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विकृति विज्ञान विभाग
DEPARTMENT OF PATHOLOGY
डॉ. राम मनोहर लोहिया अस्पताल, नई दिल्ली
DR. RAM MANOHAR LOHIA HOSPITAL, NEW DELHI

दिनांक
Dated 31/1/23

मूत्र जाँच
EXAMINATION OF URINE

रोगी का नाम Yash.
Patient's Name
आयु-लिंग 34/M
Age-Sex
डॉ. इनचार्ज
Dr. Incharge
वार्ड
Ward/OPD
रोगी का नंबर / केस नंबर 7080
OPD/CGHS/CR No.
बिस्तर नं
Bed No.
रोगी का इतिहास
Clinical History
प्रारंभिक निदान
Prov. Diagnosis
युनिट अध्यक्ष
Head of Unit

CBC & PS.

चिकित्सक के हस्ताक्षर
Signature of Clinician

भौतिक जाँच
Physical Examination

रिपोर्ट
Report

रंग
Colour
प्रतिक्रिया
Reaction
विशेष गुरुत्व
Specific Gravity
रासायनिक जाँच
CHEMICAL EXAMINATION:

HS. 4.8g
TCO - 10000.
DU - N5 L78 M10 E7

एल्बुमिन (प्रोटीन)
Albumin (Protien)

विशेष जाँच
SPECIAL EXAMINATION:
RBC - 1.98 x 10⁶

शर्करा
Sugar
सूक्ष्मदर्शी जाँच
MICROSCOPICAL EXAMINATION:

PCV - 16.1
MCV 81.2
WBC 10 MMH - 24.3
MHC - 29.9

Moderate anisocytosis
Microcytic hypochromic
anemia
Platelet thrombocytopenia

विकृति विज्ञानी
PATHOLOGIST

312

विकृति विज्ञान विभाग
 DEPARTMENT OF PATHOLOGY
 डॉ. राम मनोहर लोहिया अस्पताल, नई दिल्ली
 DR. RAM MANOHAR LOHIA HOSPITAL, NEW DELHI

रक्त की जाँच
 EXAMINATION OF BLOOD

3/2/22

आयु-लिंग Age-Sex 34y / M प.सं.वि./डी.ए.ए.के. OPD/CGHS/CR No 7080
 पेशे का नाम/वर्क/व्यवसाय Yash वार्ड/Ward/OPD ECS 3rd बिस्तर नं./Bed No. _____
 डॉ. का नाम/डॉ. के नाम/डॉ. के नाम Jhon P3B
 रोग/रोगी का इतिहास/History _____
 शरीर का रोग/रोग का निदान/Diagnosis _____
 डॉ. का नाम/डॉ. के नाम/डॉ. के नाम/Head of Unit _____

CBC E PIS E platelet count

चिकित्सक के हस्ताक्षर
 Signature of Clinician

रिपोर्ट
 Report

| | | | |
|---|----------------------------------|--|------------------------------|
| ई.एस.आर. (वेस्टर्ग्रेन) ESR (Westergren) | एम. एम. प्रथम घंटा mm 1st Hr. | प्लेटलेट गणना Platelet Count | <u>30,000</u> |
| हीमोग्लोबिन Haemoglobin | ग्राम gm% | पूर्ण इयोसिनोफिल गणना Absolute Eosinophil Count | |
| कुल डब्ल्यू बी. सी. Total WBC | क्यू. एम. एम. cumm | कुल लाल रक्त कोशिकाएँ Total RBC | <u>3.12 x 10⁶</u> |
| विशिष्ट श्वेत कोशिका गणना Differential Leucocyte Count | | पी.सी.बी. PCV | <u>27.3</u> |
| बहुसूत्री Polymorphs | % | एम.सी.बी. MVC | <u>87.5</u> |
| लसकोशिकाएँ Lymphocytes | % | एम.सी.एच. MCH | <u>25.6</u> |
| इयोसिनोफिल Eosinophil | % | एम.सी.एच.सी. MCHC | <u>29.3</u> |
| एक केन्द्रक श्वेत कोशिका Monocytes | % | जाल लोहित कोशिका गणना Reticulocytes count | |
| कारकरागी बहुवर्ण Basophils | % | रक्तस्राव का समय Bleeding time | |
| अन्य Others | % | थक्का बनने का समय Clotting time | |

