LYMPHADENOPATHY - AN UNUSUAL CLINICAL FEATURE OF KALA-AZAR

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Abstract:
We report a 25-year-old man presenting with fever and weight loss for the six months along with anemia, hepatosplenomegaly and axillary lymphadenopathy. Laboratory investigations showed pancytopenia. Bone marrow and splenic aspiration was inconclusive, lymph node biopsy revealed LD bodies thus confirming visceral leishmaniasis. The case high lights the need of accepting lymph nodes as a site for diagnosing kala-azar and kala-azar lymphadenopathy is not as elusive as we think.

Introduction:
The annual estimate for the incidence and prevalence of kala-azar cases worldwide is 0.5 million and 2.5 million respectively. Surveillance data show an increasing trend in incidence since 1995. Of these, 90% of the confirmed cases occur in Indian subcontinent. Lymphadenopathy which is a certainly unusual feature of kala-azar but still has been reported in some series. We report here an unusual case of kala-azar with lymphadenopathy in which fine needle aspiration from lymph node revealed histiocytes stuffed with LD bodies.

Case report:
A 25-year-old man from Gopalganj, presented to Dhaka Medical College & Hospital with the complaints of fever and weight loss for months. Fever was low grade, irregular without any periodicity and failed to respond to multiple courses of antibiotics. He was moderately anaemic and weighed 41 Kg. Axillary lymph nodes were palpable on both sides which were discrete, nontender, firm in consistency. He had also hepatosplenomegaly. Liver was palpable 4 cm below the right costal margin and it was nontender, firm in consistency, smoothed surface and with sharp margin. Spleen was palpable 16 cm from the left costal margin which was nontender and firm in consistency. He had no jaundice, oedema or other stigmata of chronic liver disease. Laboratory investigations revealed WBC count 3000/mm³ with 47% neutrophils and 48% lymphocytes. Platelet count was 100,000/mm³. ESR was 112 in the 1st hour. Peripheral blood film did not show malarial parasites. Mantoux test was negative and chest x-ray revealed no abnormality. Ultra sonogram of abdomen showed hepatosplenomegaly. Endoscopy of upper GIT showed duodenal ulcer disease. Titre of direct agglutination test was > 1: 6400. Aspirates of bone marrow showed secondary reactive changes. Splenic aspirates did not show any Leishmania Donovan bodies. FNAC of axillary lymph node showed histiocytes stuffed with Leishman Donovan bodies.

The patient was treated with injection sodium stibogluconate intravenously at a dose of 20mg/kg for 20 days. Fever subsided at the 7th day of therapy. Spleen showed regression of size and lymphadenopathy disappeared at the 3rd week of therapy.

Discussion:
Visceral leishmaniasis presenting with fever and hepatosplenomegaly is a common phenomenon in Bangladesh. Identification of this disease is commonly done by indirect methods such as rapid diagnostic DAT (Direct Agglutination Test) and rK39. The disease is confirmed by identifying LD bodies in the bone...
marrow and splenic puncture. To the contrary kalazar lymphadenopathy and finding of LD bodies in the lymphnodes is quite uncommon in the Indian subcontinent, which is a fairly common presentation in African kalazar specially Sudan. Authors claim to report The first case of lymphatic leishmaniasis in Nepal in 2001 though in our search it was revealed that reports of kalaazar lymphadenopathy can be dated, back to 1998 where a 13 year old boy from Dharan, Nepal was reported to be diagnosed with the said. Lymphadenopathy in kalaazar has also been reported in a number of journals in India. In a case report from Iran they found LD bodies from submental lymphnodes of a 9 year old boy. Iran being a country not known to have kalaazar lymphadenopathy inspite of being an endemic area for visceral leishmaniasis; therefor suggested to keep in mind kalaazar as a cause of lymphadenopathy in endemic areas.

In 2007 a Bangladeshi expatriate in Singapore was diagnosed to have kalaazar through bone marrow aspiration, on clinical examination cervical lymphadenopathy was present but no biopsy was taken or FNAC performed as for so it is not possible to differentiate whether the enlargement was due to involvement of the lymphnodes or a reactive change. We however were unable to find any other case involving Bangladesh or a Bangladeshi individual having been reported for kalaazar lymphadenopathy. The interesting finding of our case is the absence of LD bodies in the usually expected sites namingly bone marrow and spleen, to the contrary the presence of LD bodies exclusively in the lymphnodes is quite unique for this region and has opened a new arena to think about.

We therefore suggest keeping in mind kalaazar whenever a patient presents with fever, hepatosplenomegaly and lymphadenopathy in an endemic zone.

References: