



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1598920
COLLECTED BY	:		REG. NO./LAB NO.	: 012409020016
REFERRED BY	:		REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149		COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	BALA CANTT	REPORTING DATE	: 02/Sep/2024 09:38AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	CON	APLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by Calorimetric		13.2	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.56 ^H	Millions/c	cmm 3.50 - 5.00
PACKED CELL VOLUN		41.8	%	37.0 - 50.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)			fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	75.1 ^L	п	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	23.6 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL	32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER ION WIDTH (RDW-CV)	15.2	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	12.0	6	
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42.8	fL	35.0 - 56.0
MENTZERS INDEX		13.51	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	X	20.41	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED		20.41	KAHO	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE CO	OUNT (TLC) ' by sf cube & microscopy	8280	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
by AUTOMATED 6 PAR	RT HEMATOLOGY ANALYZER		0/	
NUCLEATED RED BLC by CALCULATED BY A	UD CELLS (NRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCO	<u> DCYTE COUNT (DLC)</u>			
NEUTROPHILS		59	%	50 - 70



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

KOS Central Lab:6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

NAME : Mrs. RAMANDEEP KAUR AGE/ GENDER : 35 YRS/FEMALE **PATIENT ID** :1598920 **COLLECTED BY** :012409020016 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :02/Sep/2024 09:19 AM **BARCODE NO.** :01516149 **COLLECTION DATE** :02/Sep/2024 09:24AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 09:38AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 36 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 3 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4885 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2981 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 166 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 248 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 208000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.26 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 96000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 46.4^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (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
 www.koshealthcare.com







	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	I	PATIENT ID	: 1598920
COLLECTED BY	:	F	REG. NO./LAB NO.	: 012409020016
REFERRED BY	:	F	REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149	(COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 02/Sep/2024 02:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		1
		Value	11-24	
Test Name	GLYCC	Value	Unit EMOGLOBIN (HBA1C)	Biological Reference interval
GLYCOSYLATED HAEI NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)		EMOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI.	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL TION (ADA):	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI. REFERENCE GROUP	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): 'COSYLATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI NHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAG by HPLC (HIGH PERFO NTERPRETATION: Non dia Non dia A	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIA GLY	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIAT GLY Goals c	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years of Therapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAE 11.7 ^H 289.09 ^H ABETES ASSOCIAT GLY Goals c	EMOGLOBIN (HBA1C) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Ch MD (Pathology & Chairman & Con		(Pathology)
NAME	: Mrs. RAMANDEEP KAUR		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1598920
COLLECTED BY	:	REG. NO./LAB NO.	: 012409020016
REFERRED BY	:	REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	:01516149	COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Sep/2024 09:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMENTATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	39 ^H mm/1st l	hr 0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitio ected by other conditions besides	ner exactly where the inflammation is in the inflammation. For this reason, the ESR is ty	pically used in conjunction with other test such
3. This test may also systemic lupus eryth CONDITION WITH LO	be used to monitor disease activ ematosus	ity and response to therapy in both of the a	bove diseases as well as some others, such as
A low ESR can be see (polycythaemia), sign	en with conditions that inhibit the	e normal sedimentation of red blood cells, s punt (leucocytosis) , and some protein abno	uch as a high red blood cell count rmalities. Some changes in red cell shape (suc

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while exprise contrace and quiping may decrease it.





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

aspirin, cortisone, and quinine may decrease it



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	PATIEN	T ID	: 1598920
COLLECTED BY	:	REG. NO)./LAB NO.	: 012409020016
REFERRED BY	:	REGIST	RATION DATE	: 02/Sep/2024 09:19 AM
ARCODE NO.	:01516149	COLLEC	TION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 02/Sep/2024 02:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/B	IOCHEMISTRY	Y
		GLUCOSE FASTI	NG (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA se - peroxidase (god-pod)	306.18 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is c lucose level between 100 - 125 n ion of 75 gms of glucose) is recon lucose level of above 125 mg/dl i ing plasma glucose level in exces	considered normal. ng/dl is considered as glu nmended for all such patie s highly suggestive of dial	petic state. A repea	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a atory for diabetic state.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