विकृति विज्ञान विभाग
 DEPARTMENT OF PATHOLOGY
 डा. राम मनोहर लोहिया अस्पताल, नई दिल्ली
 DR. RAM MANOHAR LOHIA HOSPITAL, NEW DELHI

रक्त की जांच
 EXAMINATION OF BLOOD

नाम Patient's Name Yash आयु-लिंग Age-Sex 37M व.रो.वि./के.स.प्ला.नो. OPD/CGHS/CR No 65202
 प्रभारी चिकित्सक Dr Incharge वाई वाई EC III विस्तर सं. Bed No
 रोगवृत्त Clinical History
 अंतिम निदान Prev Diagnosis
 युनिट अध्यक्ष Head of Unit

CBC & PS

चिकित्सक के हस्ताक्षर
 Signature of Clinician

रिपोर्ट
 Report

| | | | | |
|---|---------------------------------|--|--------------|----------------------|
| ई.एस.आर. (वेस्टर्ग्रेन) ESR (Westergren)..... | एम्.एम.प्रथम घंटा mm 1st Hr. | प्लेटलेट गणना Platelet Count | <u>30000</u> | क्यू.एम.एम. /cumm |
| हीमोग्लोबिन Haemoglobin..... | ग्राम gm% | पूर्ण इयोनोफिल गणना Absolute Eosinophil Count | | क्यू.एम.एम. /cumm |
| कुल डब्ल्यू.बी.सी. Total WBC | क्यू.एम.एम. cumm | कुल लाल रक्त कोशिकाएँ Total RBC | <u>2.247</u> | क्यू.एम.एम. cumm |
| विशिष्ट श्वेत कोशिका गणना Differential Leucocyte Count | | पी.सी.वी. PCV | <u>17.8</u> | % |
| बहुरूपी Polymorphs | <u>7</u> | एम्.सी.वी. MCV | <u>79.3</u> | एफ.एल. fl. |
| उमकोशिकाएँ Lymphocytes | <u>78</u> | एम्.सी.एच. MCH | <u>27.3</u> | पी.जी. pg |
| इयोनोफिल Eosinophil | <u>6</u> | एम्.सी.एच.सी. MCHC | <u>30.7</u> | % |
| एक केन्द्रक श्वेत कोशिका Monocytes | <u>9</u> | जाल लोहित कोशिका गणना Reticulocytes count | | % |
| कारकगामी बहुयुत Basophils | | रक्तस्राव का समय Bleeding time | | % |
| अन्य Others | | थक्का बनने का समय Clotting time | | % |

In view of no history, no definite opinion possible

Significate
3/2/23

SPECIAL HEMATOLOGY LABORATORY
DEPARTMENT OF PATHOLOGY
DR RAM MANOHAR LOHIA HOSPITAL, NEW DELHI



FLOW CYTOMETRY REPORT

DATE: 1/2/23

FLOW NO: FL- 6/23

BMA NO: 15/23

CR.NO-

NAME: Yash AGE/SEX: 3y/M WARD/UNIT: C3F DOCTOR INCHARGE: Dr. Deepak Sachan

CLINICAL HISTORY: Pain in bilateral limbs, generalized weakness,
Passage of blood tinged stool after meals x 1 month

CBC : Hb-4.9g/dl, TLC-10500/ μ l, DLC Blast-31%, L-65%, Neutro-2%, Eos-01%, Myelocyte-1%,
Platelet count-40,000/ μ l, MCV-82.7fl, MCH-27pg, MCHC-33.1g/dl.

PERIPHERAL SMEAR: show presence of 31% blasts. These cells are small to intermediate in size with high N:C ratio, opened up chromatin, inconspicuous to evident nucleoli in some and scant basophilic cytoplasm. Some of these cells show nuclear indentation.
Bone marrow aspirate smears are cellular and show presence of blasts comprising 80% of all nucleated cells having similar morphology as described above.

