

DIAGNOSTIC LABORATORY TESTS

1. SPECIMENS:

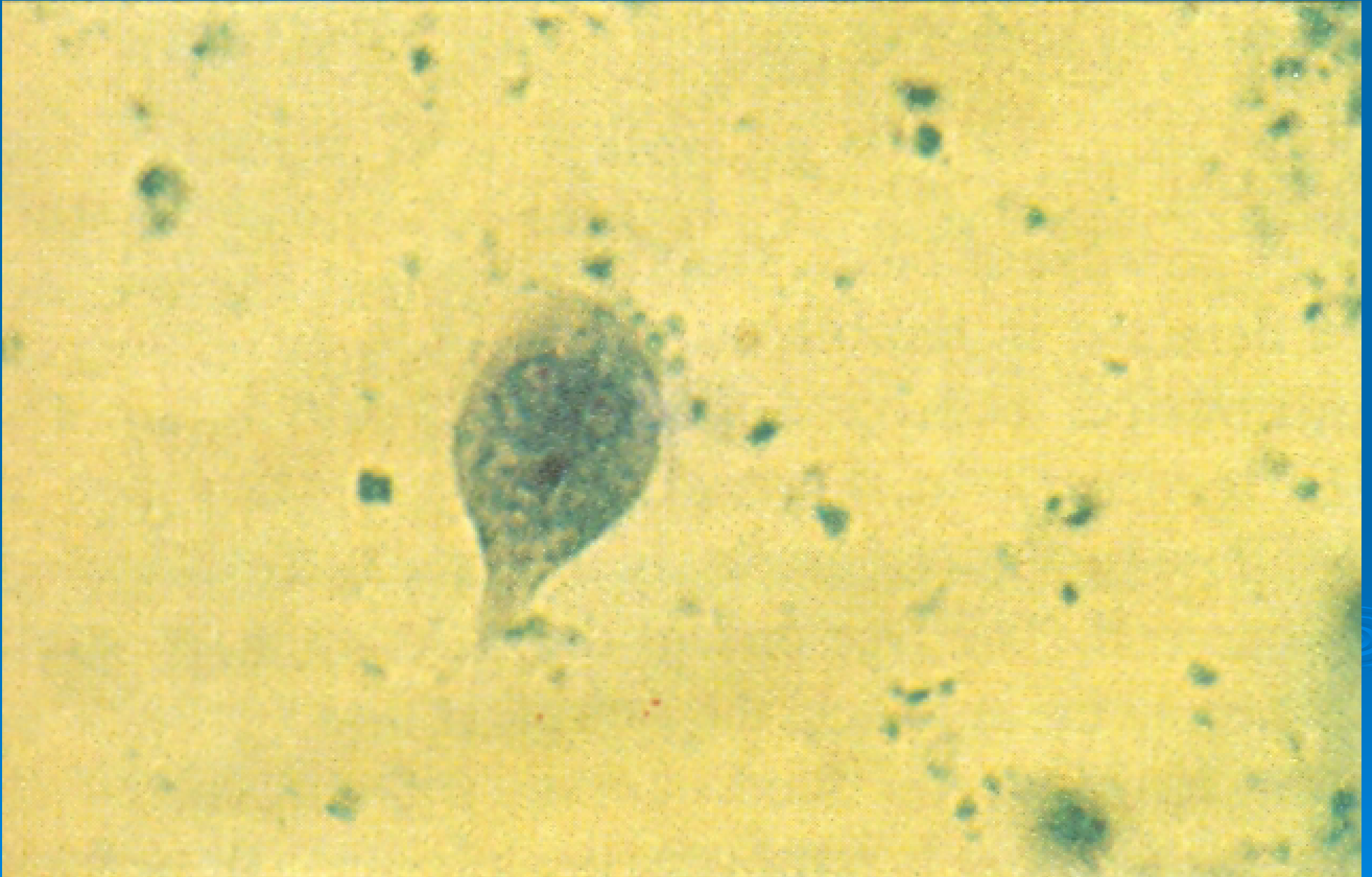
Stool

duodenal aspirate

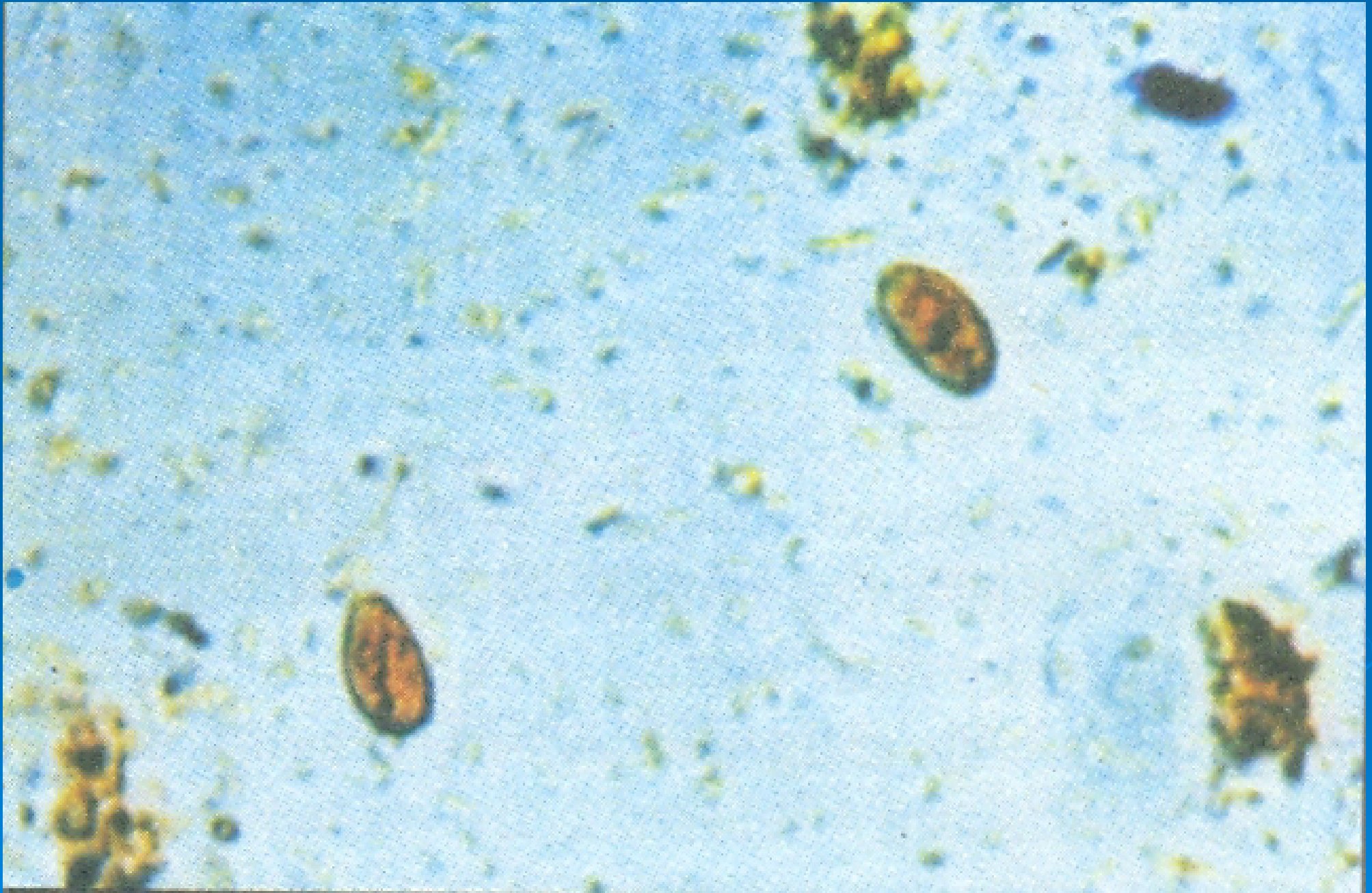
2. MICROSCOPY:

- Formed stool
- Liquid stool
- Duodenal aspirate

TROPHOZOITE



CYST



➤ IMMUNITY

➤ TREATMENT

- Metronidazole (Flagyl)
- Quinacrine hydrochloride
- Furazolidone

GIARDIA TRANSMISSION

- Resistant cysts .
- Reservoir-human .
- Possible sources of cysts:
 - Feces for fertilizer
 - Defective piping
 - Flies
 - Soiled hands

