

Hematologies, Inc.

3161 Elliott Ave Suite 200
Seattle, WA 98121
(206) 223-2700 or (800) 860-0934
Fax (206) 223-5550
www.hematologies.com

HLID#: PATIENT NAME:
PATIENT ID#: DOB : SEX: F
NPI: ORDERING PHYSICIAN:
SPECIMEN TYPE: Peripheral Blood
COLLECTION DATE: RECEIPT DATE:
REPORT DATE: ICD-9: 288.8 UNITS: 1 Cytogenetics
CLINIC ID#: ACCOUNT:

Specimen Type: Peripheral Blood

Clinical History/Indications: A 90 year old female with lymphocytosis and anemia. Flow cytometry revealed two abnormal T cell populations involving the peripheral blood. In addition, a monoclonal population of B lymphoid cells was observed. Molecular testing for T-cell (gamma) and B cell gene rearrangements were positive.

Assay: CYTOGENETIC ANALYSIS

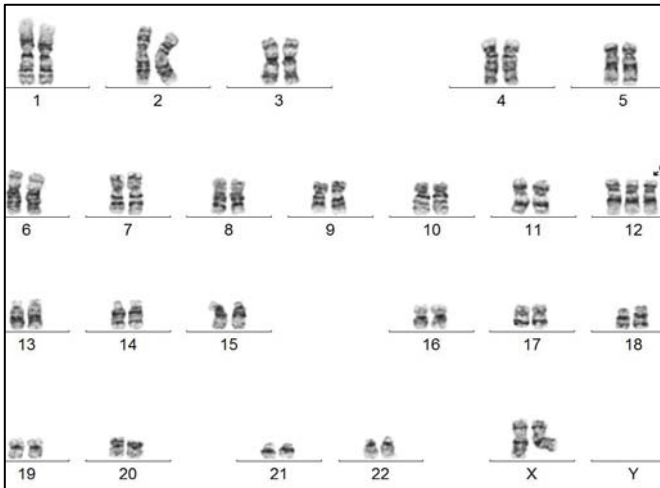
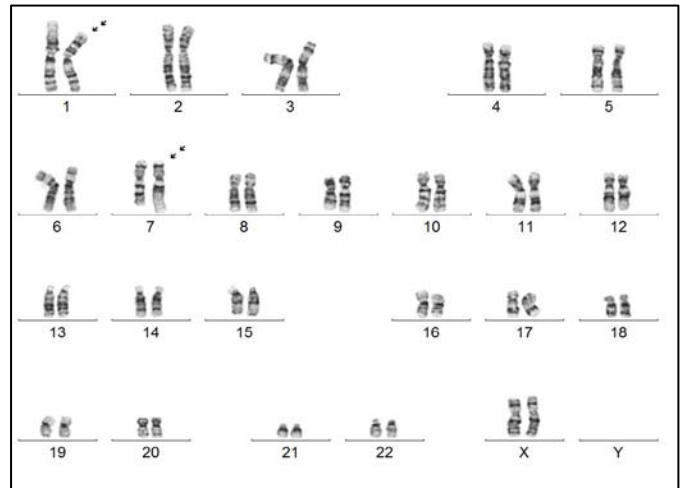
Result: 47,XX,+12[2]/46,XX,+12,-22[1]/46,XX,t(1;7)(p22;q21.2)[2]/46,XX[15]

Abnormal female karyotype**Interpretation:**

- Two separate distinct clones are present.
- Trisomy 12 is most consistent with a B-cell lymphoid population such as a chronic lymphoproliferative disorder or lymphoma.
- The t(1;7) was present in the T-cell culture only; abnormalities of chromosome 7 are not uncommon in T-cell disorders. This finding could be associated with one of the T-cell abnormal populations and would be consistent a T-cell lymphoproliferative disorder or T-cell lymphoma.
- Clinical histopathologic correlation is requested.

Summary of cytogenetic results:

Three of the 20 cells examined had an extra copy of chromosome 12 (trisomy 12) with one of these 3 cells also having a loss of chromosome 22 (most likely random loss). Two other cells formed a separate clone with a translocation between chromosomes 1 and 7. Fifteen normal cells were observed.

Karyotype 1: Trisomy 12**Karyotype 2: t(1;7)(p22;q21.2)****Cytogenetic Analysis Summary:**

Number of Cultures used for Analysis: 3
Number of Cells Imaged and Analyzed: 20

Banding Level: 400
Number of Karyograms: 6

Extra Cells Analyzed /Scored: 0
Banding Method: GTW/G