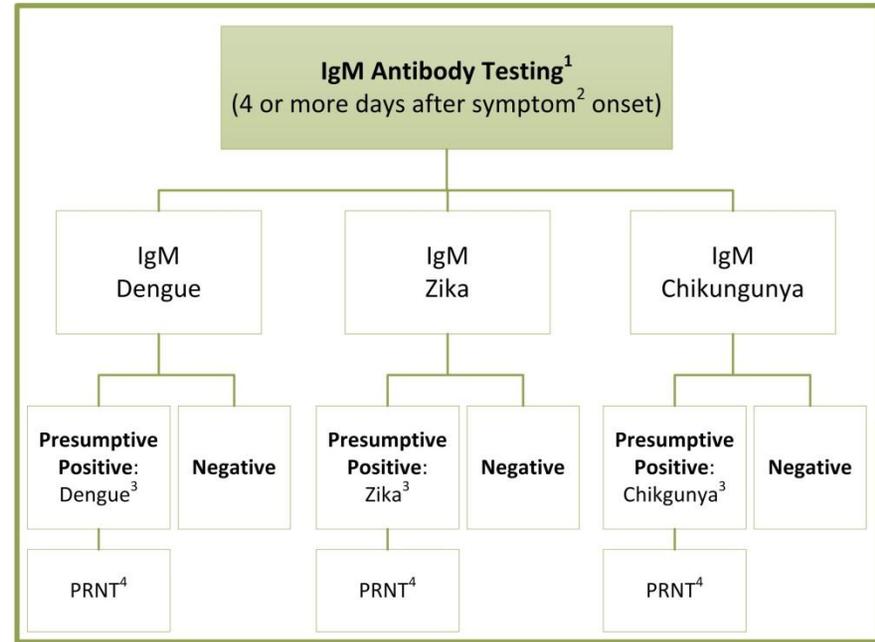
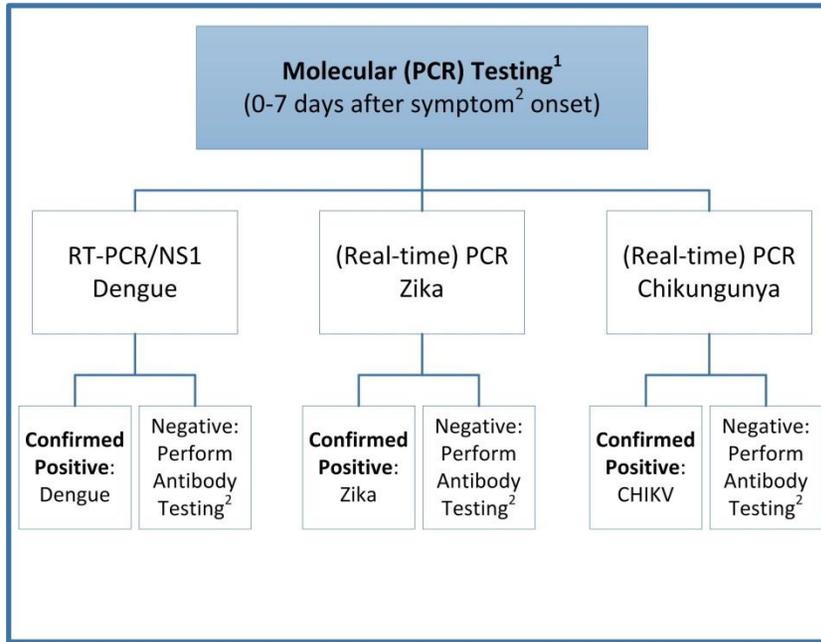




Algorithm for Arbovirus Testing: Symptomatic Patient with Travel History



Testing Performed at Houston Health Department (HHD) Laboratory: Dengue, Zika, and Chikungunya PCR Performed on All Samples

In order to initiate testing, contact your local health department epidemiologist. Submit specimens with HHD Zika PCR Form and Texas DSHS Form G2A. Form G2A may be requested by calling (512) 776-7578.

Specimen Requirements: At least 1 mL of serum. Collect 5 mL of blood in a red, gold, or tiger top collection tube. *Do not submit whole blood.* Centrifuge to separate the serum from the red blood cells (clot) and transfer the serum from the collection tube into a serum transport tube. Store at 4°C and ship immediately. Freeze at -20°C and ship on dry ice if sample cannot be delivered within 48 hours.

Testing Criteria: No PCR testing for asymptomatic patients or patients who have experienced symptoms for more than 7 days. Samples collected 4 to 7 days after symptom onset should be submitted for PCR and IgM testing (if PCR is negative).

Testing Performed at Texas DSHS or CDC Laboratory: Dengue, Zika, and Chikungunya IgM Antibody Performed on All Samples

In order to initiate testing, contact your local health department epidemiologist. Submit specimen with Texas DSHS Form G2A. Form G2A may be requested by calling (512) 776-7578.

Specimen Requirements: At least 1 mL of serum. Collect 5 mL of blood in a red, gold, or tiger top collection tube. *Do not submit whole blood.* Centrifuge to separate the serum from the red blood cells (clot) and transfer the serum from the collection tube into a serum transport tube. Store at 4°C and ship immediately. Freeze at -20°C and ship on dry ice if sample cannot be delivered within 48 hours.

Testing Criteria: Samples drawn 4 or more days after symptom onset. All PCR-negative samples drawn 4 or more days after symptom onset will be tested for IgM antibodies.

¹ For samples collected Day 0 - 6 after symptom onset, molecular (PCR) testing should occur first. NOTE: Day 0 is day of onset.

² Perform if sample is collected Day 4 or more after symptom onset.

³ A positive IgM assay should be confirmed with plaque reduction neutralization test (PRNT) against Zika, Dengue, Chikungunya and other flaviviruses circulating in the geographic area.

⁴ PRNT should include any flavivirus circulating in the geographic area.