CASE 079



AUTHORS: Dr. Tina Bhardwaj, Dr. Shivani Sharma, Dr. Rahul Katara, Dr. Mallika Dixit, Dr. Ankita Jaiswal, Dr. Sambit Kumar Mohanty.

ACKNOWLEDGEMENT: Deepak Kumar Sharma, Anil Kanthi, Vipin Kumar, Archana Singh, Sushil Kumar, Shohit Sharma.

HIGHLIGHT OF THE CASE:

A rare case of Acute Myeloid Leukemia with concomitant occurrence of NPM1 Mutation and BCR-ABL1 gene fusion - A comprehensive gene study.

CLINICAL HISTORY:

Incidental leukocytosis.

Here, we describe an unusual case of a 38-year-old male patient with incidental findings of leukocytosis on blood examination referred for a Comprehensive leukemia panel by Next generation sequencing and AML Multiplex panel by Real Time Polymerase Chain Reaction. There were no additional clinical findings in the patient. The genetic aberrations discovered while analyzing the case expands our knowledge and raises the need for a thorough gene study and the significance of regularly screening for different mutations during the initial diagnostic workup in Acute Myeloid Leukemia (AML). This approach helps the Molecular Scientists, Medical Oncologist and Clinicians in understanding the genetic work up, selecting the most appropriate therapeutic interventions and assist in risk stratification of the leukemia - all favoring a) better understanding for disease prognosis and b) better clinical outcomes.