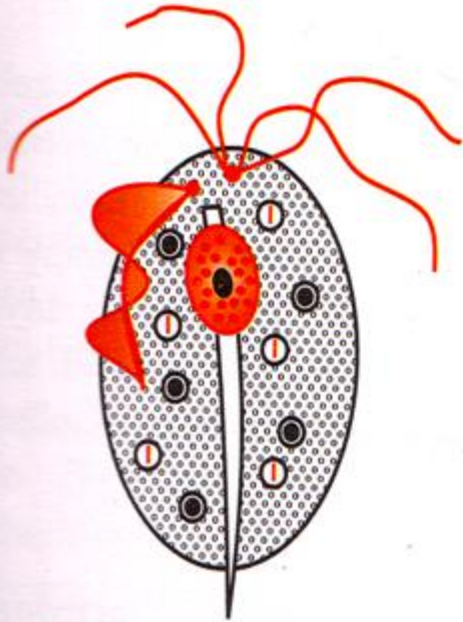
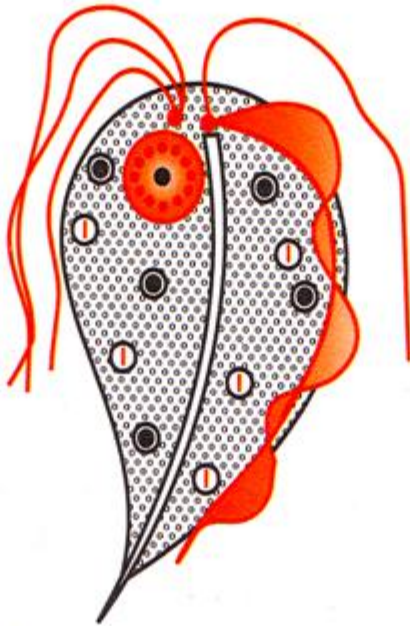


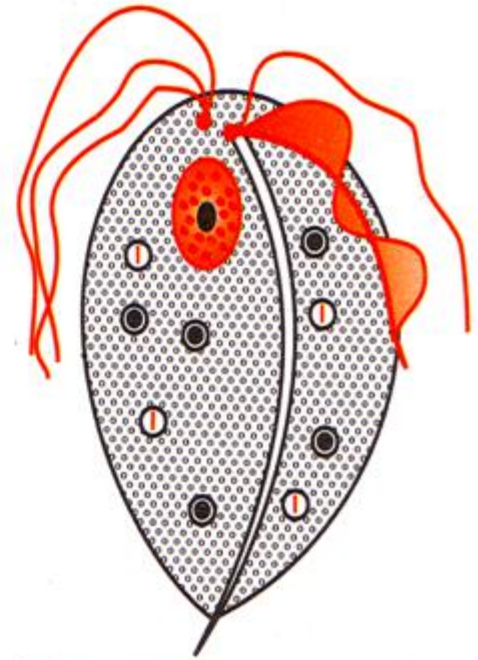
TRICHOMONAS



Trichomonas tenax



Trichomonas hominis



Trichomonas vaginalis

TRICHOMONAS VAGINALIS

- HABITAT

Human vagina, prostate, & urinary tract of both male & female.

TRICHOMONAS VAGINALIS

DISTRIBUTION

- World wide in distribution.
- Incidence in normal population is 10% .
- Asymptomatic infections in 50% of infected female patients.

MODE OF INFECTION

Sexually transmitted

TRICHOMONAS VAGINALIS

PATHOGENESIS

- Exact mechanism is not known.
- It depends upon inherent virulence of the parasite & host factors.

TRICHOMONAS VAGINALIS

CLINICAL FEATURES

- Mild vaginitis with discharge.
- Discharge is liquid , greenish or yellow in color.
- Discharge covers the vaginal mucosa down to urethral orifice, vestibular gland & clitoris.
- Male patients have mild or asymptomatic infections.
- Males develop itching and discomfort during micturation.

TRICHOMONAS VAGINALIS

- LABORATORY DIAGNOSIS

- In light microscopy;

Motile trophozoites in wet mount preparation of urine sediments, vaginal secretions or scrapings.

In males it may be found in urine /prostatic secretions.

- Fixed smears stained with Papanicolaou, Giemsa, Leishman stain examined under light microscope

- Fluorescent microscopy.

TRICHOMONAS VAGINALIS

- LABORATORY DIAGNOSIS

- Trichomonas vaginalis can be isolated on culture medias e.g. Trussel & Jhonson' s medium, Simplified trypticase serum medium

- For best growth in Simplified trypticase serum medium ;

Temperature--35-37° C under anaerobic conditions.

ph---5.5_6.0.

- Nucleic acid hybridization.

- PCR

TRICHOMONAS VAGINALIS

- PREVENTION

- Detection & treatment of cases.
- Avoidance of sexual contact with infected persons.
- Use of condoms.
- There is no vaccine available.

