



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mrs. BALJIT KAUR			
AGE/ GENDER	: 36 YRS/FEMALE		PATIENT ID	: 1683531
COLLECTED BY	:		REG. NO./LAB NO.	: 012411270011
REFERRED BY	:		REGISTRATION DATE	: 27/Nov/2024 09:34 AM
BARCODE NO.	:01521513		COLLECTION DATE	: 27/Nov/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Nov/2024 09:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEM	ATOLOGY	
	COMP		DOD COUNT (CBC)	
RED BLOOD CELLS	G (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H		13.7	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (DDC) COUNT		Ű	250 500
	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.44 ^H	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	43.8	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	80.4	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	25.3 ^L	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.4 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	14.4	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	43.4	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER			
•	OTOMATED HEMATOLOGT ANALIZER	1170	DATIO	ጋር ጥለ ጥሀለ፤ ለሮሮሮአለ፤ለ ጥጋለ፣ጥ.
•	UTOMATED HEIWATOLOGT ANALTZER	14.78	RATIO	BETA THALASSEMIA TRAIT: < 13.0
MENTZERS INDEX	UTOMATED HEMATOLOGT ANALTZER	14.78	RATIO	13.0 IRON DEFICIENCY ANEMIA:
MENTZERS INDEX by CALCULATED				13.0 IRON DEFICIENCY ANEMIA: >13.0
MENTZERS INDEX by CALCULATED		14.78 21.38	RATIO	13.0 IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:< 65.0
MENTZERS INDEX by calculated				13.0 IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<
MENTZERS INDEX by CALCULATED GREEN & KING INI by CALCULATED	DEX			13.0 IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: >
MENTZERS INDEX by calculated GREEN & KING INI by calculated WHITE BLOOD CE FOTAL LEUCOCYTH	DEX LLS (WBCS) E COUNT (TLC)			13.0 IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: >
MENTZERS INDEX by CALCULATED GREEN & KING INI by CALCULATED WHITE BLOOD CE FOTAL LEUCOCYTE by FLOW CYTOMETR	DEX L <u>LS (WBCS)</u>	21.38	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
MENTZERS INDEX by CALCULATED GREEN & KING INI by CALCULATED WHITE BLOOD CE TOTAL LEUCOCYTH by FLOW CYTOMETRY NUCLEATED RED E by AUTOMATED 6 PAI	DEX LLS (WBCS) E COUNT (TLC) y by sf cube & microscopy	21.38 10310	RATIO	13.0 IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0 4000 - 11000





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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. BALJIT KAUR **AGE/ GENDER** : 36 YRS/FEMALE **PATIENT ID** :1683531 **COLLECTED BY** REG. NO./LAB NO. :012411270011 **REFERRED BY REGISTRATION DATE** : 27/Nov/2024 09:34 AM **BARCODE NO.** :01521513 **COLLECTION DATE** : 27/Nov/2024 09:35AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 27/Nov/2024 09:51AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 57 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 36 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 5877 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3712 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 206 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 516 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0.0 - 999.00 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 316000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.38^H % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 12 fL 6.50 - 12.0

Dr. Vinay Chopra

MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence



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/cmm

%

%

129000^H

40.9

16.2



30000 - 90000

11.0 - 45.0

15.0 - 17.0





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COLLECTED BY	:	REG. NO./LAB NO.	: 012411270011
REFERRED BY	:	REGISTRATION DATE	: 27/Nov/2024 09:34 AM
BARCODE NO.	: 01521513	COLLECTION DATE	: 27/Nov/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 27/Nov/2024 09:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA (CANTT	
Test Name	Val	ue Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

