West Nile Virus and Other Arboviral Diseases

Los Angeles County Epidemiology Final Report 2019

February 14, 2020

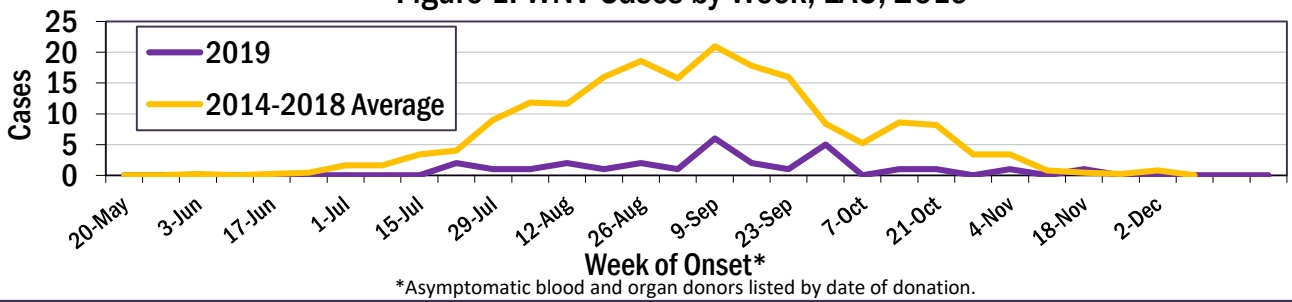
In 2019, 29 West Nile virus (WNV) cases (Table 1) were documented by the Los Angeles County Department of Public Health (LAC DPH). The number of WNV cases was below the previous 5-year average (Figure 1). The last onset in 2019 occurred 11/19/2019. The San Fernando Valley region continued to account for the heaviest burden of cases (38%). The South Bay region was the second highest in case count (24%) (Table 2). However, WNV activity was detected in many areas of LAC (See map below). LAC accounted for 14% of the state WNV burden and 3% of the national burden of clinical cases (California = 214, USA = 917). For information about past WNV seasons in LAC visit the ACDC WNV webpage.

Table 1. Characteristics of WNV Cases, LAC, 2018-2019

	Number of Cases[1]	Asymptomatic Donor[2]	Clinical Presentation				Hospitalized	Deaths	Demographics	
			WNV Fever	Neuroinvasive Disease	Neuroinvasive Diagnosis				Gender M/F	Median Age (Range)
2019	29	0	5	24	16 8 0	= Encephalitis = Meningitis = AFP[3]	24	3	16/13	61 (28-86)
2018	47	3	9	35	24 8 3	= Encephalitis = Meningitis = AFP[3]	37	3	34/13	66 (15-89)

[1]Count confirmed by LAC DPH as of 02/05/2020. Excludes reports from Long Beach and Pasadena.
[2]Asymptomatic cases identified in blood or organ donors as part of routine screening.
[3]Acute Flaccid Paralysis

Figure 1. WNV Cases by Week, LAC, 2019

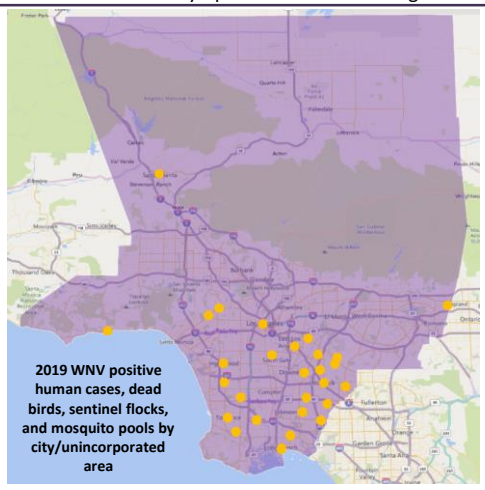


*Asymptomatic blood and organ donors listed by date of donation.

Table 2. Cities of Residence with Reported WNV Infections LAC, 2019*

Beverly Hills
Claremont
Hawthorne
Inglewood
La Mirada
Lakewood
Lomita
Los Angeles
Malibu
Santa Clarita
Torrance
West Hollywood

*Excluding Long Beach and Pasadena



This is the last report for the season. For more information and to see archived reports please visit:
www.publichealth.lacounty.gov/acd/VectorWestNile.htm

Dengue and Zika, 2019

No locally transmitted dengue cases have ever been identified in LAC. However, a record number of imported cases (52) were reported to LAC DPH in 2019. Of these, 15 were hospitalized with severe infection. Previously, the highest year recorded was 2016 with 46 cases. Dengue is the world's fastest-spreading mosquito-borne disease. The recent global outbreak caused a substantial increase of dengue in 2019 compared with 2018.

No locally transmitted cases of Zika were documented in 2019. All 4 cases were pregnant women with recent travel to an endemic country. No positive infants or congenital defects resulted from the infections.

Figure 2. Dengue and Zika Cases, LAC, 2012-2019