

Communicable Disease (CD) Quarterly Report

2013 Quarter 3

San Joaquin County Public Health Services

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***Aedes aegypti* Mosquito Found in California**

Beginning in June 2013, the *Aedes aegypti* mosquito, the primary vector of dengue fever, was found in Madera, Fresno and San Mateo counties. So far, it has not turned up in San Joaquin county. *A. aegypti* has been found in many states in the U.S. including Florida, Texas and Arizona, but this is the first appearance in California. It is not clear how this mosquito species was introduced into these counties. In an attempt to eradicate the species, vector control agencies in the counties have started aggressive action including trapping, testing for the virus, and spraying in affected areas.

A. aegypti are especially dangerous for humans because they are known for being sneaky biters that can live both indoors and outdoors in urban environments, as well as reproduce in any amount of standing water. This is especially important in San Joaquin County because of the delta waterways and agricultural aspect of the area.

Dengue fever is endemic in over 100 countries and is estimated to infect 50-100 million people worldwide each year. There are 4 serotypes of dengue; infection with one does not protect against the others. In addition, subsequent infections with different serotypes put people at greater risk for dengue hemorrhagic fever (DHF), which can be life-threatening. Symptoms usually occur 4-7 days after a bite from an infected mosquito. There is no treatment for dengue fever and symptoms usually resolve in 3-10 days. Symptoms of mild illness include fever, headache, severe eye pain, joint and muscle pain, rash, or mild bleeding from the nose or gums.

Although dengue fever has not been found to be locally transmitted in California, the identification of the vector for these diseases raises the possibility of transmission. If you see a patient with symptoms compatible with dengue fever please contact Public Health Services immediately at (209) 468-3822.

Note: Data reflects cases that have been entered into the CalREDIE reporting system as of 6/26/14.

Table 1: Selected Communicable Diseases Reported to San Joaquin County Public Health Services, 2012 and 2013

	2012		2013	
	3rd Qtr	YTD	3rd Qtr	YTD
Coccidioidomycosis	21	81	19	50
Meningococcal Infections	0	2	0	1
Viral Meningitis	6	14	5	11
West Nile Virus	11	11	8	8
Hepatitis C (Chronic)	259	759	198	539

Table 2: Selected Gastrointestinal Diseases Reported to San Joaquin County Public Health Services, 2012 and 2013

	2012		2013	
	3rd Qtr	YTD	3rd Qtr	YTD
Amebiasis	1	5	1	3
Campylobacteriosis	70	134	78	153
<i>E. coli</i> Shiga Toxin Producing (STEC)	7	12	5	10
Giardiasis	15	26	9	30
Salmonellosis	44	77	40	77
Shigellosis	4	5	7	10
Yersiniosis	2	4	0	6

Table 3: Selected Vaccine Preventable Diseases Reported to San Joaquin County Public Health Services, 2012 and 2013

	2012		2013	
	3rd Qtr	YTD	3rd Qtr	YTD
Hepatitis A	1	4	2	2
Hepatitis B (acute)	0	2	1	3
Hepatitis B (Chronic)	41	126	24	74
Pertussis	11	14	9	26

Table 4: Selected Outbreaks Reported to San Joaquin County Public Health Services, 2012 and 2013

	2012		2013	
	3rd Qtr	YTD	3rd Qtr	YTD
Gastrointestinal	1	16	2	20
Respiratory	0	4	0	1