

Aim: To Study the Morphology of Trophozoites and Cysts of Entamoeba histolytica

⇒ Introduction: A. histolytica is microscopic endoparasite of ~~man~~ human and it is commonly found in the upper part of large intestine. It is transmitted by fecal oral route by infective cysts being ingested with food, water and contaminated hands. It occurs in 3 forms.

1) TROPHOZOITES, 2) PRECYST, 3) CYST

⇒ Procedure for demonstration: Transfer small amount of stool sample on a slide containing 1 drop of saline mix with a stick and put a clean cover slip on it and observe under microscope using 40x objective lens.

⇒ Demonstration of Trophozoites:

- 1) Trophozoites size are 18-40 μ m.
- 2) Actively motile in freshly passed stool.
- 3) Cytoplasm is divisible into clear translucent ectoplasm and endoplasm.
- 4) Endoplasm contains single nucleus and in the center of nucleus a small dot like structure is karyosome. Is present spot like radial arrangement between karyosome and nuclear membrane is present.