



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)	M	m Chopra D (Pathology) nt Pathologist	
AGE/ GENDER : 3 COLLECTED BY : REFERRED BY : 0 BARCODE NO. : 0 CLIENT CODE. : F	Mrs. KAJAL SHARMA 30 YRS/FEMALE CENTRAL PHOENIX CLUB (AMBAL 01527596 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMBA		COLLECTION DATE REPORTING DATE	: 1802923 : 012503230027 : 23/Mar/2025 09:23 : 23/Mar/2025 09:24 : 23/Mar/2025 10:23	AM
Test Name		Value	Unit	Biological H	Reference interval
<u>RED BLOOD CELLS (R</u> HAEMOGLOBIN (HB)	COMP BCS) COUNT AND INDICES	LETE BL 10.8 ^L	OOD COUNT (CBC) gm/dL	12.0 - 16.0	
by CALORIMETRIC RED BLOOD CELL (RBC		10.8 ^L 4.04	Millions		
by HYDRO DYNAMIC FOCL	ISING, ELECTRICAL IMPEDENCE				
	MATED HEMATOLOGY ANALYZER	34.6 ^L	%	37.0 - 50.0	
MEAN CORPUSCULAR	VOLUME (MCV) MATED HEMATOLOGY ANALYZER	85.6	fL	80.0 - 100.0	0
	HAEMOGLOBIN (MCH) MATED HEMATOLOGY ANALYZER	26.7 ^L	pg	27.0 - 34.0	
	HEMOGLOBIN CONC. (MCHC) MATED HEMATOLOGY ANALYZER	31.2 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV) mated hematology analyzer	14.8	%	11.00 - 16.	00
RED CELL DISTRIBUTI		47.6	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		21.19	RATIO	13.0	LASSEMIA TRAIT: < CIENCY ANEMIA:
GREEN & KING INDEX		31.32	RATIO	BETA THAI 65.0	LASSEMIA TRAIT:<= CIENCY ANEMIA: >
WHITE BLOOD CELLS TOTAL LEUCOCYTE CO		4590	/cmm	4000 - 110	00
by FLOW CYTOMETRY BY NUCLEATED RED BLO	SF CUBE & MICROSCOPY	NIL		0.00 - 20.0	
by AUTOMATED 6 PART H	EMATOLOGY ANALYZER	NIL	%	< 10 %	~





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







Dr. Yugam Chopra

	MD (Pathology & M Chairman & Consul	icrobiology)	MD CEO & Consultant	(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE]	PATIENT ID	: 1802923
COLLECTED BY	:]	REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AME	BALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596	(COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 23/Mar/2025 10:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	60	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	31	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	CYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT y by sf cube & microscopy	2754	/cmm	2000 - 7500
ABSOLUTE LYMPH		1423	/cmm	800 - 4900
ABSOLUTE EOSINC		46	/cmm	40 - 440
ABSOLUTE MONOC		367	/cmm	80 - 880
	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT	(PLT) OCUSING, ELECTRICAL IMPEDENCE	167000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.23	%	0.10 - 0.36
MEAN PLATELET V		14 ^H	fL	6.50 - 12.0
-	CELL COUNT (P-LCC)	84000	/cmm	30000 - 90000

50.4^H

16.1

Dr. Vinay Chopra

PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

PLATELET LARGE CELL RATIO (P-LCR)

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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



11.0 - 45.0

15.0 - 17.0





	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AMI	BALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 01:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLYCOS EMOGLOBIN (HbA1c):	SYLATED HA 5	EMOGLOBIN (HBA1) %	C) 4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY)			
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	96.8	mg/dL	60.00 - 140.00
<u>INTERPRETATION:</u>				
	AS PER AMERICAN D	ABETES ASSOCIA		
	REFERENCE GROUP		YCOSYLATED HEMOGLOGIB	(HBAIC) in %
Non dia	REFERENCE GROUP abetic Adults >= 18 years		YCOSYLATED HEMOGLOGIB <5.7	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		YCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years		YCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GL	YCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	(HBAIC) in %
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GL	VCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GL Goals Actions	YCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years of Therapy:	< 7.0

