

Observations on the Cystic Stage of *E. histolytica* in Abscesses of the Human Bowel. (18645)

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The exact place and formation of cysts of *E. histolytica* in human infections has not been decided. Most text books venture the opinion that the cystic stage is formed in the fecal stream and not in the bowel wall, where this ameba species causes abscess formations followed by ulcerations. Warthin(1) described the presence of cysts and pre-cysts of *E. histolytica* in amebic lesions of the testis and of the epididymis. No other references to such observations were found by this worker in the medical literature. Using a technic consisting of careful cleansing of the fecal stream overlying amebic abscesses, by means of aspiration employing a woven catheter and ear, nose and throat suction machine, followed by additional cleansing by aspiration with 1 cc bacteriologic pipette, the writer aspirated material containing cysts of *E. histolytica* from abscesses in the bowel wall of 25 patients with intestinal amebiasis.

Fig. 1 represents cysts of *E. histolytica* pipetted from a minute rectal abscess in a 26-year-old white male with chronic amebiasis. This material was stained with modified iodine

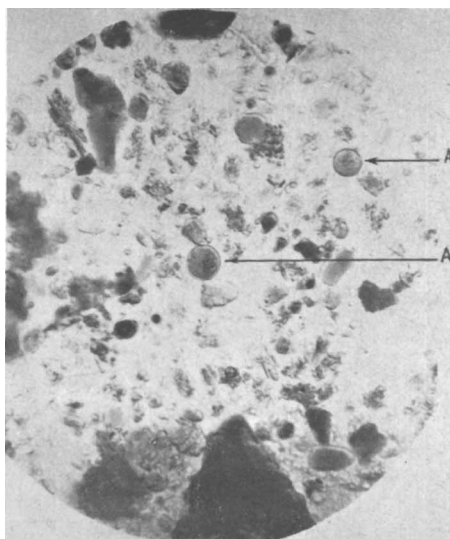


FIG. 1.

Cysts of *Endamoeba histolytica* aspirated from military abscess of the human bowel. ($\times 100$).
A. Cysts of *Endamoeba histolytica*.

stain and photographed in a wet preparation. These findings suggest that the cysts of *E. histolytica* may be formed within the tissues rather than in the fecal stream.

1. Warthin, A. S., *J. Infect., Dis.*, 1922, v30, 559.

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Blood Volume of the Normal Female as Determined with P32 Labeled Red Blood Cells.* (18646)

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During the course of an investigation of the changes in the blood volume in pregnancy it became apparent that a re-evaluation of the blood volume standards in normal women was necessary.

As measured with the dye T-1824 in normal males and females, the blood volume and plasma volume were significantly lower in the female(1,2), and with the red dye methods there was no marked difference between males and females(3,4). Only 2 blood volumes were reported in normal females using the

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