ENTAMOEBA HİSTOLYTİCA

Prof.Dr.Sema ERTUĞ Aydın Adnan Menderes Üniversitesi Tıp Fakültesi Parazitoloji Anabilim Dalı

ENTAMOEBA HISTOLYTICA

Dünya Sağlık Örgütü verilerine göre her yıl 500 milyon kişi *E.histolytica* ile enfekte olmasına rağmen bunların yalnız %10'unda semptomatik hastalık görülmekte

Yılda 40.000-100.000 kişi ameobiasis nedeni ile ölmekte

Dünyada sıtmadan sonra ikinci sıklıkta ölüme neden olan parazitik hastalık

E. histolytica intestinal tutulum

- 1-Asemptomatik
- 2-Dizanteri
- 3-Akut nekrotizan kolit
- 4-Ameboma
- 5-Toksik megakolon
- 6-Perianal fistül ve ülser

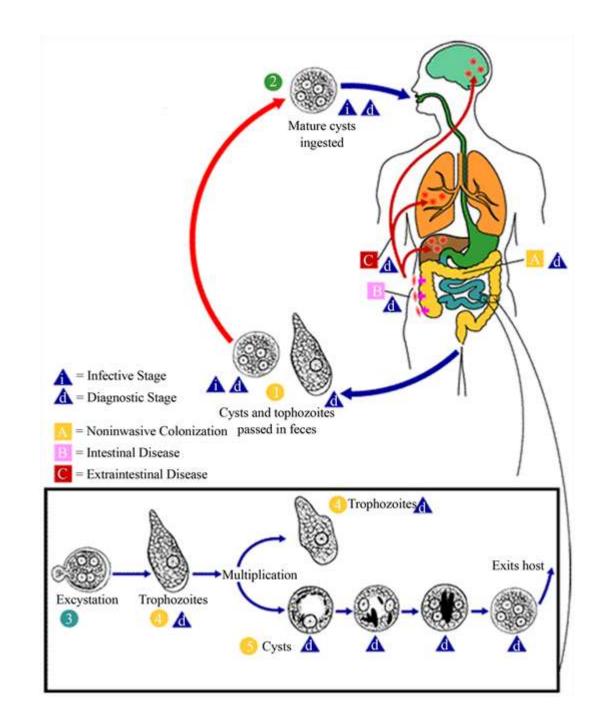
Ekstraintestinal Ameobiasis

Amibik Karaciğer Absesi

Serebral Amebiasis

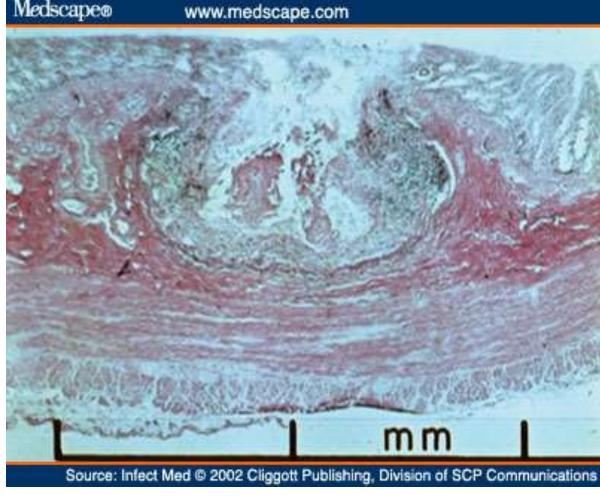
Plöropulmoner Ameobiasis

Deri Ameobiasis



ENTAMOEBA HİSTOLYTİCA NEDENİ İLE OLUŞAN BAĞIRSAK ÜLSERLERİ





Cecal ameboma mimicking obstructing colonic carcinoma

Mutlaq Almalki* and Waed Yaseen

Department of General Surgery, Alnoor Specialized Hospital, Makkah, Saudi Arabia

Abstract

Ameboma is a mass of granulation tissue with peripheral fibrosis and a core of inflammation related to amebic chronic infection. The initial presentations of colonic ameboma usually include obstruction and low gastrointestinal bleeding. It may mimic colon carcinoma or other granulomatous inflammatory conditions of the colon in both the clinical presentation and the endoscopic appearance. Here, we report a case of a 45-year-old male with a presentation of abdominal pain and constipation, as well as clinical, radiological and endoscopic presentation resembling colonic carcinoma, that was managed operatively with right hemicolectomy and post-operative histopathologic finding of cecal ameboma.









