

Interpretation / Diagnosis:

According to Immunophenotyping, cytomorphology and cytochemistry findings, diagnosis is highly suggestive of *Non M3- Acute Myeloid Leukemia (AML-M5 is the most probable type)*.

BM cytomorphology & immunophenotyping for definitive sub typing should be considered.

<u>Stem-Cell Associated Markers</u>			<u>%</u>	<u>Comments</u>	<u>B-Cell Associated Markers</u>			<u>%</u>	<u>Comments</u>
CD34	(Progenitor Cell)	<1			CD19	(Pan-B)	7		
CD117	(Progenitor Cell)	<1			CD10	(CALLA)	<1		
HLA-DR	(HLA-MHC Antigen)	82			CD22	(Pan-B)			
TdT	(Nuclear TdT)				iCD79a	(Cytoplasmic, Pan-B)			
					iIgM	Cytoplasmic μ heavy chain)			
					CD20	(Mature B)			
					s.Kappa	(Ig light chain)			
					s.Lambda	(Ig light chain)			
					CD79 β	(Surface, Mature B)			
					<u>T/NK Cell Associated Markers</u>				
					iCD3	(cytoplasmic, Early T cell)			
					CD1a	(Thymic T)			
					CD7	(Pan-T)	12		
					CD3	(Mature T)			
					CD2	(Pan-T)	12		
					CD5	(Pan-T)			
					CD4	(Helper T)			
					CD8	(Cytotoxic T)			
					CD56	(NK/Cytotoxic T)	62		
					<i>98% of cells gated on blast region</i>				

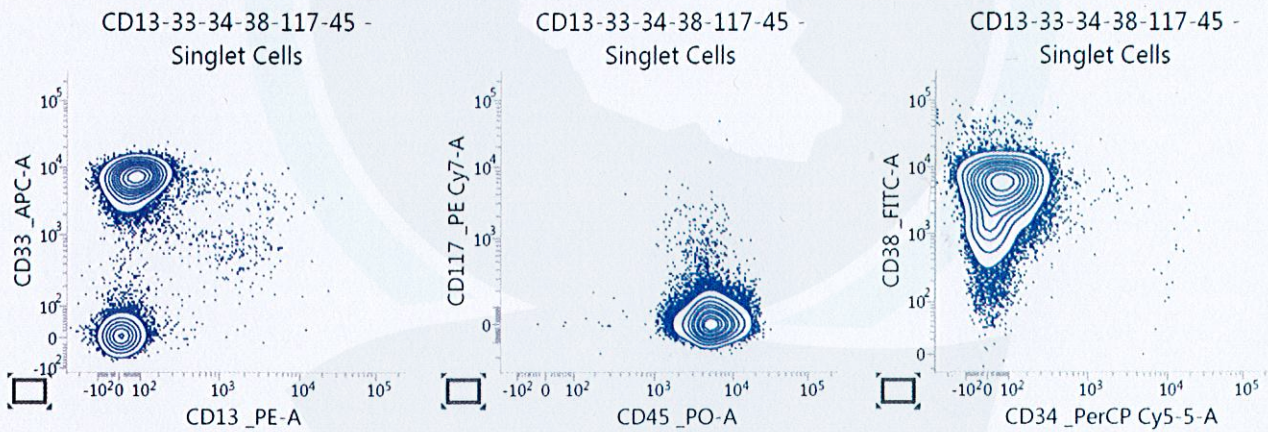
Comments:

Immunophenotype Description:

Immunophenotyping of Peripheral Blood by flow cytometry shows a mononuclear population (*about 98% of the cells analyzed*). These cells show expression of **CD14, CD33, CD45, CD64, CD38, CD56 & HLA-DR** and they were negative for all other requested markers.

