



Department of Pediatrics  
Division of Pediatric Oncology  
All India Institute of Medical Sciences, New Delhi

CK- 94702  
AllINS



ST JUDE INDIA CHILDCARE CENTRE

# 7718836110, Mon to Sat -10 AM to 6 PM

CENTRE: DELHI/NOIDA



शरीरमाद्यं खलु धर्मसाधनम्

Patient Note Book

Name:

Arshad Hussain

UHID:

1078 32517

LH03052501338 107832517

LH0305251929 107832517

BLB-030525042 107832517

LP-030525009 107832517

107832517

LH0305250189



RECORD

# Patient Details

Name : Arshad Hussain

Age / Gender : 8m/m

Father's Name : Saddam Hussain

Address : Lucknow, U.P.

Contact No : 7715954138

POC / PCSC No.: 368/24

Diagnosis: JMML

Remarks :

PICC Line Care

अगर आपके बच्चे को PICC Line Care लगी हुई है तो डे केयर के डाक्टर या नर्स से जरूर संपर्क करें।

Counseling done

- Mouth Care : 2-1-1

1-1-1

- Sitz bath 1-0-1

- Personal Hygiene

- Thermometer

- Blood clots

- Sock and gloves

- Help line no.

- Danger signs explained

- Acromediation

44g  
Meg

St. Jude

कमरा / Room  
C-210  
F30  
Queue /  
संख्या  
Unit-I, POC.

बाल चिकित्सा विभाग  
UHD: 107832517  
ABHA  
musanarshad2520241@abdm  
Dept No: 20240030028246  
Clinic No: 2024/POC/368

कमरा / Room  
C-210  
F30  
Queue /  
संख्या

बाल चिकित्सा विभाग  
UHD: 107832517  
ABHA

2/7/25

Splenectomy date - 16/07/25

Grade 8 cells  
any

Pre splenectomy vacenta - done.

ENT  
Ophtl ✓  
Dentl

7.1  $\xrightarrow{19900}$   $\xleftarrow{95000}$

LFT/UTL - @

GFR - 120 ml/minute/1.73m<sup>2</sup>

No complications @ present

Toxoplasma IgG - Positive

CMV IgG - Positive

CMV DNA PCR - Negative

EBV - Negative

Adv

Hib vaccine - NA

To give Pentavalent vaccine

given 4  
3/7/25 Ig Pentavalent 0.5ml IM

- To check for more funds

-> NV 8/7/25 CBL/UTL/UTL

Trulyhelp  
A Life Of Dignity For All



Dr. Anil Koh  
DM Resident  
Pediatric Oncology  
DMC - 52671  
AIIMS - New Delhi

28/06/25

JMML / NF<sub>3</sub> ASXL1 mutation / Post Gajole .

Op Azacytidine \_\_\_\_\_

o No fresh complaints

spleen — (9cm)

o Prescription vaccine

• Meningococcal & pneumococcal vaccine .

• PAC ✓

• Surgery review

Pending (Appointment)  
(02/07/25)

• Funds — 8 Lakhs arranged .

ABV / — DSA (Consultation given)

→ N/V → 02/07/25 → Wednesday 9am

To bring Jugrajya (Donor — for workshop)

05/06/25 JMML / NFI ASXLI mutation / Post cycle  
of Azacitidine.

o No fresh complaint.

o Received PRBC ——— 23/06/25.

o Received Meningococcal & pneumococcal vaccine.

o PAC, ~~Doc~~ Surgery review ← Pending

o Funds being arranged

Adv/

→ N/V → 30/06/25 Doc @ 2pm



Signature

Dr. Divyanshu Singh P.R.  
Registrar  
Pediatric Oncology  
AIIMS, New Delhi

21/06/25

JMML (NF1 ASXL1 mutation) / Post Cycle 9

Azacitidine / Planned splenectomy

Spleen  $\rightarrow$  6cm

liver  $\rightarrow$  4cm

o No fresh complaints.

o

o Funds  $\rightarrow$  CM, PM fund applications under process

o Splenectomy  $\rightarrow$  Dele surgery followup  $\rightarrow$  advised  
vaccination

o Adv

Room no. 205

To CANCERS

Truly help  
A Life Of Dignity for All

1. Dnj. Meningococcal vaccine 0.5ml I/m shd.

2. Dnj. Pneumococcal vaccine (PCV13) 0.5ml I/m shd

3. Dnj. H<sub>2</sub>O<sub>2</sub> 0.5ml I/m shd.

4. PAC (new AAK  
oro 4m floor)

5. ~~PRBC~~ date  $\rightarrow$  (MCB) daycare 23/6/25

6. N/V  $\rightarrow$  25/06/25 Wednesday 9am

7. Dele/ne Surgery date.

| ISSUE / COMPATIBILITY LABEL                                         |                                 |
|---------------------------------------------------------------------|---------------------------------|
| Sample ID : 2025-S08347                                             |                                 |
| Patient : ARSHAD HUSAN                                              |                                 |
| Patient's Blood Group : B Pos                                       | UHID: 107832517                 |
| Hosp Dr : AIIMS Hospital - BSC /                                    |                                 |
| Pt. Hosp. Req. No.: 2025172278                                      |                                 |
| W/d-Bed No.: DAY CARE PEDS MCH GF                                   |                                 |
| Product : PRBC                                                      | Issue No.: 11110                |
| Blood Group : B Pos                                                 | Issue Dt : 23/Jun/2025 05:30 PM |
| Bag ID : 2025-B22422                                                | Colln. Dt : 11/Jun/2025         |
| XMatching Report : Compatible                                       | Exp. Dt : 23/Jul/2025           |
| X-matched By : ANKIT                                                | Issued By : ANKIT               |
| Blood storage centre, Surgical block, Masjid Moth, AIIMS, New Delhi |                                 |
| Pin-110029, Approval no - S(0051)/BSC/22                            |                                 |
| Lic.No. S(0051)/BSC/22                                              |                                 |

eGR ②  
 20 ECHO ②  
 TORCH ~  
 Blood gr B⊕

CMV immune [γγ⊕]

5.6 / 24.840 / 89K  
 10/6

monthly  
 PRBC Tx requirement ⊕

splenectomy  
 referral to Paeds Sx  
 on 10/6

Funds ~ 32 (PM fund)  
 CM fund awaited

Advice - ① Refer to ER stat before  
 PRBC transfusion

② PM & funds status /  
 Paeds Sx opinion

Nikita

③ Rvw on next OPD visit

11/6/25

Arsna2

16 mol m ch

JMMW

[NF, mutation]  
[ASXL1]

post cycle 6 #

Azacytidine

[1715 - 2315]

ASIS:

• clinically ~

Syleno Hepatomegaly ⊕

persistent

6cm

along its axis

4 cm BCM

• extended  
HLA matching

elder

[Bibling  
Jagraty]

9/12 ✓

NP, sangu  
testing 0/0

• Pact an splant  
recipient workup

ENT clearance  
2 wailed

dental clearance ✓  
dental

26/5/2025

no anti complaints

Box 6 H. Aranylidone. 17/5 - 23/5.

Seen in Paediatric Surgery OPD - - advised to  
return on 18/6/25. + Mr. Arjan Ora.

OIG:

Subcutaneous crural L4/5  
Some dimensions of liver and spleen  
1 cm above umbilicus  
RS-Chan.

Plan: Has a meeting in the morning on 2nd June /  
4th June.  
- for fund status (can fund) for 7x

- NV - 7/6/2025

Cont. Septum.

- CPSC/LF7/RF7 - to know report.



DR. SHARAN SHANUBHOGUE  
Senior Resident  
Paediatric Oncology  
Dept. of Paediatrics  
All India Institute of Medical Sciences  
New Delhi - 110029

• N/V . 26/5/2025  
 mm  
 2/11  
 poc cmmi

DR. SHARAN SHANUPHOGUE  
 Senior Resident  
 Paediatric Oncology  
 Deptt. of Paediatrics  
 All India Institute of Medical Sciences  
 New Delhi-110029

22/05/25

No fresh amplicon

Currently on D

Completed - 6 cycles of Azacytidine

23/05/25

7.3. 11820 1.4L.

Blact - 5X

LPK/AFI - Normal.

Funds ——— Blakh arranged.

A&V

Follow up fund status.

— Pediatric Surgery w/ (Splenectomy)

— Transplant w/ (Feinguen)

27/6/25  
 [Signature]  
 Dr. Kulam

8.50 12,010

C/unt = 24/0.1  
 45/457. 177/133

Blast-10%  
 Pcyt 2+  
 Neutrophils 38%  
 Lymphocytes 20%  
 Mono 16 1/2

1/105-61

Amc = 1920

Wt = 10 kg  
 ht = 75 cm  
 BSA = 0.46 m<sup>2</sup>

Cont. Septum

1g. EMESEN 1.5 mg 1x 8000 push

701  
 CANALPS  
 Please  
 buy

1g. ANACYTIDINE 34 mg in 100ml NS am  
 1 gram.

