

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho	gy)	gam Chopra MD (Pathology) ıltant Pathologist	
AGE/ GENDER: 54 YRS/FECOLLECTED BY:REFERRED BY:BARCODE NO.: 01518450CLIENT CODE.: KOS DIAGECLIENT ADDRESS: 6349/1, N	NOSTIC LAB ICHOLSON ROAD, AMBALA CA		: 07/Oct/2024 : 07/Oct/2024	09:15 AM 10:23AM 10:36AM
Test Name	Value	Unit	Biolo	gical Reference interval
	SWASTHYA	WELLNESS PANEL:	GT	
	COMPLETE	E BLOOD COUNT (CBC)		
RED BLOOD CELLS (RBCS) COUNT	AND INDICES			
HAEMOGLOBIN (HB)	13	gm/c	dL 12.0	- 16.0
RED BLOOD CELL (RBC) COUNT	4.93	Millio	ons/cmm 3.50	- 5.00
by HYDRO DYNAMIC FOCUSING, ELEC PACKED CELL VOLUME (PCV)	41.3	%	37.0	- 50.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR VOLUME (N		fL	80.0	- 100.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR HAEMOGLO		- pg	27.0	- 34.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR HEMOGLO	MATOLOGY ANALYZER			- 36.0
by CALCULATED BY AUTOMATED HE	MATOLOGY ANALYZER			
RED CELL DISTRIBUTION WIDTH ( by CALCULATED BY AUTOMATED HE	MATOLOGY ANALYZER	%		) - 16.00
RED CELL DISTRIBUTION WIDTH ( by calculated by automated he		fL	35.0	- 56.0
MENTZERS INDEX	17.02	2 RATI		THALASSEMIA TRAIT: < 13.0 DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	23	RATI	O BETA	THALASSEMIA TRAIT:<= 65.0 DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)				
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE &	6410 MICROSCOPY	/cmr	n 4000	- 11000
NUCLEATED RED BLOOD CELLS (nl	RBCS) NIL		0.00	- 20.00
by AUTOMATED 6 PART HEMATOLOG NUCLEATED RED BLOOD CELLS (nl by CALCULATED BY AUTOMATED HE DIFFERENTIAL LEUCOCYTE COUNT	RBCS) % NIL MATOLOGY ANALYZER	%	< 10 '	%
NEUTROPHILS by flow cytometry by sf cube &	56 MICROSCOPY	%	50 - 7	0

57 

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

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







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. JASWINDER KAUR AGE/ GENDER : 54 YRS/FEMALE **PATIENT ID** :1636452 **COLLECTED BY** :012410070014 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Oct/2024 09:15 AM **BARCODE NO.** :01518450 **COLLECTION DATE** :07/0ct/2024 10:23AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Oct/2024 10:36AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 38 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 4 % 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 3590 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 2436 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 128 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 256 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. 150000 - 450000 PLATELET COUNT (PLT) 167000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.22 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 79000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 47.3<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16.6 %

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Chopra





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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	:01518450	C	OLLECTION DATE	: 07/Oct/2024 10:23AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:07/Oct/202403:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name	GLYCC	Value SYLATED HAE	Unit MOGLOBIN (HBA1C)	Biological Reference interval
GLYCOSYLATED HAEN NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)			Biological Reference interval 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI.	OSYLATED HAE 12.6 <sup>H</sup> 314.92 <sup>H</sup> ABETES ASSOCIAT	MOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI. REFERENCE GROUP	OSYLATED HAE 12.6 <sup>H</sup> 314.92 <sup>H</sup> ABETES ASSOCIAT	MOGLOBIN (HBA1C) % mg/dL 10N (ADA): COSYLATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI 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	OSYLATED HAE 12.6 <sup>H</sup> 314.92 <sup>H</sup> ABETES ASSOCIAT	MOGLOBIN (HBA1C) % mg/dL 10N (ADA): COSYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO NTERPRETATION: Non dia Non dia	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	OSYLATED HAE 12.6 <sup>H</sup> 314.92 <sup>H</sup> ABETES ASSOCIAT	MOGLOBIN (HBA1C) % mg/dL 10N (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN 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	ABETES ASSOCIAT	MOGLOBIN (HBA1C) % mg/dL 10N (ADA): COSYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00

