

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 12/26/1974
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Consultation Report

ARUP test code 8070150

Submitting Physician

██████████ / ██████████

Please return materials and a copy of the report to:

████████████████████
████████████████████
████████████████████

Phone: ██████████
Fax: ██████████

Clinical History

The patient is a 44-year-old male who is being transferred to ██████████
████████████████████ for continuity of care. This evaluation is requested
for confirmation of the initial diagnosis.

Diagnosis

PERIPHERAL BLOOD SMEAR:
- NORMOCYTIC NORMOCHROMIC ERYTHROCYTES AND OCCASIONAL NUCLEATED
ERYTHROCYTES.
- MARKED LEUKOCYTOSIS WITH GRANULOCYTIC LEFT SHIFT, ABSOLUTE BASOPHILIA,
AND RARE CIRCULATING BLASTS (1% BY MORPHOLOGY).
- RARE CIRCULATING MEGAKARYOCYTES.

BONE MARROW ASPIRATE, PARTICLE CLOT SECTION, AND CORE BIOPSY:
- CHRONIC MYELOID LEUKEMIA, BCR/ABL1-POSITIVE, CHRONIC PHASE.
- HYPERCELLULAR MARROW (100%) WITH TRILINEAGE HEMATOPOIESIS, MYELOID
HYPERPLASIA, AND MODERATE DYSMEGAKARYOPOIESIS.
- NO INCREASE IN RETICULIN FIBROSIS (MF-0/3).
- SEE COMMENT.

03/12/19 ██████████
I certify that I personally conducted the
diagnostic evaluation on the above specimens
and have rendered the above diagnosis(es):

██████████ M.D., Ph.D.
electronic signature

University of Utah Health Care, Department of Pathology
500 Chipeta Way
Salt Lake City UT 84108

For questions regarding this case,
call 1-800-242-2787 ext. 5240

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

Comments

We agree with the diagnostic impression of the original pathologist. The morphologic and molecular/cytogenetic findings are those of CML, chronic phase. Please correlate clinically.

Flow cytometric analysis of the bone marrow aspirate specimen from collection date 04/22/2016 was performed at [REDACTED] and showed no evidence for increased blasts or acute leukemia.

BCR RFLX performed on the bone marrow specimen at ARUP Laboratories (16-113-117010) showed the following:
BCR-ABL1 fusion transcripts (p210 forms) were detected by RT-qPCR. There is no evidence of minor (p190) BCR-ABL1 fusion transcripts by RT-PCR analysis. BCR Maj Ratio: 1.04696, BCR Maj IS: 101.5900
Chromosome analysis performed on the bone marrow specimen at ARUP Laboratories (16-113-117011) showed the following:
Chromosome results: 46,XY,t(9;22)(q34;q11.2)[20]

CHR FISH analysis performed on the bone marrow specimen at ARUP Laboratories [REDACTED] showed the following:
ABNORMAL FISH RESULT
t(9;22)(q34;q11.2) (ABL1;BCR): translocation present

Fellow

[REDACTED], MD

Gross Description

Received on 03/06/2019 from [REDACTED] via [REDACTED]
[REDACTED] are 14 slides labeled [REDACTED] from procedure date 04/22/2016.

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Peripheral Blood Smear

CBC Data ([REDACTED], [REDACTED], 04/22/2016):
WBC: 190.7 k/uL RBC: 3.98 M/uL
HGB: 13.4 g/dL HCT: 38.5 %
MCV: 96.7 fL MCH: 33.7 pg
MCHC: 34.8 g/dL RDW: 17.7 %
PLT: 353 k/uL

Differential
Segmented Neutrophils 66%
Metamyelocytes 18%
Myelocytes 4%
Promyelocytes 1%
Blasts 1%
Lymphocytes 6%
Monocytes 1%
Eosinophils 1%
Basophils 2%

Erythrocyte Number: normal
Erythrocyte Morphology: normocytic, normochromic, minimal anisopoikilocytosis, minimal polychromasia, 4 nucleated RBCs per 100 leukocytes counted
Leukocyte Number: markedly increased, absolute increase of all leukocyte subsets
Leukocyte Morphology: granulocytic left shift with circulating blasts in proportion, no Auer rods or overt dysplasia
Platelet Number: normal
Platelet Morphology: normal
Other findings: rare megakaryocytes seen

Bone Marrow Aspirate

ASPIRATION DIFFERENTIAL COUNT:
Myeloblasts: 1%
Promyelocytes: 4%
Myelocytes: 17%
Metamyelocytes: 15%
Band Neutrophils: 20%
Segmented Neutrophils: 25%
Eosinophils: 7%
Basophils: 1%
Erythroids: 8%
Monocytes: <1%
Lymphocytes: <1%

M:E Ratio: 11.3

The differential performed by the referring institution is reviewed with agreement.

Specimen Quality: adequate
Erythroid Maturation: normal
Myeloid Maturation: left shift
Megakaryocyte Morphology: several small, hypolobate forms ("dwarf" megakaryocytes)

Iron stains are performed on the marrow aspirate and touch prep by the referring institution with appropriately reactive controls:
Storage Iron: adequate
Sideroblastic Iron: decreased
Ring Sideroblasts: absent

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Bone Marrow Clot

Marrow particles: adequate
Morphology: similar to core biopsy

Bone Marrow Core

Specimen Quality: adequate
Post-processing length: 21 mm
Evaluable Marrow space: 20 mm
Bone Trabeculae: normal
Cellularity: 100%
Trilineage Hematopoiesis: present
Erythroid Maturation and Localization: normal
Myeloid Maturation and Localization: normal, relatively increased
Megakaryocyte Number: moderately increased
Megakaryocyte Histotopography: spectrum of morphology including scattered small, hypolobate forms

Special stains performed by the referring institution with appropriately reactive controls:
Reticulin Stain: no increase in reticulin fibrosis (MF-0/3)

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Submitting Physician	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Clinical History	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Diagnosis	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Comments	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Fellow	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Gross Description	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Peripheral Blood Smear	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Bone Marrow Aspirate	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Bone Marrow Clot	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM
Bone Marrow Core	HP-190-000278	3/5/2019 12:00 00 AM	N/A	3/12/2019 10:32:00 AM

END OF CHART

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