D1 17/5/25 ✓

D2 18/5/25 ✓

D3 19/5/25 ✓

D4 20/5/25 ✓

D5 21/5/25 ✓

dark.  
 S. Tracy -

17/5/2023

Jmml/NFI/ASXLI mutation / 100% 5# Argyrine  
bridge - last 9/4-15/4.

- No fusioconplants

- CNT-Seen

admit to return for  
D-nasal endoscopy

O/G:

- B/L cervical CN (+)

~ 0.5-1cm  
mobile  
non-tender

- no rash

ns/us-nrm

PA:

S<sub>lum</sub>

1cm above umbilicus

Plan:

- can find enhancement applied

- 20 Start cycle 6 - bridge therapy

5/5/2023

B gp - B+

AB - Screening  
monoclonal  
antibodies  
detected

↓

Anti-C (+)

TM

✓ eGFR = 120  
ml/min /  
1.73m<sup>2</sup>

mono IgG - 1.86.

anti-IgG = 43.56.

14/05/25

— No fresh complaints

\* ENT → Pending.

\* Ophthalmology

\* Dental consultation ✓

\* 2D edw. → Pending

Funke  
    Amfund → 3 labw  
    cmfund → Swatted

Adh/ → Funke to be arranged

→ ENT consultation.

→ 2D edw

→ NY → 17/05/25 with CBCT, IFT

Dr. Anurag Siddiqui P.R.  
DM Resident  
Pediatric Oncology  
AIIMS, New Delhi



Adv

Pretransplant workup

- \* ENT consultation
- \* Ophthalmology consultation
- \* Dental consultation
- \* EGFR study
- \* CBC, LFT, RFT, Torch profile, Blood grouping
- \* Expenditure of fund

N/V

07/05/21 Wednesday 9am



Dr. Ruksana Sidhique.P.R  
DM Resident  
Pediatric Oncology  
AIIMS, New Delhi

- PS no blasts (IRCH)

- To take date for PRBC transfusion from mylab.

- Pretransplant w/up → to meet Dr. Sharen

- 07-3/5/25

KS CR4/15/14

- Anti-Muphoen LA TDS

3/6/25

S/B Situation

Intake - 60%

622/1097 kcal

no me

Peso - 23/27 gm.

consumed for cal. case  
feeds.

Transfusion

No fresh amp/amp.

| ISSUE / COMPATIBILITY LABEL                                        |                               |
|--------------------------------------------------------------------|-------------------------------|
| Sample ID : 2025-S05857                                            |                               |
| Patient : ARSHAD HUSAN                                             |                               |
| Patient's Blood Group : B Pos                                      | UHID: 107832517               |
| Hosp/Dr : AIIMS Hospital - BSC /                                   |                               |
| Pt. Hosp. Req. No.: 2025119136                                     |                               |
| Wd-Bed No.: DAY CARE PEDS MCH GF                                   |                               |
| Product : LD-PRBC                                                  | Issue No.: 7953               |
| Blood Group : B Pos                                                | Issue Dt: 01/May/2025 04.30 P |
| Bag ID : 2025-B13970                                               | Colln. Dt: 09/Apr/2025        |
| XMatching Report : Compatible                                      | Exp. Dt: 21/May/2025          |
| X-matched By : Chetan                                              | Issued By : Pramod            |
| Blood storage centre, Surgical block, Masjld Moth, AIIMS, New Delh |                               |
| Pin-110029. Approval no - S(0051)/BSC/22                           |                               |
| Lic.No S(0051)/BSC/22                                              |                               |

Truly her  
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01/05/25

11-4 26782 97000  
10690

• CM-fund awaited.

• Jugrahiya — 9/12 match

(Sanga sequencing - not done)

23 | 04 | 25

Arshad 9/12  $\bar{c}$  Ingarafuzi  
6/12  $\bar{c}$  Dilmay  
Asad

PS collect NF<sub>1</sub> screening awaited.

R/A 1 week.

Septum to continue

- CBL.
- NF<sub>1</sub> screening

Aditya Gupta

डॉ. अदित्य कुमार गुप्ता  
Dr. Aditya Kumar Gupta  
अपर प्राध्यापक/Additional Professor  
बालरोगों की चिकित्सा विभाग/Department of Pediatrics  
आर्य समाज, नई दिल्ली-28/AIIMS, New Delhi-110029

30/4/25

OP Sep  
(photo copy)

30/4/25

SIB Detention

Entire - 60%.

wt inc↑

- 627/1086 kcal

- Pro - 95%.

- 26/27 gm.

Cont. with milk feeds.

- cont with same small  
& freq meals.

Pratishtha

JMML/NF 1 associated

fund:

PM cases : 3 cases

CM cases :

Donor

Sugrafya - 9/12  
match

NF 1 sample negative

currently,

no active complaints

19/4/2025

Review

with complaints now

|                | <u>9/4</u>       |   | <u>17/4/2025</u>     |
|----------------|------------------|---|----------------------|
| Wb             | 8.5              |   | 7.6 (↓)              |
| TLC            | 23,310 (circled) | → | 13,900 (circled) (↓) |
| M <sup>+</sup> | 127.             |   | 137.                 |
| mcl            | 2796             |   | 1810. (↓)            |
| Plt            | 65,000           | → | 82,000 (↑)           |

PS - Blasts 10%  
myeloblasts 1%  
N - 347  
L - 287  
M - 127  
C - 51

U/mat - 18/0.2  
UA - 4.4  
Co. (Kor) - (TM)

IRCH - PS - 17. Blasts

advised to report as  
PS is partly prepared.

Plan:

- ✓ PS - IRCH report
- ✓ Wed - 23/4/2025
- ✓ review

Surgey Seq. report of  
Siblings for MRI Sta

12/4/2025

Imml - NF1 - ASXL mutation

bridging chromo to 7<sub>2</sub> -  
cycle 5 - 9/7-15/4.

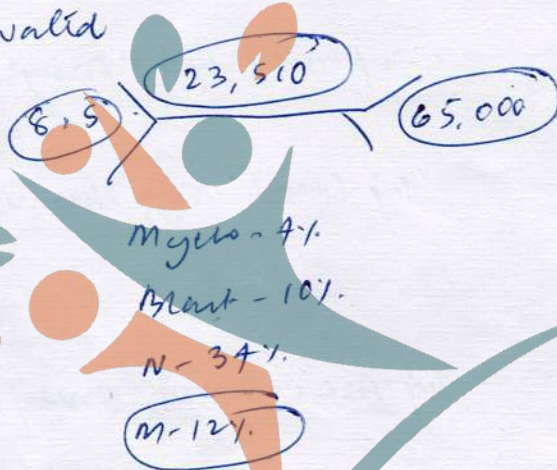
mit compliance now

- no fever

- Subjective  $\downarrow$  in spleen

• PS - awaited

• CML -



on 9/5/2025.

O/E: vitals - @

• Lm - 4cm

• Spleen - 10cm

( $\downarrow$  by 1cm)

Mayne / Labt.  
PS/CMS - NAD.  
A Life Of Dignity For All

Plan:

- collect PS report

- Repeat CBC / CF7 / RF ?

- collect  
- Sangr Seq. report of siblings  
for NF1 status

r/v - 19/4/2025

Ln

09/4/25

C/O JMML / NF1-ASXL1 mutation

→ taken course 4 Azacytidine

[9/8/25 to 15/3/25]

→ received ABC in usually

on 8/4/25

Adv

1. to proceed 5 cycle 5 Azacytidine

- 9mg Emet 1.5mg slow iv push

↓  
- 9mg AZACYTIDINE 30mg / 100mg NS  
iv over 2hr  
x 7 days

✓ D1 12/4  
✓ D2 10/4  
✓ D3 11/4  
✓ D4 12/4  
✓ D5 12/4  
✓ D6  
✓ D7

- take date from day one

- 4 septum / oral care / betadine gargles

3. Niv on 16/04/25

RF7-②

LF7-②

- Liver - 11 cm - from ACNs

- Spleen - 16 cm (normal umbilicus)

AS-Liver

Finds - pm - 3L

cm -           

Plan.

