







Patient: John A. Doe

DOB/Gender: 10/10/44 (74 yrs) - Male

Patient ID/MRN: 123456

Date Collected: 01/03/2024



Case# XX-00000
Status: Preliminary



Provider: Jane Smith, M.D.

Hospital Oncology Center Tel: 800-123-4567 Fax: 800-765-4321

PENDING STUDIES: Comprehensive assessment

Your patient's next appointment is on 01/08/2024.



Bone marrow, aspirate:

Expanded population of CD34+, CD38+, HLA-DR+, CD117+, and CD13+ myeloid blasts, 31% of the total sample, consistent with a high grade myeloid neoplasm, acute myeloid leukemia (AML)



No aberrant myeloid antigen expression suggestive of dysmyelopoiesis is identified. The granulocytes exhibit a normal pattern of expression of CD11b, CD13, and CD16. There is a total of 31% CD34+ cells identified which are positive for CD38, HLA-DR, CD117, and CD13. The lymphocytes (37%) include 9% lambda predominant B-cells, 88% mature T-cells with a normal CD4/CD8 ratio, and 1% natural killer (NK) cells. The CD138+ plasma cells (<1%) have a kappa/lambda polyclonal phenotype.

Result

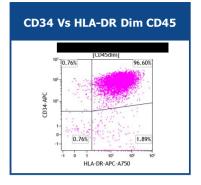
Analysis Time: 11/13/2024 15:57 Viability: 98% (Normal > 80%) Specimen: BM, green-top tube





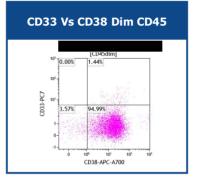
Flow Differential [Cells] 1000 Gr 19.08% AMO: 2.72% 400 200 CD45dim: 31.85% Ly: 37.11% CD45-KrO

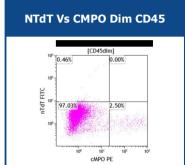
CD34 Vs CD117 Dim CD45



Flow Cytometry Differential

Lymphocytes	37%
Granulocytes	19%
Monocytes	3%
Plasma Cells	<1%
CD45 Dim	32%
CD45 Negative	8%







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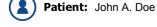
Case #: XX-00000



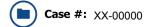


dim CD45		Lymphocyte		Granulocyte		Plasma Cell	
Antibody	%	Antibody	%	Antibody	%	Antibody	%
cCD3	<1	CD2	89	CD4	12	CD19	83
CD2	1	CD3	88	CD10	66	CD20	69
CD3	<1	CD4	42	CD11b	90	CD38	100
CD4	1	CD5	87	CD13	85	CD56	87
CD5	1	CD7	74	CD14	11	CD138	99
CD7	1	CD8	41	CD15	90	cIgG	39
CD8	<1	CD10	<1	CD16	71	сКарра	68
CD10	1	CD11c	1	CD19	5	cLambda	32
CD11b	4	CD19	9	CD33	3		
CD13	95	CD20	9	CD34	2		
CD14	<1	CD23	3	CD38	6		
CD15	<1	CD25	<1	CD45	100		
CD16	1	CD34	<1	CD56	14		
CD19	1	CD38	9	CD64	22		
CD20	<1	CD43	4	CD117	6		
CD22	<1	CD45	100	CD123	2		
CD33	3	CD103	<1	HLA-DR	7		
CD34	96	CD200	6				
CD38	96	CD3-CD56+	1				
CD45	100	сКарра	24				
CD56	<1	cLambda	76				
CD61	1	FMC7	7				
CD64	2	Карра	22				
CD117	87	Lambda	77				
CD123	4	TCR gamma/delta	6				
сМРО	2	ZAP70	<1				
HLA-DR	95						

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nTdT



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Bone marrow, aspirate:

High grade myeloid neoplasm with increased blasts (~30%) consistent with acute myeloid leukemia (AML).



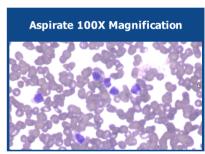
The aspirate findings are consistent a high grade myeloid neoplasm with increased blasts, and together with the corresponding flow cytometry data, support emerging acute myeloid leukemia (AML). Prognostic FISH, molecular and NGS testing is in progress per protocol

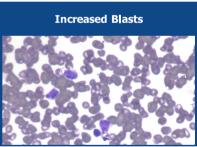


Aspirate smears are predominantly hypocellular and show apparent dysplastic granulocytic and erythroid alterations with increased blasts (~30%). Myeloid maturation is left shifted. Megakaryocytes are decreased in number with occasional small hyposegmented dysplastic forms. Moderate dyserythropoiesis is evident.

Number of cells counted: 200

Cell Type	Percent	Ref. Range
Blasts	30 % †	0.3 - 3.0 %
Immature Myeloid	11 % ↓	12.0 - 21.0 %
Mature Myeloid	15 % ↓	35.0 - 55.0 %
Eosinophils	2.0%	1.0 - 3.0 %
Basophils	0.0%	0.0 - 1.0 %
Lymphocytes	23 % 🕇	10.0 - 15.0 %
Plasma Cells	0.0%	0.0 - 1.0 %
Monocytes	4 % †	0.0 - 1.0 %
Pronormoblasts	2.0%	0.0 - 2.0 %
Erythroid	13 % ↓	15.0 - 20 %





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ICD-10: D64.9, D72.818, D75.9, Z13.79. Anemia, unspecified. Other decreased white blood cell count. Encounter for other screening for genetic and chromosomal anomalies. New diagnosis.

Received CBC, reported on 12/29/2023: WBC 2.46; RBC 2.91; HGB 8.8; HCT 27.0%; MCV 92.8; MCH 30.2; MCHC 32.6; RDW 19.0%; PLT 80; MPV NP; LYM 62%; GRAN NP; MID NP; MON 2%; NEU 32%; EOS 0%; BAS 4%; (NP = not provided)

Disclaimer: The adequacy of staining is verified by the appropriate positive and negative controls. The reagents used for these assays (flow cytometry, cytogenetics, molecular, IHC & histology) are analyte specific reagents (ASR) or research use only (RUO). Their performance characteristics have been validated by Precipio, Inc., in its locations (New Haven, CT & Omaha, NE). They have not been reviewed by the FDA. The FDA has deemed that such approval is unwarranted. These assays are for clinical use and should not be viewed as experimental or "research use only". This laboratory is CLIA & CAP certified to perform high complexity clinical testing. Images that may be included within this report are representative of the patient but not all testing in its entirety and should not be used to render a result. For BM biopsy, IHC provides additional information for diagnosis that is not provided by Flow Cytometry and the samples for each procedure are derived from different specimens (biopsy and aspirate, respectively).



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Received: 01/04/2024 11:09



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Reported: 01/04/2024 16:04



Received Information: 1 lavender-top tube(s), 10 BM smear(s), 2 slide(s), 2 formalin container(s), 1 green-top tube(s)