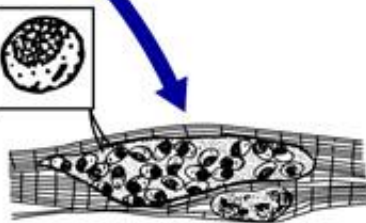


Triatomine Bug Stages

Human Stages

- 1** Triatomine bug takes a blood meal
(passes metacyclic trypomastigotes in feces,
trypomastigotes enter bite wound or
mucosal membranes, such as the conjunctiva)

- 2** Metacyclic trypomastigotes
penetrate various cells at bite
wound site. Inside cells they
transform into amastigotes.



- 3** Amastigotes multiply
by binary fission in cells
of infected tissues.

Trypomastigotes
can infect other cells
and transform into
intracellular amastigotes
in new infection sites.
Clinical manifestations can
result from this infective cycle.



- 4** Intracellular amastigotes
transform into trypomastigotes,
then burst out of the cell
and enter the bloodstream.

- 5** Triatomine bug takes
a blood meal
(trypomastigotes ingested)



5



i

Metacyclic trypomastigotes
in hindgut

8

Multiply in midgut

7

6 Epimastigotes
in midgut

6



i = Infective Stage

d = Diagnostic Stage