✓ RLV CMC now

✓ RLV Sangra Signuring report

FLV cm-finds

**Trulyhelp**

A Life Of Dignity For All

DR. SHARAN SHANUBHOGUE  
Senior Resident  
Paediatric Oncology  
Deptt. of Paediatrics  
All India Institute of Medical Sciences  
New Delhi- 110029

- 3rd N/U - 5/4/2025

✓ CBC / U7 / RF

| ISSUE / COMPATIBILITY LABEL                                         |                                 |
|---------------------------------------------------------------------|---------------------------------|
| Sample ID : 2025-S04330                                             | UHID: 107832517                 |
| Patient : ARSHAD HUSAN                                              |                                 |
| Patient's Blood Group : B Pos                                       |                                 |
| Hosp/Dr : AIIMS Hospital - BSC                                      |                                 |
| Pt. Hosp. Req. No.: 2024348100                                      |                                 |
| Wd-Bed No.: DAY CARE PEDS MCH GF                                    | Issue No.: 5933                 |
| Product : LD-PRBC                                                   | Issue Dt : 01/Apr/2025 02:26 PM |
| Blood Group : B Pos                                                 | Colln. Dt : 08/Mar/2025         |
| Bag ID : 2025-B09209                                                | Exp. Dt : 19/Apr/2025           |
| XMatching Report : Compatible                                       | Issued By : Chetan              |
| X-matched By : Sumesh                                               |                                 |
| Blood storage centre, Surgical block, Masjid Moth, AIIMS, New Delhi |                                 |
| Pin-110029, Approval no - S(0051)/BSC/22                            |                                 |
| Lic.No. S(0051)/BSC/22                                              |                                 |

DR. SHARAN SHANUBHOGUE  
Senior Resident  
Paediatric Oncology  
Deptt. of Paediatrics  
All India Institute of Medical Sciences  
New Delhi- 110029

5/4/2025

Immc / RF-1 - ASxG - mutation

1124 - entmole 1, 11 i siblings

Ingafiya 9/15 - 9/12

Dilnar 9/15

Asad 7/15

6/12

- Sanger Sequencing - RF-1 of sibling awaited.

- Subjective @ Size of Spleen  
no fm / ulcerating

22/2/2025

Immunology / NFI - ASxL mutation

- Extended matching awaited
- Sanger sequencing of sibling for NFI sent
- no complaints now

Completed 4 cycles → last 9/3 - 15/3

PRBC transfused on 18/3/2025.

DIE: RR. 32/m  
RS -  
conducted Sandoz

PA - Splenomegaly - till above antibodies

Plan:

- Ends - 3L → PM  
cm - awaited

- F/U Extended matching reports  
Sanger sequencing

15990  
3760

# ISSUE / COMPATIBILITY LABEL

Sample ID : 2025-S03655

Patient : ARSHAD HUSAN

Patient's Blood Group : B Pos

UHID: 107832517

Hosp/Dr : AIIMS Hospital - BSC /

Pt. Hosp. Reg. No.: 2024348100

Wd-Bed No.: DAY CARE PEDS MCH GF

Product : PRBC

Issue No.: 4997

Blood Group : B Pos

Issue Dt: 18/Mar/2025 05:58 PM

Bag ID : 2025-C02141

Colln. Dt: 05/Mar/2025

XMatching Report: Compatible

Exp. Dt: 15/Apr/2025

X-matched By: Chetan

Issued By: Chetan

Blood storage centre, Surgical block, Masjid Moth, AIIMS, New Delhi  
Pin-110029, Approval no - S(0051)/BSC/22  
Lic.No. S(0051)/BSC/22

PRBC date

→ 18/3/25

Plan

→ PRBC transfusion tomorrow

→ Anger sequencing

of sibling done  
→ report awaited

→ fu on 22/3/25

EBC IRFT/LFT



Truly help  
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| ISSUE / COMPATIBILITY LABEL                                         |                                 |
|---------------------------------------------------------------------|---------------------------------|
| Sample ID : 2025-S03110                                             |                                 |
| Patient : ARSHAD HUSAN                                              |                                 |
| Patient's Blood Group : B Pos                                       | UHID: 107832517                 |
| Hosp/Dr: AIIMS Hospital - BSC /                                     |                                 |
| Pt. Hosp. Req No.: 2024348100                                       |                                 |
| Wd-Bed No.: DAY CARE PEDS MCH GF                                    |                                 |
| Product : LD-PRBC                                                   | Issue No.: 4214                 |
| Blood Group : B Pos                                                 | Issue Dt : 06/Mar/2025 02:31 PM |
| Bag ID : 2025-B05055                                                | Colln. Dt : 06/Feb/2025         |
| XMatching Report : Compatible                                       | Exp. Dt : 20/Mar/2025           |
| X-matched By : Chetan                                               | Issued By : Pramod              |
| Blood storage centre, Surgical block, Masjid Moth, AIIMS, New Delhi |                                 |
| Pin-110029, Approval no - S(0051)/BSC/22                            |                                 |
| Lic.No. S(0051)/BSC/22                                              |                                 |

17/3/25

Counselling done.

→ Real hygiene  
→ personal hygiene  
do fresh complain  
on septum A/D.

(Photocopy of cycle A)

JMML / NFI

→ rough x 2 days  
no fever  
no vomiting  
no other complaints

received 4 cycles  
Azacitidine

1st

7/3 to 15/3

→ HR → 120

RR → 32

PPRR 1H

→ RS: AE = BS clear

Cvs. S1S2 heard

PA: soft HS

Division of Pediatric Oncology, Dept of Pediatrics, AIIMS-New Delhi

JMML Azacytidine protocol

Ref: JCO, 2019

Cycle No. ⑥

Name Aashad Age 15 mo Sex male  
 Weight 10 kg Height 75 cm BSA 0.46 m<sup>2</sup> UHID No. 107832517  
 POC No. 368124 Diagnosis JMML

| Days | Drugs                                | Date           | Signature |
|------|--------------------------------------|----------------|-----------|
| 1    | Azacytidine <u>34 mg / 100 ml NS</u> | <u>14/5/25</u> | ✓         |
| 2    | Azacytidine                          | <u>18/5/25</u> | ✓         |
| 3    | Azacytidine                          | <u>19/5/25</u> | ✓         |
| 4    | Azacytidine                          | <u>20/5/25</u> | ✓         |
| 5    | Azacytidine                          | <u>21/5/25</u> | ✓         |
| 6    | Azacytidine                          | <u>22/5/25</u> | ✓         |
| 7    | Azacytidine                          | <u>23/5/25</u> | ✓         |

Next Cycle on.....

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |

Division of Pediatric Oncology, Dept of Pediatrics, AIIMS-New Delhi  
JMML Azacytidine protocol

Ref: JCO, 2019

Cycle No. (5)

Name Ashad Age 14 mo Sex M

Weight..... Height..... BSA..... UHID No. 107832517

POC No. 368/24 Diagnosis JMML

| Days | Drugs                            | Date           | Signature          |
|------|----------------------------------|----------------|--------------------|
| 1    | Azacytidine <u>30mg/100ml NS</u> | <u>9/4/25</u>  | <u>[Signature]</u> |
| 2    | Azacytidine                      | <u>10/4/25</u> | <u>[Signature]</u> |
| 3    | Azacytidine                      | <u>11/4/25</u> | <u>[Signature]</u> |
| 4    | Azacytidine                      | <u>12/4/25</u> | <u>[Signature]</u> |
| 5    | Azacytidine                      | <u>13/4/25</u> | <u>[Signature]</u> |
| 6    | Azacytidine                      | <u>14/4/25</u> | <u>[Signature]</u> |
| 7    | Azacytidine                      | <u>15/4/25</u> | <u>[Signature]</u> |

Next Cycle on.....

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |

Division of Pediatric Oncology, Dept of Pediatrics, AIIMS-New Delhi

JMML Azacytidine protocol

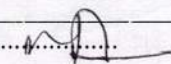
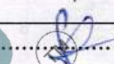
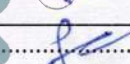
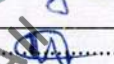
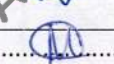
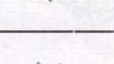
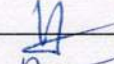
Ref: JCO, 2019

Cycle No. 4

Name Ashad Age ..... Sex .....

Weight ..... Height ..... BSA ..... UHID No. 10783252

POC No. .... Diagnosis .....

| Days | Drugs       | Date    | Signature                                                                             |
|------|-------------|---------|---------------------------------------------------------------------------------------|
| 1    | Azacytidine | 9/3/18  |    |
| 2    | Azacytidine | 10/3/18 |   |
| 3    | Azacytidine | 11/3/18 |  |
| 4    | Azacytidine | 12/3/18 |  |
| 5    | Azacytidine | 13/3/18 |  |
| 6    | Azacytidine | 14/3/18 |  |
| 7    | Azacytidine | 15/3/18 |  |

Next Cycle on .....

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |

Division of Pediatric Oncology, Dept of Pediatrics, AIIMS-New Delhi

JMML Azacytidine protocol

Ref: JCO, 2019

Cycle No. 3

05/2/25

Name Arshad Hussain Age 4.2 Sex M

Weight 9 kg Height 1.42 m BSA 0.42 m<sup>2</sup> UHID No. 107832517

POC No. Diagnosis JMML

| Days | Drugs       | Date     | Signature   |
|------|-------------|----------|-------------|
| 1    | Azacytidine | 05/02/25 | [Signature] |
| 2    | Azacytidine | 06/02/25 | [Signature] |
| 3    | Azacytidine | 07/02/25 | [Signature] |
| 4    | Azacytidine | 09/02/25 | [Signature] |
| 5    | Azacytidine | 10/2/25  | [Signature] |
| 6    | Azacytidine | 11/2/25  | [Signature] |
| 7    | Azacytidine | 12/2/25  | [Signature] |

Next Cycle on

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |

JMML Azacytidine protocol

Ref: JCO, 2019

Cycle No. 2

Name ANSHAD HUSAIN Age 11 months Sex Male

Weight 9kg Height 0.42m BSA 0.42 UHID No. 107832517

POC No. 368/24 Diagnosis JmML (NF-1 / ASXL) mutant

| Days | Drugs       | Date   | Signature |
|------|-------------|--------|-----------|
| 1    | Azacytidine | 8/12   |           |
| 2    | Azacytidine | 1/1    |           |
| 3    | Azacytidine | 2/1/25 |           |
| 4    | Azacytidine | 3/1/25 |           |
| 5    | Azacytidine | 4/1/25 |           |
| 6    | Azacytidine | 5/1/25 |           |
| 7    | Azacytidine | 6/1/25 |           |

Next Cycle on.....