(A) and (B) Resected bowel of a 45-year-old male with an obstructing right-sided colonic mass.

(A) and (B) Abdomen CT with IV and oral contrast showed small bowel obstruction secondary to cecal mass.

INTESTINAL ameobiasis LABORATUVAR TANI

DIŞKININ MİKROSKOBİK BAKISI VE KÜLTÜR DIŞKIDA ANTİJEN ARAYAN TESTLER PCR



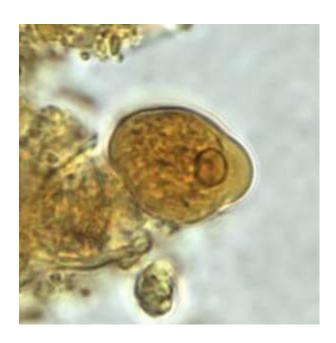
E.histolytica/E.dispar kist direkt ve lugol (iyot) ile bakı



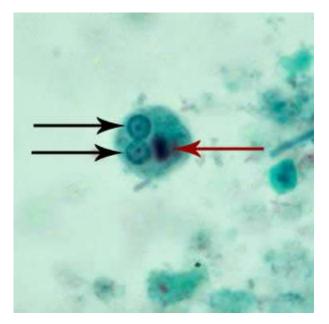


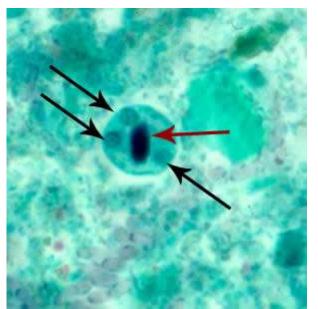


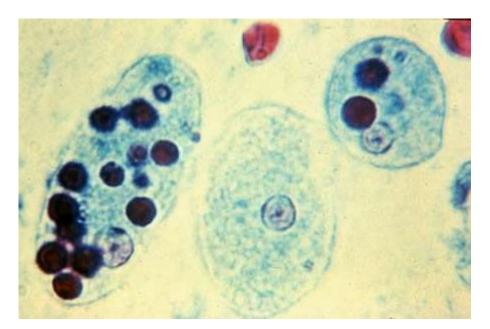




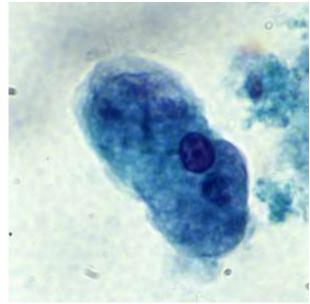
E.histolytica/E.dispar trofozoit lugol (iyot) ile direkt bakı







E.histolytica/E.dispar trofozoit ve kistleri trikrom boyama lugol



REVIEW

A review of amoebic liver abscess for clinicians in a nonendemic setting

Terry Wuerz MD^{1*}, Jennifer B Kane MD^{2*}, Andrea K Boggild MD³, Sigmund Krajden MD⁴, Jay S Keystone MD³, Milan Fuksa DSc⁴, Kevin C Kain MD^{3,5}, Ralph Warren MD⁶, John Kempston MD⁴, Joe Anderson MD⁴

Amoebic liver abscess (ALA) is an uncommon but potentially lifethreatening complication of infection with the protozoan parasite Entamoeba histolytica. E histolytica is widely distributed throughout the tropics and subtropics, causing up to 40 million infections annually. The parasite is transmitted via the fecal-oral route, and once it establishes itself in the colon, it has the propensity to invade the mucosa, leading to ulceration and colitis, and to disseminate to distant extraintestinal sites, the most common of which is the liver. The authors provide a topical review of ALA and summarize clinical data from a series of 29 patients with ALA presenting to seven hospitals in Toronto, Ontario, a nonendemic setting, over 30 years.

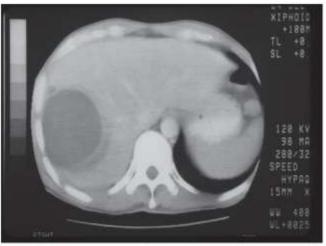


Figure 2) Noncontrast computed tomography image demonstrating rightsided amoebic liver abscess in a patient presenting to care in Toronto, Ontario, after international travel. The abscess is homogenous and single, which is a typical finding

BOX 1 Characteristics of 29 patients presenting to seven hospitals in Toronto, Ontario, between 1980 and 2005

Data presented as n (%) unless otherwise indicate	od .
Serology positive	27 (93)
Stool trophozoite seen	7 (24)
Diagnostics	
Icterus	7 (24)
Right basilar lung signs	8 (28)
Epigastric tendemess	15 (52)
Right upper quadrant tenderness	22 (76)
Fever	23 (79)
Signs at presentation	
Diarrhea or dysentery	11 (38)
Right chest pain	12 (41)
Weight loss	14 (48)
Abdominal pain	16 (55)
Anorexia	19 (66)
Fever	26 (90)
Symptoms at presentation	
Pacific Islands	1 (4)
Southeast Asia	1 (4)
Sub-Saharan Africa	3 (12)
Central America or Carribean	3 (12)
South America	3 (12)
North Africa or Middle East	3 (12)
South Asia	10 (40)
Region of travel	
median (range)	
Duration of symptoms before diagnosis, days,	14 (2-271)
median (range)	to 14 years)
Time between travel and symptom onset,	28 weeks (1 day
History of travel to the tropics	25 (86)
Male sex	24 (83)
Age, years, median (range)	33 (22-54)

Data presented as n (%) unless otherwise indicated

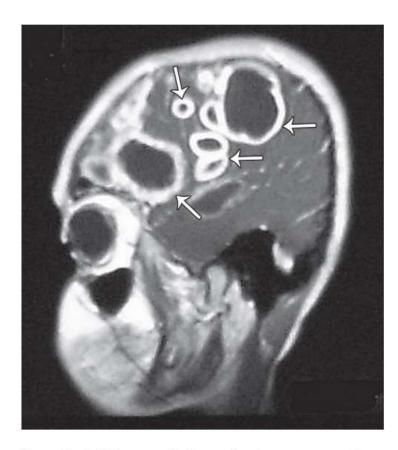
BOX 3 Comparison of epidemiological and clinical features of pyogenic and amoebic liver abscesses

		Amoebic liver
Feature	Pyogenic abscess	abscess
Sex bias	No	Males
Typical age at presentation	Fifth to seventh decade of life	Third decade of life
History of tropical travel	Uncommon	Almost universal
Underlying hepatobiliary comorbidities	Very common	Uncommon
Number of abscesses	Often small and multiple	Usually single; right lobe
Hypoalbuminemia	Uncommon	Common
Positive blood or aspirate bacterial cultures	Common	Rare
Elevation of the right hemidiaphragm on	Uncommon	Common
chest x-ray		- 10 1 1 1 1 1
Amoebic serology	Negative	Positive in 90% within 2 weeks of symptom onset

Case Reports

A rare case of multilocus brain abscess due to *Entamoeba* bistolytica infection in a child

Gülden S. Tamer, MD, PhD, Selim Öncel, MD, Sevil Gökbulut, MD, Emin S. Arisoy, MD.



7 →

Figure 2 - Amebic trophozoites as shown with arrows. Note the neutrophilic and lymphomononuclear infiltrates (Hematoxylin & Eosin) (x400).

(E. histolytica) may pose a diagnostic problem or a therapeutic challenge, as evidenced by the paucity of papers reporting complete recovery after treatment. An 11-year-old girl presented with progressive drowsiness, diminished movements of the left upper limb, and swallowing problems. Cranial MRI showed multiple, contrast-dense masses with fluid content. She was started on meropenem. Surgical drainage was performed. No bacterial or fungal growth was observed in drainage samples. Entamoeba histolytica trophozoites were detected in the tissue sample. Intravenous metronidazole was started and continued for 6 weeks, at the end of which abscesses were found and to have shrunk considerably. Intravenous therapy was switched to oral metronidazole, which was continued for 2 weeks. She regained all her preexisting abilities. Multiple brain abscesses due to E. histolytica is a very rare occurrence, and histopathologic evaluation is important in diagnosis.

due to

Entamoeba

histolytica

Brain

abscess

 Cranial MRI revealed multiple, contrast-dense masses (abscesses) with fluid content and circumferential edema in the right frontotemporoparietal region (arrows).

