2018 Profile of Human West Nile Virus in Dallas County Dallas County Health and Human Services

Demographic Characteristics of Human WNV Cases, 2018

	WNND		WNF		Total WNV		
	n (%)	Incidence per 100,000	n (%)	Incidence per 100,000	n (%)	Incidence per 100,000	
Total	11 (100.0)	0.4	2 (100.0)	0.1	13 (100.0)	0.5	
Male	6 (54.5)	0.5	2 (100.0)	0.2	8 (61.5)	0.6	
Female	5 (45.5)	0.4	0 (0.0)	0.0	5 (38.5)	0.4	
Hispanic	2 (18.2)	0.2	0 (0.0)	0.0	2 (15.4)	0.2	
White	8 (72.7)	1.0	2 (100.0)	0.3	10 (76.9)	1.3	
Black	1 (9.1)	0.2	0 (0.0)	0.0	1 (7.7)	0.2	
Asian	0 (0.0)	0.0	0 (0.0)	0.0	0 (0.0)	0.0	
American Indian	0 (0.0)	0.0	0 (0.0)	0.0	0 (0.0)	0.0	
Age Group (years)							
0-17	0 (0.0)	0.0	0 (0.0)	0.0	0 (0.0)	0.0	
18-24	0 (0.0)	0.0	0 (0.0)	0.0	0 (0.0)	0.0	
25-44	1 (9.1)	0.1	1 (50.0)	0.1	2 (15.4)	0.1	
45-64	4 (36.4)	0.7	1 (50.0)	0.2	5 (38.5)	0.7	
≥65	6 (54.5)	2.1	0 (0.0)	0.0	6 (46.2)	2.1	

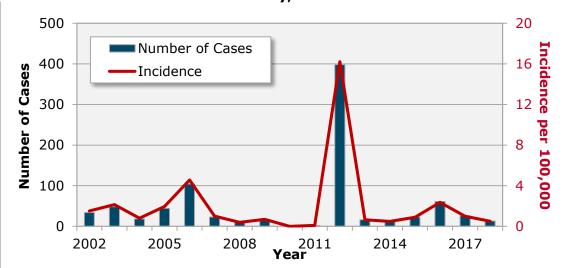
N/A = Not applicable

Clinical Characteristics of Human WNV Cases, 2018

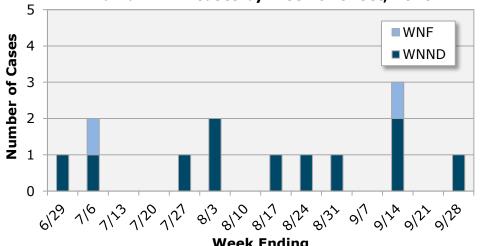
	•					
	WNND	WNF	Total WNV			
	n (%)	n (%)	n (%)			
Clinical Presentation*						
Fever	10 (47.6)	2 (100)	12 (52.2)			
Meningitis	2 (9.5)	0 (0.0)	2 (8.7)			
Encephalitis	5 (23.8)	0 (0.0)	5 (21.7)			
Asymmetric Flaccid Paralysis	3 (14.3)	0 (0.0)	3 (13.0)			
Clinical Course						
Hospitalizations	10 (90.9)	1 (50.0)	11 (84.6)			
Median Days Hospitalization (range)	8 (4-23)	N/A	7 (3-23)			
Admitted to Intensive Care Unit	2 (18.2)	0 (0.0)	2 (15.4)			
Mechanical Ventilation or BiPAP	2 (18.2)	0 (0.0)	2 (15.4)			
Discharge to LTCF or Rehab Facility	2 (18.2)	0 (0.0)	2 (15.4)			
Deaths	1 (9.1)	0 (0.0)	1 (7.7)			

Note: The categories are not mutually exclusive.

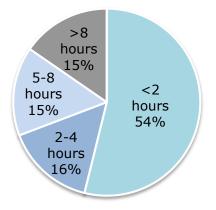
Human WNV Cases and Incidence by Year of Onset, Dallas County, 2002–2018

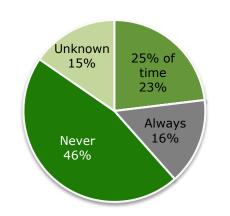


Human WNV Cases by Week of Onset, 2018



Reported Average Daily Time Reported Frequency of Insect Outdoors (hours), (n=13) Repellent Use, (n=13)

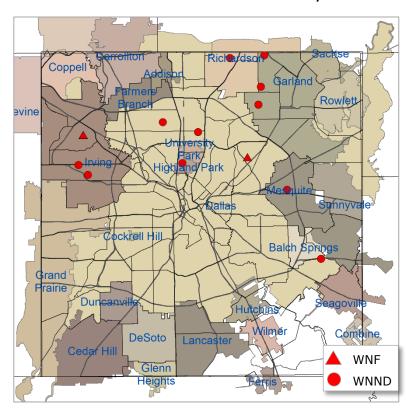




Summary

- In 2018, 13 WNV cases were reported in Dallas County, in comparison to 26 WNV cases in 2017.
- The median age of all WNV cases was 63 years (range: 37–89 years).
- 77% of WNND cases were in adults ≥50 years of age.
- No WNV-positive viremic blood donors were reported among Dallas County residents in 2018.
- One WNV-related death was reported.
- The numbers of human WNV cases reflected the higher WNV infection indices of trapped mosquitos in the area during this year season. {See DCHHS 2018 Arboviral Epidemiology Report at: https://www.dallascounty.org/departments/dchhs/ arbovirus-surveillance-report.php}

Distribution of Human WNV Cases, 2018



Data Sources: Dallas County Department of Health and Human Services, Epidemiology Division; National Electronic Disease Surveillance System (NEDSS); Population data obtained through the Centers for Disease Control and Prevention: WONDER Bridged-Race Population Estimates 1990-2018.

Note: WNND = West Nile neuroinvasive disease; WNF = West Nile fever; LTCF = Long term care facility Incidence calculated using projected population data for 2018.