

MAX HEALTHCARE

Super Speciality Hospital - Laboratory Investigation Report

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Patient Information

Patient Name KANTI DEVI	Age / Gender 65 Years / Female	Registration No 96261	UHID EHPG.329390
Location Patparganj	Order Date 16/10/2012	Report Date 16/10/2012	Referring Doctor Dr. V.R. Sood

CRITICAL DIAGNOSIS

B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA (B-ALL)

Confirmed diagnosis based on flow cytometry showing 80.3% blast population with CD79a expression (99.07%) and minimal myeloperoxidase (0.61%). Progressive hematologic abnormalities with severe anemia, thrombocytopenia, and marked leukocytosis. Immediate hematology/oncology consultation required.

X-RAY CHEST PA/AP VIEW

Radiology • 16/10/2012

NORMAL

Findings:

- No focal lesion or opacity in lung parenchyma bilaterally
- Costophrenic angles and diaphragm domes normal
- Both hila and pulmonary vascular markings normal
- Cardiac size within normal limits (CTR < 0.5)
- Trachea central with no mediastinal shift
- Bony thorax and soft tissues unremarkable

IMPRESSION: No radiological abnormality detected

Verified by: **Dr. Archana Mathur, M.D.** (Consultant Radiologist)

LACTATE DEHYDROGENASE (LDH)

Biochemistry • 16/10/2012

CRITICAL

Parameter	Result	Unit	Ref. Range
LDH (Total), Serum	1497	IU/L	98-192

CRITICAL VALUE ALERT: LDH level is 7-8x the upper normal limit. Significantly elevated LDH may indicate tissue damage, hemolysis, or malignancy.

Verified by: **Dr. Ashish Seymour, M.D.** (Laboratory Medicine)

LIVER FUNCTION RENAL PROFILE

Biochemistry • 23/03/2012

ABNORMAL

Parameter	Result	Unit	Range
SGOT (AST)	38	IU/L	15-41
SGPT (ALT)	23	IU/L	17-63
Alkaline Phosphatase	146	IU/L	32-91
Bilirubin, Total	0.8	mg/dL	0.3-1.2
Serum Creatinine	1.3	mg/dL	0.6-1.2

Interpretation: Mildly elevated Alkaline Phosphatase. Borderline elevated Creatinine.

URINE ROUTINE & MICROSCOPIC

Pathology • 16/10/2012

NORMAL

Parameter	Result	Ref. Range
Colour	Pale Yellow	Pale Yellow
Appearance	Clear	Clear
pH	5.0	5.0-6.0
Specific Gravity	1.015	1.015-1.025
Protein	Nil	Nil
Glucose	Nil	Nil
RBCs	Nil /HPF	0-2
Leukocytes	0-1 /HPF	0-5

FLOW CYTOMETRY - IMMUNOPHENOTYPING

Hematology • 16/10/2012

CRITICAL

Marker	Value	Significance
Blast Population	80.3%	High Load
cMPO Expression	0.61%	<1% (Non-myeloid)
CD79a Expression	99.07%	B-cell marker

INTERPRETATION: Strong CD79a expression (>99%) with low cMPO (<1%) indicates **B-LYMPHOBLASTIC LINEAGE**.

COMPLETE HEMOGRAM (INITIAL)

Hematology • 16/10/2012

CRITICAL

Parameter	Result	Unit	Range
Hemoglobin	7.5	g/dL	13.0-17.0
Total Leukocyte Count	29.3	10 ⁹ /L	4.0-11.0
Platelet Count	92	10 ⁹ /L	150-450
Blast Cells	80%	%	0%

Note: Severe anemia, marked leukocytosis with 80% blasts.

COMPLETE HEMOGRAM (FOLLOW-UP)

Hematology • 18/10/2012

CRITICAL

Parameter	Result	Unit	Range
Hemoglobin	7.1	g/dL	13.0-17.0
Total Leukocyte Count	45.9	10 ⁹ /L	4.0-11.0
Platelet Count	56	10 ⁹ /L	150-450
Blast Cells	41	%	0%

PROGRESSION NOTED: Worsening anemia, increased WBC, decreased platelets. Blast count decreased (80% → 41%), likely peripheral dilution.

This report is for interpretation by a Registered Medical Practitioner only.

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