



PS:

Smear shows leukocytosis with presence of 82% blasts which are 2.5 to 3.5 times the size of small mature lymphocytes with high NC ratio, having scant, agranular cytoplasm, round nuclei (few showing indentations), coarse chromatin and 1-2 conspicuous nucleoli. Red cells are showing mild anisocytosis with normocytic normochromic. Platelets are reduced.

DLC - Blasts 82 L<sub>1</sub> M<sub>1</sub>

Impression: Based on morphology and immunophenotype <sup>report at lab</sup>  
Suggestive of CALLA positive B-cell acute lymphoblastic leukemia (B-ALL).

jjt/w  
16/4/2024.

## SPECIAL HEMATOLOGY LABORATORY

## DEPARTMENT OF PATHOLOGY

LADY HARDINGE MEDICAL COLLEGE AND ASSOCIATED HOSPITALS, NEW DELHI

## FLOW CYTOMETRY REPORT

LAB REFERENCE NO: 146/24

BMA: 231/24

DATE: 13/04/24

NAME	AGE/SEX	REG NO	HOSPITAL	UNIT	DOCTOR INCHARGE
Bhoemi	2y/F	9213	KSCU	V2C2	

Type of specimen: Peripheral blood

Total cell count of sample:  $60.65 \times 10^3/\mu\text{l}$ 

Percentage of gated population: 74.92%

Gating strategy: FSC VS SSC: CD45 v/s SSC

Intensity of CD45 expression on Gated population: Dim to Negative

MARKERS	RESULT	INTENSITY	INTERPRETATION
<b>T CELL MARKERS</b>			
cCD3	-	-	Negative
CD5	-	-	Negative
CD7	-	-	Negative
sCD3	-	-	Negative
CD4	-	-	
CD8	-	-	
CD1a	-	-	
<b>B Cell Markers</b>			
CD19	92%	Moderate	Positive
CD79a	96%	Moderate	Positive
CD10	89%	Moderate	Positive
CD22	63%	Dim	Positive
CD20	30%	Dim	Positive
siM			
CD19 & CD10 coexpression	89%		
<b>Myeloid Markers</b>			
CD13			
CD33			
CD14			
CD15			
MPO	-	-	Negative
<b>Immaturity Markers</b>			
HLA-DR	92%	Bright	Positive
CD34	80%	Dim to moderate	Positive
CD117	-	-	Negative
TdT			

<b>Monocytic Markers</b>			
CD11b			
CD11c			
CD14			
CD36			
CD64			
<b>Erythroid Markers</b>			
CD235a			
CD71			
<b>Megakaryocytic Markers</b>			
CD61			
CD41			
<b>M/D Markers</b>			
CD38			
CD58		Moderate	Positive
CD73		Moderate	Positive
CD86		Moderate	Positive
CD81		Moderate	Positive
CD304		Moderate	Positive
CD123		Moderate	Positive
		Moderate to bright	Positive
<b>OTHERS</b>			
CD16			
CD56			

**Impression:**

Flow cytometric analysis reveals approximately 74.92 % of blasts showing

Bright expression of HLA-DR  
 Moderate to bright expression of CD123  
 Moderate expression of CD19, CD79a, CD38, CD58, CD73, CD86, CD81,  
 CD304

Moderate to Dim expression of CD34 and CD22  
 Dim expression of CD22 and CD20  
 Negative for CD3, CD33, CD7, MPO, CD117

Co-expression of CD10 & CD19

The scatter parameter and antigenic distribution of peripheral blood/bone marrow provided for flow cytometry study are suggestive of CALLA positive B-cell acute lymphoblastic leukemia

Reported By: *[Signature]*

Dr. Jyotsna

Prof  
 16/04/24

Sample No.: 13/3189  
 Patient ID:  
 Name:  
 Sample Comment:



