



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		D (Pathology)
NAME	: Miss. NAMANPREET KAUR			
AGE/ GENDER	: 15 YRS/FEMALE		PATIENT ID	: 1732251
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	: 042501230002
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 23/Jan/2025 09:28 AM
BARCODE NO.	: A1260363		COLLECTION DATE	: 23/Jan/2025 03:44PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMB/		REPORTING DATE	: 23/Jan/2025 03:55PM
CLIENI ADDRESS	. 0349/ I, NICHOLSON KOAD, AMD	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: 1.5 .00D COUNT (CBC)	.5
	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	12.2	gm/dL	12.0 - 16.0
RED BLOOD CELL (	(RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.6	Millions	s/cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	37.9	%	35.0 - 49.0
MEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	82.3	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	26.4 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	32.1	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	15.4	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	47.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.89	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED		27.43	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE				
TOTAL LEUCOCYTE	E COUNT (TLC) y by sf cube & microscopy	6830	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
NUCLEATED RED E	BLOOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	58	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	3961	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2322	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	137	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	410	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	332000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.44 <sup>H</sup>	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	13 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	168000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	50.6 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.6	%	15.0 - 17.0



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Test Name		/alue Unit	Biological Reference interval





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Test Name		Value	Unit	Biological Reference interval
			OGLOBIN (HBA1	
WHOLE BLOOD	EMOGLOBIN (HbA1c):	4.6	%	4.0 - 6.4
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	85.32	mg/dL	60.00 - 140.00
	AS PER AMERICAN D	ABETES ASSOCIATION	I (ADA):	
	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
<b>T</b> 1 .		Goals of Th		< 7.0
Therapeut	ic goals for glycemic control	Actions Sug		>8.0
			Age < 19 Years	
		Goal of the	aronu	<7.5

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.



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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
'est Name		Value	Unit	Biological Reference interval
	in test because an elevated result			
nmune disease, but An ESR can be affe s C-reactive protein This test may also rstemic lupus eryth <b>ONDITION WITH LO</b> low ESR can be see oolycythaemia), sig s sickle cells in sick <b>OTE:</b> ESR and C - reactive	does not tell the health practition octed by other conditions besides be used to monitor disease activi ematosus W ESR in with conditions that inhibit the	ner exactly where t inflammation. For t ty and response to normal sedimenta unt (leucocytosis), R. of inflammation.	he inflammation is in the his reason, the ESR is ty therapy in both of the a tion of red blood cells, s and some protein abno	picallý used in conjunctiŏn with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such





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BARCODE NO.	: A1260361	COI	LECTION DATE	: 23/Jan/2025 03:44PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI	) REI	PORTING DATE	: 23/Jan/2025 04:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMISTR	Y/BIOCHEMIST	'RY
		GLUCOSE FA:	STING (F)	

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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



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NAME	: Miss. NAMANPREET KAUF	2		
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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI	) <b>REPO</b>	RTING DATE	: 23/Jan/2025 05:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFILE	E : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		135.09	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	63.45	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
	L (DIRECT): SERUM	43.19	mg/dL	HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBIT	TION			BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		79.21	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 CHOLES' by calculated, spe	TEROL: SERUM ECTROPHOTOMETRY	91.9	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0
VLDL CHOLESTER	OL: SERUM	12.69	mg/dL	HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SEE by CALCULATED, SPE	RUM	333.63 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		3.13	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT	Т	
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by Calculated, spe		1.83	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	1.47 <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.

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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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.11	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.25	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	I (RIDOXAL PHOSPHATE	18	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	I (RIDOXAL PHOSPHATE	9	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	2	RATIO	0.00 - 46.00
ALKALINE PHOSPI by Para Nitrophen Propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	83.15	U/L	50.00 - 370.00
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	11.36	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.79	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.43	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	I ECTROPHOTOMETRY	2.36	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M	1.88	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

**NOTE:** To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

Dr. Vinay Chopra

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)





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INTERPRETATION





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Test Name		Value Unit	Biological Reference interval

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# **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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNE	Y FUNCTION	TEST (COMPLETE)	
UREA: SERUM		13.9	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU		0.76	mg/dL	0.40 - 1.20
-	OGEN (BUN): SERUM	6.5 <sup>L</sup>	mg/dL	7.0 - 25.0
BLOOD UREA NITR	OGEN (BUN)/CREATININE	8.55 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE				
UREA/CREATININI		18.29	RATIO	
by CALCULATED, SPE	CTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		2.51	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.04	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			-	
PHOSPHOROUS: SE	RUM DATE, SPECTROPHOTOMETRY	4.09	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		141	mmol/L	135.0 - 150.0
POTASSIUM: SERUN by ISE (ION SELECTIV	M	4.2	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		105.75	mmol/L	90.0 - 110.0
	ERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	118.6		