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9001:2008 CERT	IFIED LAB		EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. BALJIT KAUR			
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ARCODE NO.	:01521513		COLLECTION DATE	: 27/Nov/2024 09:35AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Nov/2024 09:47AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	BLOOD GRO	DUP (ABO)	AND RH FACTOR TY	PING
ABO GROUP		В		
by SLIDE AGGLUTINA RH FACTOR TYPE	HON	POSITIVE		
by SLIDE AGGLUTINA	TION	I ODITIVE		
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIO	CONSUL	AM CHOPRA LTANT PATHOLOGIST MD (PATHOLOGY)	
OS Molecular Lab: IInd	, Nicholson Road, Ambala Cantt -133 001 Floor, Parry Hotel, Staff Road, Opp. GPO 943898 care@koshealthcare.com w	I, Haryana 9, Ambala Cantt -	133 001, Haryana	Page 4 of 19





		Microbiology) ultant Pathologist	CEO & Consultant	(Pathology) Pathologist
IAME	: Mrs. BALJIT KAUR			
GE/ GENDER	: 36 YRS/FEMALE	P	ATIENT ID	: 1683531
OLLECTED BY	:	R	EG. NO./LAB NO.	:012411270011
EFERRED BY	:	R	EGISTRATION DATE	: 27/Nov/2024 09:34 AM
ARCODE NO.	:01521513	С	OLLECTION DATE	: 27/Nov/2024 09:35AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 27/Nov/2024 04:37PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
est Name		Value	Unit	Biological Reference interval
by RED CELL AGGRE TERPRETATION: ESR is a non-speci- mune disease, but An ESR can be affe C-reactive protein This test may also	does not tell the health practition ected by other conditions besides i be used to monitor disease activi	often indicates th her exactly where inflammation. For	the inflammation is in the this reason, the ESR is types the type is the type the type is	on associated with infection, cancer and auto
olycythaemia), sig sickle cells in sick DTE: ESR and C - reactiv Generally, ESR dod CRP is not affected If the ESR is eleval Women tend to ha Drugs such as dex	W ESR en with conditions that inhibit the hificantly high white blood cell cou- le cell anaemia) also lower the ES re protein (C-RP) are both markers es not change as rapidly as does CI l by as many other factors as is ESR ed, it is typically a result of two ty ave a higher ESR, and menstruation	unt (leucocytosis) R. RP, either at the st 2, making it a bette ypes of proteins, gl a and pregnancy ca	, and some protein abno art of inflammation or as r marker of inflammatior obulins or fibrinogen. an cause temporary eleva	rmalities. Šome changes in red cell shape (suc s it resolves.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam C MD (Pat O & Consultant Pat	thology)
NAME	: Mrs. BALJIT KAUR			
AGE/ GENDER	: 36 YRS/FEMALE	PATIENT 1	D :	1683531
COLLECTED BY	:	REG. NO. /]		012411270011
REFERRED BY	:			27/Nov/2024 09:34 AM
BARCODE NO.	: 01521513	COLLECTI		27/Nov/2024 09:35AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	REPORTIN BALA CANTT	IG DATE :	28/Nov/2024 05:40AM
Test Name		Value	Unit	Biological Reference interval
H HAEMOGLOBIN VA	IAEMOGLOBIN - HIGH PER <u>Ariants</u>	FORMANCE LIQUID	CHROMATOG	RAPHY (HB-HPLC)
HAEMOGLOBIN AO	(ADULT) RMANCE LIQUID CHROMATOGRAPHY)	83.6	%	83.00 - 90.00
HAEMOGLOBIN F (0	%	0.00 - 2.0
HAEMOGLOBIN A2		2.9	%	1.50 - 3.70
PEAK 3	RMANCE LIQUID CHROMATOGRAPHY)	6.2	%	< 10.0
OTHERS-NON SPEC	RMANCE LIQUID CHROMATOGRAPHY) CIFIC RMANCE LIQUID CHROMATOGRAPHY)	ABSENT	%	ABSENT
HAEMOGLOBIN S	RMANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
HAEMOGLOBIN D (NOT DETECTED	%	< 0.02
HAEMOGLOBIN E	RMANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
HAEMOGLOBIN C	RMANCE LIQUID CHROMATOGRAPHY)	NOT DETECTED	%	< 0.02
UNKNOWN UNIDE	NTIFIED VARIANTS	NOT DETECTED	%	< 0.02
	AEMOGLOBIN (HbA1c):	6.3	%	4.0 - 6.4
by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY)			
HAEMOGLOBIN (H	B)	13.7	gm/dL	12.0 - 16.0
by AUTOMATED HEMA RED BLOOD CELL (by AUTOMATED HEMA	RBC) COUNT	5.44 ^H	Millions/cm	m 3.50 - 5.00
PACKED CELL VOLU	JME (PCV)	43.8	%	37.0 - 50.0
by AUTOMATED HEMA		80.4	fL	80.0 - 100.0
MEAN CORPUSCUL	TOLOGY ANALYZEP			

