



# DISEASES IN PERU

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# ZIKA VIRUS

- On April 17, 2016 the first confirmed case of the Zika virus in Peru was a 32 year old woman who got it from sexual transmission from her spouse that had recently traveled out of the country.
- Spreads through people usually by a bite of an infected Aedes species of a mosquito.
- The most common symptoms of Zika is fever, rash, joint pain, and conjunctivitis (red eyes).
- The illness is very mild with symptoms and can last several days to a week and rarely does anyone die for the Zika virus.
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# ZIKA VIRUS, HOW IT AFFECTS

- Though it may not affect people in a life threatening way for someone who is pregnant and becomes infected by Zika, it can cause a serious birth defect called microcephaly which is a condition to where the baby's head is much smaller than expected (meaning the brain stopped growing). It may also cause other severe and fatal birth defects.



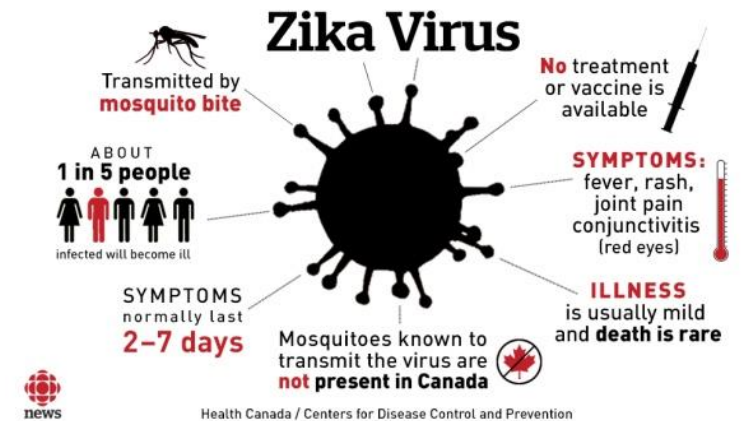
Baby with Typical Head Size



Baby with Microcephaly



Baby with Severe Microcephaly



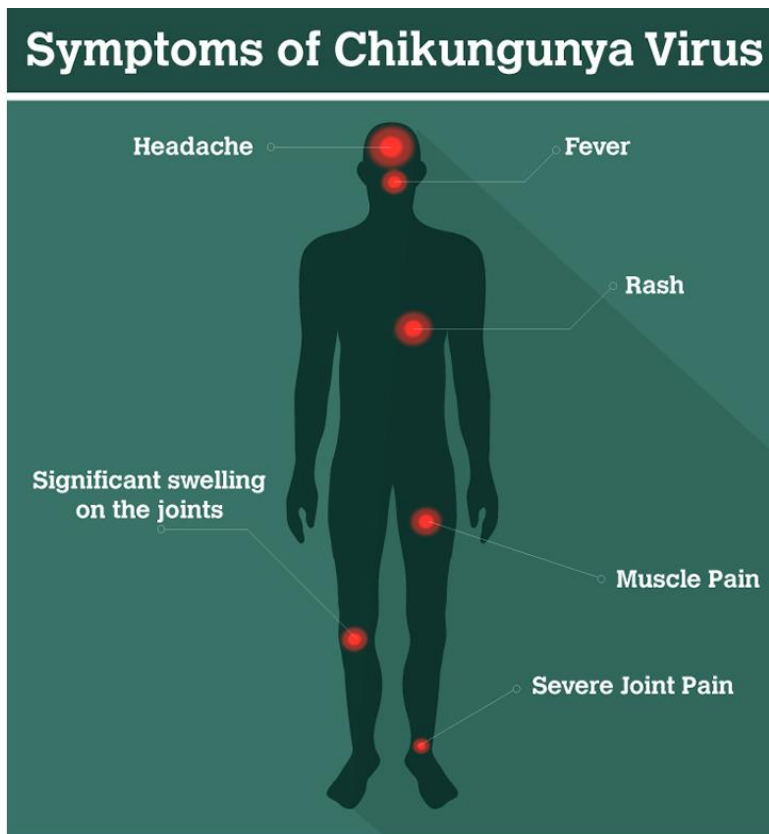
# CHIKUNGUNYA

- A virus transmitted to people by mosquito.
- These mosquitoes tend to bite during the day.
- The most common symptoms are fever and joint pain, other symptoms include headache, muscle pain, joint swelling or rash.
- Symptoms begin 3-7 days after infected.