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |

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JMML Azacytidine protocol

Ref: JCO, 2019

D. O. B 23/11/2009

Cycle No. ①

Name: Ashad Age: 9 mo Sex: Male

Weight: 8 kg Height: 0.42 m<sup>2</sup> BSA: 0.42 m<sup>2</sup> UHID No: 107032514

POC No: 368124 Diagnosis: JMML

| Days | Drugs                     | Date     | Signature |
|------|---------------------------|----------|-----------|
| 1    | Azacytidine 30mg/100mg NS | 23/11    |           |
| 2    | Azacytidine 30mg/100mg NS | 24/11    |           |
| 3    | Azacytidine               | 25/11    |           |
| 4    | Azacytidine               | 26/11/24 |           |
| 5    | Azacytidine               | 27/11    |           |
| 6    | Azacytidine               | 28/11    |           |
| 7    | Azacytidine               | 29/11    |           |

Next Cycle on.....

Total: 6 cycles

| Drugs       | Doses                | Route | Frequency | Days |
|-------------|----------------------|-------|-----------|------|
| Azacytidine | 75 mg/m <sup>2</sup> | IV    | OD        | 1-7  |



| S.No. 1<br>सं 1                                                                                                                                                                                                                                      |  | GOVERNMENT OF UTTAR PRADESH<br>उत्तर प्रदेश सरकार                                                                                                                               |  | FORM 5<br>BPR-5 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
| DEPARTMENT OF MEDICAL AND HEALTH<br>चिकित्सा एवं स्वास्थ्य विभाग                                                                                                                                                                                     |  | DISTRICT HOSPITAL BAHRAICH<br>ज़िला अस्पताल बहराइच                                                                                                                              |  |                 |  |
| BIRTH CERTIFICATE<br>जन्म प्रमाण पत्र                                                                                                                                                                                                                |  |                                                                                                                                                                                 |  |                 |  |
| (ISSUED UNDER SECTION 12/17 OF THE REGISTRATION OF BIRTHS & DEATHS ACT, 1969 AND RULE 8/13 OF THE UTTAR PRADESH REGISTRATION OF BIRTHS & DEATHS RULES 2002)                                                                                          |  |                                                                                                                                                                                 |  |                 |  |
| (जन्म मूल रजिस्ट्रीकरण अधिनियम, 1969 की धारा 12 / 17 तथा उत्तर प्रदेश जन्म मूल रजिस्ट्रीकरण नियम, 2002 के नियम 8/13 के अर्गेंट जारी किया गया)                                                                                                        |  |                                                                                                                                                                                 |  |                 |  |
| THIS IS TO CERTIFY THAT THE FOLLOWING INFORMATION HAS BEEN TAKEN FROM THE ORIGINAL RECORD OF BIRTH WHICH IS THE REGISTER FOR DISTRICT HOSPITAL BAHRAICH OF TAHSIL/BLOCK BAHRAICH OF DISTRICT BAHRAICH OF STATE/UNION TERRITORY UTTAR PRADESH, INDIA. |  |                                                                                                                                                                                 |  |                 |  |
| यह प्रमाणित किया जाता है निम्नलिखित सूचना जन्म के मूल अभिलेख से ली गई है जो कि जिला अस्पताल बहराइच तहसील बहराइच जिला बहराइच राज्य/संघ प्रदेश उत्तर प्रदेश, भारत के रजिस्ट्रार में उल्लिखित है।                                                       |  |                                                                                                                                                                                 |  |                 |  |
| NAME / नाम : ARSHAD HUSAIN                                                                                                                                                                                                                           |  | SEX / लिंग : MALE                                                                                                                                                               |  |                 |  |
| AADHAAR NUMBER / आधार नंबर :                                                                                                                                                                                                                         |  |                                                                                                                                                                                 |  |                 |  |
| DATE OF BIRTH / जन्म तिथि :<br>25-01-2024<br>TWENTY FIVE JANUARY TWO THOUSAND TWENTY FOUR                                                                                                                                                            |  | PLACE OF BIRTH / जन्म स्थान :<br>DISTRICT HOSPITAL                                                                                                                              |  |                 |  |
| NAME OF MOTHER / माता का नाम :<br>PARMEEN JAHAN                                                                                                                                                                                                      |  | NAME OF FATHER / पिता का नाम :<br>SADDAM HUSAIN                                                                                                                                 |  |                 |  |
| AADHAAR NUMBER OF MOTHER / आधार नंबर :<br>XXXXXXXX-1092                                                                                                                                                                                              |  | AADHAAR NUMBER OF FATHER / आधार नंबर :<br>XXXXXXXX-7249                                                                                                                         |  |                 |  |
| ADDRESS OF PARENTS AT THE TIME OF BIRTH OF THE CHILD /<br>बच्चे के जन्म के समय माता-पिता का पता :<br>ADDRESS GHASIPUR FAKHARPUR TEHSIL KASARGANJ DISTRICT<br>BAHRAICH UTTAR PRADESH-271902H                                                          |  | PERMANENT ADDRESS OF PARENTS / माता-पिता के स्थायी पता :<br>ADDRESS GHASIPUR FAKHARPUR TEHSIL KASARGANJ DISTRICT<br>BAHRAICH UTTAR PRADESH-271902H                              |  |                 |  |
| REGISTRATION NUMBER / पंजीकरण संख्या :<br>B202409490347001950                                                                                                                                                                                        |  | DATE OF REGISTRATION / पंजीकरण तारीख :<br>20-10-2024                                                                                                                            |  |                 |  |
| REMARKS (IF ANY) / टिप्पणी:                                                                                                                                                                                                                          |  |                                                                                                                                                                                 |  |                 |  |
| DATE OF ISSUE / जारी करने की तिथि :<br>20-10-2024                                                                                                                                                                                                    |  |                                                                                                                                                                                 |  |                 |  |
| Updated On : 20-10-2024 04:31:35                                                                                                                                                                                                                     |  |                                                                                                                                                                                 |  |                 |  |
|                                                                                                                                                                   |  | SIGNATURE OF ISSUING AUTHORITY / जारी करने वाला प्राधिकारी :<br>REGISTRAR (BIRTH & DEATH)<br>रजिस्ट्रार (जन्म एवं मृत्यु)<br>DISTRICT HOSPITAL BAHRAICH<br>ज़िला अस्पताल बहराइच |  |                 |  |
| *This QR code can be used to check the authenticity of the certificate*                                                                                                                                                                              |  |                                                                                                                                                                                 |  |                 |  |
| *ENSURE REGISTRATION OF EVERY BIRTH AND DEATH / प्रत्येक जन्म एवं मृत्यु का पंजीकरण सुनिश्चित करें*                                                                                                                                                  |  |                                                                                                                                                                                 |  |                 |  |



All India Institute of Medical Sciences, New Delhi  
Department of Transplant Immunology & Immunogenetics  
Tel: 26594638, 26594446 email: [tii.hla.aiims@gmail.com](mailto:tii.hla.aiims@gmail.com)

HLA No: 24476B  
UHID No: 107832517

CLINICAL IMMUNOGENETICS LABORATORY

HISTOCOMPATIBILITY TESTING REPORT

Patient: Arshad Hussain

Hospital : AIIMS/Pediatrics

Diagnosis: Others

Physician I/C : Dr. Rachna Seth

Date of sample: 20/01/2025

HLA CLASS I & II

Time-10:25 AM

| Name<br>Age/Sex            | Technique | HLA-A      | HLA-C      | HLA-B      | HLA-<br>DRB1 | HLA-<br>DQA1 | HLA-<br>DQB1 |
|----------------------------|-----------|------------|------------|------------|--------------|--------------|--------------|
| Arshad Hussain<br>10 mon/M | PCR-SSO   | *30<br>*68 | *06<br>*12 | *13<br>*35 | *07<br>*11   | *02<br>*05   | *02<br>*03   |
| Dilnaz<br>7/F              | PCR-SSO   | *30<br>*33 | *06<br>*07 | *13<br>*44 | *07<br>*07   | *02<br>*02   | *02<br>*02   |
| Jugarafiya<br>9/F          | PCR-SSO   | *01<br>*68 | *06<br>*12 | *57<br>*35 | *07<br>*11   | *02<br>*05   | *03<br>*03   |
| Asad<br>7/M                | PCR-SSO   | *30<br>*33 | *06<br>*07 | *13<br>*44 | *07<br>*07   | *02<br>*02   | *02<br>*02   |

Remarks:

1. The patient Arshad Hussain Shares nine out of twelve HLA-alleles with Jugarafiya and six out of twelve HLA-alleles with Dilnaz and Asad tested at HLA-Class I (A, C & B) and Class II (DRB1, DQA1, & DQB1) regions.