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NAME	: Mrs. BALJIT KAUR			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
MEAN CORPUSCUL by AUTOMATED HEMA	AR HEMOGLOBIN CONC. (MCHC)	31.4 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) ATOLOGY ANALYZER	14.4	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) ATOLOGY ANALYZER	43.4	fL	35.0 - 56.0
<u>OTHERS</u>				
NAKED EYE SINGLI OSMOTIC FRAGILIT by SINGLE RED CELL	TY TEST	NEGATIVE (-ve)	NEGATIVE (-ve)
MENTZERS INDEX by CALCULATED		14.78	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0

INTERPRETATION

THE ABOVE FINDINGS ARE SUGGESTIVE OF NORMAL HAEMOGLOBIN CHROMATOGRAPHIC PATTERN

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.

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 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 likelv

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





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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	Microbiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. BALJIT KAUR		
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Test Name		Value Unit	Biological Reference interva

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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		ogy & Microbiology) Consultant Pathologist	Dr. Yugam (MD (F CEO & Consultant P	Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON RC	DAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	//BIOCHEMISTR	RY
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING	G (F): PLASMA E - PEROXIDASE (GOD-POD)	89.04	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 27/Nov/2024 11:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
		Value	Unit	Biological Reference interva
	THYR ATING HORMONE (TSH): SER	ENDOCRING COID STIMULATING CUM 1.581	LOGY	
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER	ENDOCRING COID STIMULATING CUM 1.581	LOGY HORMONE (TS	H)
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	LOGY HORMONE (TS	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	LOGY HORMONE (TS) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Frd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	LOGY HORMONE (TS) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	DLOGY HORMONE (TS) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	LOGY HORMONE (TS) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	H) 0.35 - 5.50
ГНYROID STIMUL4	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	EFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	EFFERENCE RANGE (Γ 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Frd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRING COID STIMULATING 2UM 1.581 ASSAY)	EFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRING COID STIMULATING PUM 1.581 ASSAY)	EFFERENCE RANGE (Γ 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SER JESCENT MICROPARTICLE IMMUNO/ RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ENDOCRING COID STIMULATING 2UM 1.581 ASSAY)	CLOGY HORMONE (TS) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	H) 0.35 - 5.50

USE:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS**:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.



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Test Name		Value Unit	Biological Reference interva
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 27/Nov/2024 11:22AM
BARCODE NO.	:01521513	COLLECTION DATE	: 27/Nov/2024 09:35AM
REFERRED BY	:	REGISTRATION DATE	: 27/Nov/2024 09:34 AM
COLLECTED BY	:	REG. NO./LAB NO.	:012411270011
AGE/ GENDER	: 36 YRS/FEMALE	PATIENT ID	: 1683531
NAME	: Mrs. BALJIT KAUR		
	MD (Pathology & Micr Chairman & Consultar	obiology) MI	D (Pathology)
	Dr. Vinay Chopr	a 📔 Dr. Yuga	m Chopra

Test Name	Va	Biological Reference interval

8. Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2. Autoimmune disorders may produce spurious results.



