

Mosquito Borne Illnesses of Concern

Disease and	Microbial Agent	Sources of Agent	General Symptoms
West Nile Virus	arbovirus	Mosquito bitten birds	West Nile encephalitis infection rarely leads to death. Generally, infection leads to mild if any symptoms, such as influenza-like illness with abrupt onset, rash, headache, or moderate to high fever. Those with severe reactions may suffer convulsions, fever, and paralysis. There are no specific treatments for the infection. Most at risk are people older than 50, the elderly, the very young, and those with weakened immune systems.
Eastern Equine Encephalitis	arbovirus Culiseta melanura type of mosquito	Mosquito bitten birds	Although rare, the disease kills about half of the people who are severely affected. Those who survive tend to have severe brain damage. Minor symptoms include fever, muscle pain, and headaches.
LaCrosse Encephalitis	Aedes triseriatus, a mosquito	Squirrels, chipmunks	Most infections are mild, but severe illnesses can result in seizures and coma. Children under the age of 16 seem to be most vulnerable. Milder symptoms include high fever, headache, stiff neck, and nausea. Death occurs in fewer than 1 percent of known cases.
St. Louis Encephalitis	Culex pipiens mosquito Culex Nigripalpus mosquito	in certain birds in the Gulf Coast, Ohio, and Mississippi Valley Florida	Most infections are mild, but severe illnesses can cause meningitis. Infections are most serious in the elderly.
Dengue Fever	mosquito	<u>Aedes aegypti</u> , mosquito bites human	<p>called break-bone fever because it sometimes causes severe joint and muscle pain that feels like bones are breaking, hence the name. Dengue is not contagious from person to person.</p> <p>This disease used to be called break-bone fever because it sometimes causes severe joint and muscle pain that feels like bones are breaking, hence the name.</p> <p>Symptoms of typical uncomplicated (classic) dengue usually start with fever within 5 to 6 days after you have been bitten</p>

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			<p>by an infected mosquito and include</p> <ul style="list-style-type: none">• High fever, up to 105 degrees Fahrenheit• Severe headache• Retro-orbital (behind the eye) pain• Severe joint and muscle pain• Nausea and vomiting• Rash <p>The rash may appear over most of your body 3 to 4 days after the fever begins. A second rash may appear later in the disease.</p> <p>Symptoms of dengue hemorrhagic fever include all of the symptoms of classic dengue plus</p> <ul style="list-style-type: none">• Marked damage to blood and lymph vessels• Bleeding from the nose, gums, or under the skin, causing purplish bruises <p>This form of dengue disease causes some deaths .</p> <p>Symptoms of dengue shock syndrome—the most severe form of dengue disease—include all of the symptoms of classic dengue and dengue hemorrhagic fever, plus</p> <ul style="list-style-type: none">• Fluids leaking outside of blood vessels• Massive bleeding• Shock
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