

ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS)

New Delhi ,

LABORATORY REPORT

UHID: 105409500

Name: Miss SANA KHAN

Sex: Female

Department: Hematology

Unit In-charge:

Sample Received Time: 29/04/2021 03:16 PM

Reg Date: 27/03/2021 09:14 AM

Ward Name :

Age: 12 years 1 month 2 days

Unit Name: Unit-I

Sample Collection Date:29/04/2021 03:14 PM

Report Time:03/05/2021 01:15 PM

Sample Details :DHM-290421002 (Bone Marrow) / HEMATOLOGY 204

BONE MARROW BIOPSY

Bone marrow aspirate number:	B-127-21	21BX-712
Clinical details	Symptomatic anemia, vomiting, icterus. 2 units PRBC transfused outside. Reported outside as Myelodysplastic syndrome, excess blast -02 (MDS-EB-02)?AML Received 2 stained Bone marrow aspirate slides for review labelled BM-137-21 along with 1 block for review labelled 4699	
Hemoglobin (g/dL)	WBC (X10⁹/L)	Platelet count (X10⁹/L)
11.9	3.57	13
DLC (%) : - Blast-12 ,N-22, L-58, M-04, E-04		
Peripheral smear: - shows 12% blasts with dyspoietic neutrophils. Nucleated RBCs=10-11/100WBC. RBCs are normocytic normochromic. Platelets are reduced.		
Aspirate:	Particulate	
Cellularity:	Cellular	
Lineage	Adequacy	Morphology
Erythropoiesis	Increased	Megaloblastic maturation with dyserythropoiesis

Megakaryopoiesis	Adequate	Dysmegakaryopoiesis seen
Granulopoiesis	Adequate	Dysgranulopoiesis in the forms of hypogranulation along with 10%blasts

Myelogram: M:E=1:1.2

Blasts (%)	10	Metamyelocytes (%)	05	Monocytes (%)	02	Plasma cells (%)	
Promyelocytes (%)		Neutrophils (%)	13	Eosinophils (%)	-	Erythroid precursors (%)	50
Myelocytes (%)	13	Lymphocytes (%)	07	Basophils (%)	-	Others (%)	

Impression: Bone marrow aspirate shows 10% blasts and features of Myelodysplasia. Peripheral blood shows 12% blasts. The findings suggest Myelodysplastic syndrome, excess blast -02 (MDS-EB-02)

Advice:

1. Follow up with complete blood count
2. Cytogenetics, FISH, molecular genetics studies for Myelodysplasia
3. Kindly rule out secondary causes of cytopenia

Bone marrow biopsy: Bone marrow biopsy shows hypercellular marrow spaces, overall cellularity~ 95-100%. Megakaryocytes are mildly increased in number and shows marked dysmegakaryopoiesis (70-80%) in the form of micromegakaryocytes, lobe separation and hypolobation. There is an interstitial excess and focal aggregate of immature cells/blasts. Erythroid precursors are proportionate.

Impression: Clinical findings, peripheral blood and bone marrow findings are suggestive of Myelodysplastic syndrome, excess blast -02 (MDS-EB-02)

Advice:

1. Follow up with complete blood count
2. Cytogenetics, FISH, molecular genetics studies for Myelodysplastic syndromes
3. Kindly rule out secondary causes of cytopenia

Consultant In charge: Dr. Ganesh

Senior residents: Dr. Rama, Dr. Prerna

Verification Comment: :

Verified by

Laboratory In-charge