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		& Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. BALJIT KAUR			
AGE/ GENDER	: 36 YRS/FEMALE	PATIEN	IT ID	: 1683531
COLLECTED BY	:	REG. NO	D./LAB NO.	: 012411270011
REFERRED BY	:	REGIST	RATION DATE	: 27/Nov/2024 09:34 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
				/
Test Name		Value	Unit	Biological Reference interval
2.The major chemica 3.Physiological funct	uch as sleep, exercise, nipple st ROLACTEMIA):	n is dopamine, which inhibi on of milk production. In r imulation, sexual intercour	ts prolactin secreti ormal individuals, se, hypoglycemia,	the prolactin level rises in response to postpartum period, and also is elevated in the
NCREASED (HYPERPI		na which is 5 times more f		
INCREASED (HYPERPI 1.Prolactin-secreting 2.Functional and org 3.Primary hypothyrc 4.Section compressio 5.Chest wall lesions	anic disease of the hypothalam idism. on of the pituitary stalk.	us.	requent in remaies	s than males).
INCREASED (HYPERPI 1.Prolactin-secreting 2.Functional and org 3.Primary hypothyrc 4.Section compressis 5.Chest wall lesions 6.Ectopic tumors. 7.DRUGS:- Anti-Dopa receptors, or serotor Oplates, High doses SIGNIFICANCE:	anic disease of the hypothalam idism. on of the pituitary stalk. and renal failure. minergic drugs like antipsychot nin reuptake (anti-depressants of estrogen or progesterone,ar	us. ic drugs, antinausea/antier of all classes, ergot derivat nticonvulsants (valporic aci	netic drugs, Drugs t ves, some illegal d d), anti-tuberculou	that affect CNS serotonin metabolism, serotoni rugs such as cannabis), Antihypertensive drugs

CAUTION:

Prolactin values that exceed the reference values may be due to macroprolactin (prolactin bound to immunoglobulin). Macroprolactin should be evaluated if signs and symptoms of hyperprolactinemia are absent, or pituitary imaging studies are not informative.





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4. Mild to moderately increased levels of serum prolactin are not a reliable guide for determining whether a prolactin-producing pituitary adenoma is present, 5. Whereas levels >250 ng/mL are usually associated with a prolactin-secreting tumor.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ANT	I MULLERIAN HORM	IONE (AMH) GEN	п
	HORMONE (AMH) GEN II: HEMILUMINESCENCE IMMUNOAS		ng/mL	0.05 - 11.00
A Correlation of FER	TILITY POTENTIAL and AMH le	vels are :		
C	OVARIAN FERTILITY POTENTIA		AMH VALUES	IN (ng/mL)
			4.00 C.80 pg/m	

OVARIAN FERTILITY POTENTIAL	AMH VALUES IN (ng/mL)
OPTIMAL FERTILITY:	4.00 – 6.80 ng/mL
SATISFACTORY FERTILITY:	2.20 – 4.00 ng/mL
LOW FERTILITY:	0.30 – 2.20 ng/mL
VERY LOW/UNDETECTABLE:	0.00 – 0.30 ng/mL
HIGH LEVEL:	>6.8 ng/mL (PCOD/GRANULOSA CELL TUMOUR)

Anti Mullerian Hormone (AMH) is also known as Mullerian Inhibiting Substance provided by sertoli cells of the testis in males and by ovarian granulose cells in females upto antral stage in females.

IN MALES:

1.It is used to evaluate testicular presence and function in infants with intersex conditions or ambiguous genitalia, and to distinguish between cryptorchidism and anorchia in males

IN FEMALES:

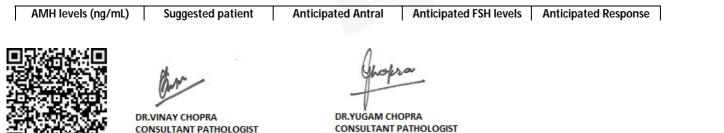
1. During reproductive age, follicular AMH production begins during the primary stage, peaks in preantral stage & has influence on follicular sensitivity to FSH which is impoetant in selection for follicular dominance. AMH levels thus represents the pool or number of primordial follicles but not thequality of oocytes.AMH does not vary significantly during menstrual cycle & hence can be measured independently of day of cycle. 2.Polycystic ovarian syndrome can elevate AMH 2 to 5 fold higher than age specific reference range & predict anovulatory, irregular cycles, ovarian tumours like Granulosa cell tumour are often associated with higher AMH levels.