Saudi Med J 2015; Vol. 36 (3): 356-358 doi: 10.15537/smj.2015.3.10178

Case Report: Cutaneous Amebiasis: The Importance of Molecular Diagnosis of an Emerging Parasitic Disease

Patricia Morán, Liliana Rojas, René Cerritos, Valeria Zermeño, Alicia Valadez, Griselda Montes de Oca, Miguel Ángel Reyes, Enrique González, Oswaldo Partida, Eric Hernández, Miriam Nieves, Tobías Portillo, Marco Gudiño, Manuel Ramiro, and Cecilia Ximénez*

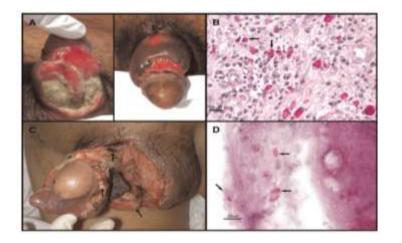
Department of Experimental Medicine, Faculty of Medicine, National Autonomous University of Mexico (UNAM), Mexico City, Mexico;

Dermatology Department, General Hospital of Mexico, Ministry of Health, Mexico City, Mexico; Urology Department,

General Hospital of Mexico, Ministry of Health, Mexico City, Mexico; Unit of Education, Scientific Research and

Health Policy Direction of Medical Benefits, Mexican Institute of Social Security Mexico City, IMSS, Mexico

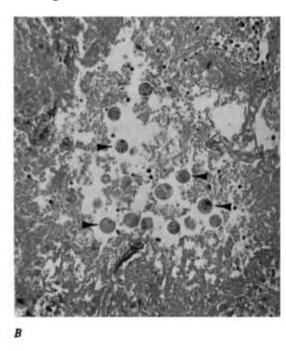
Abstract. Cutaneous amebiasis is the least common clinical form of human amebiasis in Mexico, sexual amebiasis was only occasionally observed before the late 1980s. However, in the last few decades, most of the documented cases of cutaneous amebiasis from around the world are sexually transmitted. We present two cases of sexually transmitted genital amebiasis. The molecular characterization of the Entamoeba species in the affected tissues underlines the importance of an etiological diagnosis using specific and sensitive techniques that avoid the rapid destruction of tissues and the irreversible sequelae to the anatomy and function of the affected organs. In addition, for those interested in the study of the human-amoebic disease relationship and its epidemiology, the detection of a new, mixed infection in an invasive case of amebiasis reveals new perspectives in the study of the extraordinarily complex host-parasite relationship in amebiasis.



Thoracic amebiasis

S.M. Shamsuzzaman, Y. Hashiguchi, Clin Chest Med 23 (2002) 479–492





Types of lung involvement

Type of lesion	Percent
Hepatobroncial fistula	47
Pleural effusion and empyema	19
Lung abscess	14
Consolidation	10

Entamoeba histolytica involving the right lung after rupture of a hepatic abscess through the right hemidiaphragm. (A) Chest radiograph shows elevated right hemidiaphragm, right lower lobe infiltrate, and effusion. (B) Cysts of amebae in lung tissue

EKSTRAINTESTINAL AMEOBIASIS LABORATUVAR TANI

DIŞKININ MİKROSKOBİK BAKISI VE KÜLTÜR???

KANDA ANTİKOR ARAYAN TESTLER (IHA)

ÖRNEĞİN MİKROSKOBİK BAKISI

DIŞKI ÖRNEKLERİNİ BAŞKA BİR MERKEZE GÖNDERİLMESİ

ÜÇLÜ KAP 1-NORMAL DIŞKI 2-%10 FORMOL 3-PVA FİKSATİFİ İÇİNDE

KATI DIŞKILAR 2-8 °C' DE SAKLANIRSA 24 SAAT İÇİNDE İNCELENEBİLİR

DIŞKI ÖRNEKLERİNİ RAPORLANMASI

Sadece direkt mikroskobik bakı incelendiyse;
DIŞKIDA E.histolytica/E.dispar KİST VE/VEYA TROFOZOİDLERİ
SAPTANDI

Direkt mikroskobik bakıya ilaveten trikrom yapıldıysa; TRİKROM BOYALI PREPARATTA ERİTROSİT İÇEREN E.histolytica GÖZLENDİ

PCR ve/veya E.histolytica spesifik antijen arayan testler yapılabildiyse: **DIŞKIDA** *E.histolytica* **SAPTANDI**