

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Microl Chairman & Consultant			(Pathology)
NAME	: Mrs. ASHA SINDHWANI			
AGE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1811415
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503290053
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 29/Mar/2025 05:54 PM
BARCODE NO.	: 01527999		COLLECTION DATE	: 29/Mar/2025 06:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 06:36PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	.A CANTT		
Test Name	N N	Value	Unit	<b>Biological Reference interval</b>
			LLNESS PANEL: 1	.5
		ETE BL	OOD COUNT (CBC)	
	LS (RBCS) COUNT AND INDICES	-		
HAEMOGLOBIN (H by CALORIMETRIC	B)	11.9 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL	(RBC) COUNT	4.34	Millions	2.50 - 5.00
PACKED CELL VO		36.2 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCU	LAR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	83.3	fL	80.0 - 100.0
MEAN CORPUSCU	LAR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.4	pg	27.0 - 34.0
MEAN CORPUSCU	LAR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.9	g/dL	32.0 - 36.0
RED CELL DISTRI	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.5	%	11.00 - 16.00
RED CELL DISTRI	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	48.4	fL	35.0 - 56.0
MENTZERS INDEX		19.19	RATIO	BETA THALASSEMIA TRAIT:
by CALCOLATED				13.0 IRON DEFICIENCY ANEMIA:
GREEN & KING IN	DEX	90.38	RATIO	>13.0 BETA THALASSEMIA TRAIT:
by CALCULATED				<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
	ELLS (WBCS)			
WHITE BLOOD C		6300	/cmm	4000 - 11000
TOTAL LEUCOCY	Y BY SF CUBE & MICROSCOPY			
TOTAL LEUCOCY by flow cytometry NUCLEATED RED		NIL		0.00 - 20.00





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

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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	AGE/ GENDER: 63 YRS/FEMALECOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01527999CLIENT CODE.: KOS DIAGNOSTIC LAB		Dr. Yugam MD CEO & Consultant TIENT ID G. NO./LAB NO. GISTRATION DATE LLECTION DATE PORTING DATE	(Pathology)
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
•	UTOMATED HEMATOLOGY ANALYZER			
	EUCOCYTE COUNT (DLC)	50	0/	50. 70
NEUTROPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	58	%	50 - 70
LYMPHOCYTES		33	%	20 - 40
	Y BY SF CUBE & MICROSCOPY	2	0/	1 6
EOSINOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES		6	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	0/	0 - 1
BASOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR	ROPHIL COUNT	3654	/cmm	2000 - 7500
	(BY SF CUBE & MICROSCOPY	2050		000 1000
ABSOLUTE LYMPH	OCYTE COUNT / BY SF CUBE & MICROSCOPY	2079	/cmm	800 - 4900
ABSOLUTE EOSIN		189	/cmm	40 - 440
	BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO	CYTE COUNT / by sf cube & microscopy	378	/cmm	80 - 880
,	OTHER PLATELET PREDICTIV	/E MARKERS.		
PLATELET COUNT	r (PLT)	163000	/cmm	150000 - 450000
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (P	CT) OCUSING, ELECTRICAL IMPEDENCE	0.17	%	0.10 - 0.36
MEAN PLATELET		10	fL	6.50 - 12.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
	CELL COUNT (P-LCC)	50000	/cmm	30000 - 90000
	CELL RATIO (P-LCR)	30.8	%	11.0 - 45.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
	BUTION WIDTH (PDW)	16	%	15.0 - 17.0
	CTED ON EDTA WHOLE BLOOD			



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Test Name	Value	Unit	<b>Biological Reference interval</b>





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 29/Mar/2025 07:07PM
CLIENT CODE.	: 6349/1, NICHOLSON ROAD, AM		WILLO DATE	. 23/ Wal/ 2023 07:071 W
CLIENT ADDRESS	. 0349/ 1, MICHOLSON ROAD, AF	WIDALA CAN'I I		
Test Name		Value	Unit	<b>Biological Reference interva</b>
	IAEMOGLOBIN (HbA1c):	6.8 <sup>H</sup>	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO.	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	0.8 148.46 <sup>H</sup>	mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER. by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)		mg/dL	
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP	148.46 <sup>H</sup>	mg/dL	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION: Non dia	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	148.46 <sup>H</sup>	mg/dL (ADA): /LATED HEMOGLOGIB <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	148.46 <sup>H</sup>	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION: NOT dia Non dia	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	148.46 <sup>H</sup>	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION: NOT dia Non dia	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	148.46 <sup>H</sup>	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION: NON dia A D	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) tiagnosing Diabetes	148.46 <sup>H</sup> IABETES ASSOCIATION GLYCOSY Goals of The	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	60.00 - 140.00 (HBAIC) in % (+
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVER. by HPLC (HIGH PERFO. INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	148.46 <sup>H</sup>	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	60.00 - 140.00 (HBAIC) in %

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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.



