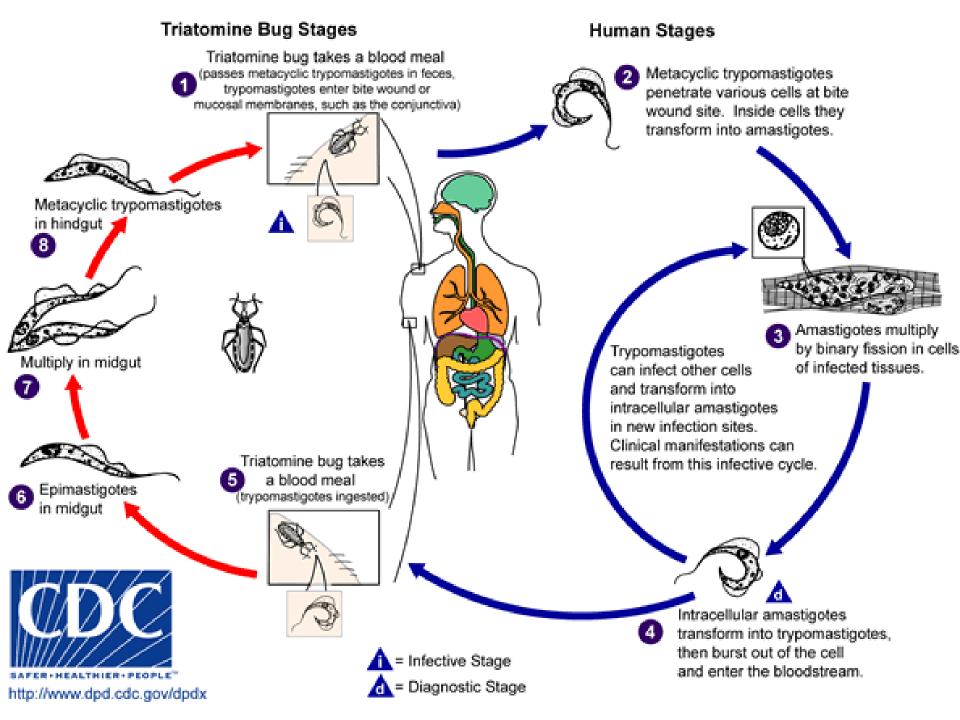


Morphology

- Spindle-shaped, about 20 microns in length in the peripheral blood.
- In tissue, a leishmanial form,
 1.5-4 microns in diameter
- Both forms have nucleus and a kinetoplast

Life Cycle

 Reservoirs are various animals including armadillos with trypanosomes in the bloodstream → ingested by a tratomid or cone-nosed bug → undergo transformation → infective stage → excreted in feces → contaminates bite site or adjacent mucous membranes -> both trypanosomal and leishmanial stages → the latter causing the damage and inflammatory response, the former available for hematogenous spread to other tissues and for uptake by the vector



Epidemiology

- Mexico
- Central and South America



Diagnosis

 In acute stage: finding of parasites in blood

- In chronic stage: Usually serology required, occasionally parasites seen in blood
 - -Xenodiagnosis occasionally employed

symptomatology

Acute:

- Myocarditis
- Encephalitis
- Local swelling at inoculation site (dhagoma) if periorbital, called Romana's sign

• Chronic:

- Cardiomyopathy with conduction disturbances
- Megacolon
- Megaesophagus
- Occasionally mega bronchus, megaureter, and megabiliary tract

Treatment

- Acute:
 - Lampit (an aminoquinoline)
 available from the Center for
 Disease Control, Atlanta, Georgia

- Chronic:
 - -Symptomatic and supportive

Prevention

- Vector control
- Improved housing
- Avoid transfusion from potentiallyh infected individuals (blood can be treated by addition of gentian violet to equal 1% of total volume)