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







Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Yugam Chopra MD (Pathology)

MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. RAMANDEEP KAUR **AGE/ GENDER** : 35 YRS/FEMALE **PATIENT ID** :1598920 **COLLECTED BY** :012409020016 REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** :02/Sep/2024 09:19 AM **BARCODE NO.** :01516149 **COLLECTION DATE** :02/Sep/2024 09:24AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 10:17AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 190.58 mg/dL OPTIMAL: < 200.0 by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 TRIGLYCERIDES: SERUM 123.86 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 HDL CHOLESTEROL (DIRECT): SERUM 64.27 mg/dL LOW HDL: < 30.0 by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -60.0 HIGH HDL: > OR = 60.0LDL CHOLESTEROL: SERUM 101.54 mg/dL OPTIMAL: < 100.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 NON HDL CHOLESTEROL: SERUM 126.31 mg/dL OPTIMAL: < 130.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 24.77 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY

TOTAL LIPIDS: SERUM 505.02 by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM 2.97 by CALCULATED, SPECTROPHOTOMETRY LDL/HDL RATIO: SERUM 1.58 by CALCULATED, SPECTROPHOTOMETRY

350.00 - 700.00 LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0

HIGH RISK: > 6.0

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

mg/dL

RATIO

RATIO





FEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	· · · · · ·	Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	PATIE	NT ID	: 1598920
COLLECTED BY	:	REG. N	IO./LAB NO.	: 012409020016
REFERRED BY	:	REGIS	TRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	:01516149	COLLE	CTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.93 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (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







Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist DAMANDEED VALD

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

NAME	: Mrs. RAMANDEEP KAUR		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1598920
COLLECTED BY	:	REG. NO./LAB NO.	: 012409020016
REFERRED BY	:	REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149	COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	Unit	Biological Reference interval

LIVEF	R FUNCTION TEST	(Complete)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.66	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	92.3 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	198.5 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.46	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	140.39 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	141.02 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.07	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.53	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	3.54 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1	RATIO	1.00 - 2.00

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. RAMANDEEP KAUR		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1598920
COLLECTED BY	:	REG. NO./LAB NO.	: 012409020016
REFERRED BY	:	REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149	COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
Test Name		Value Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:	

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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







Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

Biological Reference interval

NAME AGE/ GENDER : 35 YRS/FEMALE **PATIENT ID** :1598920 **COLLECTED BY** :012409020016 REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** :02/Sep/2024 09:19 AM : **BARCODE NO.** :01516149 **COLLECTION DATE** :02/Sep/2024 09:24AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 10:17AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit

Dr. Vinay Chopra

: Mrs. RAMANDEEP KAUR

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

KID	NEY FUNCTION TE	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	22.15	mg/dL	10.00 - 50.00
CREATININE: SERUM by enzymatic, spectrophotometery	0.78	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry	10.35	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	13.27	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by Calculated, spectrophotometry	28.4	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.02	mg/dL	2.50 - 6.80
CALCIUM: SERUM by Arsenazo III, spectrophotometry	9.81	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	2.89	mg/dL	2.30 - 4.70
ELECTROLYTES			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	3.87	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	104.85	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM	101.5		

by CALCULATED **INTERPRETATION:**

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (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





