residence in an area with active Zika virus transmission, or unprotected sex with a partner who has traveled to or resides in an area with active Zika virus transmission.

Testing Guidance:
Any symptomatic patient being considered for Zika virus should also have chikungunya and dengue testing done at a commercial laboratory.

For Zika specific testing, at least 1 ml of **serum** in a red top or tiger tube should be collected.
Note: 1.0 ml of serum per test is requested.

Each **urine** test will need at least 1.0 ml of urine in a sterile collection cup. Tape or parafilm the sample prior to shipping.

All specimens should be kept cold and shipped overnight Monday-Thursday to avoid weekend deliveries. Specimens can stay refrigerated for up to two weeks before they are no longer viable.