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

Introduction: A. histolytica is a microscopic endoparasite of the human and it is commonly found in the upper part of the 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) Pre-cyst, 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 μm.
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.