3.Obese women are often associated with diminished ovarian reserve and can have 65% lower mean AMH levels than non-obese women. 4. In females, AMH levels do not change significantly throughout the menstrual cycle and decrease with age.

5. Assess Ovarian Reserve - correlates with the number of antral follicies in the ovaries.

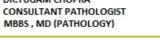
6.Evaluate fertility potential and ovarian response in IVF- Women with low AMG levels are more likely to the poor ovarian responders. 7. Assess the condition of Polycystic Ovary and premature ovarian failure.

A combination of Age, Ultrasound markers-Ovarian Volume and Antral Follicle Count, AMH and FSH levels are useful for optimal assessment of ovarian reserve. Studies in various fertility clinics are ongoing to establish optimal AMH concentretaion for predicting response to invitro fertilization, however, given below is suggested interpretative reference.



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REFERRED BY	:	REGISTRATION DATE	: 27/Nov/2024 09:34 AM
BARCODE NO.	: 01521513	COLLECTION DATE	: 27/Nov/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 27/Nov/2024 11:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	T	

Test Name		Value	Unit	Biological Reference interval	
	Categorization for fertility based on AMH for age group (20 to 45 yrs)	Follicle counts	(day 3)	to IVF/COH cycle	
Below 0.3	Very low	Below 4	Above 20	Negligible/Poor	
0.3 to 2.19	Low	4 - 10	Usually 16 - 20	Reduced	
2.19 t0 4.00	Satisfactory	11 - 25	Within reference range or between 11 - 15	Safe/Normal	
Above 4.00	Optimal	Upto 30 and Above	Within reference range or between 11 – 15 or Above 15	Possibly Excessive	

INCREASED:

1.Polycystic ovarian syndrome (most common)

2. Ovarian Tumour: Granulosa cell tumour

DECREASED:

1. Anorchia, Abnormal or absence of testis in males

2.Pseudohermaphroditism

3.Post Menopause

NOTE:

1.AMH measurement alone is seldom suffcient for diagnosis and results should be interpreted in the light of clinical finding and other relevant test such as ovarian ultrasonography(In fertility applications); abdominal or testicular ultrasound(intersex or testicular function applications); measurement of sex steroids (estradiol,Progesterone,Testosterone),FSH, Inhibin B (For fertility), and Inhibin A and B (for tumour work up). 2.Conversion of AMH grom ng/mL to pmol/L can be performed by using equation 1 ng/mL = 7.14 pmol/L





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	1rs. BALJIT KAUR 6 YRS/FEMALE					
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EFERRED BY :		RE	G. NO./LAB NO.	: 012411270011		
		RE	GISTRATION DATE	: 27/Nov/2024 09:34 AM		
BARCODE NO. : 0	1521513	CO	LLECTION DATE	: 27/Nov/2024 09:35AM		
C LIENT CODE. : K	OS DIAGNOSTIC LAB	RE	PORTING DATE	: 27/Nov/2024 11:22AM		
CLIENT ADDRESS : 6	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
	IMMU	UNOPATHOL	OGY/SEROLOGY	Y		
	HEPATIT	IS C VIRUS (HC	V) ANTIBODY: TO	DTAL		
	Y (HCV) TOTAL: SERUM	0.09 SAY)	S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00		
HEPATITIS C ANTIBOD RESULT by cmia (chemiluminesce NTERPRETATION:-	Y (HCV) TOTAL	NON - REAC	ΓIVE			
	r (INDEX)		REMARKS			
	1.00	NON - REACTIVE/NOT - DETECTED				
	=1.00		PTOMATIC/INFECTIVE ST	TATE/CARRIER STATE. ntation, injection drug abusers, accidental		

USES: 1. Indicator of past or present infection, but does not differentiate between Acute/ Chronic/Resolved Infection.

