

## INFECTIOUS DISEASE EDUCATIONAL MATERIAL

The following diseases can be transmitted through blood transfusion. Please read the following carefully and you can ask our medical staff for assistance

### BABESIOSIS

Babesiosis is caused by parasites that infect red blood cells. It is a preventable and treatable parasitic tick borne disease.

**Prevalence:** Babesiosis is mainly found in Northeast and upper Midwest United States. In addition, transfusion-associated cases of Babesiosis can occur anywhere.

#### **Signs and symptoms:**

*Babesia* infection can range from asymptomatic to life threatening. Symptoms are nonspecific and may include fever, chills, body aches, or fatigue, splenomegaly, hepatomegaly, or jaundice. Hemolytic anemia and thrombocytopenia are common.



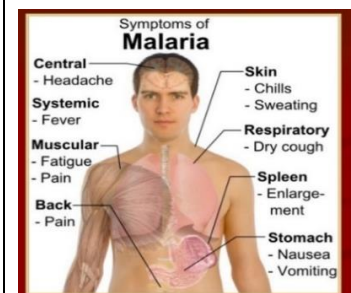
### MALARIA DISEASE

Malaria is a disease caused by a parasite named plasmodium and transmitted by bite of female Anopheles mosquito. Malaria can also be transmitted by blood transfusion.

**Prevalence:-** Malaria is prevalent in Africa, Central and South America, parts of the Caribbean, Asia, Eastern Europe, and the South Pacific

#### **Signs and symptoms:**

Symptoms may include high fevers and shaking chills, flu-like illness. Without treatment, malaria can cause severe illness and death.



### CHAGAS DISEASE

Chagas disease is caused by the parasite *Trypanosoma Cruzi*, which is transmitted by bugs, blood transfusion, can be congenital and by transplantation. Chagas disease (*T. Cruzi* infection) is also referred to as American trypanosomiasis.

**Prevalence:** It is prevalent in Mexico, Central America, and South America.

#### **Signs and symptoms:**

Fever, fatigue, body aches, headache, rash, loss of appetite, diarrhea, vomiting, cardiac and gastrointestinal complications.



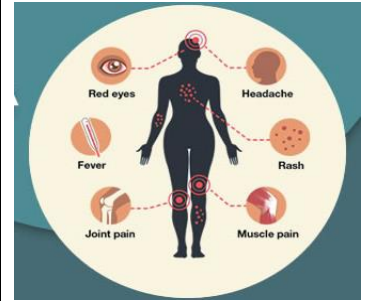
### ZIKA VIRUS

Zika is spread mostly by the bite of an infected *Aedes* species mosquito (*Ae. aegypti* and *Ae. albopictus*).

**Prevalence:** Zika was prevalent in North America and some African countries. Currently there is no local transmission in the United States.

**Signs and symptoms:**

Fever, Rash, Headache, Joint pain, Red eyes, Muscle pain.



### WEST NILE VIRUS DISEASE

West Nile virus is most commonly spread to people by the bite of an infected mosquito, which get infected when they feed on infected birds. Blood transfusion and organ transplantation may also transmit the disease.

**Prevalence:** West Nile virus (WNV) is the leading cause of mosquito-borne disease in the continental United States

**Signs and symptoms:**

80% people don't have symptoms. Some have mild symptoms such as headache, body aches, joint pains, vomiting, diarrhea or rash, fatigue and weakness. Few have severe symptoms such as high fever, neck stiffness, disorientation, coma, convulsions, muscle weakness, vision loss, numbness and paralysis.

