CASE 082

CŌRE DIAGNOSTICS™

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HIGHLIGHT OF THE CASE:

A case of chronic myeloid leukemia in accelerated phase..

MATERIALS AND METHODS:

Cytogenetic analysis was performed on bone marrow using standard techniques. GTG banding was used to identify the individual chromosomes. Cytogenetic nomenclature followed International System for Human Cytogenetic Nomenclature criteria (2020). Fluorescence in situ hybridization (FISH) analyses were performed to confirm the presence of the Ph chromosome and inv(16)(p13q22) using residual cell pellets from the conventional cytogenetic studies. The LSI BCR-ABL dual-color fusion translocation probes and the LSI CBFB dual color break-apart rearrangement probes were used in the FISH analysis. A minimum of 200 interphase cells were scored. All Images were analysed using Bio-view karyotyping software. Multicolor flow cytometry was done using CD45 vs side scatter gating. Instrument/Software: BD FACS Lyric/ FACSuite (Version 1.5). Cell Preparation Method: Stain-Lyse-Wash.

CLINICAL HISTORY:

A 37 year old female diagnosed as chronic myeloid leukemia in Chronic phase (CML–CP) on Dasatinib presented with Hb of 7.7g/dL, TLC-14,570 /cumm, Platelet count of 70,000/uL.