

CASE 049

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PATIENT HISTORY

A 22 year old male presented with hepatosplenomegaly, low grade fever and weight loss since 4 months. No lymphadenopathy. Bone marrow was done and sent for flowcytometry for evaluation.

MORPHOLOGY

Bone marrow smears made from EDTA sample was examined. Smears showed presence of around 44% abnormal cells which were large in size with blastoid morphology and basophilic cytoplasm. Vacuolation was noted in some of these cells.

FLOWCYTOMETRY

Immunophenotyping analysis done on CD45 vs side scatter gating showed a population comprising 49.2% events in bright CD45 region. This population revealed moderate sCD3, CD2, CD16, CD56, cyCD3, CD7 (intensity less than normal T cells), dim CD5, with negative CD4, CD8, CD1a, CD99 and Tdt. TCR Gamma/Delta was positive with negative TCR alpha/beta. Rest all markers were negative.

FINAL DIAGNOSIS

Morphology and immunophenotyping were suggestive of Hepatosplenic Gamma-Delta T cell lymphoma. Cytogenetics for i(7q) and trisomy 8 was advised. Patient was given one cycle of chemotherapy (CHOP) and he responded well with about 20-30 percent reduction in spleen size. Second cycle of chemotherapy is to be given at 21 days interval.