HematoGenix Laboratory Services

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ACCESSION NUMBER: **CG10-10298**

PATIENT: **Doe, John**

Physician:	John Nice, M.D.			***D.O.B.***	11/25/1932	***AGE:*** 77 yrs	***SEX:*** M
Facility:	Best Clinic			***Specimen Type:***	Bone Marrow		
	1212 Main St.			***Date Collected:***	04/06/2010		
	Good Town	IN	46321	***Date Received:***	04/07/2010		
Facility MR #	1234567			***Date Reported:***	04/12/2010		

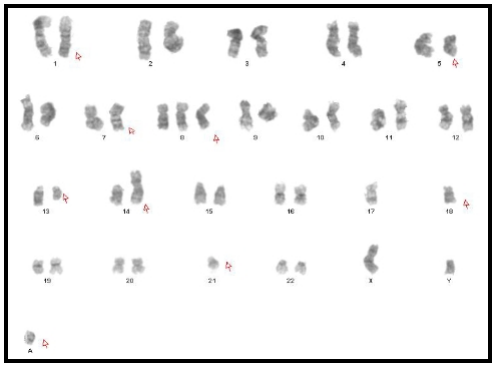
Clinical History:
Leukopenia (288.50), Thrombocytopenia (287.5), R/O MDS

CYTOGENETICS REPORT

RESULT:	**Bone Marrow Aspirate: Abnormal Male Karyotype with Multiple Complex Abnormalities.**
KARYOTYPE:	40~47,XY,add(1)(q11),del(5)(q22q35),del(7)(q36),+8,del(13)(q12q14), der(14)t(14;18)(p11.2;q11.2),-15,-18,-21,+mar1,+mar2[cp14]/46,XY[1]

Indication for study:
Leukopenia (288.50), Thrombocytopenia (287.5), R/O MDS

Interpretation:
Chromosome analysis of unstimulated 24 and 48 hour bone marrow cultures revealed a complex abnormal male karyotype with multiple structural and numerical chromosomal abnormalities. The observed clonal abnormalities include 5q ,7q and 13q deletions, trisomy 8 and Monosomy of chromosomes 15,18 and 21. Rearrangement of chromosomes 14 and 18 and the presence of two marker chromosomes were also observed. These results are consistent with a clinical diagnosis of a very high grade MDS or AML. The presence of three or more karyotypic abnormalities is associated with a very poor prognosis. Chromosome analysis is consistent with FISH results, see case F10-10298.



Complex Abnormal Karyogram

Number of cells counted	**15**
Number of cells analyzed	**15**
Number of cells karyotyped	**15**
Banding	**G-Banding**
Average band resolution	**450**

Electronic Signature