infections (8, 9). This rate was even in the lower range of values found among HIV-infected heterosexual persons in industrialized countries (9%–27%) (2). Our results therefore suggest that the high seroprevalence rates of HIV and HCV in Africa will not necessarily result in a high prevalence of HIV/HCV coinfection.

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Christian Laurent,*
Anke Bourgeois,*†
Mireille Mpoudi,† Christelle Butel,*
Etel Mpoudi-Ngolé,† and Eric Delaporte*

*Institut de Recherche pour le Développement/University of Montpellier 1, Montpellier, France; and †Military Hospital, Yaoundé, Cameroon

References


Address for correspondence: Christian Laurent, Institut de Recherche pour le Développement (UMR 145), 911 Avenue Agropolis, BP 64501, 34394 Montpellier CEDEX 5, France; email: christian.laurent@mpl.ird.fr

Amebic Liver Abscess in HIV-infected Patients, Republic of Korea

To the Editor: Amebic liver abscess (ALA) is the most common extraintestinal complication of amebic infection. Although loss of cellular immunity is thought to play a role in infection by the pathogen, whether HIV infection is also a risk factor for invasive amebiasis is controversial (1–3). ALA in HIV-infected patients has not been well characterized, although several case series have been reported (2, 4). We report the role of HIV infection status in ALA in an area where ALA is not endemic and the clinical features of ALA in HIV-infected patients.

All patients with ALA at Seoul National University Hospital (SNUH) from January 1990 through December 2005 were identified; some have been previously reported (5). SNUH is a 1,600-bed, university-affiliated teaching hospital and the largest referral center for HIV/AIDS in the Republic of Korea. The diagnostic criteria for ALA were radiologic evidence of intrahepatic abscess, trophozoites of Entamoeba histolytica in fluid aspirated from an abscess, or absence of bacteria and fungi in aspirated fluid and a titer ≥128 in an indirect hemagglutination assay (IHA) for E. histolytica.

Of 31 patients with ALA at SNUH from 1990 through 2005, 10 (32%) were HIV positive. The proportion of HIV-infected patients among patients with ALA increased significantly with time (linear-by-linear association, p<0.001) (Figure). Of 10 patients from 1998 through 2005, 8 (80%) were HIV positive. Except for 2 patients with a history of travel to an ALA-endemic area, 88% of the patients were HIV positive.

Median age of the 10 HIV-positive patients with ALA was 34.5 years (range 29–54 years); all patients were male. Four had a homosexual orientation, 4 had a heterosexual orientation, and 2 had an unknown sexual orientation. Fever (100%) was the most common symptom, and abdominal tenderness (90%) and diarrhea (50%) were frequently observed. Median leukocyte count was 9,000/mm³ (range 3,410–16,700/mm³), and median CD4 cell count was 279/mm³ (range 40–370/mm³). Eight patients had abscesses in the right lobe of the liver and 2 had abscesses in both lobes; 8 patients had 1 abscess and 2 had multiple abscesses. Median size of abscesses was 7.25 cm (range 3–12 cm). In 5 patients, pleural effusion was observed in chest radiographs. IHA titer was ≥128 in 10 patients and ≥512 in 8 patients. Median days to defervescence was 2 (range 1–5 days). In 2 patients, perforation of the abscess into the abdominal cavity was a complication. No patients died or had relapses.

Early in the AIDS pandemic, some studies reported that the prevalence of invasive amebiasis was not increased in patients with HIV infection (1, 6). However, recent reports of ALA associated with HIV infection have increased. Studies in Taiwan demonstrated that invasive amebiasis, including ALA, is on the increase in HIV-infected patients in disease-endemic areas (2, 7).
Amebiasis was previously an endemic disease in the Republic of Korea. The positive rate for cysts of *E. histolytica*/E. dispar in the general population was 10% in the 1960s (5). However, with improvements in sanitation, this rate decreased to 0.5% in 1993 and to nearly 0% in 2004 (8). The present study showed that ALA in association with HIV infection is increasing in the Republic of Korea, and that ALA in HIV-negative patients has greatly decreased. In a study in the United States, 38% of patients with ALA with no history of travel to a disease-endemic area were HIV positive (3). These results support the view that ALA is an emerging parasite infection in HIV-infected patients in non–disease-endemic areas, as well as in disease-endemic areas.

Immune suppression is an important risk factor for ALA. In animal studies, immune suppression after thymectomy or splenectomy results in an increased incidence of ALA (9). Suppressed cellular immunity caused by use of steroids and malnourishment predispose to fatal amebiasis (10). In the present study, 90% of patients had CD4 cell counts <350/mm³, which implies that immune suppression by HIV infection may be another risk factor for ALA.

Only 2 patients with pyogenic liver abscess were observed during the study. In these patients, pyogenic liver abscess was diagnosed, despite negative cultures for bacteria and fungi, because trophozoites of *E. histolytica* were not demonstrated in aspirated pus, and results of IHA for amebiasis were negative. However, we cannot exclude amebic liver abscess in these 2 patients because IHA test results can be negative in HIV-infected patients (2).

This study suggests that ALA is an emerging parasite infection in HIV-infected patients even in areas where the disease is not endemic. ALA should be considered in HIV-infected patients with space-occupying lesions in the liver, and HIV screening is strongly recommended in patients in areas where ALA is not endemic, especially those with no history of travel to a disease-endemic area.

Wan Beom Park,*
Pyoeng Gyun Choe,* Jae Hyun Jo,* Sung-Han Kim,* Ji Hwan Bang,* Hong Bin Kim,* Nam Joong Kim,* Myoung-don Oh,* and Kang Won Choe*
*Seoul National University College of Medicine, Seoul, Republic of Korea

References


Address for correspondence: Kang Won Choe, Department of Internal Medicine, Seoul National University College of Medicine, 28 Yeongun-dong, Chongro-gu, Seoul, Republic of Korea, 110-744; email: choekw@smu.ac.kr

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