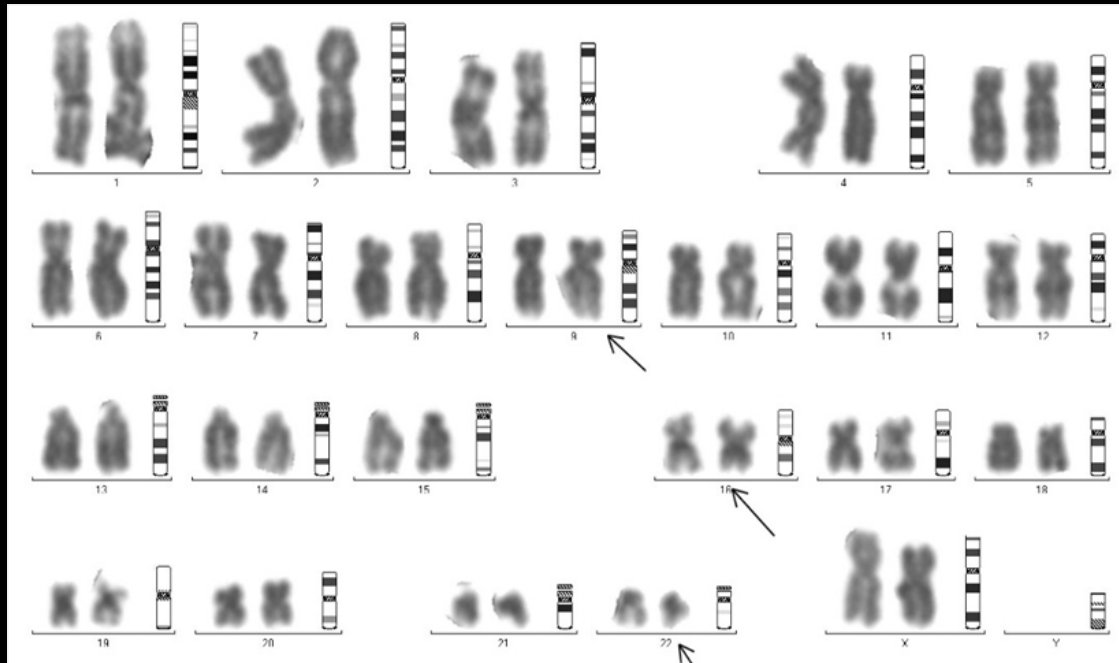


FINDINGS: On peripheral smear evaluation leucocytosis with shift to left and ~15% blasts were seen. A suspicion of CML in accelerated phase was made and hence bone marrow examination and flow cytometry were performed. Immunophenotyping analysis on CD45 vs. side scatter reveals ~28% blasts/promonocytes that exhibit a CD45 dim to moderate expression. These cells depict a moderate CD34, CD13, CD117, CD38, HLA-DR, CD64, CD4, CD56, CD33 with negative CD14. These cells were dim positive for Cytoplasmic MPO. Rest of the B-lymphoid, T-lymphoid markers were negative. Cytogenetic analysis reveal coexistence of t(9;22)(q24;q11.2) and inv(16)(p13.1q22) in all 20 cells analysed. Fluorescence in situ hybridization shows positive signals for t(9;22) which result in BCR-ABL1 fusion and positive signals for CBFβ gene rearrangement which result in CBFβ-MYH11 fusion in 100% cells.



Karyotype: 46,XX,t(9;22)(q34;q11.2),inv(16)(p13q22)