Christopher Wixom, M.D, Laboratory Director
Toll Free: 888.VANTAGE (888.826.8243)
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VANTAGEPOINT LABORATORY PARTNERS

4980 Carroll Canyon Road
San Diego, CA 92121
client.services@vpointlabs.com

Patient Name:	Sample Patient	**Ordering Physician:**	
D.O.B. & Gender:		**Ordering Facility:**	Hospital
Collection Date:		**Account Number:**	
Received Date:		**VantagePoint ID #:**	
Report Date:		**VantagePoint Case #:**	
Specimen Type:	Bone Marrow	**Medical Record #:**	

Cytogenetic Analysis Report

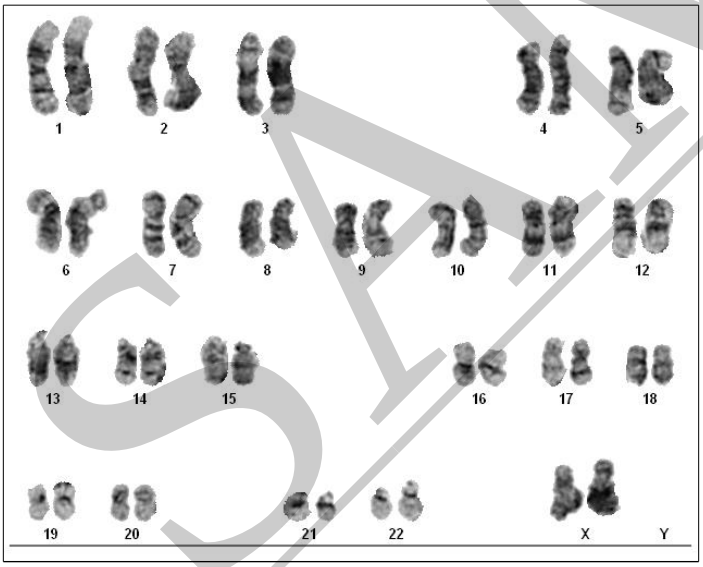
Clinical Indication: 57 year old with H/O Lymphoplasmacytic Lymphoma, Thrombocytopenia
Results (ISCN 2013): 46,XX[1]

Interpretation: Cytogenetic analysis showed an apparently normal female karyotype with no evidence of an acquired clonal abnormality. Due to poor mitotic index, only one cell was available for analysis. This is less than our usual standard of 20 cells and therefore represents an incomplete study, a disease-associated change cannot be ruled out.

Methodology: For the purpose of this test, metaphase cells from the patient's bone marrow was analyzed using traditional cytogenetic techniques (culturing, harvesting, G-T-G banding). Bone marrow growth medium was used for the short-term cultivation of bone marrow cells to provide an adequate physical and chemical environment for optimal cell growth. To maximize the identification of clonal abnormalities, stimulated and unstimulated bone marrow cultures were initiated. Cell synchronization with a mitotic inhibitor was utilized to accumulate a higher index of metaphase cells. Chromosomes were treated with hypotonic solution, fixed, stained, microscopically analyzed, and evaluated. Representative metaphase spreads were imaged and karyotyped using automated technology.

Metaphase Cells Counted:	**1**	**Banding Method:**	**GTG**
Metaphase Cells Analyzed:	**1**	**Band Resolution:**	**400**
Metaphase Cells Karyogramed:	**1**	**Adequacy of Specimen:**	**POOR**

Note: subtle chromosome rearrangements may not be detected by conventional cytogenetic analysis below the 450 band level.



CYG14-001204-K1

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Cytogenetic Analysis Report

Recommendation(s): Consider sending a repeat bone marrow specimen for chromosome analysis if clinically indicated.

Electronically Signed by:

Philip Cotter, Ph.D., FACMG, FFSc(RCPA)
Medical Geneticist

END OF REPORT