



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	M	m Chopra D (Pathology) nt Pathologist	
NAME :	Mrs. SAPNA TREHAN				
AGE/ GENDER :	39 YRS/FEMALE		PATIENT ID	: 1787368	
COLLECTED BY :			REG. NO./LAB NO.	:012503110052	
REFERRED BY :			REGISTRATION DATE	: 11/Mar/2025 01:43 PM	
BARCODE NO. :	01526948		COLLECTION DATE	: 11/Mar/2025 02:12PM	
	KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Mar/2025 03:53PM	
CLIENT ADDRESS :	6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit	Biological Referen	nce interval
		HAEM	ATOLOGY		
	COMP		OOD COUNT (CBC)		
RED BLOOD CELLS (J	RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		6.8 ^L	gm/dL	12.0 - 16.0	
by CALORIMETRIC RED BLOOD CELL (RE	BC) COUNT	4.11	Millions	s/cmm 3.50 - 5.00	
by HYDRO DYNAMIC FOC	CUSING, ELECTRICAL IMPEDENCE				
PACKED CELL VOLUM by CALCULATED BY AUT	1E (PCV) OMATED HEMATOLOGY ANALYZER	23.3 ^L	%	37.0 - 50.0	
MEAN CORPUSCULAR		56.7 ^L	fL	80.0 - 100.0	
MEAN CORPUSCULAR	COMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	16.5 ^L	pg	27.0 - 34.0	
	OMATED HEMATOLOGY ANALYZER			22.0 26.0	
by CALCULATED BY AUT	R HEMOGLOBIN CONC. (MCHC)	29.1 ^L	g/dL	32.0 - 36.0	
	TION WIDTH (RDW-CV) TOMATED HEMATOLOGY ANALYZER	18.4 ^H	%	11.00 - 16.00	
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	39	fL	35.0 - 56.0	
by CALCULATED BY AUT MENTZERS INDEX	OMATED HEMATOLOGY ANALYZER	13.8	RATIO	BETA THALASSEN	
by CALCULATED		13.8	KATIO	13.0	
				IRON DEFICIENCY	Y ANEMIA:
GREEN & KING INDE	x	25.31	RATIO	>13.0 BETA THALASSEN	MIA TRAIT∙<=
by CALCULATED		20.01	in 110	65.0	
				IRON DEFICIENCY 65.0	Y ANEMIA: >
WHITE BLOOD CELL	<u>S (WBCS)</u>			00.0	
TOTAL LEUCOCYTE C	OUNT (TLC)	6110	/cmm	4000 - 11000	
by FLOW CYTOMETRY BY NUCLEATED RED BLO	Y SF CUBE & MICROSCOPY	NIL		0.00 - 20.00	
INDULEATED RED DLL	HEMATOLOGY ANALYZER	INIL		0.00 - 20.00	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SAPNA TREHAN **AGE/ GENDER** : 39 YRS/FEMALE **PATIENT ID** :1787368 **COLLECTED BY** REG. NO./LAB NO. :012503110052 **REFERRED BY REGISTRATION DATE** : 11/Mar/2025 01:43 PM **BARCODE NO.** :01526948 **COLLECTION DATE** :11/Mar/2025 02:12PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 11/Mar/2025 03:53PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 64 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 1 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 7 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 BASOPHILS % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **IMMATURE GRANULOCTE (IG) %** 0 % 0 - 5.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3910 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 1711 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 61 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 428 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 /cmm 0.0 - 999.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 418000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.39^H PLATELETCRIT (PCT) % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 9 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 104000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 24.9% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

Dr. Vinay Chopra



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	BUTION WIDTH (PDW)	15.6	%	15.0 - 17.0
ADVICE		KINDLY	Y CORRELATE CLINICALI	.Y

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



an

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Mar/2025 04:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

PERIPHERAL BLOOD SMEAR

TEST NAME:

PERIPHERAL BLOOD FILM/SMEAR (PBF)

RED BLOOD CELLS (RBC'S):

Anisocytosis with micorcytosis & occ. macrocytes.RBCs reveal moderate hypochromia.Occ polychromatic cells noted.No normoblastic activity evident.

WHITE BLOOD CELLS (WBC'S)

No immature leucocytes seen.

PLATELETS:

Platelets are adequate.

HEMOPARASITES:

NOT SEEN.

IMPRESSION:

Microcytic hypochromic anemia.