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CLIENT CODE.	: KOS DIAGNOS	FIC LAB		REPORTING I	DATE	: 29/Mar/20	025 07:07PN	Л
CLIENT ADDRESS	: 6349/1, NICHO	OLSON ROAD, AM	BALA CANTI					
Test Name			Value		Unit	Bi	ological Re	eference interval
		ERYTHROC	YTE SED	IMENTATIO	N RATE (	ESR)		
ERYTHROCYTE SE by RED CELL AGGREG INTERPRETATION:		. ,	56 <sup>H</sup>		mm/1st hr	0	- 20	
<ol> <li>ESR is a non-specifi immune disease, but of 2. An ESR can be affect as C-reactive protein</li> <li>This test may also be systemic lupus erythe <b>CONDITION WITH LOV</b> A low ESR can be seen (polycythaemia), signit as sickle cells in sickle <b>NOTE:</b></li> <li>ESR and C - reactive 2. Generally, ESR does</li> <li><b>CRP is not affected I</b></li> <li>If the ESR is elevate</li> <li>Women tend to hav</li> <li>Drugs such as dextraspirin, cortisone, and</li> </ol>	does not tell the h ted by other cond matosus <b>/ ESR</b> ficantly high whit e cell anaemia) al: protein (C-RP) ar s not change as ra <b>by as many other</b> d, it is typically a re a higher ESR, ar an, methyldopa,	nealth practitioner ditions besides infl r disease activity a that inhibit the no te blood cell count so lower the ESR. e both markers of pidly as does CRP, factors as is ESR, n result of two type ad menstruation a oral contraceptive	exactly when lammation. F and response ormal sedime t (leucocytos inflammation , either at the <b>naking it a be</b> so of proteins nd pregnancy	re the inflammat or this reason, the to therapy in bound is) , and some pr n. e start of inflammater tter marker of in , globulins or fib y can cause temp	tion is in the the ESR is typi oth of the ab ood cells, suc totein abnorn nation or as flammation. rinogen. jorary elevat	body or what ically used in ove diseases ch as a high re malities. Som it resolves.	is causing it conjunction as well as sc ed blood cel e changes ir	with other test such ome others, such as I count red cell shape (such





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LIENT CODE.	: KOS DIAGN			REPORTING DATE	: 29/Mar/2025 07:33PM
LIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD,	AMBALA CANTT		
est Name			Value	Unit	<b>Biological Reference interval</b>
			183.02 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0
LUCOSE FASTIN			183.02 <sup>H</sup>	mg/dL	
by GLUCOSE OXIDAS			183.02 <sup>H</sup>	mg/dL	
by GLUCOSE OXIDAS I <u>TERPRETATION</u> I ACCORDANCE WIT A fasting plasma g	E - PEROXIDASE H AMERICAN DI lucose level bel	(GOD-POD) ABETES ASSOCIA ow 100 ma/dl is	TION GUIDELINES: considered norm	al.	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
by GLUCOSE OXIDAS ITERPRETATION ACCORDANCE WIT A fasting plasma g A fasting plasma g st (after consumb	E - PEROXIDASE H AMERICAN DI lucose level bel lucose level bet ion of 75 ams of	(GOD-POD) ABETES ASSOCIA ow 100 mg/dl is ween 100 - 125 dlucose) is reco	TION GUIDELINES: considered norm mg/dl is consider mmended for all s	al. ed as glucose intolerant or uch patients.	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood
by GLUCOSE OXIDAS ITERPRETATION I ACCORDANCE WIT A fasting plasma g st (after consumpti A fasting plasma g	E - PEROXIDASE H AMERICAN DI. lucose level bel lucose level bet ion of 75 gms of lucose level of a	(GOD-POD) ABETES ASSOCIA ow 100 mg/dl is ween 100 - 125 glucose) is recon above 125 mg/dl	TION GUIDELINES: considered norm mg/dl is consider mmended for all s is highly suggesti	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a
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		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ASHA SINDHWANI			
AGE/ GENDER	: 63 YRS/FEMALE	I	PATIENT ID	: 1811415
COLLECTED BY	: SURJESH	I	REG. NO./LAB NO.	: 012503290053
<b>REFERRED BY</b>	:	I	REGISTRATION DATE	: 29/Mar/2025 05:54 PM
BARCODE NO.	: 01527999	(	COLLECTION DATE	: 29/Mar/2025 06:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 29/Mar/2025 07:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROI	FILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	169.91	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	DASE PAP			BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: S	ERUM	108.08	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO	L (DIRECT): SERUM	52.25	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ON			BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO	SFRUM	96.04	mg/dL	OPTIMAL: $< 100.0$
by CALCULATED, SPEC		20.04	iiig/uL	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES	FEROL: SERUM	117.66	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
VLDL CHOLESTER		21.62	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SEE		447.9	mg/dL	350.00 - 700.00
by CALCULATED, SPEC	-	++7.7	iiig/uL	550.00 - 700.00
CHOLESTEROL/HD		3.25	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
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KOS Diagnostic Lab (A Unit of KOS Healthcare)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	<b>Biological Reference interval</b>
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		1.84	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	2.07 <sup>L</sup>	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.