Date: 08/02/2025  
Time: 10:15 AM

Scientist

Faculty  
(Dr Uma Kanga)

Head of the Department  
(Prof D K Mitra)

\*Please quote your HLA no. for any further enquiries

DEPARTMENT OF CARDIOLOGY, CARDIOTHORACIC CENTRE  
ALL INDIA INSTITUTE OF MEDICAL SCIENCE, NEW DELHI-110029

|                                      |                            |                            |                          |
|--------------------------------------|----------------------------|----------------------------|--------------------------|
| <b>NAME</b> : Arshad Husan           | <b>AGE</b> : 1 Y           | <b>SEX</b> : M             | <b>DATE</b> : 22/05/2025 |
| <b>ECHO No</b> :                     | <b>CV No</b> :             | <b>UHID No</b> : 107832517 | <b>C.R. No</b> :         |
| <b>HEIGHT</b> : cm                   | <b>WEIGHT</b> : kg         | <b>BSA</b> : m2            | <b>Ref. Phy</b> :        |
| <b>Quality of Imaging</b> : Adequate | <b>Referring Diagnosis</b> |                            |                          |
| <b>Done By Dr</b> : Saurav           | <b>Checked By Dr</b> :     |                            |                          |

**MITRAL VALVE**

|                   |                              |                                            |                                     |                                        |                                   |
|-------------------|------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|-----------------------------------|
| <b>Morphology</b> | <b>AML-</b>                  | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Thickening | <input type="checkbox"/> Calcification | <input type="checkbox"/> Flutter  |
|                   |                              | <input type="checkbox"/> Vegetation        | <input type="checkbox"/> Prolapse   | <input type="checkbox"/> SAM           | <input type="checkbox"/> Doming   |
|                   | <b>PML-</b>                  | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Thickening | <input type="checkbox"/> Calcification | <input type="checkbox"/> Prolapse |
|                   |                              | <input type="checkbox"/> Paradoxical       | <input type="checkbox"/> Motion     | <input type="checkbox"/> Fixed         |                                   |
| <b>Doppler</b>    | <b>Subvalvular Deformity</b> | <input type="checkbox"/> Present           | <input type="checkbox"/> Absent     |                                        |                                   |
|                   |                              | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Abnormal   |                                        |                                   |
|                   | <b>Mitral Stenosis</b>       | <input type="checkbox"/> Present           | <input type="checkbox"/> Absent     | <b>RR Interval</b>                     | msec                              |
|                   | <b>EDG</b>                   | mmHg                                       | <b>MDG</b>                          | mmHg                                   | <b>MVA</b> cm2                    |
|                   | <b>Mitral regurgitation</b>  | <input type="checkbox"/> Absent            | <input type="checkbox"/> Trivial    | <input type="checkbox"/> Mild          |                                   |
|                   |                              | <input type="checkbox"/> Moderate          | <input type="checkbox"/> Severe     |                                        |                                   |

**Remark**
**TRICUSPID VALVE**

|                   |                                            |                                     |                                     |                                        |
|-------------------|--------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
| <b>Morphology</b> | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Atresia    | <input type="checkbox"/> Thickening | <input type="checkbox"/> Calcification |
|                   | <input type="checkbox"/> Prolapse          | <input type="checkbox"/> Vegetation | <input type="checkbox"/> Doming     |                                        |
| <b>Doppler</b>    | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Abnormal   |                                     |                                        |
|                   | <b>Tricuspid Stenosis</b>                  | <input type="checkbox"/> Present    | <input type="checkbox"/> Absent     | <b>RR Interval</b> msec                |
|                   | <b>EDG</b>                                 | mmHg                                | <b>MDG</b>                          | mmHg                                   |
|                   | <b>Tricuspid regurgitation</b>             | <input type="checkbox"/> Absent     | <input type="checkbox"/> Trivial    | <input type="checkbox"/> Mild          |
|                   | <input type="checkbox"/> Moderate          | <input type="checkbox"/> Severe     |                                     |                                        |
|                   | <b>Fragmented Signals Velocity</b>         | m/sec                               | <b>Pred.RVSP-RAP+</b>               | mmHg                                   |

**Remark**
**PULMONARY VALVE**

|                   |                                            |                                   |                                     |                                 |
|-------------------|--------------------------------------------|-----------------------------------|-------------------------------------|---------------------------------|
| <b>Morphology</b> | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Atresia  | <input type="checkbox"/> Thickening | <input type="checkbox"/> Doming |
|                   | <input type="checkbox"/> Vegetation        |                                   |                                     |                                 |
| <b>Doppler</b>    | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Abnormal |                                     |                                 |
|                   | <b>Pulmonary Stenosis</b>                  | <input type="checkbox"/> Present  | <input type="checkbox"/> Absent     |                                 |
|                   | <b>Level PSG</b>                           | mmHg                              | <b>Pulmonary annulus</b>            | 0 mm                            |
|                   | <b>Pulmonary Regurgitation</b>             | <input type="checkbox"/> Present  | <input type="checkbox"/> Absent     |                                 |
|                   | <b>Early diastolic gradient</b>            | mmHg                              | <b>End diastolic gradient</b>       | mmHg                            |

**Remark**

NAME : Arshad Husan

AGE : 1 Y

SEX : M

DATE : 22/05/2025

ECHO No :

CV No :

UHID No : 107832517

C.R. No :

**AORTIC VALVE****Morphology**☒ Normal☐ Thickening☐ Calcification☐ Restricted Opening☐ Flutter☐ Vegetation**Doppler**☒ Normal☐ Abnormal**Aortic Stenosis**☐ Present☐ Absent**Level PSG**

mm Hg

**Aortic annulus**

mm

**Aortic Regurgitation**☐ Absent☐ Trivial☐ Mild☐ Moderate☐ Severe

Remark

**MEASUREMENTS****Normal Values****Normal Values**

Aorta 16.00 (21-22 mm/m2)

LA es 21.00 (21-22 mm/m2)

LV es 19.00 (10-19 mm/m2)

LV ed 31.00 (19-32 mm/m2)

IVS ed 5.00 (06-10 mm)

PW(LV)ed 5.00 (07-11 mm)

RV ed (4-14 mm/m2)

RV Anterior wall (upto 5mm)

EF 60.00 (62-80%)

**IVS Motion**☒ Normal☐ Flat☐ Paradoxical**IAS**

E (50-100 cm/s)

A

(30-110)

E/A

(0.8-2)

Lat e' (&gt;10 cm/s)

Med e'

(&gt;7 cm/s)

E/e'

(&lt; 14)

LAVI (&gt;34 m/M2)

TR vel

(&lt; 2.8 m/s)

GLS

(16-20)

Remark

**CHAMBERS****LV**☒ Normal☐ Enlarged☐ Clear☐ Thrombus☐ Hypertrophy☐ Contraction☐ Reduced

Normal

**LA**☒ Normal☐ Enlarged☐ Clear☐ Thrombus**RA**☒ Normal☐ Enlarged☐ Clear☐ Thrombus**RV**☒ Normal☐ Enlarged☐ Clear☐ Thrombus

Remark

**PERICARDIUM**☒ Normal☐ Thickening☐ Calcification☐ Effusion

Remark Template

Normal Pediatric

Situs solitus, levocardia, AV-VA concordance, NREGA, Normal systemic and pulmonary venous drainage,  
 No ASD/VSD/PDA, Normal Valves, Normal coronaries, Confluent branch PAs, Left aortic arch, No coarctation  
 Normal Biventricular function, No PAH

**DIAGNOSIS**

NORMAL STUDY.

## DNA TEST REPORT— MEDGENOME LABORATORIES

Order ID/Sample ID: **1237281/ 9034404; 9034402; 9034399**  
 Full Name/Ref no: **Asad (VT-304 B)**  
**Dilnaz (VT-304 A)**  
**Jugrafiya (VT-304)**  
 Referring Clinician: **Dr. Neerja Gupta**  
**All India Institute of Medical Sciences - Delhi**  
 Test Requested: **Additional family member (investigational) testing-1 variants (MGM277)**

Sample Type: **Peripheral Blood in EDTA**  
 Date of Sample Collection: **11-03-2025**  
 Date of Sample Receipt: **22-03-2025**  
 Order date: **22-03-2025**  
 Date of report: **16-04-2025**

## CLINICAL DIAGNOSIS / SYMPTOMS / HISTORY

The index patient, Arshad is a case of Juvenile myelomonocytic leukemia and was found to harbor a likely pathogenic variant, c.185del in the *NF1* gene. Siblings of the index patient are being evaluated for the same variant.

