

DALLAS COUNTY DEPARTMENT OF HEALTH AND HUMAN SERVICES

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- To: Dallas County Medical Providers and Laboratory Staff

Date: April 30, 2019

HEALTH ADVISORY: West Nile Virus

Dallas County Health and Human Services (DCHHS) is reporting confirmation of the first positive West Nile Virus (WNV) mosquito trap for 2019 in Dallas County, which was collected April 29th in zip code 75080. The virus was identified by PCR testing of *Culex restuans* mosquitoes. The detection of WNV in our mosquito population indicates a risk of infection to humans in our area. No confirmed human cases of WNV infection have yet been reported this year in Texas or Dallas County. *Reports of human cases typically begin locally in the weeks following the first identification of WNV from area Culex quinquefasciatus mosquitoes.*

Clinicians should consider WNV disease in persons with symptoms consistent with West Nile fever (e.g. fever with headache, myalgia, arthralgia, weakness, or rash) or West Nile neuroinvasive disease (e.g. fever with aseptic meningitis, encephalitis, or acute flaccid paralysis).

DCHHS is reminding medical providers to be alert for cases of WNV disease, and to send laboratory testing in all patients with clinically compatible symptoms. Laboratory diagnosis is usually accomplished by testing serum for WNV-specific IgM by enzyme immunoassays (EIA), which are commercially available. WNV IgM antibodies are usually detectable by 3-8 days after illness onset. In patients with suspected West Nile neuroinvasive disease, *additional* tests may be considered <u>from cerebrospinal fluid (CSF)</u>: (1) WNV-specific IgM in CSF, and (2) panel for IgM and IgG antibodies for other endemic arboviruses from CSF. PCR testing for WNV can be performed on CSF or serum specimens that are collected early in the course of illness, and can confirm infection, if results are positive.

Patients at higher risk of severe disease, including those over 50 years of age or with immunesuppression (e.g. organ transplantation, chemotherapy, dialysis, HIV infection), should be reminded to take particular preventive measures to avoid mosquito exposures, including wearing long sleeves and pants when outside and using EPA-registered repellants such as DEET.

Active public health surveillance for WNV in mosquitoes and humans is ongoing. Additional health advisories will be issued if vector indices are noted to be significantly increasing, and when human WNV infections begin to be reported. Please report suspected WNV cases by fax to DCHHS at (214) 819-1933. For questions or consultation please contact DCHHS at (214) 819-2004. Information about WNV is available at: www.cdc.gov/ncidod/dvbid/westnile/index.htm.