TRICHOMONAS VAGINALIS

TREATMENT;

➤ Metronidazole 250mg x TDS X 7 days.

OR

2gm orally X stat.

➤ Metronidazole is C. I in pregnancy.

So topical therapy with clotrimazole
100mg X OD X 7 days.

➤ Simultaneous treatment of sexual
partner is done to prevent recurrence
of infection.

LEISHMANIA

CLASSIFICATION OF LEISHMANIA

Species	Form of disease	Geographical distribution
	Old World leishmaniasis:	
<i>Leishmania donovani</i>	Visceral leishmaniasis, kala-azar, post kala-azar dermal leishmaniasis	Indian subcontinent, Africa, Middle East
<i>L. infantum</i>	Infantile visceral leishmaniasis	China, Mediterranean coast, Middle East
<i>L. tropica</i>	Urban anthroponotic cutaneous leishmaniasis, Oriental sore	Central Asia, Middle East
<i>L. major</i>	Rural, zoonotic, cutaneous leishmaniasis, Oriental sore	Indian subcontinent, Central Asia, Africa
<i>L. aethiopica</i>	Cutaneous leishmaniasis, diffuse cutaneous leishmaniasis	Ethiopia, Kenya
	New World leishmaniasis:	
<i>L. braziliensis</i> complex	Mucocutaneous	Tropical South America
<i>L. mexicana</i> complex	Cutaneous	Central America
<i>L. peruviana</i>	Cutaneous	Western Peru
<i>L. chagasi</i>	American visceral leishmaniasis	Tropical South America

LEISHMANIA

DONOVANI

(OLD WORLD

LEISHMANIASIS)

LEISHMANIA DONOVANI

DISEASE

- Visceral leishmaniasis & Kala-azar.
- Hypertrophy of reticulo endothelial system.

HABITAT

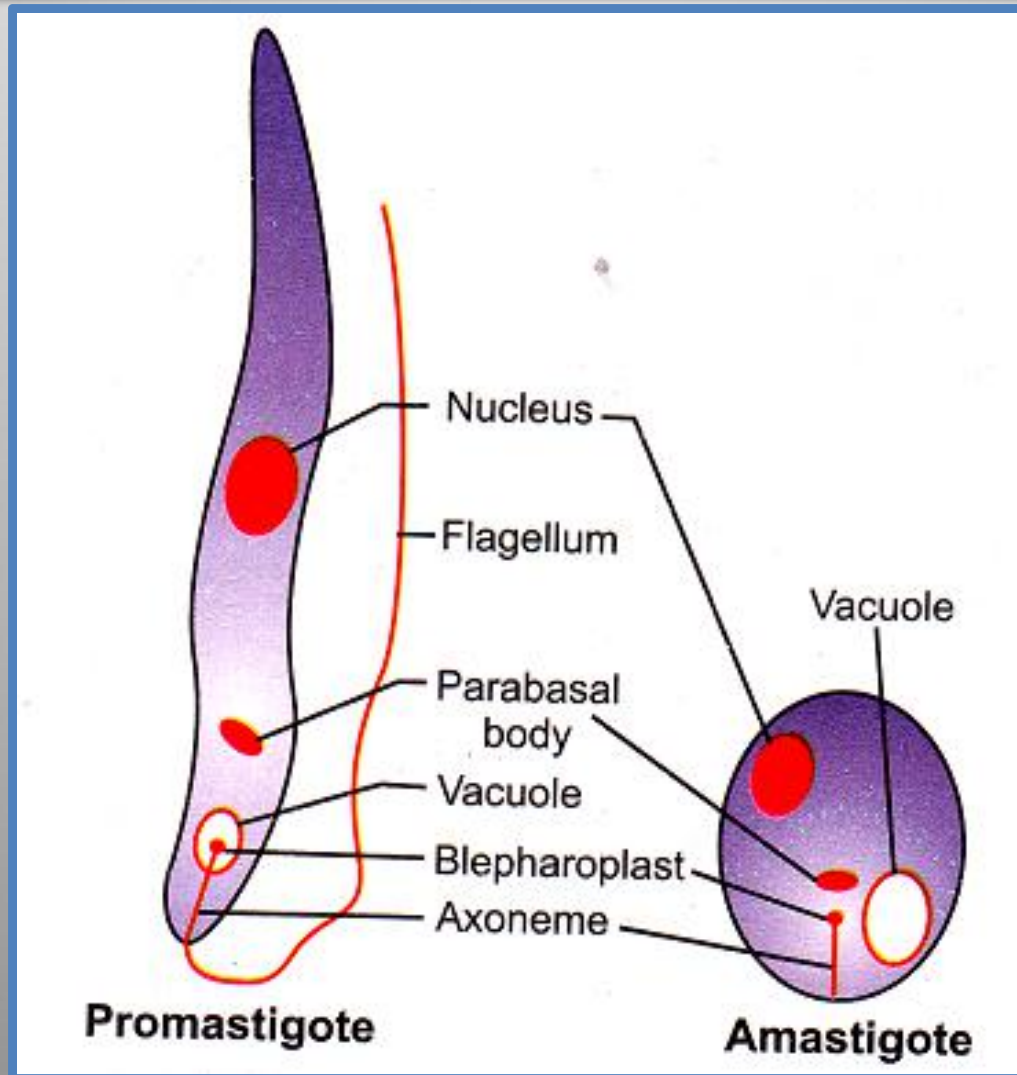
- It is an obligate intracellular parasite of reticulo -endothelial cells, predominantly of liver, spleen bone marrow and lymph nodes of man & other vertebrate host (dogs, hamster).
- Amastigote