**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: Ilnd 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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	<b>Dr. Vinay Cho</b> MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mrs. JASWINDER KAUR			
AGE/ GENDER	: 54 YRS/FEMALE	PA	TIENT ID	: 1636452
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 07/Oct/2024 10:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIME	INTATION RATE (ESF	8)
	MENTATION RATE (ESR)	9	mm/1st h	
systemic lupus erytho CONDITION WITH LOY A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	ematosus <b>N ESR</b> n with conditions that inhibit the n ificantly high white blood cell cou e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CR <b>by as many other factors as is ESR</b> , ed, it is typically a result of two typ ye a higher ESR, and menstruation	normal sedimentat nt (leucocytosis) , R. of inflammation. P, either at the sta <b>making it a better</b> bes of proteins, glo and pregnancy car	ion of red blood cells, su and some protein abnor art of inflammation or as marker of inflammation bulins or fibrinogen.	malities. Šome changes in red cell shape (such it resolves.





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REFERRED BY : REGISTRATION DATE : 07/Oct/2024 09:15 AM BARCODE NO. : 01518450 COLLECTION DATE : 07/Oct/2024 10:23AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 07/Oct/2024 12:06PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F): PLASMA 161.29 <sup>H</sup> mg/dL NORMAL: < 100.0	AGE/ GENDER	: 54 YRS/FEMALE	РАТ	IENT ID	: 1636452
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GLUCOSE FASTING (F): PLASMA 161.29 <sup>H</sup> mg/dL NORMAL: < 100.0	Fest Name		Value	Unit	Biological Reference interval
101.27		CLIN	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		CLIN			r
	by GLUCOSE OXIDAS INTERPRETATION IN ACCORDANCE WIT 1. A fasting plasma g	F): PLASMA F): PEROXIDASE (GOD-POD) H AMERICAN DIABETES ASSOCIA lucose level below 100 mg/dl is	GLUCOSE FAS 161.29 <sup>H</sup> TION GUIDELINES: considered normal.	TING (F) mg/dL	NORMAL: < 100.0





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

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SO 9001 : 2008 CERT	IFIED LAB	1	EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY	: <b>Mrs. JASWINDER KAUR</b> : 54 YRS/FEMALE :	REG	IENT ID . NO./LAB NO. ISTRATION DATE	: 1636452 <b>: 012410070014</b> : 07/Oct/2024 09:15 AM
BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: 01518450 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	COL REP	LECTION DATE ORTING DATE	: 07/Oct/2024 10:23AM : 07/Oct/2024 11:55AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		211.68 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	158.5 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		47.91	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		132.07 <sup>H</sup>	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		163.77 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		31.7	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI	N	581.86	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	4.42 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by CALCULATED, SPE		2.76	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	am	Gho	ina	

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

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

Page 6 of 14

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:07/Oct/2024 11:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.31	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 recommended.

3. 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. 4. 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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist NAME : Mrs. JASWINDER KAUR AGE/ GENDER : 54 YRS/FEMALE **PATIENT ID** :1636452 **COLLECTED BY** :012410070014 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Oct/2024 09:15 AM **BARCODE NO.** :01518450 **COLLECTION DATE** :07/Oct/2024 10:23AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Oct/2024 12:06PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 1.31<sup>H</sup> mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 **BILIRUBIN DIRECT (CONJUGATED): SERUM** 0.00 - 0.40 0.45<sup>H</sup> mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.86 0.10 - 1.00 mg/dL by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 44.67 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 59.01<sup>H</sup> U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.76 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 128 U/L 40.0 - 150.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM U/L 0.00 - 55.0 80<sup>H</sup> by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 7.87 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.74 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

by CALCULATED, SPECTROPHOTOMETRY

# **INTERPRETATION**

**GLOBULIN: SERUM** 

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:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)