 Cow 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





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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER F	UNCTIO	N TEST (COMPLETE)	)
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.58	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.2	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.38	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	1 RIDOXAL PHOSPHATE	23.47	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	17.62	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.33	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	95	U/L	40.0 - 150.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM PHTOMETRY	[ 44	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.34	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.88	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	3.46	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	M	1.12	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:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly	/ Increased)

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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNEY	Y FUNCTIO	ON TEST (COMPLETI	E)
UREA: SERUM		29.5	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SER by ENZYMATIC, SPEC		0.96	mg/dL	0.40 - 1.20
-	ROGEN (BUN): SERUM	13.79	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	14.36	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININ		30.73	RATIO	
by CALCULATED, SPE		50.75	KAHO	
URIC ACID: SERUN		6.3	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		9.63	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		9.03	ilig/uL	8.50 - 10.00
PHOSPHOROUS: S		3.5	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES		100.0	17	125.0 150.0
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	139.3	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.6	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		104.40		00.0 110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		104.48	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RAT	<u>E</u>		
	MERULAR FILTERATION RATE			
(eGFR): SERUM				
by CALCULATED				
INTERPRETATION: To differentiate betw	een pre- and post renal azotemia.			

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.



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NAME	: Mrs. ASHA SINDH	VANI				
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REFERRED BY	·			RATION DATE	: 29/Mar/2025 05:5	
SARCODE NO.	: 01527999			FION DATE	: 29/Mar/2025 06:1	
LIENT CODE.	: KOS DIAGNOSTIC L			'ING DATE	: 29/Mar/2025 07:59	9PM
LIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CA	NTT			
Fest Name		Value	e	Unit	Biological	l Reference interval
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatin tetracycline, glucocort 20:1) WITH ELEVATED CF a (BUN rises disproporti superimposed on rena 10:1) WITH DECREASED	ine production) icoids) <b>REATININE LEVELS:</b> onately more than cre I disease.			osis, Cushing's syndrom	ne, high protein diet,
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 1. Postrenal azotemia <b>DECREASED RATIO (</b> 2. Dow protein diet and 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 8. Phenacimide therat 2. Rhabdomyolysis (r 8. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatin tetracycline, glucocorti <b>20:1) WITH ELEVATED CF</b> a (BUN rises disproporti superimposed on rena <b>10:1) WITH DECREASED</b> osis. Ind starvation. e. creased urea synthesis (urea rather than creatin monemias (urea is virtue) of inappropiate antidiur <b>10:1) WITH INCREASED (</b> py (accelerates converse eleases muscle creatin who develop renal failue sis (acetoacetate cause creased BUN/creatinin	ine production) icoids) REATININE LEVELS: onately more than cre disease. BUN : nine diffuses out of e ually absent in blood) retic harmone) due to CREATININE: sion of creatine to cre ine). ure. es false increase in cre e ratio).	eatinine) (e.g. d extracellular flu tubular secret eatinine).	obstructive uropa id).	athy).	
burns, surgery, cache 2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 4. Postrenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 4. Acute tubular necr 5. Low protein diet an 6. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 8. Phenacimide thera 8. Rhabdomyolysis (r 8. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido 5. Cephalosporin the	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatin tetracycline, glucocorti <b>20:1) WITH ELEVATED CF</b> a (BUN rises disproporti superimposed on rena <b>10:1) WITH DECREASED</b> osis. nd starvation. e. creased urea synthesis (urea rather than creatin monemias (urea is virtue) of inappropiate antidiur <b>10:1) WITH INCREASED (</b> py (accelerates converse eleases muscle creatin who develop renal failue <b>1:</b> sis (acetoacetate cause	ine production) icoids) REATININE LEVELS: onately more than cre disease. BUN : inine diffuses out of e ually absent in blood) retic harmone) due to CREATININE: sion of creatine to cre ine). ure. es false increase in cre e ratio). eatinine measurement	eatinine) (e.g. d extracellular flu tubular secret eatinine).	obstructive uropa id).	athy).	ne, high protein diet, al ratio when dehydratio
