CASE REPORT

VISCERAL LEISHMANIASIS IN ADULTS

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Visceral Leishmaniasis (also known as Kala Azar) is a parasitic infection caused by Leishmania Donovani in the East and Leishmania Infantum in the West. It is prevalent in many countries including India, Bangladesh, Nepal, Africa and part of America. The disease follows chronic course and is usually lethal if left untreated. It has also been reported from different parts of Pakistan, including Northern areas, Districts Mansehra & Abbottabad and Hilly areas of Khyber Pukhtoonkhawah. Most the cases have been reported in paediatric population. Except one case, reported previously from Abbottabad. The present two cases were also seen in adults

Keywords: Visceral Leishmaniasis; Sandfly; Kala Azar

INTRODUCTION

Visceral Leishmaniasis is a parasitic disease caused by Leishmania Donovani in (LD bodies) the east and Leishmania infantum in the west.1 It has strong association with poverty.2 The parasite is transmitted to human by the bite of sandfly. Epidemiology varies in different parts of world. It is prevalent in the Indian subcontinent and about 200 million people are at risk.3 The disease is most commonly seen in children and has also been reported in adults. Co-infection with tuberculosis, hepatitis B or C and HIV has been reported in adults.4,5 It has also been reported in post-transplant adults and those treated for hepatitis B and Hepatitis C.6 Cases have been reported from northern areas of Pakistan, Azad Jammu and Kashmir and hilly areas of Khyber Pukhtoonkhawah.7–11 Previously one case of adult visceral Leishmaniasis was reported from Abbottabad. Here we report two more cases of visceral Leishmaniasis in adults from a different area

CASES 1

A 45 years old female patient from remote areas of District Battagram presented with low grade fever and pallor not responding to conventional treatment for the last two months. She completed treatment for pulmonary tuberculosis two years ago and was sputum negative for Acid Fast Bacilli. Her chest X. Ray was negative for active tuberculous lesions. General physical examination revealed pallor, axillary temperature of 101 °F. No organomegaly was noted. Her blood counts revealed pancytopenia. Bone marrow was aspirated from posterior iliac spine under local anaesthesia. Bone marrow aspirate revealed cellular marrow fragments, comprising erythropoiesis with megaloblastic change, unremarkable myelopoiesis and adequate megakaryocytes. The aspirate also revealed intracellular and extracellular Leishmania Donovani bodies (LD bodies), 25–30 per high power field (Figure-2). The diagnosis of visceral Leishmaniasis was established by bone marrow examination and no further testing was required.

CASE 2

A 51-year-old female patient from remote areas of District Battagram, presented with fever and epistaxis for the last one and a half month. She was a diagnosed patient of hepatitis C. General physical examination revealed pallor, patechiae and hepatosplenomegaly. Her complete blood counts revealed bicytopenia. Her chest X-Ray was unremarkable.

Bone marrow was aspirated from posterior iliac spine under local anaesthesia. Marrow aspirate revealed cellular marrow fragments, comprising erythropoiesis with megaloblastic change, unremarkable myelopoiesis and adequate megakaryocytes. The aspirate also revealed intracellular and extracellular Leishmania Donovani bodies (LD bodies), 25–30 per high power field (Figure-2). The diagnosis of visceral Leishmaniasis was established by bone marrow examination and no further testing was required.

Figure-1: Intracellular LD bodies (arrow) 100X
of these areas is especially at risk. This situation demands effective disease prevention and vector control measures, especially when there are reports of increasing resistance of parasite to the drugs commonly used for its treatment in the past few years.

**REFERENCES**


**DISCUSSION**

Although visceral Leishmaniasis has been reported mostly in the paediatric age group, availability of diagnostic tests, referral facilities, increasing treatment trends of hepatitis B and C and the emergence of resistance to anti-tuberculous treatment, are now contributing to the emergence of visceral Leishmaniasis in the adult immunocompromised individuals in those parts of the world where Visceral Leishmaniasis is prevalent, including Pakistan. A case of visceral Leishmaniasis was reported from the adult population of Abbottabad few years ago. The present two cases belonging to the remote areas of Hazara division reflect the endemicity of visceral Leishmaniasis in these areas. Presence of visceral Leishmaniasis in the immunocompromised human reservoir in these areas is a risk factor for the normal population. It also reflects the presence of insect vectors in the affected area. In such circumstances, the paediatric population

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![Figure-2: Extracellular LD body (arrow) 100X](http://www.jamc.ayubmed.edu.pk)