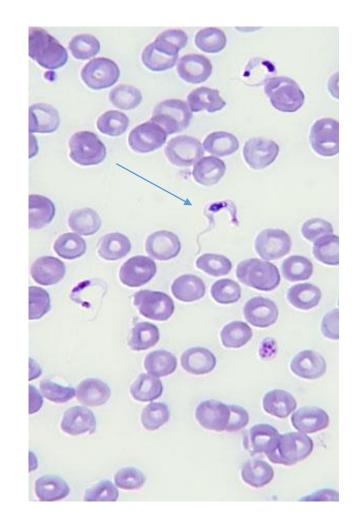
Trypanosoma cruzi & T. brucei gambiense/rhodesiense

Similarities and Differences

Please review slides and take competency quiz.

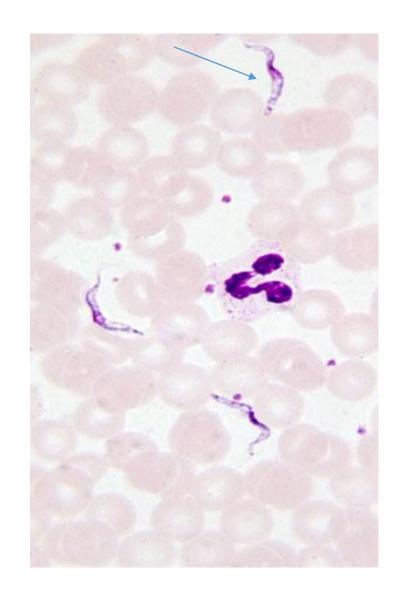
T. cruzi

- Cause of Chagas Disease
- Vector = Reduviid bug
- Transmitted by vector's feces in a wound
- Found as trypomastigote in blood or amastigotes in tissues



T. brucei gambiense/Rhodesiense

- The cause of African Sleeping Sickness
- T. brucei gambiense infects humans while T. brucei rhodesience infects animals
- Morphologically, they are identical
- Vector = Tsetse fly
- Transmitted through fly bite
- Found as trypomastigote in lymph node aspirates, blood and cerebral spinal fluid



How *T. cruzi* and *T. brucei* are the same

- Characteristic 'C-shape'
- Flagella attached to the body by an undulating membrane
- Extracellular parasites found in the blood

How they are different

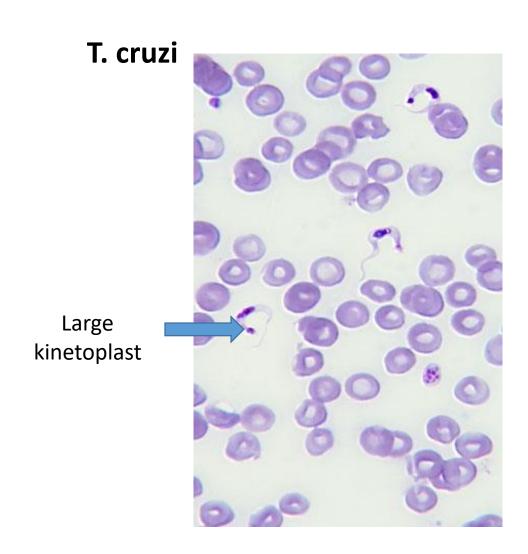
T. cruzi

- Will sometimes show a more slender shape, which will not form into the characteristic 'C'
- Kinetoplast is very large and anterior to nucleus
- ~20 micrometers
- Pointed posterior

T. brucei

- Non-slender
- Can divide in the blood
- Spherical bodies can be present (these are called morular cells of Mott)
- Kinetoplast is posterior to nucleus and small
- ~14 33 micrometers

Visual comparison



T. brucei