13/3189

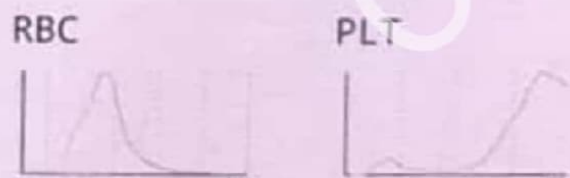
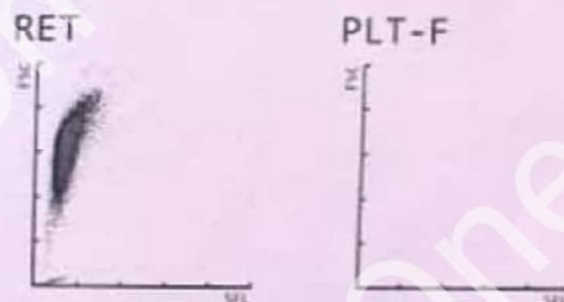
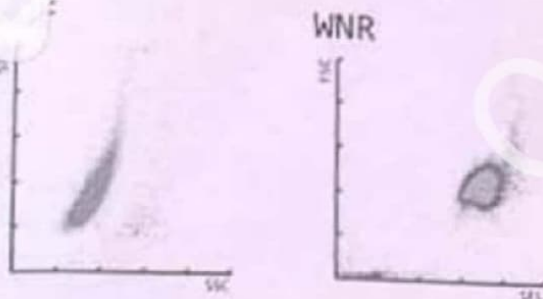
Name: BHOOMI 2.6Y/F 9713 U2C3  
 Name: CBC 15/04/2024

Position: 2 2024/04/15 10:44:52 WB  
 Doctor:  
 Birth:  
 Sex:  
 Nickname: XN-1500-1-R

Positive

Diff. Morph. Count

NBC	57.55 +	[10 <sup>3</sup> /uL]		
RBC	2.43 -	[10 <sup>6</sup> /uL]		
HGB	6.9 -	[g/dL]		
HCT	21.3 -	[%]		
MCV	87.7	[fL]		
MCH	28.4	[pg]		
MCHC	32.4	[g/dL]		
PLT	18 +	[10 <sup>3</sup> /uL]		
RDW-SD	75.8 +	[fL]		
RDW-CV	24.6 +	[%]		
PDW	----	[fL]		
MPV	----	[fL]		
P-LCR	----	[%]		
PCT	----	[%]		
NRBC	0.01	[10 <sup>3</sup> /uL]	0.0	[%]
NEUT	0.11 *	[10 <sup>3</sup> /uL]	0.3 *	[%]
LYMPH	46.00 *	[10 <sup>3</sup> /uL]	79.9 *	[%]
MONO	11.23 *	[10 <sup>3</sup> /uL]	19.5 *	[%]
EO	0.02	[10 <sup>3</sup> /uL]	0.0	[%]
BASO	0.19 +	[10 <sup>3</sup> /uL]	0.3	[%]
IG	0.03 *	[10 <sup>3</sup> /uL]	0.1 *	[%]
RET	0.25	[%]	0.0061	[10 <sup>6</sup> /uL]
IRF	6.3	[%]		
LFR	93.7	[%]		
MFR	3.8	[%]		
HFR	2.5	[%]		
RET-He	31.7	[pg]		
IPF		[%]		
WBC-BF		[10 <sup>3</sup> /uL]		
RBC-BF		[10 <sup>6</sup> /uL]		
MN		[10 <sup>3</sup> /uL]		[%]
PMN		[10 <sup>3</sup> /uL]		[%]
TC-BF#		[10 <sup>3</sup> /uL]		



WBC IP Message  
 WBC Abn Scattergram  
 Neutropenia  
 Lymphocytosis  
 Monocytosis  
 Leukocytosis  
 Blasts/Abn Lympho?  
 Atypical Lympho?

RBC IP Message  
 Anisocytosis  
 Anemia

PLT IP Message  
 PLT Abn Distribution  
 Thrombocytopenia

**KESHAV PATH LAB**

FULLY COMPUTERISED LAB.

316/5, North Civil Line, Near Gangal Nursing Home,  
Dr. Gangal Wall Gali, Anand Road, Aluzaffarnagar (U.P.)  
Mob: 9333377307, 7055041842

Liquid based Cytology (LBC)  
Hormone & Automated  
Culture available



**Dr. Nidhi Agarwal**

M.B.B.S., D.C.P., M.D.

(Gold Medalist)

CLINICAL PATHOLOGIST

Name	Baby Bhumi	537	Lab Ref. No.	M 537
Age/ Sex	2 Yrs. 6 Months / FEMALE		Collected On	12/04/2024
Referred By	Dr. Anand Kumar, M.B.B.S. M.D.		Registered On	12/04/2024
Sample	BLOOD		Reported On	12/04/2024

Investigation	Results	Units	Biological
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**SEROLOGY**

Non Reactive

THE ABOVE TEST IS A SCREENING TEST FOR DETECTION OF HIV 1 AND 2 ANTIBODY IN HUMAN SERUM OR PLASMA. ALL POSITIVE DETECTED SAMPLE SHOULD BE RECONFIRMED BY WESTERN BLOT TECHNIQUE. NEGATIVE RESULT DOES NOT EXCLUDE THE POSSIBILITY OF INFECTION OR EXPOSURE TO HIV 1 AND HIV 2.