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Page 4 of 10





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BARCODE NO.	: 01526948		COLLECTION DATE	: 11/Mar/2025 02:12PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Mar/2025 03:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		DIRECT COO	MBS TEST (DCT)	
DIRECT COOMBS T	EST (DCT)	NEGATI	VE (-ve)	NEGATIVE (-ve)

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Interpretation:-

The direct Coombs test (also known as the **direct antiglobulin test** or DAT) is used to detect if antibodies or complement system factors have bound to RBC surface antigens *in vivo*.

The direct Coombs test is used clinically when immune-mediated hemolytic anemia (antibody-mediated destruction of RBCs) is suspected. This mechanism could be autoimmunity, alloimmunity or a drug-induced immune-mediated mechanism.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	FING DATE :	12/Mar/2025 12:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN VARI	HAEMOGLOBIN - HIGH P	ERFORMANCE LIQUI	D CHROMATOGRA	PHY (HB-HPLC)
HAEMOGLOBIN AO (A)	DULT)	84.15	%	83.00 - 90.00
HAEMOGLOBIN F (FO		0.1	%	0.00 - 2.0
HAEMOGLOBIN A2	ANCE LIQUID CHROMATOGRAPHY)	2.18	%	1.50 - 3.70
PEAK 3		2.33	%	< 10.0
OTHERS-NON SPECIFI		ABSENT	%	ABSENT
by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) HAEMOGLOBIN S		NOT DETECTED	%	< 0.02
by HPLC (HIGH PERFORM, HAEMOGLOBIN D (PU	ance liquid chromatography) NJAB)	NOT DETECTED	%	< 0.02
by HPLC (HIGH PERFORM, HAEMOGLOBIN E	ANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
by HPLC (HIGH PERFORM,	ANCE LIQUID CHROMATOGRAPHY)			
	ANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
UNKNOWN UNIDENTI by HPLC (HIGH PERFORM	IFIED VARIANTS ANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
GLYCOSYLATED HAEN		5.33	%	4.0 - 6.4
	ANCE LIQUID CHROMATOGRAPHY)			
	RBCS) COUNT AND INDICES			100, 100
HAEMOGLOBIN (HB) by AUTOMATED HEMATO	LOGY ANALYZER	6.8 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB		4.11	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUM	E (PCV)	23.3 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR	VOLUME (MCV)	56.7 ^L	fL	80.0 - 100.0
	HAEMOGLOBIN (MCH)	16.5 ^L	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	29.1 ^L	g/dL	32.0 - 36.0
by AUTOMATED HEMATOR	ION WIDTH (RDW-CV)	18.4 ^H	%	11.00 - 16.00
	LOGY ANALYZER			



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		& Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. SAPNA TREHAN			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	TING DATE	: 12/Mar/2025 12:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by AUTOMATED HEMATC	DLOGY ANALYZER			
NAKED EYE SINGLE T OSMOTIC FRAGILITY by single red cell osi	TEST	NEGATIVE (-ve)		NEGATIVE (-ve)
MENTZERS INDEX		13.8	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
INTERPRETATION		THE ABOVE FINDING CHROMATOGRAPHIC		VE OF NORMAL HAEMOGLOBIN

INTERPRETATION:

The Thalassemia syndromes, considered the most common genetic disorder worldwide, are a heterogenous group of mandelian disorders, all characterized by a lack of/or decreased synthesis of either the alpha-globin chains (alpha thalassemia) or the beta-globin chains (beta thalassemia) of haemoglobin. HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC):

1.HAEMOGLOBIN VARIANT ANALYSIS, BLOOD- High Performance liquid chromatography (HPLC) is a fast & accurate method for determining the presence and for quatitation of various types of normal haemoglobin and common abnormal hb variants, including but not limited to Hb S, C, E, D and Beta –thalassemia. 2.The diagnosis of these abnormal haemoglobin should be confirmed by DNA analysis.

2. The diagnosis of these abnormal haemoglobin should be contirmed by DNA analysis.
3. The method use has a limited role in the diagnosis of alpha thalassemia.
4. Slight elevation in haemoglobin A2 may also occur in hyperthyroidism or when there is deficiency of vitamin b12 or folate and this should be istinguished from inherited elevation of HbA2 in Beta- thalassemia trait.
NAKED EYE SINGLE TUBE RED CELL OSMOTIC FRAGILITY TEST (NESTROFT):
1. It is a screening test to distinguish beta thalassemia trait. Also called as Naked Eye Single Tube Red Cell Osmotic Fragility Test.
2. The test showed a sensitivity of 100%, specificity of 85.47%, a positive predictive value of 66% and a negative predictive value of 100%.
3. A high negative predictive value can reasonably rule out beta thalassemia trait cases. So, it should be adopted as a screening test for beta thalassemia trait, as it is not practical or feasible to employ HbA2 in every case of anemia in childhood.

MENTZERS INDEX:

1. The Mentzer index, helpful in differentiating iron deficiency anemia from beta thalassemia. If a CBC indicates microcytic anemia, the Mentzer index is said to be a

1. The Memory index, helpful in differentiating from deliciency anemia from beta thalassemia. If a CBC indicates microcytic anemia, the Memory index is said to be a method of distinguishing between them. 2. If the index is less than 13, thalassemia is said to be more likely. If the result is greater than 13, then iron-deficiency anemia is said to be more likely. 3. The principle involved is as follows: In iron deficiency, the marrow cannot produce as many RBCs and they are small (microcytic), so the RBC count and the MCV will both be low, and as a result, the index will be greater than 13. Conversely, in thalassemia, which is a disorder of globin synthesis, the number of RBC's produced is normal, but the cells are smaller and more fragile. Therefore, the RBC count is normal, but the MCV is low, so the index will be less than 13. **NOTE:** In practice, the Mentzer index is not a reliable indicator and should not, by itself, be used to differentiate. In addition, it would be possible for a patient with a

microcytic anemia to have both iron deficiency and thalassemia, in which case the index would only suggest iron deficiency.





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MBBS, MD (PATHOLOGY)

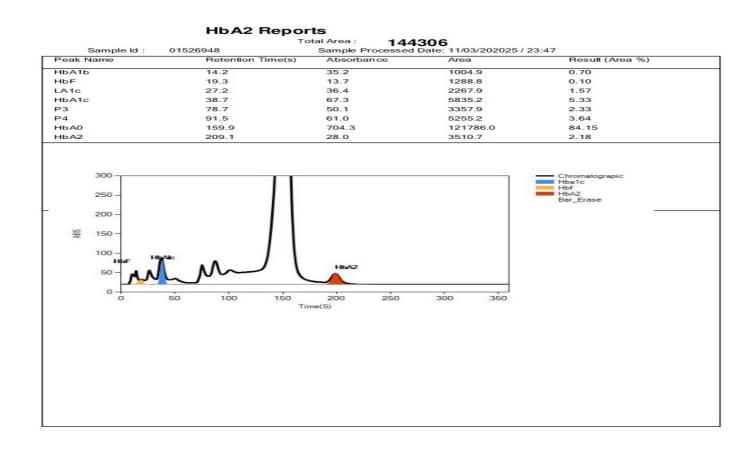
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: 01526948 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	COLLECTION DATE REPORTING DATE IBALA CANTT	: 11/Mar/2025 02:12PM : 12/Mar/2025 12:38AM
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· · · · · · · · · · · · · · · · · · ·	G, /	D (Pathology) nt Pathologist
		m Chopra
	MD (Pathology & Mi Chairman & Consult : Mrs. SAPNA TREHAN : 39 YRS/FEMALE	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mrs. SAPNA TREHAN : 39 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE







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CLIENT CODE.	: KOS DIAGNOS	TIC LAB		REPORTING DATE	: 11/Mar/2025 05:44PM	
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AM	BALA CANTT			
Test Name			Value	Unit	Biological Reference i	interval
		CLINICAI		TRY/BIOCHEMIST PROFILE	RY	
IRON: SERUM	TROPHOTOMETRY		31.94 ^L	μg/dL	37.0 - 145.0	
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CA		268.46	µg/dL	150.0 - 336.0	
TOTAL IRON BIND SERUM by SPECTROPHOTON		TIBC)	300.4	µg/dL	230 - 430	
%TRANSFERRIN S. by CALCULATED, SPE			10.63 ^L	%	15.0 - 50.0	
TRANSFERRIN: SE by SPECTROPHOTOM			213.28	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAB		ANEMIA OF CHRO		IRON DEFICIENCY ANEMI		
SERUM II	RON:	Normal to Re	eaucea	Reduced	Normal	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON.			

IRON:

1. Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
Test Name	Value	Unit	Biological Reference interval
		AL PATHOLOGY DR OCCULT BLOOD	

OCCULT BLOOD by IMMUNOCHROMATOGRAPHY NEGATIVE (-ve)

NEGATIVE (-ve)

** End Of Report ***





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