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







	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
AME	: Mrs. KAJAL SHARMA			
GE/ GENDER	: 30 YRS/FEMALE	PATI	ENT ID	: 1802923
OLLECTED BY	:	REG. 1	NO./LAB NO.	: 012503230027
EFERRED BY	: CENTRAL PHOENIX CLUB (AM	IBALA CANTT) REGIS	TRATION DATE	: 23/Mar/2025 09:23 AM
ARCODE NO.	:01527596	COLL	ECTION DATE	: 23/Mar/2025 09:24AM
IENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 23/Mar/2025 11:10AM
IENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
est Name		Value	Unit	Biological Reference interval
/stemic lupus eryth ONDITION WITH LO	ematosus W ESR in with conditions that inhibit the	normal sedimentation		bove diseases as well as some others, such as
olycythaemia), sig	lo coll anaomia) also lowor the ES	unt (leucocytosis) , and	some protein abnor	ich as a high red blood cell count malities. Some changes in red cell shape (sucl





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



Page 4 of 19





		ogy & Microbiology) Consultant Pathologis		(Pathology)
IAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLU	JB (AMBALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 11:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	DAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	INICAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA E - peroxidase (god-pod)	101.42 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.

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.



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







		hopra & Microbiology) onsultant Pathologis		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. KAJAL SHARMA : 30 YRS/FEMALE : : CENTRAL PHOENIX CLUB (: 01527596 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD		COLLECTION DATE REPORTING DATE	: 1802923 : 012503230027 : 23/Mar/2025 09:23 AM : 23/Mar/2025 09:24AM : 23/Mar/2025 12:03PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		205.27 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S. by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	76.98	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	70.68	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		119.19	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPE		134.59 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		15.4	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER	RUM	487.52	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	DL RATIO: SERUM	2.9	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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: 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 Chc MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AM	(BALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.69	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.09 ^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.

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





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 & Mi Chairman & Consult	icrobiology)		(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AMB	ALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI		0.28	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CCT (UNCONJUGATED): SERUM	0.19	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	19.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	15.8	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	1.23	RATIO	0.00 - 46.00
ALKALINE PHOSPI		62.95	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	13.68	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.14	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.78	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	3.36	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.13	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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)





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



INTERPRETATION





COLLECTED BY : REG. NO./LAB NO. : 012503230027
AGE/ GENDER: 30 YRS/FEMALEPATIENT ID: 1802923
NAME : Mrs. KAJAL SHARMA

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
 www.koshealthcare.com







NAME	: Mrs. KAJAL SHARMA					
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923		
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027		
REFERRED BY	: CENTRAL PHOENIX CLUB (AM	BALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM		
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 12:03PM		
CLIENT ADDRESS	LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
	KIDNI	Y FUNCTIO	N TEST (COMPLETE)			
UREA: SERUM	TE DEHYDROGENASE (GLDH)	30.1	mg/dL	10.00 - 50.00		
CREATININE: SERUI	IN	1.03	mg/dL	0.40 - 1.20		
BLOOD UREA NITRO		14.07	mg/dL	7.0 - 25.0		
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPEC	GEN (BUN)/CREATININE	13.66	RATIO	10.0 - 20.0		
UREA/CREATININE by CALCULATED, SPEC	RATIO: SERUM	29.22	RATIO			
URIC ACID: SERUM		4.09	mg/dL	2.50 - 6.80		
CALCIUM: SERUM by ARSENAZO III, SPEC		9.19	mg/dL	8.50 - 10.60		
PHOSPHOROUS: SER by phosphomolybda	UM te, spectrophotometry	2.96	mg/dL	2.30 - 4.70		
ELECTROLYTES						
SODIUM: SERUM by ISE (ION SELECTIVE	ELECTRODE)	135.7	mmol/L	135.0 - 150.0		
POTASSIUM: SERUM		4.12	mmol/L	3.50 - 5.00		
CHLORIDE: SERUM by ISE (ION SELECTIVE		101.78	mmol/L	90.0 - 110.0		
ESTIMATED GLOMI	ERULAR FILTERATION RATE					
(eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	75				

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.