INSTRUMENT USED: BD FACS Calibur
PERCENTAGE OF GATED POPULATION: 75.1%

TYPE OF SPECIMEN: Bone marrow aspirate
GATING STRATEGY: FSC/SSC

PANEL USED: Acute Leukemia panel

CD45/SSC

1. Unstained
2. CD33FITC/ CD13PE/CD45 PerCP/CD117APC
3. CD10FITC/ CD34 PE/ CD45Per CP/CD19APC
4. CD7FITC/CD5PE/CD45PerCP/CD22APC
5. CD14FITC/ CD64PE/ CD45 PerCP/ HLADR APC
6. Unstained
7. cCD3FITC/cMPO PE/CD45 PerCP
8. Tdt PE/CD45 Per CP

INTENSITY OF MARKER EXPRESSION ON GATED POPULATION:

| MARKERS | RESULT | INTENSITY | INTERPRETATION |
|----------------|--------|-----------|----------------|
| T CELL MARKERS | | | |
| CD3 | 0.6% | - | Negative |
| CD5 | 4.9% | - | Negative |
| CD7 | 3.5% | - | Negative |
| B CELL MARKERS | | | |

| | | | |
|---------------------------|-------|--------------------|----------|
| CD19 | 96.5% | Dim to moderate | Positive |
| CD10 | 96.1% | Dim to moderate | Positive |
| CD22 | 97.0% | Moderate | Positive |
| CD19 & CD10 coexpression | 95.9% | Dim to moderate | Positive |
| MYELOID MARKERS | | | |
| CD13 | 89.4% | Dim to moderate | Positive |
| CD33 | 1.0% | - | Negative |
| CD14 | 1.9% | - | Negative |
| CD64 | 4.9% | - | Negative |
| cMPO | 0.7% | - | Negative |
| IMMATURITY MARKERS | | | |
| HLA-DR | 97.4% | Moderate to Bright | Positive |
| CD34 | 96.3% | Moderate to bright | Positive |
| CD117 | 2.5% | - | Negative |
| Tdt | 98.8% | Dim to moderate | Positive |

DESCRIPTIVE SUMMARY- Flowcytometric immunophenotyping of bone marrow aspirate revealed an abnormal cell cluster comprising 75.1% all acquired events showing negative to dim expression of CD45 on CD45/SSC analysis. These cells displayed intermediate forward scatter and low side scatter on FSC/SSC analysis. These cells were found to be immunopositive for CD10, CD19, CD22, CD13, CD34, HLA-DR and Tdt with 95.9% of the cells showing coexpression of CD19 and CD10. These cells were found to be immunonegative for cCD3, CD5, CD7, CD33, CD14, CD64, CD117 & cMPO.

IMPRESSION: The above flowcytometric immunophenotyping of the bone marrow aspirate in conjunction with peripheral smear and bone marrow aspirate findings are suggestive of CD10 positive B-cell Acute Lymphoblastic Leukemia (CALLA positive B-ALL) with aberrant expression of CD13.

Remarks- 1. Cytogenetics and molecular genetic studies are suggested for further characterisation and management.

2. Please refer to bone marrow aspirate report (BMA-15/23).

Reported By:-

Dr Akanksha Bhatia
Assistant Professor
Dr.R.M.L.Hospital

Dr. Vijay Kumar
Professor, HOU
Dr RML HOSPITAL

Senior Resident, Dr.R.M.L.Hospital



Dr. Ram Manohar Lohia Hospital
Baba Kharak Singh Marg
New Delhi

Yash 3/M CR No. 7080
Ward P₁ (C/D) Nand 22

LABORATORY OBSERVATION REPORT

| | | | |
|-----------------------|-------------------------------|--------------------------|-------------------------|
| UHID : | 20230065202 | Reg Date : | 30/01/2023 09:45 AM |
| Patient Name : | Mr. YASH | Age : | 3 years 3 months 2 days |
| Sex : | Male | Lab Sub Centre : | PATHOLOGY LAB |
| Lab Name : | PATHOLOGY | Unit Name : | P1A Mon |
| Department : | Paediatrics | Sample Collection Date : | 01/02/2023 03:41 PM |
| Unit In-charge : | Dr. Dinesh Kumar | Report Date : | |
| Sample Receive Date : | | Report Printed Date : | 01/02/2023 03:59 PM |
| Ward Name : | ECS 3rd Floor Paed Department | | |

