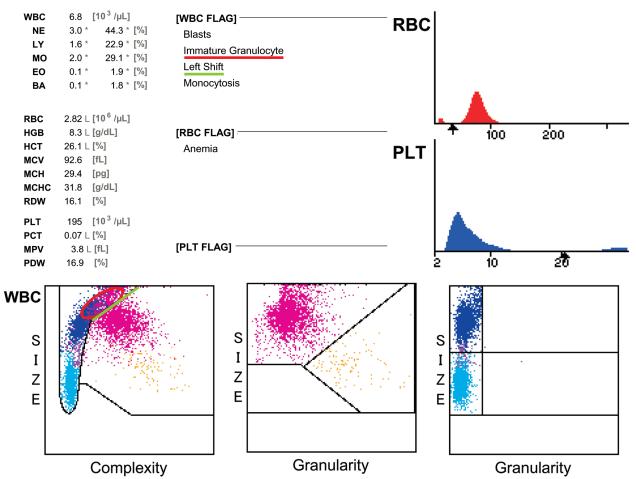
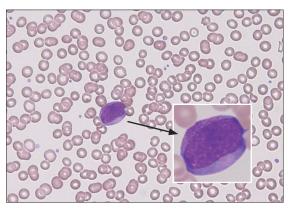
Information from Celltac



Data interpretation

Immature neutrohils and immature granulocytes confirmed with microscopic blood film examination seemed to appear around the Left Shift area (O) and reach the Immature Granulocyte area (O). This patient was confirmed as exhibiting left shift by the band cell percentage (13.5%).

Morphology



Doctor's comment

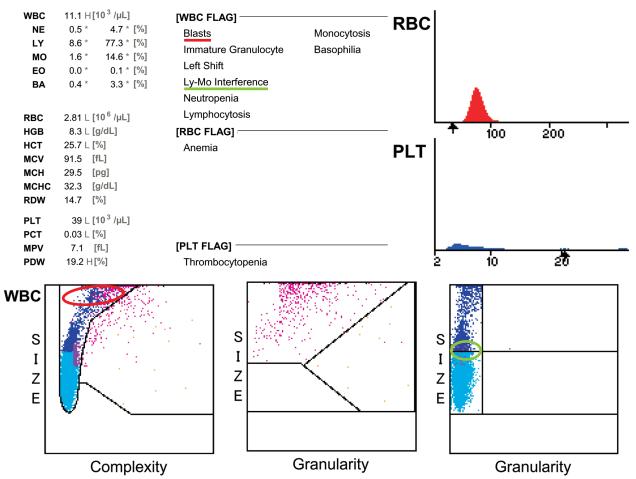
The leukocytes counted on the blood film fell within the normal range, but many neutrophils showed a left shift and there were occasional promyelocytes, myelocytes, and metamyelocytes. A small number of blasts were observed. Some mature neutrophils exhibited toxic granulation or Döhle bodies. A relatively high percentage of monocytes was seen and occasional NRBCs. In this case, it is not possible to differentiate between a hematological disorder and a leukemoid reaction. Further tests (bone marrow biopsy and cell markers) and clinical examination is indicated.

Manual differential

Blast	1.0%
Promyelocyte	1.0%
Myelocyte	2.5%
Metamyelocyte	3.0%
Band	13.5%
Seg	30.0%
Lymphocyte	24.0%
Atypical Ly	0.5%
Monocyte	23.0%
Eosinophil	1.0%
Basophil	0.5%
Other	
Total	200
NRBC/100WBC	2
RBC/ other findings	ANISO (+), POLY (+), TOXIC (+), DOHLE (+)



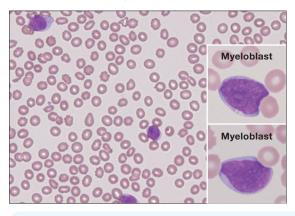
Information from Celltac



Data interpretation

A large population was confirmed in the higher FSS and lower SDS intensity area on the S-C (MAIN) scattergram including the Blasts flag detection area () and it triggered the flag. In this case, blast cells appear around the mononuclear cell area on the S-G (LY/MO/BA) scattergram (), and make the subpopulations in the area unclear leading to the Ly-Mo Interference. Manual counting confirmed that most of the leukocytes were in fact myeloblasts (Blast: 88.0%).

Morphology



Doctor's comment

A large number of blast cells were confirmed by microscopic film examination. These medium-sized blasts show a range of nuclear: cytoplasmic ratios, fine nuclear chromatin, and clear nucleoli. Some of them have basophilic cytoplasm and irregular nuclear membranes: some cells have a few granules. Mature neutrophils are reduced and a small number of immature granulocytes are observed. Acute myelocytic leukemia (AML) is suspected, and therefore bone marrow examination and further tests are required.

Manual differential

Blast	88.0%
Promyelocyte	1.0%
Myelocyte	
Metamyelocyte	
Band	
Seg	1.5%
Lymphocyte	8.5%
Atypical Ly	0.5%
Monocyte	0.5%
Eosinophil	
Basophil	
Other	
Total	200
NRBC/100WBC	1
RBC/ other findings	ANISO (+) POIKIL