3. GI haemorrhage.



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 Chopra MD (Pathology & Micro Chairman & Consultant	obiology)	Yugam Chopra MD (Pathology) nsultant Pathologist	
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1802923	
COLLECTED BY		REG. NO./LAB NO	. : 01250323002	7
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBAL			
BARCODE NO.	: 01527596	COLLECTION DAT	E : 23/Mar/2025 09	9:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	E : 23/Mar/2025 12	2:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value Un	it Biologi	cal Reference interval
9. Certain drugs (e.g. I NCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal creatinine production) tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on repat disease	_S:	e uropathy).	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r- 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. B. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in the of inappropriate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure.	S: nan creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine).	a.	mal ratio when dehydrati
 Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia CECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in- Cephalosporin ther 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in k of inappropiate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur JLAR FILTERATION RATE: DESCRIPTION Normal kidney function	S: nan creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine).	a. thodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria	mal ratio when dehydrati
 Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (rolling) Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in- Cephalosporin there STADE GLOMERL 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in the of inappropiate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	S: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine). in creatinine with certain met ement). GFR (mL/min/1.73m2)	a. thodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (rolling) Diabetic ketoacido Should produce an inc Cephalosporin ther CENTATED GLOMERL G1 G2 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. and starvation. b. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in the of inappropiate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. 1: sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	S: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine). in creatinine with certain met ement). GFR (mL/min/1.73m2) >90 >90	a. thodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria	
 P. Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (rist Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther ESTIMATED GLOMERU G1 G2 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. and starvation. b. creased urea synthesis. urea rather than creatinine diffuses of monemias (urea is virtually absent in the of inappropiate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. 1: sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR	S: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine). in creatinine with certain met ement). GFR (mL/min/1.73m2) >90 >90 60 -89	a. thodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r- 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVEL (BUN rises disproportionately more the superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. and starvation. b. creased urea synthesis. urea rather than creatinine diffuses ou monemias (urea is virtually absent in the of inappropiate antidiuretic harmone) of 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. 1: sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	S: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea to creatinine). in creatinine with certain met ement). GFR (mL/min/1.73m2) >90 >90	a. thodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	





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









/	Unit	Value		Test Name
		MBALA CANTT	: 6349/1, NICHOLSON ROAD, AM	CLIENT ADDRESS
: 23/Mar/2025 12:03PM	REPORTING DATE		: KOS DIAGNOSTIC LAB	CLIENT CODE.
: 23/Mar/2025 09:24AM	COLLECTION DATE		: 01527596	BARCODE NO.
: 23/Mar/2025 09:23 AM	REGISTRATION DATE	BALA CANTT)	: CENTRAL PHOENIX CLUB (AMB	REFERRED BY
: 012503230027	REG. NO./LAB NO.		:	COLLECTED BY
: 1802923	PATIENT ID		: 30 YRS/FEMALE	AGE/ GENDER
			: Mrs. KAJAL SHARMA	NAME
) (Pathology)	M	1icrobiology)	MD (Pathology & M Chairman & Consult	
	M	1icrobiology)		

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 Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT) R		REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	66.81	μg/dL	37.0 - 145.0
UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	215.82	µg/dL	150.0 - 336.0
	ING CAPACITY (TIBC)	282.63	µg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM ECTROPHOTOMETERY (FERENE)	23.64	%	15.0 - 50.0
TRANSFERRIN: SE		200.67	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

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

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):

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

% TRANSFERRIN SATURATION:

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



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 & Microt Chairman & Consultant I		Dr. Yugam MD (D & Consultant	(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT I	D	: 1802923
COLLECTED BY	:	REG. NO./I	AB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA	CANTT) REGISTRA	FION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596	COLLECTIO	N DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	G DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT		
Test Name	V	alue	Unit	Biological Reference interv
			V	
	E	ENDOCRINOLO	II	
		INDOCRINOLO D FUNCTION TES		
	THYROI			0.35 - 1.93
THYROXINE (T4): S	THYROI NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	D FUNCTION TES	T: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	THYROI NE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay)	D FUNCTION TES 1.024	T: TOTAL ng/mL	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	THYROI NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM IESCENT MICROPARTICLE IMMUNOASSAY) ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	D FUNCTION TES 1.024 7.71	T: TOTAL ng/mL μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to a day has influence on the trilodothyronine (T3).Fai	THYROI NE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay) ATING HORMONE (TSH): SERUM iescent microparticle immunoassay) rasensitive	D FUNCTION TES 1.024 7.71 4.039	T: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50% Hence time o</i> etabolically active hormones, thyroxine (T4)and

CLINICAL CONDITION	T3	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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TS	
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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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 Pathologis		(Pathology)
NAME	: Mrs. KAJAL SHARMA		
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1802923
COLLECTED BY	:	REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596	COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name			Value		t	Biological Reference interval
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	
	RECON	MMENDATIONS OF TSH L	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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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)







KOS Diagnostic Lab (A Unit of KOS Healthcare)

	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologi		(Pathology)
NAME	: Mrs. KAJAL SHARM	IA		
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1802923
COLLECTED BY	:		REG. NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX	CLUB (AMBALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	:01527596		COLLECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING DATE	: 23/Mar/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANT	Γ	
Test Name		Value	Unit	Biological Reference interval
			FAMINS YDROXY VITAMIN D	3
by CLIA (CHÈMILUMIN	DROXY VITAMIN D3) iescence immunoassay,		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>Interpretation:</u> Def	CIENT:	< 20	n	g/mL
INSUF	FICIENT:	21 - 29	n	g/mL
	ED RANGE: ICATION:	<u> </u>		g/mLg/mL
2.25-OHVitamin D i tissue and tightly bo 3.Vitamin D plays a i phosphate reabsorp 4.Severe deficiency i DECREASED: 1.Lack of sunshine e: 2.Inadeguate intake 3.Depressed Hepatic 4.Secondary to adva	represents the main boo und by a transport prot primary role in the main tion, skeletal calcium de may lead to failure to m kposure. , malabsorption (celiac Vitamin D 25- hydroxyl nced Liver disease Secondary Hyperparath	ein while in circulation. tenance of calcium home position, calcium mobiliz ineralize newly formed os disease) ase activity roidism (Mild to Moderat	form of Vitamin D and trans costatis. It promotes calciur ation, mainly regulated by steoid in bone, resulting in r e deficiency) arbital and carbamazepine,	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.
6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis severe hypercalcemi CAUTION: Replacemi hypervitaminosis D	a and hyperphophatem ent therapy in deficient individuals as compare i	a. individuals must be monit	tored by periodic assessmen	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







	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)		
NAME	: Mrs. KAJAL SHARMA					
AGE/ GENDER	: 30 YRS/FEMALE	PAT	IENT ID	: 1802923		
COLLECTED BY	:	REG.	. NO./LAB NO.	: 012503230027		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT) REG	ISTRATION DATE	: 23/Mar/2025 09:23 AM		
BARCODE NO.	: 01527596		LECTION DATE	: 23/Mar/2025 09:24AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 23/Mar/2025 12:03PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD					
Test Name		N/alma	TL\$4	Diala si cal Dafaman ca internal		
Test Name		Value	Unit	Biological Reference interval		
1.Ingestion of Vitar		1.Pregnancy				
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitan			3.Ethanol Igestion 4. Contraceptive Harmones			
4.Hepatocellular in						
5.Myeloproliferativ 6.Uremia	e disorder	5.Haemodialy 6. Multiple M				
1.Vitamin B12 (coba 2.In humans, it is ob 3.The body uses its v	lamin) is necessary for hemato tained only from animal protein itamin B12 stores very econom	poiesis and normal neur ns and requires intrinsic	onal function. factor (IF) for absorp	tion. n and returning it to the liver; very little is		
ileal resection, smal 5.Vitamin B12 deficie proprioception, poor the neurologic defec 6.Serum methylmalc 7.Follow-up testing f NOTE: A normal seru	I intestinal diseases). ency frequently causes macrocy coordination, and affective be ts without macrocytic anemia. nic acid and homocysteine leve or antibodies to intrinsic factor n concentration of vitamin B12	ytic anemia, glossitis, pe havioral changes. These els are also elevated in vi (IF) is recommended to does not rule out tissue	ripheral neuropathy, manifestations may c itamin B12 deficiency identify this potentia deficiency of vitamin	astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have states. Il cause of vitamin B12 malabsorption. B12. The most sensitive test for vitamin B12 surement of MMA and homocysteine should b		





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 Cho MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. KAJAL SHARMA			
AGE/ GENDER	: 30 YRS/FEMALE	PAT	IENT ID	: 1802923
COLLECTED BY	LLECTED BY :		NO./LAB NO.	: 012503230027
REFERRED BY	: CENTRAL PHOENIX CLUB (AM	MBALA CANTT) REG	ISTRATION DATE	: 23/Mar/2025 09:23 AM
BARCODE NO.	: 01527596	COLI	LECTION DATE	: 23/Mar/2025 09:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 23/Mar/2025 02:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	URINE RO	CLINICAL PAT UTINE & MICROS		ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVE		10	ml	
COLOUR	ANCE SPECTROPHOTOMETRY	PALE YELLOW	I	PALE YELLOW
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	ANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMIN				
REACTION	ANCE SPECTROPHOTOMETRY	ALKALINE		
PROTEIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	7.5		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve	e)	NEGATIVE (-ve)
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve	e) /HPF	0 - 3





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

Page 18 of 19





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

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

NAME	: Mrs. KAJAL SHARMA				
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1802923		
COLLECTED BY	:	REG. NO./LAB NO.	: 012503230027		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 23/Mar/2025 09:23 AM		
BARCODE NO.	: 01527596	COLLECTION DATE	: 23/Mar/2025 09:24AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Mar/2025 02:13PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name	Value	Unit	Biological Reference interval		

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	4-6	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***





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

