

We are requesting your support for 3 years old **RAM SINGH**, who is battling for life against a life threatening disease **Acute Myeloid Leukemia (AML)**. It is a cancer of the myeloid line of blood cells, characterized by the rapid growth of abnormal cells that build up in the Bone Marrow and blood and interfere with normal blood cell production.

He is currently being treated at Oncology Dept., KGMU Lucknow.

His father is a farmer and He belongs to RAIBARELY (U.P). He has already spent 1 lacks for his previous treatment. **RAM SINGH** was declared cancer-free in MAY 2022. As months passed by, they began to let go of fear gripped this family when they heard **RAM SINGH** scream. **RAM SINGH** was suffering with high fever. they rushed him straight to the hospital. The doctor said to him, **RAM SINGH's blood cancer has come back**. It is worse this time, spreading faster. They had no time to think and immediately started chemotherapy.

Chemotherapy is no longer enough to beat this cancer. RAM SINGH needs a BONE MARROW TRANSPLANT now.

It is the only way he has a chance of beating cancer once. He has been getting injections in the spine as a part of his treatment. He is in severe pain, is exhausted and incredibly terrified of what is coming next.

Bone Marrow Transplant Surgery estimated cost is 3-4Lacs.

These Parents are helpless. He has already spent all savings and taken out a loan to afford the treatment last year and has no source left to approach now. This time, they are begging everyone.

MAKING SMILE FOUNDATION

Address: 1ST FLOOR SADAF CENTER J.N ROAD NEAR KAISERBAGH BUS STAND
LUCKNOW U.P.

Phone No.: 8954132816

Email id: makingsmilefoundation@gmail.com

REG. NO.: 097

PATIENT APPLICATION FORM

PATIENT DETAILS	
NAME	RAM SINGH
FATHER'S NAME	AJAY VIKRAM
AGE	3 YEARS
SEX	MALE
ADDRESS	RAIBARELY
DISEASE	BLOOD CANCER
HOSPITAL	KGMU LUCKNOW
DEPARTMENT	ONCOLOGY
TREATMENT	BONEMARROW TRANSPLANT & MEDICIN
TREATMENT COST	3-4 LAKS





King George's Medical University, Uttar Pradesh, Lucknow
Department of Pathology
Haematology/Lymphoma -Leukemia

Serial No:- 792

Age/Sex: 3 Y/M

Patient Name:- Ram Singh

Ward/Bed no:

Hospital:-G.M. & A.H.

UHID- 20220220659

Specimen: CSF

Received on: 23/06/23

PARAMETER	RESULT	UNITS	REFERENCE RANGE
Physical Examination			
Volume	3.0	ML	
Colour	Colour less		
Turbidity	Clear		
Coagulum	-		
Blood	-		
Deposit	-		
Cytological Examination			
Cell count	<5	/ mm ³	< 4
Differential Leucocytes Count (%)			
Neutrophils	-		
Lymphocytes	-		
Eosinophils	-		
Monocytes	-		
Basophils	-		
Degenerated cells	-		
Malignant cells	Negative		
Notes			

(Prof Suresh Babu)
MD

(Dr. Sanjay Mishra)
MD

Checked by JR:-



King Georges' Medical University, Lucknow, Uttar Pradesh, India

POST GRADUATE DEPARTMENT OF PATHOLOGY

(TRAUMA CENTRE PATHOLOGY)

ISO 9001:2008 CERTIFIED

Date : 28-Jul-2023 Reg/Ref: 20220220659 / 28072300501
Name : Master. RAM SINGH Age/Sex : 3 Yrs.1 Mth./392574
Ref.By : Dr. [REDACTED] WARD : OPD
Receipt : NA
Requested Test : cbc
Coll Time : 28-Jul-2023 11:19 AM Validate : 28-Jul-2023 02:10 PM Prn. Time : 28-Jul-2023 02:15 PM

