

Laboratory Service Report

1-800-533-1710

Patient Name TEST,IMPLEMENTATION TESTING	Patient ID 321	Age 57	Gender F	Order # R1057670
Ordering Phys Test,Path		•		DOB 05/23/1956
Client Order # R1057670	Account Information			Report Notes
Collected 06/27/2013 06:00	C7028846-DLMP Roches 3050 Superior Drive	ter		
Printed 07/16/2013 13:14	Rochester, MN 55901			

Test	Flag	Results	Unit	Reference Value	Perform Site*
Bone Marrow Bx RECEIVED: 06/27/2013 13:21 REPORTE Bone Marrow fix sect	D: 06/29/201	.3 06:18 Performed			MCR
HemePath Consultation, Wet Tissue					
RECEIVED: 06/27/2013 13:21 REPORTE Accession Number	D: 06/29/201	.3 06:18 BR13-48			MCD
Referring Pathologist/Physician	n	BR13-48			MCR MCR
Doctor Test Jr., M.D.					
Ref Path/Phys Address Methodist Hospital 200 1st Street SW Rochester, MN 55905 507-266-0740					MCR
Final Diagnosis:					MCR
Peripheral blood, bone marr (HB13-21; collected 6/7/201 1) Moderately hypercellular increased megakaryopoiesis slightly to moderately incr 2) No morphologic features myeloproliferative neoplasm see comment. Diagnosis Comment: According to the included C erythrocytosis, leukocytosi findings, in the setting of possibility of a myeloproli well-formed megakaryocyte eosinophil maturation, or s genetic findings precludes Further studies to consider myeloid neoplasm include JA mutations other than the V6 studies, serum tryptase studisease, c-Kit mutational a sensitive genetic abnormali also be helpful as a low va erythropoiesis and red cell myeloid neoplasm, whereas a erythrocytosis is secondary Possible secondary causes t bone marrow findings includ	marrow with with slight eased erythr diagnostic or lymphopr BC results, s, and throm a hypercell ferative neclusters, cytupportive cyan unequivod to further K2 sequencir 17F mutation dies to eval malysis and ties. Serum lue would su mass is att high value in nature. o consider for seven with the sequencir	n eosinophilia, cytologic atypologicsis. of marrow involutional formation of the patient has abocytosis. All unlar bone marroplasm. The absologically above all diagnosis. exclude the pologically assays to as all diagnosis. The pological for potential for the periphe	moderately ia, and vement by a sorder. Please s a microcytic these ow, raise the ence of ormal colecular ssibility of a sess for quencing tial mast cell for imatinib studies may increased in primary that the ral blood and		

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^{*} Report times for Mayo performed tests are CST/CDT



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erythrocytosis and secondary thrombocytosis. Possible causes for the eosinophilia include T-cell lymphoproliferative disorders, systemic inflammatory conditions, and parasitic infection.

Given the unusual constellation of findings in this case, correlation with other clinical and laboratory features is strongly recommended to further determine if the observed changes are attributable to a primary myeloid neoplasm or are secondary to other causes. If, after extensive evaluation, no potential cause for the observed abnormalities can be identified, continued monitoring of peripheral blood counts with repeat bone marrow examination as clinically indicated may be helpful in determining if a diagnosis of a primary myeloid neoplasm can be made by exclusion of all other possible contributing factors.

If there are any questions about the analysis or the diagnosis in this case, please call Dr. William G. Morice, Division of Hematopathology, Mayo Medical Laboratories at 1-800-533-1710.

Microscopic Description:

Peripheral Blood

By report--CBC (dated 6/7/2013): Hgb 15.8 g/dL; RBC 6.15 x 10(12)/L; MCV 77.9 fL; RDW 18.8%; WBC 30 x 10(9)/L; PLT 900 x 10(9)/L.

No peripheral blood smear included for review.

Bone Marrow Aspirate/Touch Imprint

Quality: Hypercellular; M:E ratio approximately 4:1.

Erythroid precursors: Quantity increased; maturation

megaloblastoid. No dyserythropoietic forms seen.

Granulocytic/monocytic precursors: Quantity increased; maturation normal to slightly left shifted. No dysplastic mature or maturing forms. Blasts not increased (<5%). Increased numbers of mature eosinophils and cytologically unremarkable eosinophil precursors are noted.

Megakaryocytes: Quantity increased; cytology slightly abnormal with intermediate-sized forms having slightly hypolobate-appearing nuclei. No small mononucleated or multinucleated forms or large osteoclast-like forms seen.

Lymphocytes: No increase; no cytologic atypia.

Plasma cells: Present, <5% of cellularity. Rare binucleated forms noted.

Other: No increase in mast cells or cytologically abnormal mast cells noted.

Bone Marrow Biopsy/Clot

Quality: The biopsy is marginally adequate, being subcortical with crush and aspiration artifact. The clot section specimens are adequate.

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MCR



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Cellularity: Moderately hypercellular; 80%.

Erythroid precursors: Quantity slightly to moderately increased; morphology unremarkable.

Granulocytic/monocytic precursors: Quantity moderately increased with a prominent increase in eosinophils. No foci of blasts or monocytic nodules.

Megakaryocytes: Quantity moderately increased; morphology slightly abnormal with occasional intermediate-sized forms having hypolobate-appearing nuclei. Distributed singly and in focal loose aggregates; no well-formed clusters. No large megakaryocytes with staghorn-like nuclei are seen.

Lymphocytes: Scattered small interstitial lymphoid cells are present; however, no discrete lymphoid aggregates or infiltrates are seen.

Plasma cells: Present, <5% of cellularity. Unremarkable morphology. Other: No perivascular or paratrabecular mast cell infiltrates or eosinophilic microabscesses are seen.

Special Studies:

Iron stain, bone marrow aspirate and clot sections, slides submitted: Storage present, appears slightly decreased. No sideroblasts or ring sideroblasts seen.

Reticulin stain, bone marrow biopsy, slide submitted: No increase in reticulin fibers.

The results of additional studies were described in the included report. Mention are a normal male karyotype, negative "JAK2" studies and lack of BCR/ABL translocation.

Signing Pathologist: See Below

Result:6/29/2013 06:18 Interpreted by: Pathologist X. Test, M.D.

Report electronically signed by Debbie A. Postier

Transcribed by: smr02 6/28/2013 08:28:37

Specimen:

A:HemePath Consultation, Wet Tissue

Material:

16 slides (BM12-36) collected 7/12/13

1 block (BM12-36)

SLIDE DISPOSITION:

16 slides/1 block/10 slides made from block returned 7/5/13 - smf

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:	

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