

Localised lymphadenitis due to leishmaniasis. Diagnosis by fine needle aspiration cytology

Sir,

Localised leishmania lymphadenitis (LLL) is not a well known form of infection by Leishmania and is now considered as a limited form of visceral leishmaniasis (kala-azar) where lymphadenopathy is the only manifestation of the disease. In immunocompromised states, it can present as a focus of visceral dissemination of the parasite with an atypical clinical course. Although LLL is an uncommon cause of lymphadenopathy it should be considered in the differential diagnosis of patients presenting with enlargement of a single lymph node, especially where leishmaniasis is endemic, such as European countries bordering the Mediterranean, or in travellers from these areas. The diagnosis of leishmaniasis is made by visualising leishmania organisms (Leishman-Donovan bodies) under the microscope. Culture of the parasite in Nicolle-Novy-McNeal’s medium or others, skin and serological tests are not totally satisfactory.

We present two cases of LLL, both diagnosed by fine needle aspiration cytology (FNAC) from solitary lymphadenopathy. One case has been previously communicated.

The first patient was a 28 year old female. She had been splenectomized because of significant haemolytic anaemia from a heterozygotic state of haemoglobin Lepore and beta-thalassaemia. She came back to the hospital for a periodical revision. On physical examination a preauricular lymph node was detected. Material from FNAC contained Leishmania organisms. After diagnosis, serology was positive. Then we reviewed the slides from the spleen but no parasites were found. No treatment was given. The enlarged lymph node spontaneously regressed.

The other patient was a 43 year old male in complete remission from Hodgkin’s disease. Similarly, in revision, an enlargement of an inguinal lymph node was found. The FNAC was diagnostic. Serology was negative. Treatment with meglumine antimonate (Glucantime) was initiated; the lymphadenopathy remitted and the patient was well 6 months after diagnosis.

FNAC is a diagnostic tool little known to the vast number of practicing clinicians. It is an atraumatic procedure that is acceptable to the patients. It is quick, cheap and reliable. It is generally used to verify, or rule out, malignancy of a target tumour, but identification of micro-organisms, by direct examination or by culture of the material aspirated, is another indication.

Diagnosis of Leishmania by recognition of the parasite in the cellular material obtained by FNAC has been reported from some cases of LLL and from one case of the cutaneous form. It is important therefore to remember this clinical entity, probably under-recognised, particularly in endemic regions and we wish to emphasize the utility of FNAC as a diagnostic method.

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References


Hypoglycaemia in Sudanese children with cerebral malaria

Sir,

Hypoglycaemia is an important complication of Plasmodium falciparum infection. Its aetiology appears to vary in different parts of the world; it is associated with hyperinsulinaemia due to the insulinotropic effect of quinine in Thai patients, with normal insulin levels in Gambian patients and with high alanine and lactate levels in both groups.

In this preliminary study, we report on the occurrence of hypoglycaemia in 19 patients with cerebral malaria from Gedaref in Eastern Sudan. All patients were children (ages 4–11 years) with clinical symptoms of malaria, including neurological manifestations; subsequent investigations confirmed the presence of falciparum infection with moderate to severe parasitaemia. Whenever indicated a lumbar puncture was performed in order to exclude meningitis. Glucose, insulin and cortisol were assayed on plasma samples obtained from the patients on
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