## RESULT SUMMARY

Analysis for the variants detected by Next Generation Sequencing in the *NF1* gene of the index patient, Arshad

| Sl. no. | Sample ID | Name, Gender, Age          | Relationship to the index patient | Gene Name  | Exon   | Variant reported in the index patient              | Variant detected in family member* | Clinical condition of family member |
|---------|-----------|----------------------------|-----------------------------------|------------|--------|----------------------------------------------------|------------------------------------|-------------------------------------|
| 1.      | 9034404   | Asad, Male, 7 years        | Brother                           |            |        |                                                    | Absent                             | Asymptomatic                        |
| 2.      | 9034402   | Dilnaz, Female, 7 years    | Sister                            | <i>NF1</i> | Exon 2 | chr17:g.29483121AT>A; c.185del (HET); (p.Leu62Ter) | Absent                             | Asymptomatic                        |
| 3.      | 9034399   | Jugrafiya, Female, 9 years | Sister                            |            |        |                                                    | Absent                             | Asymptomatic                        |

\* The variant analysis in Sanger sequencing is based on the *NF1* gene reference sequence NM\_001042492.3 (GRCh37) [1]. The exon number and nucleotide numbers will differ based on the reference file chosen and the database used.

## INTERPRETATION

A likely pathogenic variant in exon 2 of the *NF1* gene (chr17:g.29483121AT>A;c.185del;p.Leu62Ter) was detected in the index patient by NGS (Tested at Lifecell Diagnostics; Lab ID: 41000207274).

The same likely pathogenic variant is not detected in the asymptomatic siblings of the index patient, Asad (Fig.1A), Dilnaz (Fig.1B) and Jugrafiya (Fig.1C).

The index sample which is positive for the variant in exon 2 of the *NF1* gene (chr17:g.29483121AT>A) has not been tested by Sanger sequencing in MedGenome Labs Ltd. Hence the results obtained need to be carefully correlated. Testing of the index samples by the same method in parallel to the other family members is recommended for confirmation.

## RECOMMENDATION

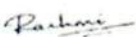
Genetic Counselling is recommended to interpret the significance of these results.

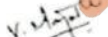
## TEST METHODOLOGY

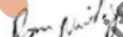
Exon 2 of the *NF1* gene was PCR-amplified and the products were sequenced using Sanger sequencing. In case of mosaicism in leucocytes, the detection limits of Sanger sequencing for presence of variant are ~20%. The sequence was aligned to available reference sequence NM\_001042492.3 [1] to detect variants using variant analysis software programs. Variant classification follows the tenets of American College of Medical Genetics (ACMG) guidelines [2].

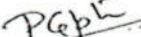
## DISCLAIMER

1. This is a laboratory developed test and the development and the performance characteristics of this test was determined by MedGenome.
2. Please note that the tests are performed only after approval of referring/ ordering clinician/physician. Above recommendations /results should not be viewed as only source of information on which treatment or other clinical decisions are made. Clinical correlation is highly recommended.
3. The classification of variants of unknown significance can change over time and MedGenome cannot be held responsible for this. Please contact MedGenome later to inquire about any changes.
4. This sanger custom test is not a clinically validated assay for each and every primer set. No form of test can guarantee 100% accuracy. This assay is no such exception, and it has some Inherent pitfalls.
5. The PCR based assay will not amplify genic regions outside primer binding site, may not detect the exact size for the deletion or duplication which is more than 50bp.
6. Pseudogenes can present challenges during sequencing and analysis, which may impact the accuracy and interpretation of the results.
7. Though PCR is a highly sensitive and specific technique, performance may vary based on several factors including allelic dropout & preferential amplification (Chance phenomenon) causing a potential source of misdiagnosis for both dominant and recessive diseases. About 0.44% of total cases are susceptible to allele dropout phenomenon, which can lead to misdiagnosis [3].
8. Testing of affected/carrier index/proband samples parallelly with test samples is highly recommended to rule out false negative/positive results.
9. The accuracy of the results is based on the assumption that samples received were correctly identified, family relationships are true and clinical diagnosis of relatives is correct.
10. In a very few cases genetic tests may not show the correct results leading to false positives and negatives; e.g. because of the quality of the sample provided to MedGenome. In case where any test provided by MedGenome fails for unforeseeable or unknown reason that cannot be influenced by MedGenome in advance, MedGenome shall not be responsible for the incomplete, potentially misleading, or even wrong result of testing if such could not be recognized by MedGenome in advance.
11. Negative results do not negate the absence of mutations that are not covered by the test.
12. The report shall be generated within turnaround time (TAT), however, such TAT may vary depending upon the complexity of test(s) requested. MedGenome under no circumstances will be liable for any delay beyond afore mentioned TAT.
13. If results obtained do not match the clinical findings, additional testing should be considered as per the referring clinician's recommendations.
14. MedGenome Labs hereby recommends the patients and/ or guardians of the patients, as the cause may be, to take assistance of the clinician or a certified physician or doctor, to interpret the report(s) thus generated. MedGenome hereby disclaims all liability arising in connection with the report (s).

  
**Ms. Rashmi Rasalkar**  
Associate Scientist – Lab Operations

  
**Mr. Manjunath V**  
Senior Manager – Lab Operations

  
**Dr. Ram Murthy Anjanappa**  
PhD Senior Scientist

  
**Dr. Pragya Gupta**  
MBBS-MD Path. PDF Molecular Genetics (TMCK)  
Senior Molecular Pathologist & Clinical Head

## REFERENCES

1. ENSEMBL: <http://www.ensembl.org>
2. Green R. C., et al., American College of Medical Genetics and Genomics. ACMG recommendations for reporting of incidental findings in clinical exome and genome sequencing. Genet Med. 2013 Jul;15(7):565-74.
3. Blais, Jonatan et al. Risk of Misdiagnosis Due to Allele Dropout and False-Positive PCR Artifacts in Molecular Diagnostics. The Journal of Molecular Diagnostics, Volume 17, Issue 5, 505 – 514.

## ANNEXURE-I

**Fig. 1: Sequence chromatogram and alignment to the reference sequence showing the variant in Exon 2 of the *NF1* gene (chr17:g.29483121AT>A; c.185del; p.Leu62Ter).**

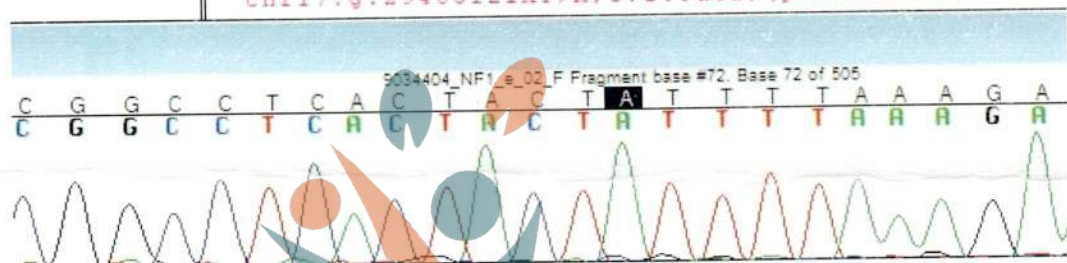
### A. 9034404 – Brother of the index patient (Asad)

|                    |                                                    |
|--------------------|----------------------------------------------------|
| NF1_e.02           | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTG |
| 9034404_NF1_e.02_F | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTG |

|                                            |                         |                             |     |     |     |
|--------------------------------------------|-------------------------|-----------------------------|-----|-----|-----|
| 2 fragment bases at consensus position 102 | 80                      | 90                          | 100 | 110 | 120 |
|                                            | TGGTTATAAGCGGCCTCACTACT | ATTTTAAAGAATGTTAACAATATGGTG |     |     |     |

chr17:g.29483121AT>A; c.185del; (p.Leu62Ter)



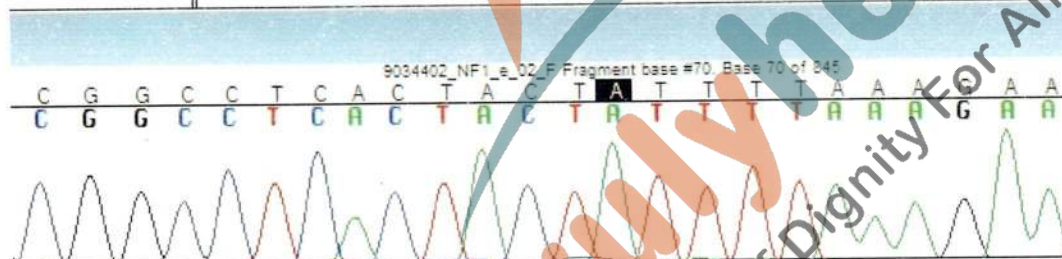
### B. 9034402 – Sister of the index patient (Dilnaz)

