

CASE 046

AUTHORS: Atreye Majumdar¹, Rahul Katara¹, Mohit Bharadwaj¹, Vineeta Raina¹, Arun V Bharadwaj²

1. CORE Diagnostics, Gurgaon , India 2. Anagha Hospital

REVIEWER : Dr. Rahul Katara

ACKNOWLEDGEMENTS: Sanjay Kumar Sharma, Sneha Gadoo

PATIENT HISTORY

A 43 year old male, presented with massive hepatosplenomegaly and >20 % blast cell population. This case was referred to us for advanced leukemia assessment.

RESULTS

Flow cytometry

Whole blood specimen showed around 27% blast cell population along with a significant population of mature granulocytes. There was marked positivity for myeloid markers CD 13/33, maturation markers CD 36 and immature markers CD 38, subset of CD 34 and CD 71. After extensive ruling out of all other leukemia subtypes, this case was referred to molecular lab for differential diagnosis as either acute myeloid leukemia (MPO negative) or chronic myeloid leukemia in blast crisis.