Investigation

Observed Values

Biological Ref.
Interval

HAEMATOLOGY

Complete Blood Count

Haemoglobin	9.7 g/dL	11 - 14
Total Leucocyte Count (TLC)	1820 cells/mm3	5000 - 13000
Differential % Leucocyte Counts:		
Neutrophils	55 %	45 - 65
Lymphocytes	40 %	35 - 45
Eosinophils	03 %	1 - 6
Monocyte	02 %	1.0 - 5.0
Basophil	00 %	0.0 - 2.0
Platelet Count	1.50 Lac cells/mm3	1.5 - 4.5
MPV	9 fl.	7.4 - 10.4
Total RBCs	3.22 Million cells/uL	4.0 - 5.3
MCV (Mean Cell Volume)	87.3 fl.	77 - 95
MCH (Mean Corpus. Haemoglobin)	30.1 pg	25 - 33
MCHC (Mean Corpus. Hb Conc.)	34.5 g/dl	31 - 37
RDW	19.3 %	11.5 - 14.5
HCT (hematocrit)	28.1 %	35 - 45

शीघ्र स्वास्थ्य लाभ की कामना

End of report

Checked by- Lab Technician

JR-I/II

DR. PREETI AGARWAL
(Co Faculty Incharge)

DR. WAHID ALI
(Faculty Incharge)



305185 User: VISHAL (DELL-PC)



King Georges' Medical University, Lucknow, Uttar Pradesh, India

POST GRADUATE DEPARTMENT OF PATHOLOGY

(TRAUMA CENTRE PATHOLOGY)

ISO 9001:2008 CERTIFIED

Date : 03-Aug-2023 Reg/Ref: 20220220659 / 3082300650
Name : Master. RAM SINGH Age/Gender : 3 Yrs.2 Mths./Male
Ref.By : Dr. [REDACTED] WARD : OPD
Receipt : NA
Requested Test : KFT, LFT, electro., cbc
Coll Time : 03-Aug-2023 03:32 PM Validate : 03-Aug-2023 06:49 PM Prn. Time : 03-Aug-2023 07:15 PM

Investigation

Observed Values

Biological Ref.
Interval

HAEMATOLOGY

Complete Blood Count

Haemoglobin	7.1 g/dL	11 - 14
Total Leucocyte Count (TLC)	500 cells/mm3	5000 - 13000
Differential % Leucocyte Counts:		
Neutrophils	50 %	45 - 65
Lymphocytes	45 %	35 - 45
Eosinophils	03 %	1 - 6
Monocyte	02 %	1.0 - 5.0
Basophil	00 %	0.0 - 2.0
Platelet Count	1.20 Lac cells/mm3	1.5 - 4.5
MPV	10.3 fl.	7.4 - 10.4
Total RBCs	2.35 Million cells/uL	4.0 - 5.3
MCV (Mean Cell Volume)	89.2 fl.	77 - 95
MCH (Mean Corpus. Haemoglobin)	30.5 pg	25 - 33
MCHC (Mean Corpus. Hb Conc.)	34.1 g/dl	31 - 37
RDW	18.8 %	11.5 - 14.5
HCT (hematocrit)	21 %	35 - 45

BIOCHEMISTRY

KIDNEY PANEL

Serum Urea	14.1 mg/dL	10- 45
Serum Creatinine	0.46 mg/dL	0.6 - 1.5

LIVER FUNCTION TEST

Serum Bilirubin, Total	0.32 mg/dl.	0.3-1.4
Serum Bilirubin, Direct	0.16 mg/dl.	0- 0.4
SGOT	41.9 IU/L	0-40
SGPT	57.6 IU/L	0 - 45
Serum Alkaline Phosphatase	622.5 IU/L	50-270

Checked by- Lab Technician

JR-I/II

DR. PREETI AGARWAL
(Co Faculty Incharge)

DR. WAHID ALI
(Faculty Incharge)



