



RESOURCES

West Nile Virus: cdc.gov/westnile/index.html

Zika: cdc.gov/zika/index.html

Dengue: cdc.gov/dengue/index.html

Chikungunya: cdc.gov/Chikungunya/index.html



	West Nile Virus	Zika	Dengue	Chikungunya
Mosquito Species	Culex	Aedes		
Notable Species Behaviors	<ul style="list-style-type: none"> • Active dusk to dawn • Breed in standing water (fresh water) 	<ul style="list-style-type: none"> • Active day-biters • Prefer human blood meal • Breed in small containers/standing water • Eggs can survive without water up to 8 months & continue development with water exposure 		
Transmission Cycle	<ol style="list-style-type: none"> 1. Birds carry virus 2. Bird infects mosquito; mosquito infects more birds 3. Mosquito infects human <p>View the cycle here</p>	<ol style="list-style-type: none"> 1. Mosquito carries virus 2. Mosquito infects human 3. Passed freely between human and mosquito population <p>*Can also be passed from mother to fetus; sexually transmitted</p> <p>View the cycle here</p>	<ol style="list-style-type: none"> 1. Mosquito carries virus 2. Mosquito infects human 3. Passed freely between human and mosquito population <p>View information here</p>	<ol style="list-style-type: none"> 1. Mosquito carries virus 2. Mosquito infects human 3. Passed freely between human and mosquito population <p>View information here</p>
Sexually Transmitted	No	Yes	No	No
Symptoms	<p>No symptoms in most people (70-80%)</p> <p>1 in 5 will develop: Fever, Headache, Body Aches, Joint Pains, Vomiting, Diarrhea, or Rash</p>	<p>Many will have no symptoms or mild symptoms</p> <p>Fever, Rash, Joint Pain, Conjunctivitis, Muscle Pain, Headache</p>	<p>Generally, young children will have less severe infection than older children & adults</p> <p>Fever, Headache, Eye Pain, Joint Pain, Muscle/Bone Pain, Rash, Mild Bleeding (gums, nose, bruising), Low White Cells</p>	<p>Most will develop some symptoms</p> <p>Fever, Joint Pain, Headache, Muscle Pain, Joint Swelling, Rash</p>
Worst Cases	<p>Neuroinvasive in less than 1% of cases; May result in long-term effects</p>	<p>Negative Birth Outcomes: Microcephaly & Developmental Issues</p>	<p>Severe Abdominal Pain, Persistent Vomiting, Red Skin Patches, Nose/Gum Bleeding, Vomiting Blood, Black Stool, Drowsiness, Irritability, Pale/Cold/Clammy Skin, Difficulty Breathing</p>	<p>Ongoing Joint Pain persisting for months to years; Eye, Neurological and Heart Complications; Gastrointestinal Complaints</p>
Fatality Rate	<p>3-15% from severe illness (neuroinvasive: less than 1% of those infected)</p>	<p>Fatalities are rare</p>	<p>Less than 1% when treated early; without effective treatment, up to 20%</p>	<p>Fatalities are rare, but in older people, it can contribute to the cause of death</p>
Lifetime Immunity	<p>Potentially, but maybe only temporarily</p>	<p>Scientists don't believe so, but this hasn't been proven; more study is needed</p>	<p>4 types; recovery from one may result in immunity to that type; if infected by another type, illness may be more severe</p>	<p>Likely</p>