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| NF1_e.02           | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTGA |
| 9034402_NF1_e.02_F | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTGA |

|                                            |                         |                              |     |     |     |
|--------------------------------------------|-------------------------|------------------------------|-----|-----|-----|
| 2 fragment bases at consensus position 103 | 80                      | 90                           | 100 | 110 | 120 |
|                                            | TGGTTATAAGCGGCCTCACTACT | ATTTTAAAGAATGTTAACAATATGGTGA |     |     |     |

chr17:g.29483121AT>A; c.185del; (p.Leu62Ter)



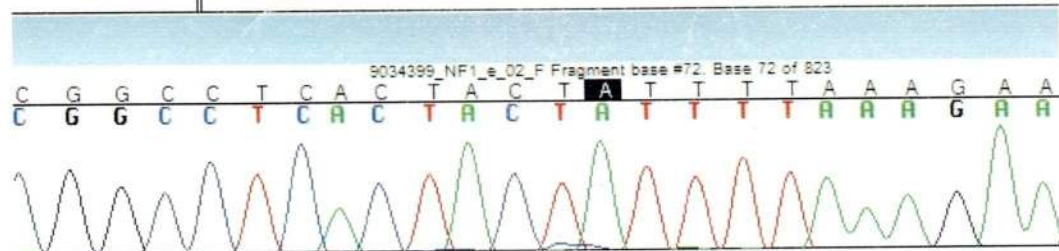
### C. 9034399 – Sister of the index patient (Jugrafiya)

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| NF1_e.02           | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTGA |
| 9034399_NF1_e.02_F | TGGTTATAAGCGGCCTCACTACTATTTTAAAGAATGTTAACAATATGGTGA |

|                                            |                         |                              |     |     |     |
|--------------------------------------------|-------------------------|------------------------------|-----|-----|-----|
| 2 fragment bases at consensus position 103 | 80                      | 90                           | 100 | 110 | 120 |
|                                            | TGGTTATAAGCGGCCTCACTACT | ATTTTAAAGAATGTTAACAATATGGTGA |     |     |     |

chr17:g.29483121AT>A; c.185del; (p.Leu62Ter)



----- End of Report -----



अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली  
All India Institute Of Medical Sciences, New Delhi

UHID: 107832517 Sex: Male  
Patient Name: Mr ARSHAD HUSAN Sample Received Date: 01-Jul-2025 13:31 PM  
Age: 1Y 5m Department: Paediatrics  
Lab Name: Dept of Laboratory Medicine Lab Sub Centre: Smart Lab New OPD Block  
Reg Date: 01-Jul-2025 11:58 AM Sample Collection Date: 01-Jul-2025 10:10 AM  
Recommended By: Lab Reference No: 2516022736

Sample Details : LC0107251094

Sample Type : Serum

Report

BIOCHEMISTRY

| Test Name (Methodology)                     | Result | UOM    | Reference |
|---------------------------------------------|--------|--------|-----------|
| Urea (Urease/GLDH)                          | 24     | mg/dL  | 17 - 49   |
| Creatinine (Jaffe compensated)              | 0.1    | mg/dL  | 0.2 - 0.4 |
| Uric Acid (Uricase Colorimetric)            | 5.0    | mg/dL  | 3.4 - 7.0 |
| Calcium (5-Nitro-5'-methyl-BAPTA)           | 8.5    | mg/dL  | 9-11      |
| Phosphate (Phosphomolybdate Reduction)      | 5.7    | mg/dL  | 2.5-4.5   |
| Sodium (ISE (indirect))                     | 136    | mmol/L | 135 - 145 |
| Potassium (ISE (indirect))                  | 4.4    | mmol/L | 3.5-5.1   |
| Chloride (ISE (indirect))                   | 102    | mmol/L | 98-107    |
| Bilirubin (T) (Colorimetric diazo)          | 0.92   | mg/dL  | 0 - 1     |
| Bilirubin (D) (Diazo Gen.2 Jendrassik-Grof) | 0.34   | mg/dL  | 0 - 0.2   |
| Bilirubin (I) (Calculated)                  | 0.58   | mg/dL  | 0 - 0.9   |
| ALT (IFCC without pyridoxal phosphate)      | 71     | U/L    | 0 - 26    |
| AST (IFCC without pyridoxal phosphate)      | 107    | U/L    | <=40      |
| ALP (PNPP, AMP Buffer - IFCC)               | 179    | U/L    | 142 - 335 |
| Total protein (Biuret Method)               | 7.2    | g/dL   | 5.6 - 7.5 |
| Albumin (Bromocresol Green (BCG))           | 3.2    | g/dL   | 3.8 - 5.4 |
| Globulin (Calculated)                       | 4.0    | g/dL   | 3.0 - 3.7 |
| A/G ratio (Calculated)                      | 0.8    |        | 0.8-2.0   |

-----End of Report-----

Dr. Sudip Kumar Datta  
(MD Biochemistry)

Dr. Tushar Sehgal  
(DM Hematopathology)

Dr. Suneeta Meena  
(MD Microbiology)

Dr. Subhamon Bhattacharjee  
01-Jul-2025 16:52



अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली  
All India Institute Of Medical Sciences, New Delhi

UHID: 107832517 Sex: Male  
Patient Name: Mr ARSHAD HUSAN Sample Received Date: 24-Jun-2025 15:32 PM  
Age: 1Y 5m Department: DEPT. OF EMERGENCY MEDICINE  
Lab Name: Dept of Laboratory Medicine Lab Sub Centre: Smart Lab New OPD Block  
Reg Date: 24-Jun-2025 15:32 PM Sample Collection Date: 24-Jun-2025 13:24 PM  
Recommended By: Dr. Rakesh Yadav Lab Reference No: 2515987609

Sample Details : LH24062501749

Sample Type : Whole Blood

Report

HEMATOLOGY

| Test Name (Methodology)          | Result | UOM                | Reference   |
|----------------------------------|--------|--------------------|-------------|
| Hb (SI S-photometry)             | 9.10   | g/dL               | 11.0 - 14.0 |
| Hematocrit (Direct Measure)      | 29.30  | %                  | 30 - 38     |
| RBC count (Impedance)            | 3.78   | $10^6/\mu\text{L}$ | 3.9 - 5.1   |
| WBC count (Fluo. flow cytometry) | 27.50  | $10^3/\mu\text{L}$ | 6.0 - 16.0  |
| Platelet count (Impedance)       | 87.00  | $10^3/\mu\text{L}$ | 200 - 550   |
| MCV (Calculated)                 | 77.50  | fL                 | 72 - 84     |
| MCH (Calculated)                 | 24.10  | pg                 | 25 - 29     |
| MCHC (Calculated)                | 31.10  | g/dL               | 32 - 36     |
| RDW-CV (Calculated)              | 27.50  | %                  | 11.6 - 14   |
| Neutro (Fluo. flow cytometry)    | ---    | %                  | 30-60%      |
| Lympho (Fluo. flow cytometry)    | ---    | %                  | 29-65%      |
| Eosino (Fluo. flow cytometry)    | ---    | %                  | 1-4%        |
| Mono (Fluo. flow cytometry)      | ---    | %                  | 2-10%       |
| Baso (Fluo. flow cytometry)      | ---    | %                  | 0-1%        |
| NRBC                             | 29     | %                  |             |
| Neutro - Abs (Calculated)        | ---    | $10^3/\mu\text{L}$ | 1.0-7.0     |
| Lympho- Abs (Calculated)         | ---    | $10^3/\mu\text{L}$ | 3.5-11      |
| Eosino - Abs (Calculated)        | ---    | $10^3/\mu\text{L}$ | 0.1 - 1.0   |
| Mono - Abs (Calculated)          | ---    | $10^3/\mu\text{L}$ | 0.2 - 1.0   |
| Baso - Abs (Calculated)          | ---    | $10^3/\mu\text{L}$ | 0.02 - 0.1  |

Remarks: RBC- Severe anisopoikilocytosis with microcytic hypochromic RBCs. Target cells 1+, Polychromatophil cells 3+, pencil cells 2+, tear drop cells 2+. nRBCs seen. PLT- As given. TLC- As given DLC: Myelo: 06%, Metamyelo: 03%, Neutro: 46%, Lympho: 21%, Mono: 13%, Eosino: 07%, Basophil: 04%. No Hemoparasite seen. Impression: Microcytic Hypochromic anemia. Advice: 1. Iron studies. 2. Reticulocyte count. 3. Stool Examination for ova and cyst. 4. Hemoglobin HPLC (To rule out Beta Thalassemia / other Hemoglobinopathy if clinically indicated). I/V/O left shift, possibility of LEBP must be ruled out; consider BM examination, if clinically indicated. Kindly correlate clinically.