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 4. Postrenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet an 6. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 8. Phenacimide therat 8. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin the <b>ESTIMATED GLOMERI</b> <b>OKD STAGE</b>	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatin tetracycline, glucocorti <b>20:1) WITH ELEVATED CF</b> a (BUN rises disproporti superimposed on rena <b>10:1) WITH DECREASED</b> osis. Ind starvation. e. creased urea synthesis (urea rather than creating monemias (urea is virtue) finappropiate antidiur <b>10:1) WITH INCREASED</b> (urea celerates conversed eleases muscle creating who develop renal failues: sis (acetoacetate caused creased BUN/creating apy (interferes with creating <b>10:1) CREASED</b> (urea subtrophyces) and the subtrophyces of the subtrophyces) <b>10:1) WITH INCREASED</b> (urea subtrophyces) <b>10:1) WITH INCREASED</b> <b>10:1) WITH INCREASED</b>	ine production) icoids) REATININE LEVELS: onately more than cre disease. BUN : nine diffuses out of e ually absent in blood) etic harmone) due to CREATININE: sion of creatine to cre ine). ure. es false increase in cre e ratio). eatinine measurement : RIPTION GI	eatinine) (e.g. e extracellular flu tubular secret eatinine). eatinine with c t). <b>FR ( mL/min/1</b>	obstructive uropa id). ion of urea.	athy). ogies,resulting in norma <b>SOCIATED FINDINGS</b>	
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 4. Postrenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet al 6. Severe liver diseas 6. Other causes of de 6. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 8. Phenacimide theration 8. Phenacimide theration 8. Muscular patients <b>NAPPROPIATE RATIO</b> 6. Diabetic ketoacidor 1. Acute fuelosporin the 8. Cephalosporin the	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatin tetracycline, glucocorti <b>20:1) WITH ELEVATED CF</b> a (BUN rises disproporti superimposed on rena <b>10:1) WITH DECREASED</b> osis. Ind starvation. e. creased urea synthesis (urea rather than creating monemias (urea is virtue) of inappropiate antidiur <b>10:1) WITH INCREASED (</b> py (accelerates converses eleases muscle creating who develop renal failues creased BUN/creating apy (interferes with creating <b>10:1) LITERATION RATE</b> <b>10:10 CREASED (</b> <b>10:1) CREASED (</b> <b>10:1) WITH INCREASED (</b> py (accelerates converses) eleases muscle creating who develop renal failues <b>10:10 CREASED (</b> <b>10:10 CREASED (</b> <b>10:10</b>	ine production) icoids) REATININE LEVELS: onately more than cre disease. BUN : sum diffuses out of e ually absent in blood) retic harmone) due to CREATININE: sion of creatine to cre ine). ure. es false increase in cre e ratio). eatinine measurement	eatinine) (e.g. e extracellular flu tubular secret eatinine). eatinine with c t).	obstructive uropa id). ion of urea. ertain methodola	athy). ogies,resulting in norma	

G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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Test Name		Value Unit	<b>Biological Reference interval</b>

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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	MD	Vinay Chopra (Pathology & Micro irman & Consultant		Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mrs. ASHA SINI	DHWANI			
AGE/ GENDER	: 63 YRS/FEMALE		P	ATIENT ID	: 1811415
COLLECTED BY	: SURJESH		R	EG. NO./LAB NO.	: 012503290053
REFERRED BY	:		R	EGISTRATION DATE	: 29/Mar/2025 05:54 PM
BARCODE NO.	:01527999		C	OLLECTION DATE	: 29/Mar/2025 06:15PM
CLIENT CODE.	: KOS DIAGNOSTI	IC LAB	R	EPORTING DATE	: 29/Mar/2025 07:33PM
CLIENT ADDRESS Test Name	: 6349/1, NICHOI	LSON ROAD, AMBAI	LA CANTT	Unit	Biological Reference interva
DON CEDUM			IRON P		50.0 170.0
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY		75.3	μg/dL	50.0 - 170.0
UNSATURATED IF SERUM by FERROZINE, SPEC	RON BINDING CA	PACITY (UIBC)	256.9	μg/dL	150.0 - 336.0
TOTAL IRON BINI SERUM	DING CAPACITY	(TIBC)	332.2	μg/dL	230 - 430
%TRANSFERRIN S		-	22.67	%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTOM INTERPRETATION:-	ERUM		235.86	mg/dL	200.0 - 350.0
VARIAB	BLES A	NEMIA OF CHRONIC	DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA $\alpha/\beta$ TRAIT

	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

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.



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









		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference	interval
		ENDOCR	INOLOGY		
	Т	HYROID FUNCT	ION TEST: TOTAL		
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM	0.774 IOASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMUN	8.96 OASSAY)	µgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): IESCENT MICROPARTICLE IMMUN RASENSITIVE		µIU/mL	0.35 - 5.50	
TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentration	s. TSH stimulates the produ	uction and secretion of the m	m. The variation is of the order of 50%.Hen etabolically active hormones, thyroxine ( er underproduction (hypothyroidism) or	
CLINICAL CONDITION	T3		T4	TSH	
During a model to us a the superiod of	Dealura	1	Destructed		

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 (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	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		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





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DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Pathology)
NAME	: Mrs. ASHA SINDHWANI		
AGE/ GENDER	: 63 YRS/FEMALE	PATIENT ID	: 1811415
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	TI:4	Dialogical Defenses interval

Test Name			Value	Unit	t	<b>Biological Reference interval</b>
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 LI	EVELS DURING PREC	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





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	<b>Dr. Vinay Chopr</b> MD (Pathology & Mic Chairman & Consulta	robiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ASHA SINDHWANI			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
	VITAMI	N D/25 HYD	ROXY VITAMIN D	93
	DROXY VITAMIN D3): SERUM escence immunoassay)	24.9 <sup>L</sup>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

DEFICIENT:	< 20	ng/mL		
INSUFFICIENT:	21 - 29	ng/mL		
PREFFERED RANGE:	30 - 100	ng/mL		
INTOXICATION:	> 100	ng/mL	1	

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED:

1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia. CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent

hypervitaminosis D NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which

interefere with Vitamin D absorption.



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	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)		
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. ASHA SINDHWANI : 63 YRS/FEMALE : SURJESH : : 01527999 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REGIST COLLE REPOR	NT ID 0./LAB NO. FRATION DATE CTION DATE CTING DATE	: 1811415 <b>: 012503290053</b> : 29/Mar/2025 05:54 PM : 29/Mar/2025 06:15PM : 29/Mar/2025 07:33PM		
Test Name		Value	Unit	Biological Reference interval		
<u>INTERPRETATION:-</u> INCREAS	IESCENT MICROPARTICLE IMMUNOA	D	pg/mL	190.0 - 890.0		
1.Ingestion of Vitamin C         2.Ingestion of Estrogen         3.Ingestion of Vitamin A         4.Hepatocellular injury		1.Pregnancy         2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ethanol Igestion         4. Contraceptive Harmones				
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficite ileal resection, small 5.Vitamin B12 deficite proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing f <b>NOTE:</b> A normal serur deficiency at the cell	amin) is necessary for hematop tained only from animal protein itamin B12 stores very economic ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocyl coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine level or antibodies to intrinsic factor ( n concentration of vitamin B12 c	s and requires intrinsic fa cally, reabsorbing vitamin retion by gastric mucosa tic anemia, glossitis, perip navioral changes. These m s are also elevated in vita (IF) is recommended to id does not rule out tissue de If clinical symptoms sugge	ioma al function. ctor (IF) for absorp B12 from the ileum (eg, gastrectomy, g heral neuropathy, anifestations may c min B12 deficiency entify this potentia eficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		<b>Chopra</b> gy & Microbiology) Consultant Pathologist		<b>Yugam Chopra</b> MD (Pathology) nsultant Pathologist	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	
		CLINICAL P	ATHOLOGY		
	URINE R	OUTINE & MICR	OSCOPIC EXAMI	NATION	
PHYSICAL EXAM	INATION				
QUANTITY RECIE	VED STANCE SPECTROPHOTOMETRY	10	ml		
COLOUR		AMBER YE	LLOW	PALE YELLOW	
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
SPECIFIC GRAVIT	Y TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030	
CHEMICAL EXAM					
REACTION		ACIDIC			
	TANCE SPECTROPHOTOMETRY				
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR		Negative		NEGATIVE (-ve)	
-	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5	
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			5.0 - 7.5	
BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY.				
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0	
KETONE BODIES	AND SECTOPOIONERY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	-			
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE	(-ve)	NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				

**MICROSCOPIC EXAMINATION** 



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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELL	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	3-5	/HPF	0 - 5	
EPITHELIAL CELL by MICROSCOPY ON (	S CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA		NEGATIVE (-ve)		NEGATIVE (-ve)	

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 \*\*\*

ABSENT

NEGATIVE (-ve)





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NEGATIVE (-ve)

ABSENT