**Adult T cell leukemia: A typical case from India**

Dear Sir,

Adult T-cell leukemia/lymphoma (ATL) is a neoplastic disease of CD4-positive T lymphocytes. Human T-cell leukemia virus type I (HTLV-I) is critical for the development of ATL.\(^1\) HTLV-I is endemic in Japan.\(^2\) ATL has hardly been reported from India. ATL develops in only 2% to 4% of patients who are carriers of the HTLV-1 virus.\(^3\) We describe a case of a 22-year-old female who presented in July 2007 with two weeks history of swellings in neck, axilla, groin and extremities with generalized erythematous skin rash and bilateral decrease in hearing. She had pallor, edema feet, oral thrush, generalized lymphadenopathy with hepatosplenomegaly. The complete blood count showed hemoglobin of 8.59 gm/dl a WBC count of 306 × 10^9 /L with normal platelets. The peripheral smear showed atypical cleaved lymphocytes 50% (Flower Cells), polymorph 16% and lymphocytes 34%. She had mild azotemia with normal serum calcium but raised serum alkaline phosphatase 591.0 U/L and raised serum LDH 524 U/L. Peripheral blood immunophenotype show negative markers for myeloid, precursor cell, CD10, CD19, CD3, CD5, CD7, cyto CD3, TCR, NK cells and strongly positive for CD2, CD4 and CD25.\(^4\) Bone marrow aspirate and biopsy showed involvement by high grade T cell NHL. Serology for HTLV-1 was positive. Although she was normocalcemic the bone scan showed “super scan appearance”. She did not respond to intensive ALL type BFM-90 protocol. She developed extensive pulmonary fungal infection and was subsequently lost to follow-up due to source constraints and expired at home five months after presentation. This case emphasizes that ATL can be seen in a non endemic area like India and has an aggressive course.

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References