2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

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3. HCV-RNA PCR recommended in all reactive results to differentiate between past and present infection.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	MAN IMMUNODEFICIENC			Biological Reference interval I (P-24 ANTIGEN DETECTION)
ANTI HUN HIV 1/2 AND P24 /		Y VIRUS (HIV) D 0.07		
ANTI HUI HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN	NTIGEN: SERUM	Y VIRUS (HIV) D 0.07 SAY) NON - REACTI	UO ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
ANTI HUN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN INTERPRETATION:-	ANTIGEN: SERUM IESCENT MICROPARTICLE IMMUNOAS ANTIGEN RESULT	Y VIRUS (HIV) D 0.07 SAY) NON - REACTI	UO ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
ANTI HUN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN INTERPRETATION:-	ANTIGEN: SERUM IESCENT MICROPARTICLE IMMUNOAS ANTIGEN RESULT IESCENT MICROPARTICLE IMMUNOAS	Y VIRUS (HIV) D 0.07 SAY) NON - REACTI SAY)	UO ULTRA WITH S/CO VE	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00

exposed to HIV 1/2 infection or the sample has been tested during the "window phase" i.e. before the development of detectable levels of antibodies. Hence a Non Reactive result does not exclude the possibility of exposure or infection with HIV 1/2. **RECOMMENDATIONS:** 1. Results to be clinically correlated

2. Rarely falsenegativity/positivity may occur.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	HEPATITI	S B SURFACE ANT	IGEN (HBsAg) U	JLTRA
SERUM	FACE ANTIGEN (HBsAg):	0.27 SSAY)	S/CO	NEGATIVE: < 1.0 POSITIVE: > 1.0
RESULT	FACE ANTIGEN (HBsAg)	NON REACTIVE		
INTERPRETATION:				
	T IN INDEX VALUE		REMARKS	
< 1	.30		NEGATIVE (-ve) POSITIVE (+ve)	
>=				

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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BARCODE NO.	:01521513		COLLECTION DATE	: 27/Nov/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Nov/2024 10:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		RUBELLA	ANTIBODIES IgG	
RUBELLA ANTIBO	DIES IgG	1.251	IU/mL	NEGATIVE: < 2.0 POSITIVE: > 2.0

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INTERPRETATION:

Rubella virus, the only member of rubivirus genus, causes rubella (also known as german measles), an acute exanthematous infection of children and adults. The clinical illnss is characterized by rash, fever and lymphadenopathy and can resemble a mild case of measles. The virus also cause arthralgias and occasional encephalitis. Infection is particularly disastrous if contracted during the first 4 months of pregnancy. If not immunologically protected, women infected during pregnancy run a high risk of embryo-foetal damage. Congenital Rubella causes a wide range of severe defects in foetus, including cataract, deafness, hepatosplenomegaly, psychomotor retardation, bone alterations, cardiopathies, neuropathies and diabetes.

TEST UTILITY:

1. IgM antibodies become detectable in a few days after the onset of signs and symptoms and reach peak level in 7 – 10 days. These antibodies persist, but rapidly diminishes in concentration over the next 4 – 5 weeks until the antibodies may occasionally persist for more than 12 months post-infection or immunization. The presence of IgM antibodies in a new born indicates that the bay was infected during pregnancy because the mother IgM antibodies do not pass to the baby through umbilical cord.

2. Rubella IgG antibody can be formed following rubella infection or after rubella vaccination. A reactive result is consistent with immune status to rubella virus. The presence of IgG antibodies, but not IgM antibodies, in a newborn means that the mothers IgG antibodies have passed to the baby in utero and these antibodies may protect the infant from rubella infection during the initial six months of life.