315579 User: KULDEEP (DELL-PC)

Printed: 03-Aug-2023 08:14:10 PM



Name: **Mst. RAM SINGH S/O AJAY VIKRAM**
Age: 2 Yrs Sex: Male
Ref. No:
Regd. Dt: 06/06/2022
Coll Dt. Tm: 06/06/2022 19:27:29
Recd Dt. Tm: 07/06/2022 12:35:21

Client Details: Relief Diagnostics
B5/19,
Acc. ID: 56002208393
Refd. By: DR. N. VERMA
Report Dt. Tm: 08/06/2022 13:04:51
Hospital No.:

ALL Panel For Dr. ARCHANA KUMARI

Marker	% Positivity	Intensity	Interpretation
T-cell Markers			
CD3	0.2		Negative
CYCD7	0.6		Negative
CD5	0.3		Negative
CD7	0.3		Negative
B-CELL			
CD19	84.6	Dim to Moderate	Positive
CD10	98.1	Moderate	Positive
CD22	96.8	Dim	Positive
CD20	0.7		Negative
Myeloid/Mono			
CD13	4.5		Negative
CD33	1.1		Negative
MPO	0.1		Negative
Others			
CD34	1.0		Negative
CD45	99.3	Dim	Positive
CD117	0.2		Negative
HLADR	98.7	Moderate	Positive
CD38	99.1	Dim	Positive

Interpretation of Observations

Specimen Type: - Peripheral blood sample showed TLC - 12,500 cells/ μ l.

Instrument / Software: BD FACS Canto / BD FACS DIVA

Cell Preparation Method: Stain - Lyse- Wash



King George's Medical University, Uttar Pradesh, Lucknow
Department of Pathology
Haematology/Lymphoma -Leukemia

Patient:- Ram Singh
Surgeon/Physician:
Specimen: Blood and Bone marrow
UHID. No:
Lab. No: 953/22
Clinical Diagnosis:- ? ALL

Age /Sex: 2 Y/M
Ward/Bed:
Hospital: G.M. & A.H.
Received on: 02/06/22
Reported on: 03/06/22

BLOOD EXAMINATION REPORT

*Hemoglobin : 8.8 g/dl
*Total Leucocytes Count: 75,000 cells/cumm
*Diff. Leucocytes Count:
 Neutrophils : 05%
 Lymphocytes : 10%
 Monocytes : 00%
 Eosinophils : 00%
 Blast : 85%
*Platelet Count : 40,000 / mm³

RBC Parameters on CBC

RBC : $3.51 \times 10^6 / \mu\text{L}$
HCT : 22.8 %
MCV : 65.0 fl
MCH : 25.1 pg
MCHC : 38.6 g/dl


G.B.P:- Red blood cells are predominantly normocytic normochromic with mild anisocytosis.

BONE MARROW:

- Bone marrow smears are particulate and hypercellular.
- Majority of the cells present are intermediate size blast cells having high nucleocytoplasmic ratio, coarse chromatin, inconspicuous nucleoli and scant amount of agranular basophilic cytoplasm.
- Cells of normal hematopoietic precursors are reduced.

IMPRESSION:- Acute Lymphoblastic Leukemia.

Advice: Immunophenotyping


(Dr. Sanjay Mishra)
M.D.

Checked by JR:- Dr. Isha(JR), Dr. Shalini (SR)



Name: **Mst. RAM SINGH S/O AJAY VIKRAM**
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 Ref. No.
 Regd. Dt: 06/06/2022
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Client Details: Relief Diagnostics
 B5/19,
 Acc. ID: 56002208393
 Refd. By: DR. N. VERMA
 Report Dt. Tm: 08/06/2022 13:04:51
 Hospital No.:

ALL Panel For Dr. ARCHANA KUMARI

Marker	% Positivity	Intensity	Interpretation
T-cell Markers	0.2		Negative
CD3	0.6		Negative
CD4	0.3		Negative
CD5	0.3		Negative
CD7			
B-CELL	84.6	Dim to Moderate	Positive
CD19	98.1	Moderate	Positive
CD10	96.8	Dim	Positive
CD22	0.7		Negative
CD20			
Myeloid/Mono	4.5		Negative
CD13	1.1		Negative
CD33	0.1		Negative
MPO			
Others	1.0		Negative
CD14	99.3	Dim	Positive
CD45	0.2		Negative
CD117	98.7	Moderate	Positive
HLADR	99.1	Dim	Positive
CD38			

Interpretation of Observations

Specimen Type: - Peripheral blood sample showed TLC - 12,500 cells/ μ L.