PREVENTION AND CONTROL

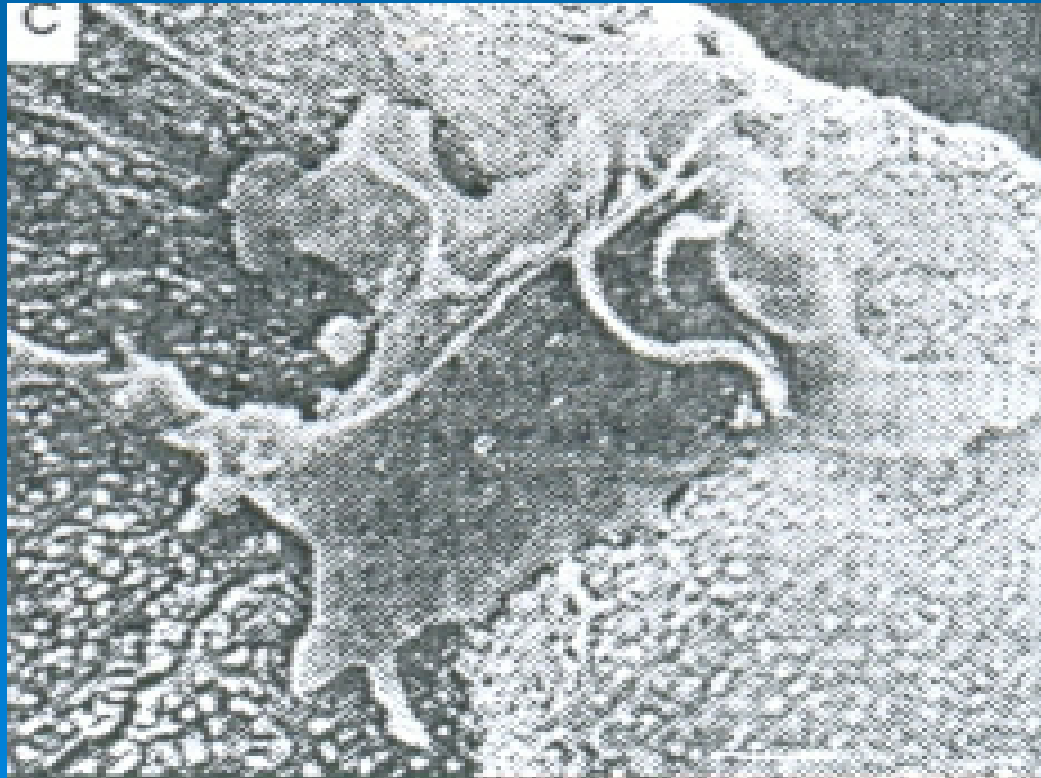
➤ Public Health:

- Sewage treatment
- Treat drinking water
- Medication infected members of the public
- Monitoring and treatment of food handlers

➤ Personal:

- Boiling stream water
- Iodine tablets
- Avoid contaminated water
- Keeping hands clean

Trichomonas Vaginalis



TRICHOMONAS VAGINALIS

SHAPE:

SIZE:

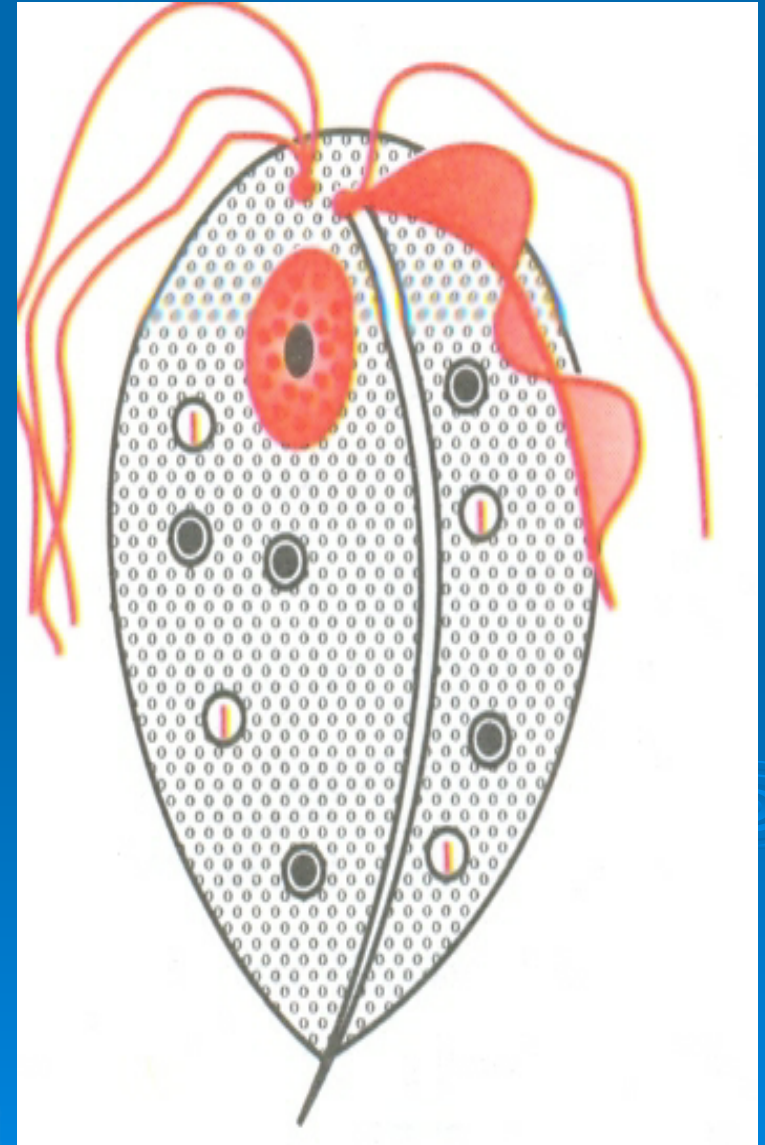
MORPHOLOGY:

- Flagella
- Undulating membrane
- Nucleus
- Axostyle

MOTILE:

FORM:

MODE OF TRANSMISSION



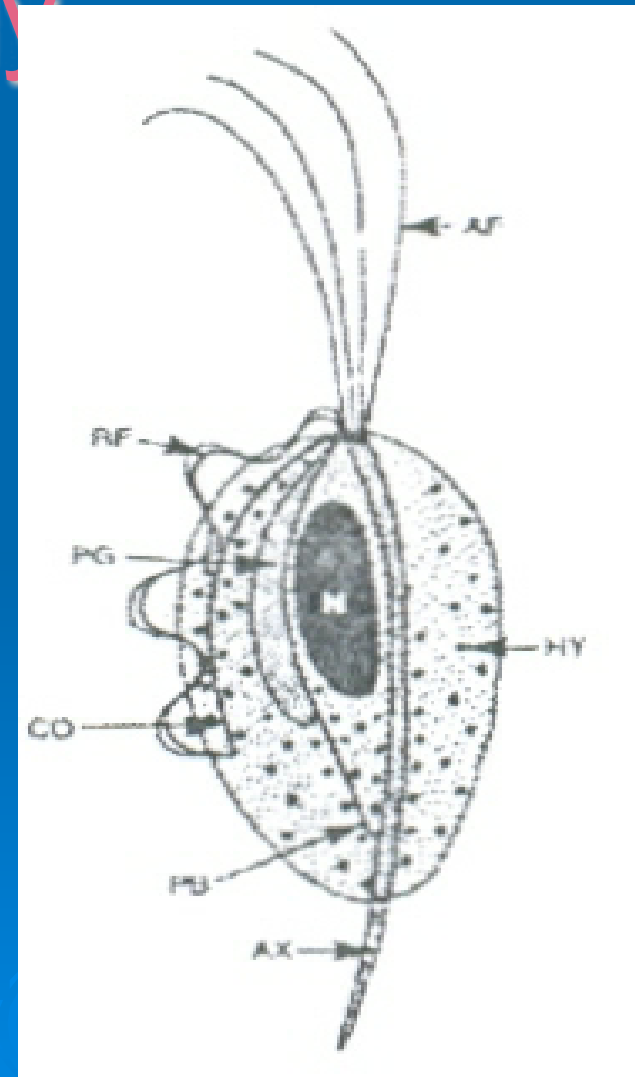
A modern drawing of *Trichomonas vaginalis*, showing essentials of morphology

Flagella:

Axostyle:

Granules:

hydrogenosomes



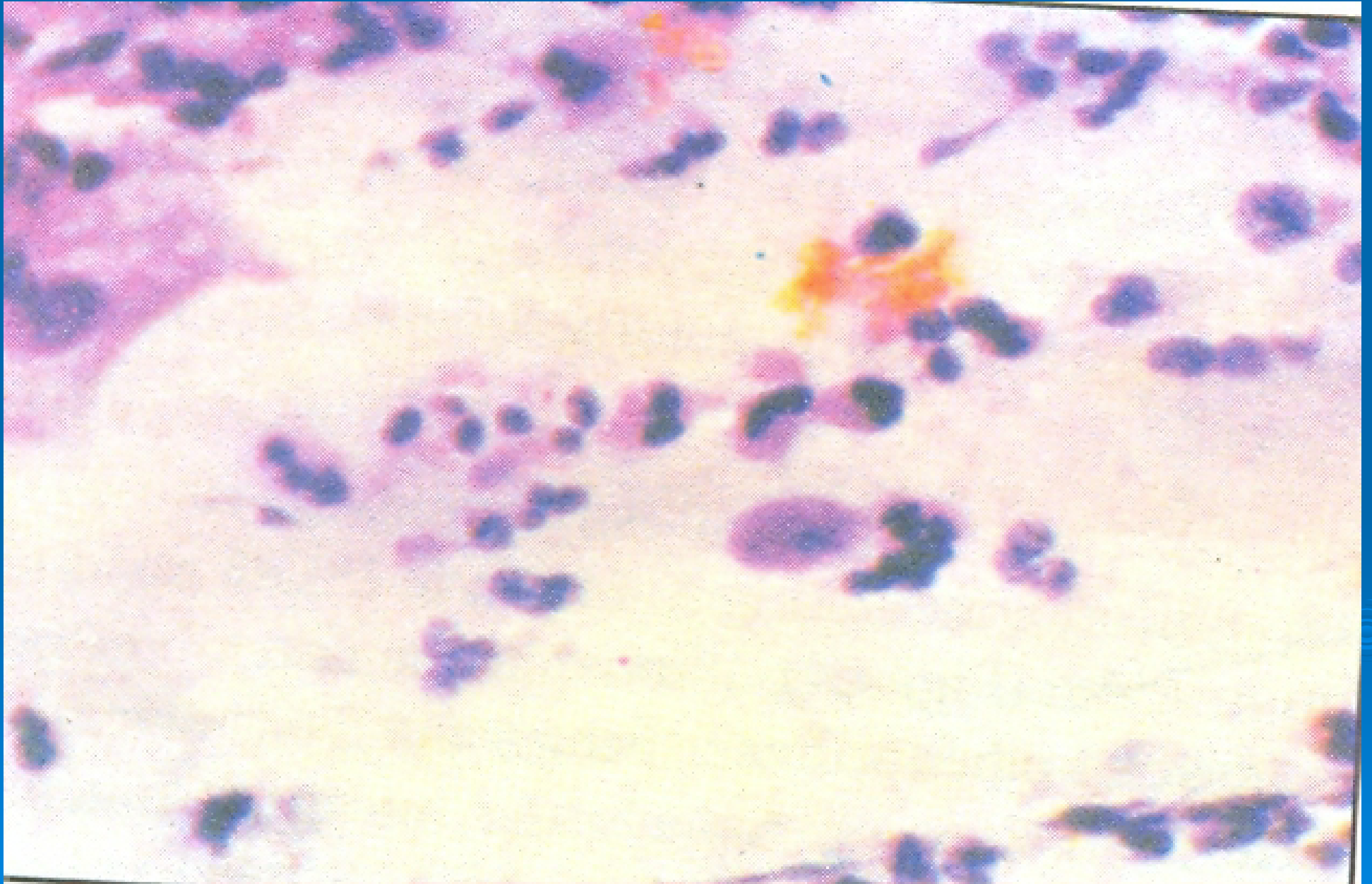
TRICHOMONAS VAGINALIS

- Causes a sexually transmitted disease called TRICHOMONIASIS
- Habitat
- Carriers
- Strict parasite
- Extracellular adheres to epithelia

TRANSMISSION

- Is primarily through contact between genital membranes.
- Although it can on rare occasions be transmitted through communal bathing, public facilities, and from mother to child.
- The incidence of infection is highest among promiscuous young women already infected with other sexually transmitted diseases such as gonorrhea or Chlamydia.
- Approximately 3 million new cases occur every year in the United States, making it the second most prevalent STD

TROPHOZOITES



SYMPTOMS AND SIGNS OF TRICHOMONIASIS

In the female

- Vaginal discharge.
- Vulvitis
- Cervicitis
- Urinary frequency and pain.
- Severe inflammation causes
 - tenderness
 - edema
 - itching

In the Males

- urethritis
- prostate infection

DIAGNOSIS

- Infection is diagnosed by demonstrating the active swimming trichomonads
- Alternative methods to detect asymptomatic infection are
 - Pap smear
 - culture of the parasite.

TREATMENT

➤ Metronidazole



THANK YOU