3.13

1.51





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST

DR.YUGAM CHOPRA

gm/dL

RATIO



2.30 - 3.50

1.00 - 2.00

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology Chairman & Consultant Patholo		(Pathology)
NAME	: Mrs. JASWINDER KAUR		
AGE/ GENDER	: 54 YRS/FEMALE	PATIENT ID	: 1636452
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012410070014
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 07/Oct/2024 09:15 AM
BARCODE NO.	: 01518450	<b>COLLECTION DATE</b>	: 07/Oct/2024 10:23AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:07/Oct/2024 12:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ITT	
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).

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)

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Test Name		Value	Unit	Biological Reference interval
	КІ	ONEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		45.23	mg/dL	10.00 - 50.00
-	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.67	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		21.14	mg/dL	7.0 - 25.0
by CALCULATED, SPE		2	ing, at	7.0 20.0
	GEN (BUN)/CREATININE	31.55 <sup>H</sup>	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE				
UREA/CREATININE R		67.51	RATIO	
by CALCULATED, SPE				
URIC ACID: SERUM		4.5	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	EPERUXIDASE	9.61	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	CTROPHOTOMETRY	7.01	ing, at	0.00 10.00
PHOSPHOROUS: SER		4.08	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBD ELECTROLYTES	ATE, SPECTROPHOTOMETRY			
		105	mana al /l	
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	135	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.06	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	E ELECTRODE)			
CHLORIDE: SERUM by ISE (ION SELECTIV		101.25	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	103.8		
(eGFR): SERUM		103.0		
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)



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value Uni	t Biological	Reference interval
<ol> <li>Acute tubular necr</li> <li>Low protein diet and</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> </ol>	nd starvation.	blood).		
<ol> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;</li> <li>1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido</li> <li>should produce an in</li> <li>2. Cephalosporin their</li> </ol>	<b>10:1) WITH INCREASED CREATININE:</b> py (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure.	e to creatinine). se in creatinine with certain meth		l ratio when dehydratio
8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	ID:1) WITH INCREASED CREATININE: py (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increas creased BUN/creatinine ratio). apy (interferes with creatinine measu JLAR FILTERATION RATE: DESCRIPTION 	e to creatinine). se in creatinine with certain meth urement). GFR (mL/min/1.73m2) >90 >90 60 -89	nodologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	l ratio when dehydratio
8. Pregnancy. <b>DECREASED RATIO (</b> < 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>ESTIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u>	ID:1) WITH INCREASED CREATININE: py (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increas creased BUN/creatinine ratio). apy (interferes with creatinine measu JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	e to creatinine). se in creatinine with certain meth urement). GFR (mL/min/1.73m2) >90 >90 60 -89	nodologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	l ratio when dehydratio

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

Kidney failure

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

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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

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Test Name		Value	Unit	Biological Reference interval
	ТНУ		CRINOLOGY	
	E (T3): SERUM iescent microparticle immunoassay,	0.794	ng/mL	0.35 - 1.93
THYROXINE (T4): SEF		7.98	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY, RASENSITIVE	2.22	µIU/mL	0.35 - 5.50

trilodothyronine (T3).Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

 CLINICAL CONDITION
 T3
 T4
 TSH

 Primary Hypothyroidism:
 Reduced
 Increased (Significantly)

 Subclinical Hypothyroidism:
 Normal or Low Normal
 High

CLINICAL CONDITION	13	14	130
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 levles 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.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	e Refferance Age Range (ng/mL)		Refferance Age Range (µg/dL)		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





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Test Name	Value	Unit	Biological Reference interval

lest Name			Value	Unit		Biological Reference inte
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	
	RECO	MMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( 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

\*\*\* End Of Report \*





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