

SAMPLE FLOW CYTOMETRY REPORT

DIAGNOSIS:

ABC Pathology #B05-XXXX

Peripheral blood: Chronic lymphocytic leukemia/small lymphocytic lymphoma, positive for ZAP-70 and CD38 by flow cytometry (see comment).

COMMENT

The CLL/SLL population (colored blue in histograms below) expresses low-level kappa-restricted light chains and uniform CD19, CD20, CD5, and CD23, with low-level FMC7 on a subset (CLL/SLL colored blue in image below, with T cells colored green). Greater than 20% of the CLL/SLL population expresses ZAP-70 (39%), and greater than 30% of the CLL/SLL population expresses CD38 (59%), features associated with an unfavorable prognosis (see references). Evaluation for prognostically-relevant chromosomal abnormalities would be another way to assess prognosis. The abnormal B cells represent ~48% of the total leukocytes.

REFERENCES

1. Crespo M et al. ZAP-70 expression as a surrogate for immunoglobulin-variable-region mutation in chronic lymphocytic leukemia. N Engl J Med. 2003 May 1;348(18):1764-75.
2. Damle RN et al. IgV gene mutation status and CD38 expression as novel prognostic indicators in chronic lymphocytic leukemia. Blood. 1999 Sep 15;94(6):1840-7.

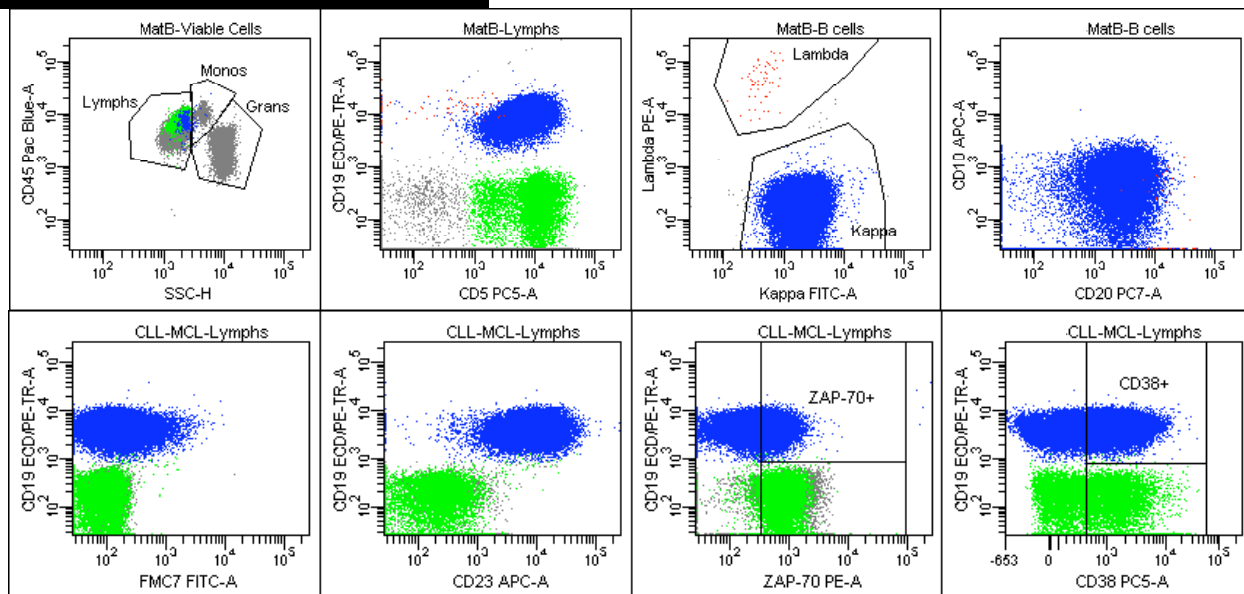
SPECIMEN INFORMATION:

A1 = B05-XXXX, 7 peripheral blood tubes

RECEIVED FOR THE FOLLOWING:

Flow cytometry to assess prognostic markers, CD38 and ZAP-70.

RESULTS:



Immunophenotyping by flow cytometry after lysis of the erythroid cells reveals that the white blood cells consist of 65.4% lymphocytes, 2.7% monocytes, and 31.8% granulocytes.

ANTIBODIES USED: CD5, CD10, CD19, CD20, CD23, CD38, CD45, CD56, FMC7, kappa, lambda, and ZAP-70

ELECTRONICALLY SIGNED Steven J. Kussick, M.D., Ph.D., Hematopathologist

In compliance with CMS regulations, the pathologist's signature on this report indicates that the case has been personally reviewed, and the diagnosis made or confirmed by the Pathologist.