LIMÍTATIONS:

1. Rubella IgM test results are intended as an aid to the diagnose of active or recent infection. They should however, be interpreted in conjugation with other clinical findings and diagnostic procedures

2. The antibody titre of a single serum specimen cannot be used to determine recent infection. Specimens obtained too early, or too late, during

 The antibody fifte of a single serum speciment annot be used to determine recent infection, specimens obtained too early, or too fate, during the course of infection, may not demonstrate detectable levels of IgM antibody. Samples collected too early may not have detectable levels of IgG. Paired samples (acute & convalescent) should be collected and tested concurrently to demonstrate seroconversation.
 A positive Rubella IgM result may not always indicate a primary acute infection, as IgM has a tendency to persist, even at high levels, after primay infection. *FALSE POSITIVE RESULTS MAY ALSO OCCUR DUE TO RHEUMATOID FACTOR AND ANTI-NUCLEUR ANTIBODIES*. Hence, IgG avidity testing is recommended to differentiate between primay infection, IgM persistence and reactivation. IgG antibody results should be interpreted in conjugation with clinical evaluation and the and the arecults of other diagnostic procedures. conjugation with clinical evaluation and the and the results of other diagnostic procedures.





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	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)			
NAME	: Mrs. BALJIT KAUR						
AGE/ GENDER	: 36 YRS/FEMALE	P	ATIENT ID	: 1683531			
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411270011			
REFERRED BY	:	R	EGISTRATION DATE	: 27/Nov/2024 09:34 AM			
BARCODE NO.	:01521513	C	OLLECTION DATE	: 27/Nov/2024 09:35AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 27/Nov/2024 10:12AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
		VI	RL				
VDRL		NON REAC		NON REACTIVE			
by IMMUNOCHROMAT	OGRAPHY						
<u>INTERPRETATION:</u> 1.Does not become n	ositive until 7 - 10 days after appe	arance of chancre					
2.High titer (>1:16) -	active disease.						
	ological falsepositive test in 90% ca ary syphillis causes progressive dec						
5.Rising titer (4X) ind	icates relapse, reinfection, or treat	ment failure and r	need for retreatment.				
	e in early primary, late latent, and ly reactive tests should always be c			emal antibody absorptiontest)			
SHORTTERM FALSE PO 1.Acute viral illnesse	DSITIVE TEST RESULTS (<6 MONTHS s (e.g., hepatitis, measles, infectio nlamydia; Malaria infection.	DURATION) MAY	OCCURIN:				
1.Serious underlying	SITIVE TEST RESULTS (>6 MONTHS disease e.g., collagen vascular dis						
 2.Intravenous drug users. 3.Rheumatoid arthritis, thyroiditis, AIDS, Sjogren's syndrome. 4.<io %="" 70="" li="" of="" older="" patients="" thanage="" years.<=""> 5.Patients taking some anti-hypertensive drugs. </io>							
	5. 0						
	**	* End Of Rep	ort * * *				
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	Br	9ª	opra				
	<u>.</u>	-+					
	DR.VINAY CHOPRA		M CHOPRA				
	CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROB		ANT PATHOLOGIST ID (PATHOLOGY)				

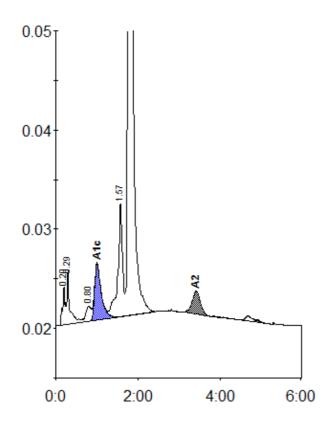
KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



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Patient report

Bio-Rad	DATE: 11/27/2024
D-10	TIME: 05:43 PM
S/N: #DJ6F040603	Software version: 4.30-2
Sample ID:	01521513
Injection date	11/27/2024 05:40 PM
Injection #: 10	Method: HbA2/F
Rack #:	Rack position: 10



Peak table - ID: 01521513							
Peak	R.time	Height	Area	Area %			
Ala	0.20	3865	19141	1.3			
A1b	0.29	5426	22394	1.5			
LA1c/CHb-1	0.80	1559	13504	0.9			
A1c	1.00	5751	64844	6.3			
P3	1.57	11458	91273	6.2			
A0	1.78	266858	1236288	83.6			
A2	3.42	2258	31040	2.9			
Total Area:	1478484						

Concentration:	%
A1c	6.3
A2	2.9