

## CYTOGENETIC ANALYSIS REPORT

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|--|--------------------------------------|
| <b>Patient Name:</b> SAMPLE, JOHN          | <b>Cytogenetics Number:</b> NXX-XXXX |
| <b>Date of Birth:</b> 01/01/1981           | <b>Cust. Specimen ID:</b> XX-XXXX    |
| <b>Sex:</b> Male                           | <b>Collection Date:</b> 11/08/2016   |
| <b>Sample Type:</b> BONE MARROW            | <b>Received Date:</b> 11/09/2016     |
| <b>Physician:</b> JANE DOCTOR, M.D.        | <b>Reported Date:</b> 11/10/2016     |
| <b>Clinical Data:</b> ANEMIA, RULE OUT MDS |                                      |

**ABNORMAL RESULTS: 47,XY,+8[10]/46,XY[10]**

**INTERPRETATION:** G-banded chromosome analysis shows an abnormal male karyotype with gain (trisomy) of chromosome 8 in ten of twenty metaphase cells examined. Ten metaphase cells show an apparently normal male karyotype. Trisomy 8 is a recurrent abnormality seen primarily in myeloid neoplasms including MDS, MPNs and AML. When seen as a sole anomaly, it is not considered definitive evidence for MDS in the absence of morphological criteria, based on WHO classification. Trisomy 8 has been reported to generally be associated with an intermediate prognosis in MDS according to the IPSS-R.

*Garcia-Manero, G. Myelodysplastic syndromes: 2015 Update on diagnosis, risk-stratification and management. American Journal of Hematology, Vol. 90, No. 9, September 2015*

*Schanz, J, et al., New comprehensive cytogenetic scoring system for primary myelodysplastic syndromes (MDS) and oligoblastic acute myeloid leukemia after MDS derived from an international database merge. J Clin Oncol. 2012 Mar 10;30(8):820-9*

*Greenberg, Tuechler, Schanz et al, Revised International Prognostic Scoring System (IPSS-R) for Myelodysplastic Syndrome, Blood 120: 2454, 2012.*

CPT codes: 88237x2, 88264, 88280x4, 88291

|                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>Metaphases Counted:</b> 20   | <b>Banding Technique:</b> G-BANDS |
| <b>Metaphases Analyzed:</b> 16  | <b>Banding Level:</b> 350-400     |
| <b>Metaphases Karyotyped:</b> 4 | <b>Cultures Established:</b> 2    |

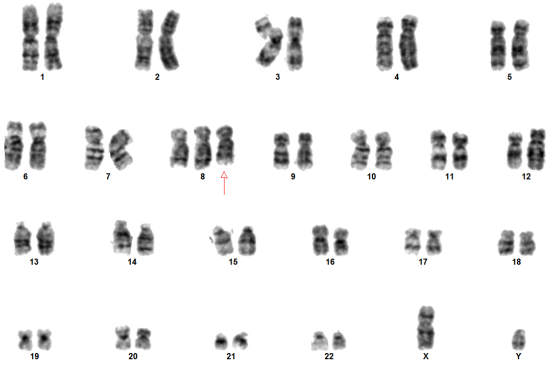
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47,XY,+8

We will exercise our best efforts to accurately analyze the chromosome karyotypes of this specimen. However, the level of resolution in this G-banded analysis does not exclude the presence of small structural abnormalities.

Reviewed By:

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INDIRA MEHTA, PH.D.

JANE DOCTOR, M.D.  
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