

Patient: Jane A. Doe



Case No: P16-00352

DOB/Gender: xx/xx/xxxx (66 yrs.) - Female

SSN: xxx-xx-xxxx

MRN/ID: 123456

Provider: John Doe, MD

Account: Hematology Oncology Assoc

Phone: 800-123-4567 **Fax:** 800-123-4444

Copy: Joe Smith, MD

Collected: 03/08/16

Received: 03/09/16

Reported: 03/09/16

Alert Status: Routine

Report Status: Partial

Report Category: Neoplastic

Clinical information: Monoclonal paraproteinemia
Received CBC, reported on 3/6/2016: WBC 12.4; RBC 4.86; HGB 14.7; HCT 45.1; MCV 92.9; MCH 30.2; MCHC 32.6; RDW 14.1; PLT 191; MPV 8.2; LYM 54.7%; MON 'NP'; NEU 'NP'; EOS 'NP'; BAS 'NP' (NP = not provided)

Specimens received: 2 Formalin containers, 10 smears, 2 green-top tubes, 1 lavender-top tube

Pending studies: Morphology
FISH (MM)
Karyotyping
Molecular (MyD88)
Summary final report - expected on 3/23/16. Your patient's next appointment is on 3/26/16.



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DIAGNOSIS:

Bone marrow, aspirate: Suspicious for a non-Hodgkin B-cell lymphoproliferative disorder (see comment)

COMMENT:

The differential diagnosis includes lymphoplasmacytic lymphoma and a marginal zone lymphoma. Most cases of chronic lymphocytic lymphoma, mantle cell lymphoma and follicular lymphoma will express either CD5 or CD10. Correlation with the concurrent bone marrow core and aspirate morphology and cytogenetic findings will follow.

Electronically Signed By: S. David Hudnall, MD, FCAP

INTERPRETATION:

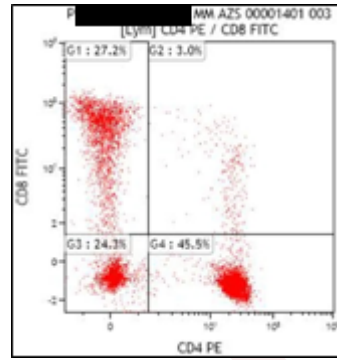
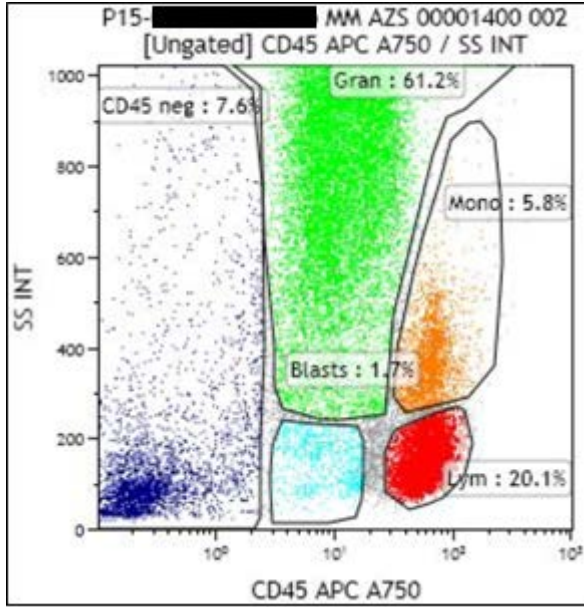
The lymphocytes (20%) include 17% B-cells with an excess of immunoglobulin kappa to lambda light chains (5:1), but are negative for CD5 and CD10. Seventy-four percent (74%) of the lymphocytes are mature T-cells with a normal CD4/CD8 ratio, and 10% natural killer (NK) cells. Less than 1% of the cellularity are plasma cells. Although excess cytoplasmic kappa light chain is detected, no cohesive population of cells is observed.

RESULT:

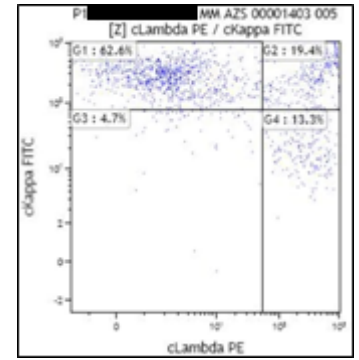
Analysis Time: 03/09/16 15:36

Viability: 98% (Normal > 80%)

Specimen: BM, Lavender-top tube



Normal CD4/CD8 Ratio



Kappa/Lambda B-Lymphocytes

Flow Cytometry Differential

Lymphocytes:	20%
Monocytes:	6%
Granulocytes:	61%
Plasma Cells:	<1%
Blasts:	2%
nRBC & Debris:	8%

Lymphocytes Gated Population (CD45 and side scatter)

T/NK-cell	%	B-Cell	%	Other	%
CD8	25	Kappa	13	CD45	100
CD4	48	Lambda	6		
CD56	10	CD20	17		
CD3	74	CD38	13		
CD2	82	CD10	2		
CD5	68	CD19	17		
CD7	81				

Plasma Cells Gated Population (CD45 and side scatter)

T/NK-cell	%	Plasma Cells	%
CD56 (Plasma Cells)	17	IgA	19
		IgG	47
		IgM	87
		cKappa	54
		cLambda	4
		CD19 (Plasma Cells)	93

Intensity: B = bright D = dim M = moderate

Disclaimer: The adequacy of staining is verified by the appropriate positive and negative controls. The reagents used for these assays are analyte specific reagents (ASR). Their performance characteristics have been validated by Precipio Diagnostics, LLC, New Haven, CT. 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".