PB Smear: Blast & Blast equivalent:37%, Dysplastic Monocytes:32%

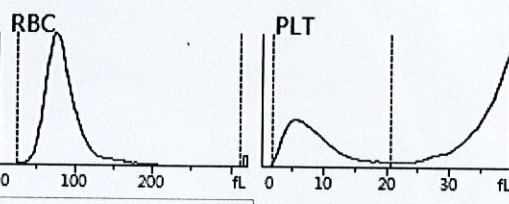
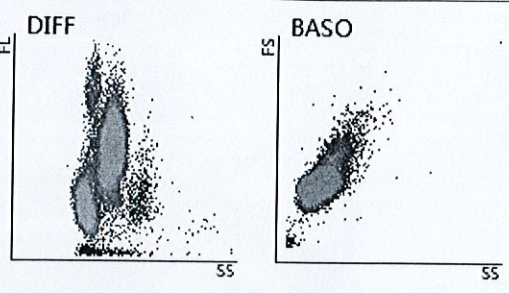
Cytochemistry: All of Leukemic blasts were MPO negative



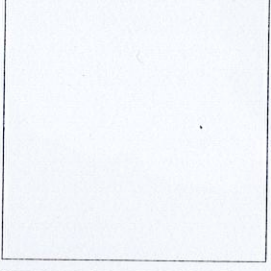
Gender : Female

Age: 1Month

Para.	Result	Unit	Ref. Ranges	
WBC	H	57.08	10 ³ /uL	5.00 - 22.00
Neu#	L	2.79	10 ³ /uL	3.00 - 9.00
Lym#	H	46.69	10 ³ /uL	2.00 - 16.00
Mon#	H	7.59	10 ³ /uL	0.50 - 1.70
Eos#	L	0.03	10 ³ /uL	0.10 - 0.90
Bas#	L	0.01	10 ³ /uL	0.10 - 0.90
IMG#	H	0.28	10 ⁹ /L	0.00 - 0.10
Neu%	L	4.9	%	30.0 - 80.0
Lym%	H	81.8	%	24.0 - 62.0
Mon%		13.3	%	2.0 - 17.0
Eos%	L	0.0	%	1.0 - 6.0
Bas%		0.0	%	0.0 - 1.0
IMG%		0.5	%	0.0 - 1.0
RBC		3.59	10 ⁶ /uL	3.00 - 6.30
HGB	L	9.6	g/dL	11.5 - 21.5
HCT	L	28.8	%	31.0 - 71.0
MCV	L	80.4	fL	86.0 - 126.0
MCH	L	26.7	pg	30.0 - 37.0
MCHC		33.3	g/dL	28.0 - 38.0
RDW-CV	H	21.4	%	11.5 - 14.5
RDW-SD	H	61.9	fL	35.0 - 56.0
PLT	L	61	10 ³ /uL	160 - 500
MPV		8.6	fL	5.0 - 12.0
PDW		15.5		9.0 - 17.0
PCT	L	0.052	%	0.108 - 0.282
P-LCC	L	11	10 ³ /uL	30 - 90
P-LCR		17.8	%	11.0 - 45.0



WBC Message
 WBC Scattergram Abn.
 Abn. Lymph/blast?
 Immature Gran?
 Atypical Lymph?
 Monocytosis
 Lymphocytosis
 Leucocytosis



RBC Message

PLT Message

RET

LFR: Pink
 MFR: Red
 HFR: Dark Yellow

NRBC

NRBC: PINK
 WBC: Blue

BASO

BASO: RED
 WBC: Blue

DIFF

LYM: Green
 MONO: Pink
 NEU: Blue
 EOS: Red
 HFC: Green
 IMG: DarkCyan

RBC Morphology		WBC Morphology	
Normal	Acanthocyte	Hypersegmented neu	
Anisocytosis	Burr.cell	Toxic Granulation	
Poikilocytos	Tear drop RBC	Dohle bodies	
Microcytosis	Sickle cell	CVN	
Macrocytosis	Bite cell	Giant Platelets	
Macro Ovalocyte	Blister cell		
Hypochoromia	Schistocyte		
Polychromasia	Rouleaux form.		
Ovalocyte	Howell-Jolly body		
Elliptocyte	Baso stip.		
Target cell	Pappenheimer		
Spherocyte			

Comments