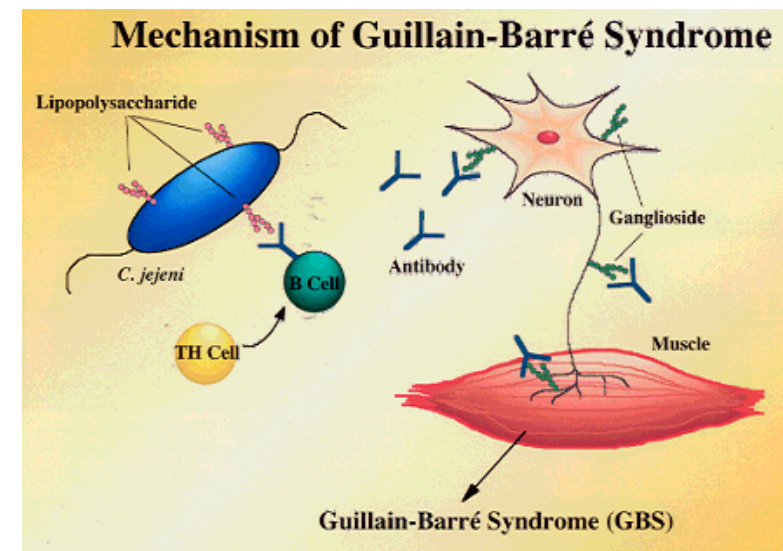
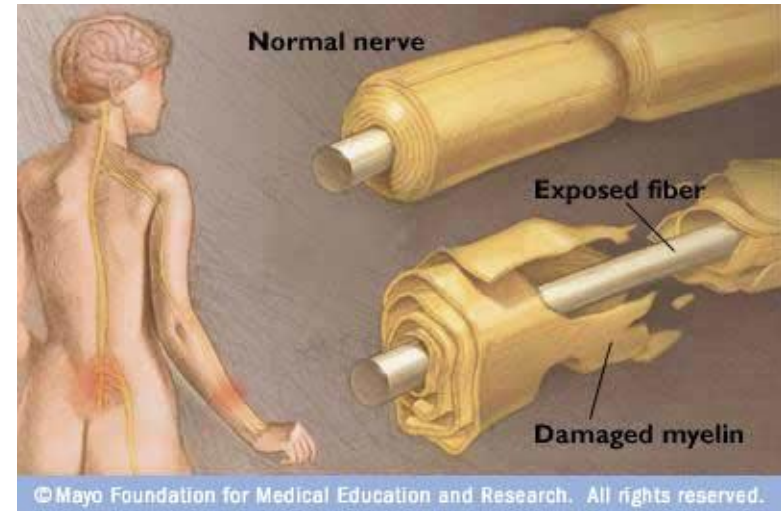
# CHIKUNGUNYA



- The disease is associated with urban environments similar to Dengue fever in Peru.
- No vaccine exists to prevent Chikungunya disease.
- Use air conditioning or window/door screens to keep mosquitoes out, also use insect repellents.
- The treatment is to get plenty of rest and drink plenty of fluids.
- People tend to feel better within a week.

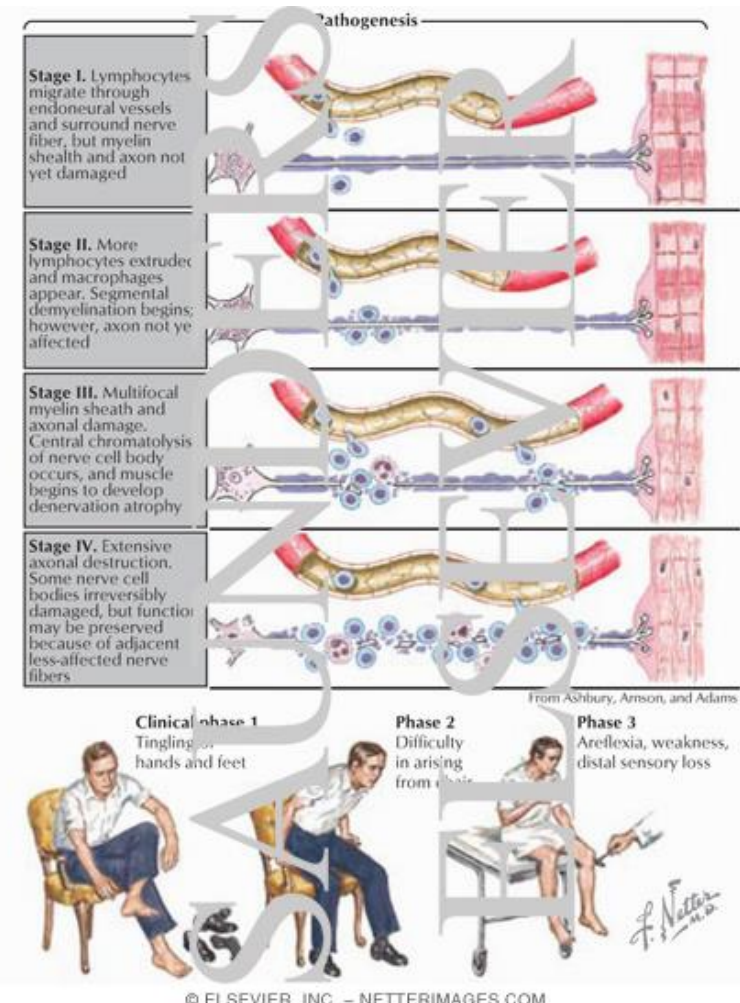
# GUILLAIN BARRE SYNDROME

- A disorder in which the body's immune system attacks part of the peripheral nervous system.
- The first symptoms include varying degrees of weakness and tingling sensations in the legs and in many instances the weakness and abnormal sensations may spread to the arms and upper body.
- These symptoms can increase intensity until certain muscles cannot be used and in severe cases it can make a person almost completely paralyzed.



