

SAMPLE FLOW CYTOMETRY REPORT

DIAGNOSIS:

ABC Pathology #B05-XXXX

Peripheral blood: Chronic lymphocytic leukemia/small lymphocytic lymphoma, positive for ZAP-70 and CD38 (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.

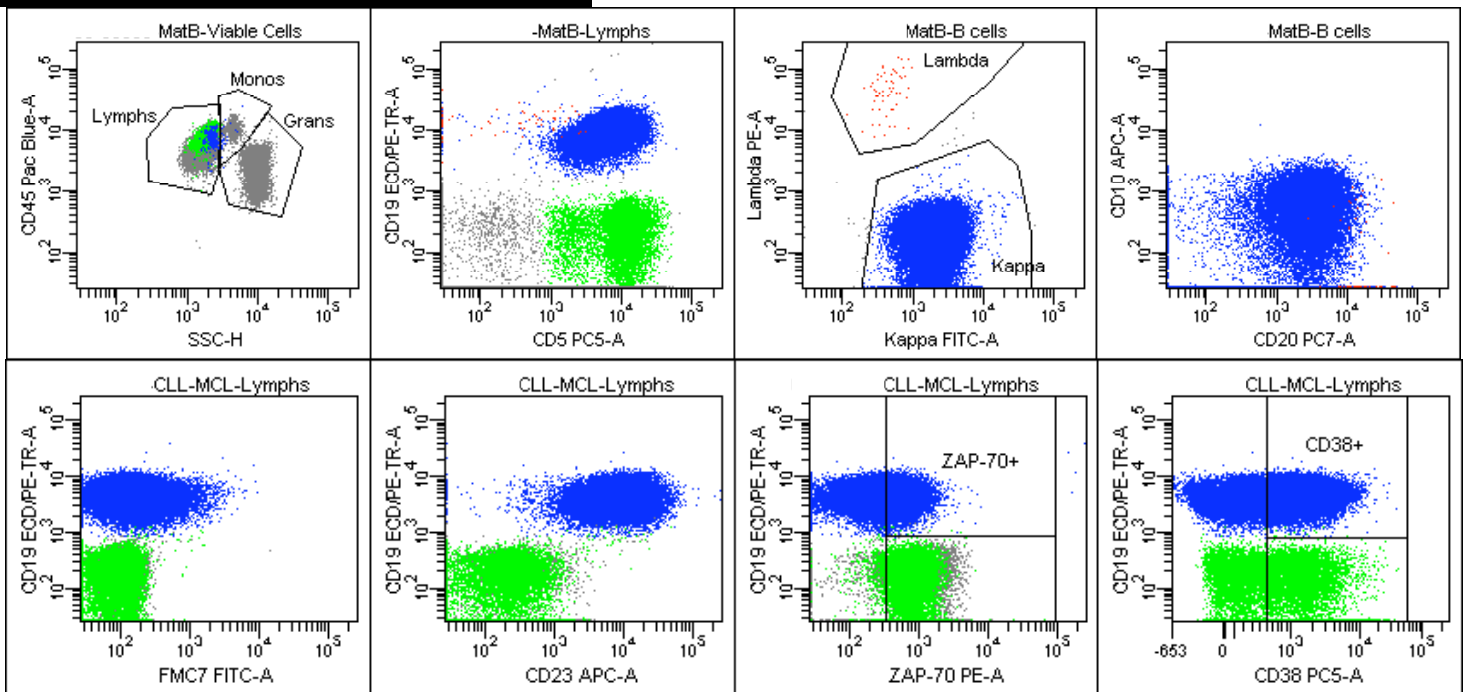
SPECIMEN INFORMATION:

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.