		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology)		m Chopra D (Pathology) nt Pathologist	
AME	: Mrs. RAM	ANDEEP KAUR				
GE/ GENDER	: 35 YRS/FE	MALE	РА	FIENT ID	: 1598920	
					: 012409020016	
OLLECTED BY	:			G. NO./LAB NO.		
EFERRED BY	:			GISTRATION DATE	:02/Sep/202409:1	9 AM
ARCODE NO.	:01516149		CO	LLECTION DATE	: 02/Sep/2024 09:2-	4AM
LIENT CODE.	: KOS DIAGN	JOSTIC LAB	RE	PORTING DATE	:02/Sep/2024 10:1	7AM
LIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBA	ALA CANTT			
est Name			Value	Unit	Biological	Reference interval
Postrenal azotemia Prerenal azotemia ECREASED RATIO (<	20:1) WITH ELE a (BUN rises di superimposec 10:1) WITH DEC	VATED CREATININE LEVE sproportionately more the on renal disease.		(e.g. obstructive uro	pathy).	
Acute tubular necr Low protein diet a						
Severe liver diseas						
Other causes of de						
		nan creatinine diffuses of ea is virtually absent in l		lar fluid).		
SIADH (syndrome of	of inappropiate	e antidiuretic harmone) o	due to tubular s	ecretion of urea.		
Pregnancy.						
		REASED CREATININE: es conversion of creatine	to croatinino)			
Rhabdomyolysis (r						
Muscular patients	who develop i					
IAPPROPIATE RATIO				dale annalis marit	la statu sa sudatu sa tu	al made and an alaba da di
. Diabetic ketoacido nould produce an in			e in creatinine v	vitri certain methodo	logies,resulting in norma	ai ratio when denydratio
. Cephalosporin the	rapy (interfere	s with creatinine measur	rement).			
STIMATED GLOMERI	JLAR FILTERAT	ION RATE:				7
CKD STAGE		DESCRIPTION			SSOCIATED FINDINGS	-
G1 G2		ormal kidney function Kidney damage with		90 90	No proteinuria Presence of Protein ,	4
G2		normal or high GFR	>		bumin or cast in urine	
G3a		Vild decrease in GFR	60	-89		1
G3b		oderate decrease in GFR		0-59		1
		avera degrades in CED		20		1

G4

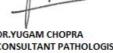
G5

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

Severe decrease in GFR

Kidney failure

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



15-29

<15

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







	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugan MD EO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	PATIEN	ГID	: 1598920
COLLECTED BY	:	REG. NO	./LAB NO.	: 012409020016
REFERRED BY	:	REGISTI	RATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	:01516149	COLLEC	TION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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

MBBS, MD (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







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. RAMANDEEP KAUR **AGE/ GENDER** : 35 YRS/FEMALE **PATIENT ID** :1598920 **COLLECTED BY** :012409020016 REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** :02/Sep/2024 09:19 AM : **BARCODE NO.** :01516149 **COLLECTION DATE** :02/Sep/2024 09:24AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 10:17AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
	IRON PROP	FILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	69.7	μg/dL	37.0 - 145.0
UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM by FERROZINE, SPECTROPHOTOMETERY	231.91	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY	301.61	μg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUM by CALCULATED, SPECTROPHOTOMETERY (FERENE)	23.11	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE) INTERPRETATION:-	214.14	mg/dL	200.0 - 350.0

VARIABLES ANEMIA OF CHRONIC DISEASE		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	SERUM IRON: Normal to 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.

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):

 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.



KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

NAME





	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	P	ATIENT ID	: 1598920
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012409020016
REFERRED BY	:	R	EGISTRATION DATE	:02/Sep/2024 09:19 AM
BARCODE NO.	:01516149	C	DLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRI	NOLOGY	
	THYR	OID FUNCTI	ON TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM iescent microparticle immunoassay)	0.894	ng/mL	0.35 - 1.93
THYROXINE (T4): SE		9.4	μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	2.187	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to a day has influence on the trilodothyronine (T3).Fai		ulates the produc	ction and secretion of the me	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levies in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MD	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1598920
COLLECTED BY	:	REG. NO./LAB NO.	: 012409020016
REFERRED BY	:	REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149	COLLECTION DATE	:02/Sep/202409:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	

Test Name			Value	Unit		Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (µIU/mL)		
	1st Trimester			0.10 – 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

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

DECREASED TSH 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.