Instrument / Software: BD FACS Canto / BD FACS DIVA

Cell Preparation Method: Stain - Lyse - Wash



oncquest
discover diagnose defend

Name:	MR. RAM SINGH S/O AJAY VIKRAM		Client Details:	Relief Diagnostics
Age:	2 Yrs	Sex: Male		B5/19.
Ref. No.			Acc. ID:	56002208393
Regd. Dt:	06/06/2022		Refd. By:	DR. N. VERMA
Coll Dt. Tm:	06/06/2022 19:27:29		Report Dt. Tm:	24/06/2022 11:01:47
Recd Dt. Tm:	07/06/2022 12:35:21		Hospital No.:	

Limitation: Low grade clonal rearrangements and/or the presence of submicroscopic or cryptic abnormalities may not be evident on conventional karyotyping.
Correlation of chromosomal study with clinical, hematological & molecular findings is recommended.

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Name: Mst. RAM SINGH S/O AJAY VIKRAM				Client Details:	Relief Diagnostics
Age:	2 Yrs	Sex:	Male		B5/19,
Ref. No.				Acc. ID:	56002208393
Regd. Dt:	06/06/2022			Refd. By:	DR. N. VERMA
Coll Dt. Tm:	06/06/2022 19:27:29			Report Dt. Tm:	08/06/2022 13:04:51
Recd Dt. Tm:	07/06/2022 12:35:21			Hospital No.:	

SSC Vs CD45 Gating.

Flow cytometric analysis shows a cell cluster in CD45 dim region with low side scatter. These gated cells in blast region (48.0%) show moderate expression of CD10, HLADR, dim expression of CD22, CD38, dim to moderate expression of CD19 and rest of the markers are negative.

Impression

The scatter parameters and antigen expression profile as studied by flow cytometry of the sample are suggestive of **B Lymphoblastic Leukemia, B-ALL**.

Correlation with clinical, cytogenetic and other hematological parameters is advised.

COMMENT: Recommendation for further testing is as follows:

1) **Advised Karyotyping and ALL FISH panel or ALL Translocation panel for t(9;22), t(12;21), t(1;19) and t(4;11) by multiplex PCR, for risk stratification.**

2) **Follow up MRD studies by Flowcytometry are advised at completion of initial induction and/or as per chemotherapy regimen**

As per NCCN GUIDELINES recommendations:-

Cytogenetic risk groups for B-ALL:-

Good Risk: Hyperdiploidy (51-65 chromosomes; cases with trisomy of chromosome 4, 10 and 17 appear to have the most favourable outcome); t(12;21)(p13;q22): ETV6-RUNX1

Poor Risk: Hypodiploidy (<44 chromosomes); KMT2A rearranged (t(4;11) or others); t(v,14q23)/igf1 t(9;22)(q34;q11.2): BCR-ABL1 (defined as high risk in the pre-TKI era); complex karyotype (5 or more chromosomal abnormalities); ph-like ALL; intra-chromosomal amplification of chromosome 21 (lamp21)

Timing of MRD assessment

(i) Upon completion of initial induction

(ii) Additional time points may be useful depending on the regimen used.

This test has been developed and its performance characteristics determined by Oncquest Laboratories.

Note: All investigations have their limitations which are imposed by the limits of sensitivity and specificity of individual assay procedures as

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Please correlate the test results with clinical history of the patient. Not for medico-legal purpose.