Sample Details : PTH-0102231089 (Bone Marrow) /PATHOLOGY LAB Clinical Details

Test Name : BONE MARROW ASPIRATION (Template : BONE MARROW ASPIRATION)

BONE MARROW (BM-15/23)

CBC- Hb-4.9g/dl, TLC-10500/ μ l, DLC Blast-31%, Neutro-2%, Lympho-65%, Eosino-1%, Mono-0%, Myelo-1%, Platelet count-40,000/ μ l, RBC-1.79x10⁶/ μ l, HCT-14.8%, MCV-82.7fl, MCH-27.4pg, MCHC-33.1g/dl, Reticulocyte count-1%.

Peripheral smear-

RBC- Predominantly normocytic normochromic.

WBC- DLC show presence of 31% blasts. These blast cells are small to intermediate in size, with high N/C ratio, opened up chromatin, inconspicuous to evident nucleoli in some and scant basophilic cytoplasm. Some of these cells show nuclear indentation.

Platelet- reduced on smear.

Bone marrow aspirate (BMA-15/23)

Bone marrow aspirate and imprint smears are hemodiluted and aparticle but however few cellular trails are seen showing almost complete replacement of marrow with blast cells constituting 65-75% of all nucleated cells. Fair number of mature lymphocytes are seen. There is marked paucity of erythroid and myeloid series cells. Megakaryocytes are not seen.

No hemoparasite or granuloma seen.

Impression- Features are suggestive of Acute Leukemia (morphologically acute lymphoblastic leukemia).

Advice-

1. Clinical correlation
2. Flowcytometric immunophenotyping for further characterization and management.
3. Cytogenetic analysis.

Form NA.
URGENT

डा० राम मनोहर लोहिया अस्पताल, नई दिल्ली
DR. RAM MANOHAR LOHIA HOSPITAL, NEW DELHI

सूक्ष्म जीव विज्ञान विभाग
DEPARTMENT OF MICROBIOLOGY

1/2

नाम
NAME Yash.

आयु
AGE 3y.

लिंग
SEX M.

पंजीकरण सं०
REGN. No. 7080

बहिरंग रोगी विभाग/वाई
OPD/WARD EU 3rdF

विस्तर सं०
BED No.

युनिट
UNIT P1.

नमूने का प्रकार
NATURE OF SPECIMEN Blood.

नमूने लेने की तारीख और समय
DATE OF TIME OF COLLECTION

अपेक्षित जांच
INVESTIGATION REQUIRED Post BT - CBC

HB 7.3
RBC 2.46×10^6
PCV 21.5

CLINICAL NOTES:-

1. Presenting symptoms with duration
2. Previous reports on similar material with date & Lab. No.
3. Antibiotic therapy
4. Prov. diagnosis

TLC $\rightarrow 7200$ / mm³

Du \rightarrow P, L, E, M Blast
Sf. 44%
Plt. $\rightarrow 50,000$ / mm³ 51%

COMPLETE FORMS WILL NOT BE ACCEPTED

P-T-O
SIGNATURE & DESIGNATION



JEEVAN CARE FOUNDATION

Address:- 697, Village Madanpur Khadar, New Delhi 110076

Mail- Jeevancarefoundation@gmail.com

Reg No. 92

Ref. No.

Date 6-02-2023

सेवा में

श्री मान

संस्थापक महोदय,

जीवन केयर फाउंडेशन,

मदनपुर खादर दिल्ली,

श्रीमान हमारे बच्चा जौ की 3 वर्ष का है। वह

बाल्य केंद्र से पिड़ित है। उसका उपचार

डा० राम मनोहर लोहिया हॉस्पिटल में हो रहा है।

हम अपने बच्चे के उपचार के लिये बहुत ज्यादा

खर्च आ रहा है जो कले में हम बिल्कुल असमर्थ हैं।

आपका छोटा से मदत हमारे बच्चे को जीवन दान

दे सकते हैं। हमारा पूरा परिवार जिवनकर आभारी

रहेगा।

हमारा पूरा परिवार आपको मदत के आशा

में है। हमलोग जीवन भर आपके आभारी रहेंगे।

प्राची पिता

सुरेश सखी