8. Pregnancy: 1st and 2nd Trimester





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1598920
COLLECTED BY	:		REG. NO./LAB NO.	: 012409020016
REFERRED BY	:		REGISTRATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	:01516149		COLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	VI		YDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM Nescence Immunoassay)	10.2 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:				
		< 20 21 - 29		
	FICIENT: ED RANGE:	30 - 100		ig/mL ig/mL
INTOXI	CATION:	> 100	r	ig/mL blecalciferol (from animals, Vitamin D3), or by
2.25-OHVitamin D re- tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	und by a transport protein while rimary role in the maintenance ion, skeletal calcium deposition hay lead to failure to mineralize posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activ need Liver disease econdary Hyperparathroidism (I rugs: anti-epileptic drugs like pho D is Rare, and is seen only after pa and hyperphophatemia. ent therapy in deficient individual individuals as compare to whites,	ir and transport for in circulation. of calcium homeo , calcium mobiliza newly formed ost ity Mild to Moderate enytoin, phenoba prolonged exposur Is must be monito	orm of Vitamin D and trans ostatis. It promotes calciu ition, mainly regulated by seoid in bone, resulting in deficiency) rbital and carbamazepine, re to extremely high doses pred by periodic assessme	sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & 1 Chairman & Const	1icrobiology)	Dr. Yugam MD O & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT	ID	: 1598920
COLLECTED BY	:	REG. NO. /	LAB NO.	: 012409020016
REFERRED BY	:	REGISTR	ATION DATE	: 02/Sep/2024 09:19 AM
BARCODE NO.	: 01516149	COLLECT	ON DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI		: 02/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
INTERPRETATION:-				
	SED VITAMIN B12	DEC		N B12
	SED VITAMIN B12 nin C	DEC 1.Pregnancy		NB12
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro	nin C gen	1.Pregnancy 2.DRUGS:Aspirin, A		
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	nin C gen nin A	1.Pregnancy2.DRUGS:Aspirin, A3.Ethanol Igestion	nti-convulsants	
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	nin C gen nin A njury	1.Pregnancy 2.DRUGS:Aspirin, A 3.Ethanol Igestion 4. Contraceptive Ha	nti-convulsants	
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferation 6.Uremia	nin C gen nin A njury	1.Pregnancy 2.DRUGS:Aspirin, A 3.Ethanol Igestion 4. Contraceptive Ha 5.Haemodialysis 6. Multiple Myelon	nti-convulsants irmones ia	

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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







	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RAMANDEEP KAUR			
AGE/ GENDER	: 35 YRS/FEMALE	PA	TIENT ID	: 1598920
COLLECTED BY	:	RE	EG. NO./LAB NO.	: 012409020016
REFERRED BY	:	RF	EGISTRATION DATE	:02/Sep/202409:19AM
BARCODE NO.	: 01516149		OLLECTION DATE	: 02/Sep/2024 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 02/Sep/2024 01:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
	URINE RO	OUTINE & MICRO	DSCOPIC EXAMINAT	ΓΙΟΝ
PHYSICAL EXAMINA				
QUANTITY RECIEVE		10	ml	
	CTANCE SPECTROPHOTOMETRY	10		
COLOUR		AMBER YELLO	WC	PALE YELLOW
	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
TRANSPARANCY	CTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Nogativo		
	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		2+		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		5.0		
pH	CTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	noganio		
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	NUTTIAI	LU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
-	CTANCE SPECTROPHOTOMETRY			
BLOOD	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANUL OF LUTINOP AUTOMETRY	NEGATIVE (-v	ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		- /	

MICROSCOPIC EXAMINATION

677 P. An

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

NAME	: Mrs. RAMANDEEP KAUR					
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID		: 1598920		
COLLECTED BY :		REG. NO./LAB NO.		: 012409020016		
REFERRED BY	:	REGISTR	ATION DATE	: 02/Sep/2024 09:19 AM : 02/Sep/2024 09:24AM		
BARCODE NO.	: 01516149	COLLECT	CTION DATE			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 02/Sep/2024 01:51PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3		
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	0 - 5		
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS		6-8	/HPF	ABSENT		
		NEGATIVE (-ve)		NEGATIVE (-ve)		

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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



NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT