

CASE 037

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ACKNOWLEDGEMENT: Anil Kumar, Hem Chandra Sharma, Lovekush, Arpan Kumar, Saurabh Singh

We present a case of 2 yr old male child whose BM sample was sent for immunophenotyping. Peripheral blood showed bicytopenia (anaemia and thrombocytopenia). WBC count was mildly increased. Bone marrow aspiration from outside was suggestive of lymphoma/leukemia (morphologically ALL L1).

Sample Received: BM in EDTA and Heparin. TLC of marrow was $29.59 \times 10^9/l$.

MORPHOLOGY

The smears prepared from EDTA sample were cellular. These showed increased number of blasts. These were intermediate to large size with scant agranular cytoplasm, fine chromatin and inconspicuous nucleoli. Few blasts showed cytoplasmic blebs.

IMMUNOPHENOTYPING

IPT on bone marrow showed an abnormal population (Blasts) comprising 44.8% with negative CD45. These cells expressed moderate CD34, CD33, CD56, CD117 and CyCD61. Cytoplasmic MPO was negative. B and T cell markers were negative.

Based on morphology and immunophenotype, a diagnosis of Acute Megakaryoblastic leukemia AML – M7 was rendered.