MORPHOLOGY

This parasite exists in 2 forms;

- Amastigote – occurs in man.
- Promastigote – occurs in gut of insect (sandfly) and culture.

MORPHOLOGY



LIFE CYCLE

- Two vertebrate hosts -- Man & dog
- Invertebrate host -- Female sand fly of genus *Phlebotomus*.
- Important sand fly hosts include;
 - I. *P. argentipes*
 - II. *P. orientalis*
 - III. *P. martini*

packed with the parasites. The host-cell is thereby enlarged and eventually ruptures (as many as 50 to 200 or even more may be found embedded in the cytoplasm of the

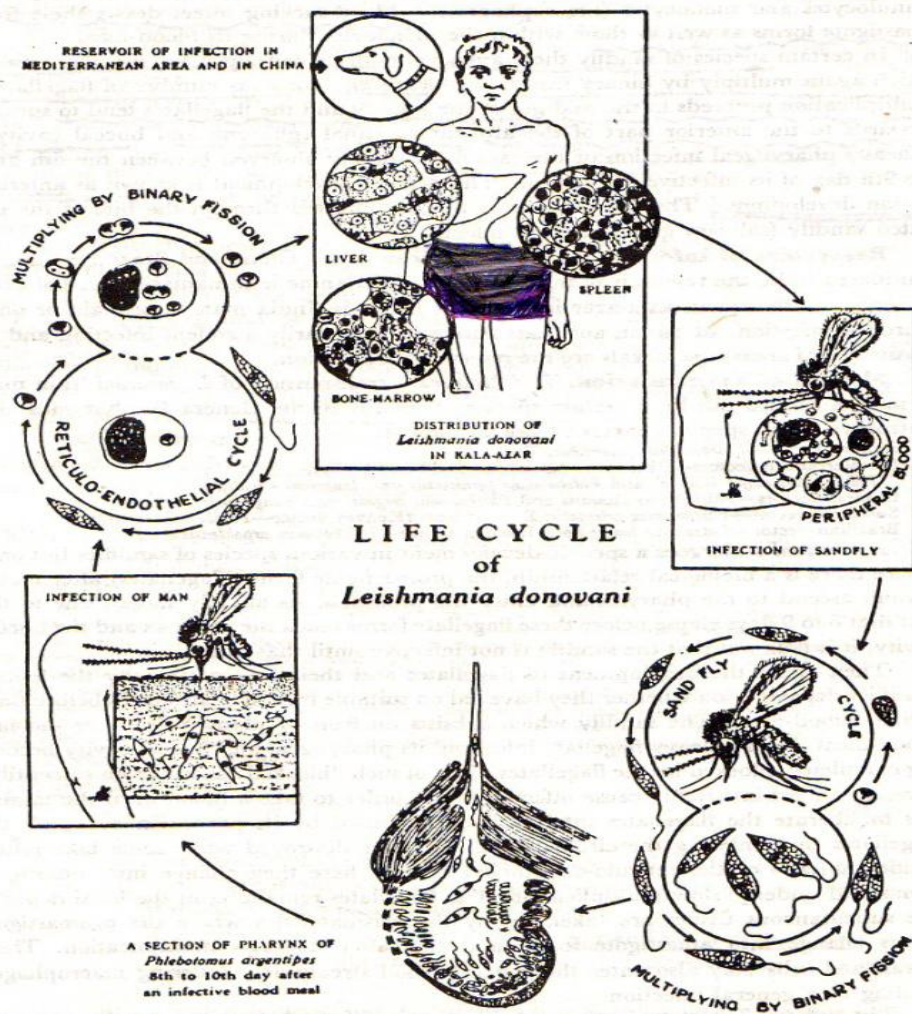


Fig. 51—Development stages of *L. donovani* in man and sandfly.

enlarged host-cell) (The parasites liberated as a result of the rupture into the circulation are again either taken up by, or invade fresh cells and the cycle is repeated.

MODE OF TRANSMISSION

- By bite of sand fly.