-----End of Report-----



अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली  
All India Institute Of Medical Sciences, New Delhi

UHID: 107832517 Sex : Male  
Patient Name : Mr ARSHAD HUSAN Sample Received Date : 01-Jul-2025 12:41 PM  
Age : 1Y 5m Department : Paediatrics  
Lab Name : Dept of Laboratory Medicine Lab Sub Centre : Smart Lab New OPD Block  
Reg Date : 01-Jul-2025 12:41 PM Sample Collection Date : 01-Jul-2025 10:11 AM  
Recommended By: Lab Reference No: 2516023774

Sample Details : LH01072500677

Sample Type : Whole Blood

Report

HEMATOLOGY

| Test Name (Methodology)          | Result | UOM                | Reference   |
|----------------------------------|--------|--------------------|-------------|
| Hb (SLS-photometry)              | 7.10   | g/dL               | 11.0 - 14.0 |
| Hematocrit (Direct Measure)      | 24.30  | %                  | 30 - 38     |
| RBC count (Impedance)            | 2.99   | $10^6/\mu\text{L}$ | 3.9 - 5.1   |
| WBC count (Fluo. flow cytometry) | 19.90  | $10^3/\mu\text{L}$ | 6.0 - 16.0  |
| Platelet count (Impedance)       | 95.00  | $10^3/\mu\text{L}$ | 200 - 550   |
| MCV (Calculated)                 | 81.30  | fL                 | 72 - 84     |
| MCH (Calculated)                 | 23.70  | pg                 | 25 - 29     |
| MCHC (Calculated)                | 29.20  | g/dL               | 32 - 36     |
| RDW-CV (Calculated)              | 28.40  | %                  | 11.6 - 14   |
| Neutro (Fluo. flow cytometry)    | ---    | %                  | 50-60%      |
| Lympho (Fluo. flow cytometry)    | ---    | %                  | 29-65%      |
| Eosino (Fluo. flow cytometry)    | ---    | %                  | 1-4%        |
| Mono (Fluo. flow cytometry)      | ---    | %                  | 2-10%       |
| Baso (Fluo. flow cytometry)      | ---    | %                  | 0-1%        |
| NRBC                             | 26     | %                  |             |
| Neutro - Abs (Calculated)        | ---    | $10^3/\mu\text{L}$ | 1.0-7.0     |
| Lympho- Abs (Calculated)         | ---    | $10^3/\mu\text{L}$ | 3.5-11      |
| Eosino - Abs (Calculated)        | ---    | $10^3/\mu\text{L}$ | 0.1 - 1.0   |
| Mono - Abs (Calculated)          | ---    | $10^3/\mu\text{L}$ | 0.2 - 1.0   |
| Baso - Abs (Calculated)          | ---    | $10^3/\mu\text{L}$ | 0.02 - 0.1  |

Remarks: RBC- Moderate anisopoikilocytosis with microcytic hypochromic RBCs. Polychromatophil cells 3+, tear drop cells 1+, few fragmented cells seen. nRBCs present. PLT- As given. TLC- As given  
DLC: Blast-02%, Myelo: 04%, Metamyelo: 02%, Neutro: 41%, Lympho: 32%, Mono: 12%, Eosino: 05%, Basophil: 02%. No Hemoparasite seen. Impression: Microcytic Hypochromic anemia with LEBP.  
Advice: 1. Iron studies. 2. Reticulocyte count. 3. Hemoglobin HPLC (To rule out Beta Thalassemia / other Hemoglobinopathy if clinically indicated). I/V/O LEBP consider BM examination, if clinically indicated. Kindly correlate clinically and advised follow up.

-----End of Report-----



AX-UPGOVT-S



Unread

6:00 pm

महोदय/महोदया अरशद , मुख्यमंत्री  
विवेकाधीन कोष से आर्थिक सहायता रू  
5000000 की स्वीकृति शासनादेश  
सं.एफ-183 / मु.म.का-लेखा-2(वि.को.) /  
2025 दिनांक 25/06/2025 द्वारा  
ई-पेमेंट संख्या-RBI1772538463265  
दिनांक 25/06/2025 के माध्यम से  
अस्पताल निदेशक, अखिल भारतीय  
आयुर्विज्ञान (एम्स) को भेज दी गयी है,  
जिसकी संदर्भ संख्या  
14180250013799 तथा अस्पताल  
पंजीकरण संख्या 107832517 है। अधिक  
जानकारी हेतु वेबसाइट  
jansunwai.up.nic.in पर जायें।

6:00 pm

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प्रधान मंत्री कार्यालय  
PRIME MINISTER'S OFFICE

नई दिल्ली-110011  
New Delhi-110011

NO.82(2074)/2025-PMF

18-Feb-2025

58/25-26

To,

SH. SADDAM HUSAIN  
S/O SH. ALI HASAN,  
GHASIPUR, FAKHARPUR, KAISGANJ,  
BAHRAICH, UTTAR PRADESH,

Dear Sir,

कृपया अपने दिनांक nil के पत्र का संदर्भ लें, जो Shri Karan Bhushan Singh, MP के दिनांक 29/12/2024 के पत्र के जरिए प्राप्त हुआ है और जो MASTER ARSHAD के Cancer Treatment के उपचार के लिए आर्थिक सहायता के संबंध में है (अस्पताल की संदर्भ संख्या 107832517)। प्रधान मंत्री ने शल्य चिकित्सा/उपचार में होने वाले खर्च की अंशतः पूर्ति करने के लिए प्रधान मंत्री राष्ट्रीय राहत कोष से (₹300000.0/- रुपए मात्र) का अनुदान स्वीकृत किया है, जो इस पृष्ठ के पीछे उल्लिखित शर्तों के अनुसार होगा। ₹300000.0/- रुपए मात्र के इस स्वीकृत अनुदान को आई डी एफ सी बैंक, बाराखंबा रोड़, नई दिल्ली द्वारा यू.टी.आर. संख्या IDFB52025021500505280 दिनांक 15/02/2025 एन.ई.एफ.टी/आर.टी.जी.एस. के माध्यम से सीधे अस्पताल को भेज दिया गया है।

Please refer to your letter dated nil received through Shri Karan Bhushan Singh, MP vide letter dated 29/12/2024, regarding financial assistance for Cancer Treatment of MASTER ARSHAD.(Hosp No. 107832517). The Prime Minister has sanctioned a grant of ₹300000.0/- from the Prime Minister's National Relief Fund to partially defray the expenses involved in the surgery/treatment subject to the conditions mentioned overleaf. The sanctioned grant of ₹300000.0/- has directly been remitted to the hospital by the IDFC Bank, Barakhamba Road, New Delhi vide UTR No. IDFB52025021500505280 dated 15/02/2025 through NEFT/RTGS.

2. जारी की गई अनुदान राशि, अनुमेय अवधि के दौरान किये गये खर्च तक ही उपयोग में लाई जा सकती है, और यह स्वीकृत अनुदान राशि की अधिकतम होगी। प्रधान मंत्री कार्यालय में रोगी/आवेदक का अनुरोध प्राप्त होने की तारीख 08/01/2025 है। इस स्वीकृति पत्र की वैधता जारी होने की तारीख से दो वर्ष तक है। किन्तु अस्पताल स्वीकृति पत्र के जारी होने की तारीख से एक वर्ष के भीतर उपचार शुरू करेगा।

Released grant may be utilized upto the expenditure incurred during the admissible period subject to maximum of the grant sanctioned. The date of receipt of patient's/applicant's request in PMO is 08/01/2025. The validity of this sanction letter is for a period of two years from the date of issue. However, the hospital should commence treatment within one year from the date of issue of this sanction letter.

3. मानव अंग प्रतिरोपण अधिनियम, 1994 में सन्निहित अनुदेशों / दिशानिर्देशों तथा अंग प्रतिरोपण को प्रशासित करने वाले अन्य नियमों, जहां कहीं लागू हों, का अनुपालन किया जाएगा।

Instructions/guidelines contained in the Transplantation of Human Organs Act, 1994 and subsequent amendments and other rules governing organ transplants, wherever applicable shall be adhered to.

Yours Faithfully

(Pradeep Kumar Srivastava)  
Under Secretary (Funds)



सत्यमेव जयते

प्रधान मंत्री  
Prime Minister

नई दिल्ली

दिनांक 20/02/2025

प्रिय MASTER ARSHAD

आपको गंभीर बीमारी से मुक्त करने के लिए Cancer Treatment की अनिवार्यता हो गई है, ऐसा ज्ञात हुआ है।

आपकी आर्थिक स्थिति इस आपदा की पहुँच से बाहर है यह मैं समझ सकता हूँ। इसलिए प्रधानमंत्री राष्ट्रीय राहत कोष से आपकी चिकित्सा हेतु खर्च की अंशतः पूर्ति के लिए सहायता के रूप में रु० 300000.00 (Rupees Three Lakh Only) की राशि सैद्धांतिक रूप से मंजूर की गई है।

आप के परिवार की निरसहाय परिस्थिति में सरकार आपकी सहायक बनी, किन्तु यह राशि जनता के द्वारा दिये गये सहयोग में से प्रदान की गई है। आप का परिवार समाज के इस ऋण को कभी नहीं भुला सकता, ऐसा मेरा विश्वास है।

आप रोग मुक्त हो जाएं, परिवार के सुख दुःख में सहभागी रहें, ऐसी मेरी शुभकामना है।

सादर,

आपका,

(नरेन्द्र मोदी)

Trulyhelp  
A Life of Dignity For All