# GUILLAIN BARRE SYNDROME (CON.)

- This disorder can be life threatening because it can interfere with breathing and at times a person's heart rate, therefore making it a medical emergency.
- No one really knows what sets this disease in motion or why it affects only certain people but what they do know is that the body's immune system starts to attack the body itself causing an autoimmune disease.
- There are no known cures for this disease, however therapies lessen the severity of the illness.





# CHAGAS DISEASE

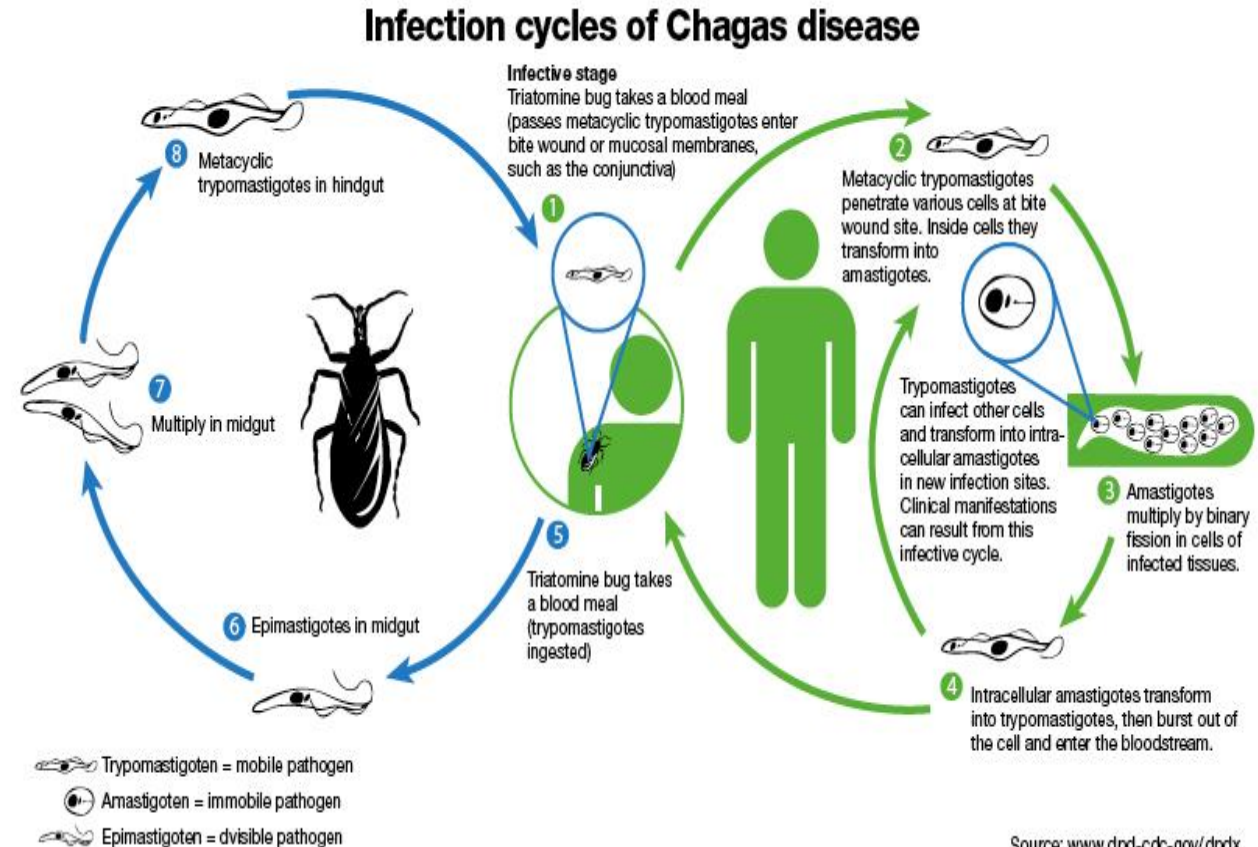
- Caused by vector-borne transmission which is a triatomine bug also known as the “kissing bug” that carries the parasite *Trypanosoma cruzi* which causes the disease.
- This disease presents itself in two phases, the acute phase and chronic phase.
- The disease is curable as long as the treatment is initiated soon after infection, but in the chronic stage anti-parasitic can prevent or curb the progression of the disease.
- Mainly transmitted through feces and urine of infected blood sucking kissing bugs, can also be transmitted through contaminated food and passage from an infected mother to newborn during pregnancy and childbirth.





# CHAGAS DISEASE (CON.)

- It can cause cardiac disorders or digestive (typically the enlargement of the esophagus and colon), neurological, and mixed alterations.
- Researchers have found evidence that the high infection rate of Chagas in Peru is due to the culling of guinea pigs.
- Infection rates in Peru are as high as 40 percent in some rural communities
- They started with the knowledge that infected insect rates were higher than the normal community and that those infected rates were centered around guinea pig enclosures.



# REFERENCES

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