H.I.V (1 & 2)

**BIOCHEMISTRY**

690.0

U/L

125-360

LDH

-----{END OF REPORT}-----

**Dr. Nidhi Agarwal**  
M.B.B.S. D.C.P. M.D

- Laboratory test values should be correlated with clinical finding and other related investigation because of their limitation.
- In case of alarming unexpected test report, kindly contact the lab immediately for possible remedial advice.
- This report is not valid for medico-legal purpose.
- It is presumed that the specimen belongs to the patient name or identified. Identity of the patient can not be confirmed by us.

Leukemia no: - 43/24

Sample No: 3/3134  
 Patient ID  
 Name  
 Sample Comment

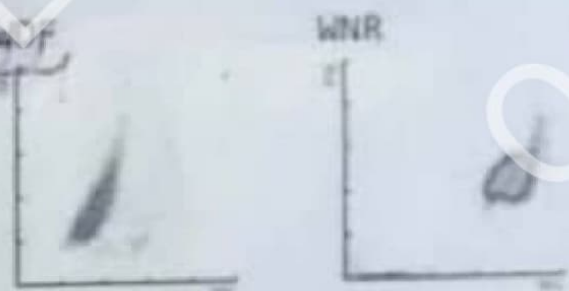
Ward: Rack: 3 Position: 2824/04/17 Doctor: Sex: Nickname: XN-1500-1-R

PLT - 231/25

Positive Diff. Morph. Count

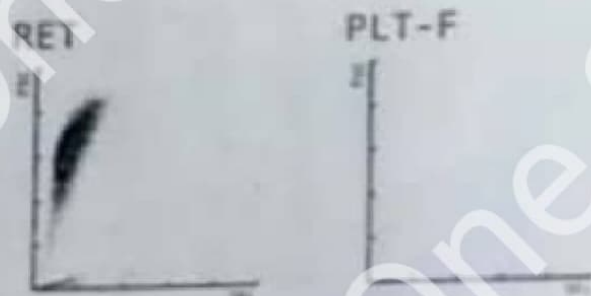
WBC	60.65	+	$10^3/\mu\text{L}$
RBC	1.13	-	$10^6/\mu\text{L}$
HGB	3.3	-	g/dL
HCT	11.4	-	%
MCV	100.9	-	fL
MCH	29.2	-	pg
MCHC	28.9	-	g/dL
PLT	31	-	$10^3/\mu\text{L}$
RDW-SD	76.8	+	fL
RDW-CV	21.8	+	%
PDW	11.4	-	fL
MPV	10.2	-	fL
P-LCR	27.0	-	%
PCT	6.85	-	%
NRBC	0.01	-	$10^3/\mu\text{L}$
NEUT	0.27	-	$10^3/\mu\text{L}$
LYMPH	48.77	+	$10^3/\mu\text{L}$
MONO	16.53	+	$10^3/\mu\text{L}$
EO	0.03	-	$10^3/\mu\text{L}$
BAZO	0.03	-	$10^3/\mu\text{L}$
IG	0.03	-	$10^3/\mu\text{L}$
XET	0.56	-	%
IIF	14.2	-	%
LFR	35.8	-	%
HFR	11.8	-	%
HFR	2.4	-	%
RET-He	34.0	-	pg
IPF		-	%

Bhoomi  
 27/F  
 9713



WBC-BF	$10^3/\mu\text{L}$
RBC-BF	$10^6/\mu\text{L}$
MW	$10^3/\mu\text{L}$
PMW	$10^3/\mu\text{L}$
TC-BF#	$10^3/\mu\text{L}$

0.0	%
0.5	%
82.1	%
17.4	%
0.0	%
0.0	%
0.0	%
0.0063	$10^3/\mu\text{L}$



WBC IP Message  
 WBC Abn Scattergram  
 Neutropenia  
 Lymphocytosis  
 Monocytosis  
 Leukocytosis  
 Blasts/Abn Lympho?  
 Atypical Lympho?

RBC IP Message  
 Anisocytosis  
 Hypochromia  
 Anemia

PLT IP Message  
 Thrombocytopenia