

Patient ID SA00002947	Patient Name ENHANCEDREP, VLD20150821A0016	Birth Date 1981-01-01	Gender M	Age 34
Order Number SA00002947	Client Order Number SA00002947	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 20 Aug 2015 12:10		

MDS by Flow Cytometry, BM

Final Diagnosis

1 MCR

Bone marrow, flow cytometric immunophenotyping:

Cellular bone marrow specimen with increased myeloid lineage blasts, 6%. In addition, an atypical pattern of myeloid maturation is identified. In combination, these findings are highly suspicious for marrow involvement by a malignant clonal myeloid neoplasm. The differential diagnosis includes acute myeloid leukemia, a myelodysplastic syndrome, a myeloproliferative neoplasm, a treated or recurrent acute leukemia, or sampling bias.

Comment:

Blast cell percentages estimated by flow cytometry are affected by specimen processing and gating and, therefore, may differ significantly from those estimated by morphologic review.

Correlation of the flow cytometry results with the bone marrow aspirate and biopsy findings, clinical history and other laboratory features is required for a definitive diagnosis. If desired, we can provide diagnostic services as part of a hematopathology consultation. Please contact the signing pathologist at 1-800-533-1710 if you have further questions regarding these analyses.

Reviewed by: RYAN RITZER 8/24/2015 11:24 AM

Special Studies

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%Lymphs: 10%

Results:

Blasts: Increased by CD45/side scatter and CD34.

Myeloid maturation:

CD13/CD16 pattern on maturing granulocytes: Abnormal HLA-DR/CD13 pattern on blasts: Abnormal CD2/CD7/CD56 expression on blasts: Abnormal expression of CD2, CD7, and CD56.

Additional markers tested: CD15, CD33, CD36, CD38, CD64, CD117.

B-cells: No monotypic; normal expression pattern of CD19, CD10, surface kappa and lambda.

T-cells/NK-cells: No aberrant phenotype by CD3 and CD16.

Quality assessment: Specimen received within validated guidelines.

Microscopic Description

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A submitted Wright-Giemsa slide and a Wright-Giemsa-stained slide prepared from the flow cytometry specimen are examined.

MDS Panel

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Performed

Received: 21 Aug 2015 13:41

Reported: 24 Aug 2015 11:24

Laboratory Notes

- 1** Analyte Specific Reagent: This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292