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.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist		ology)				
NAME	: Miss. NAMANPREET KAUR					
AGE/ GENDER	: 15 YRS/FEMALE	PATIENT ID	: 17	32251		
COLLECTED BY	:	<b>REG. NO./LAB</b>	NO. : 04	42501230002	2	
REFERRED BY		REGISTRATIO	<b>DATE</b> : 23	3/Jan/2025 09:	28 AM	
BARCODE NO.	: A1260362	<b>COLLECTION D</b>		3/Jan/2025 03:		
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DA		3/Jan/2025 05:		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			, sui, 2020 00.		
Test Name		Value	Unit	Biologic	cal Reference inte	rval
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine produc tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININE L</b> (BUN rises disproportionately mc superimposed on renal disease. <b>0:1) WITH DECREASED BUN</b> :	EVELS:	tive uropathy).			
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <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 of 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <u>G1</u> <u>G2</u>	(e.g. ureter colostomy) ass (subnormal creatinine productetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of createleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS:         are than creatinine) (e.g. obstruction         es out of extracellular fluid).         t in blood).         ne) due to tubular secretion of u         :         tine to creatinine).         ease in creatinine with certain r         asurement).         On       >90         >90	rea. nethodologies,re ASSOCIA No pr Presence	esulting in norr TED FINDINGS Toteinuria e of Protein , or cast in urine	_	ydrati
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia <b>DECREASED RATIO (</b> >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 of 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <b>G1</b> <b>G2</b> <b>G3</b>	(e.g. ureter colostomy) ass (subnormal creatinine productetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of createleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFf	EVELS:         ore than creatinine) (e.g. obstruction         es out of extracellular fluid).         t in blood).         ne) due to tubular secretion of u         :         tine to creatinine).         ease in creatinine with certain r         asurement).         On       >90         >90          60 - 89	rea. nethodologies,re ASSOCIA No pr Presence	reteinuria e of Protein ,	_	ydrati
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <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 of 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <u>G1</u> <u>G2</u>	(e.g. ureter colostomy) ass (subnormal creatinine productetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 0:1) WITH INCREASED CREATININE py (accelerates conversion of createleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS:         are than creatinine) (e.g. obstruction         es out of extracellular fluid).         t in blood).         ne) due to tubular secretion of u         :         tine to creatinine).         ease in creatinine with certain r         asurement).         On       >90         >90         R       60 - 89         GFR       30-59	rea. nethodologies,re ASSOCIA No pr Presence	reteinuria e of Protein ,	_	ydrati





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microb Chairman & Consultant F	viology) MI	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Miss. NAMANPREET KAUR		
AGE/ GENDER	: 15 YRS/FEMALE	PATIENT ID	: 1732251
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 042501230002
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 23/Jan/2025 09:28 AM
BARCODE NO.	: A1260362	<b>COLLECTION DATE</b>	: 23/Jan/2025 03:44PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	<b>REPORTING DATE</b>	: 23/Jan/2025 05:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	Zalue 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 FR category reported as per KDIGO guideline 2012

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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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
NAME	: Miss. NAMANPREET KAUR				
AGE/ GENDER	: 15 YRS/FEMALE	PATI	ENT ID	: 1732251	
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<b>REFERRED BY</b>	:	REGIS	STRATION DATE	: 23/Jan/2025 09:28 AM	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
		IRON PRO	FILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	34.31 <sup>L</sup>	μg/dL	37.0 - 145.0	
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	277.99	µg/dL	150.0 - 336.0	
•	ING CAPACITY (TIBC)	312.3	µg/dL	230 - 430	
%TRANSFERRIN S	ATURATION: SERUM CTROPHOTOMETERY (FERENE)	10.99 <sup>L</sup>	%	15.0 - 50.0	

mg/dL TRANSFERRIN: SERUM 221.73

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 **TOTAL IRON BINDING CAPACITY (TIBC):** It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

# % TRANSFERRIN SATURATION:

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



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200.0 - 350.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)	Dr. Yugam ( MD (P CEO & Consultant Pa	athology)
NAME	: Miss. NAMANPREET KAUR			
AGE/ GENDER	: 15 YRS/FEMALE	PATIEN	JT ID	: 1732251
COLLECTED BY	:	REG. N	0./LAB NO.	: 042501230002
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BARCODE NO.	: A1260362	COLLEG	CTION DATE	: 23/Jan/2025 03:44PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPOR	TING DATE	: 23/Jan/2025 05:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	LOGY	
	THYRO	DID FUNCTION 7	FEST: TOTAL	
			. / . T	0.05 1.00
	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	1.128	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): S	ESCENT MICROPARTICLE IMMUNOASSAY)	1.128 5.85	ng∕mL µgm/dL	0.35 - 1.93 4.87 - 13.20
by CMIA (CHEMILUMINI THYROXINE (T4): S by CMIA (CHEMILUMINI THYROID STIMULA	ESCENT MICROPARTICLE IMMUNOASSAY)		0	
by CMIA (CHEMILUMINI THYROXINE (T4): S by CMIA (CHEMILUMINI THYROID STIMULA by CMIA (CHEMILUMINI 3rd GENERATION, ULT	ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	5.85	µgm/dL	4.87 - 13.20
THYROXINE (T4): S by CMIA (CHEMILUMINI THYROID STIMULA by CMIA (CHEMILUMINI 3rd GENERATION, ULTE <u>INTERPRETATION</u> : TSH levels are subject to c day has influence on the n	ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) RASENSITIVE Fircadian variation, reaching peak levels betwee measured serum TSH concentrations. TSH stim ure at any level of regulation of the hypotha	5.85 1.372 even 2-4 a.m and at a min hulates the production a	μgm/dL μIU/mL nimum between 6-10 pm. and secretion of the meta	4.87 - 13.20 0.50 - 5.50 <i>The variation is of the order of 50%.Hence time of the</i> abolically active hormones, thyroxine (T4)and

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





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NAME	: Miss. NAMANPREET KAUR		
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Test Name			Value	Unit	t	<b>Biological Reference interval</b>
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	IMENDATIONS OF TSH LE	VELS 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





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VITAMINS         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D(25-HYDROXY VITAMIN D3): SERUM         by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)         Set of the set			hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD ( CEO & Consultant I	(Pathology)
VITAMINS         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D(25-HYDROXY VITAMIN D3): SERUM       5.6 <sup>L</sup> Ng/mL         DEFICIENCY: < 20.0	AGE/ GENDER : 15 COLLECTED BY : REFERRED BY : BARCODE NO. : A1 CLIENT CODE. : KO	9 YRS/FEMALE 260362 DS DIAGNOSTIC SHAHBA	PATH REG. REGIS COLL D REPO	NO./LAB NO. STRATION DATE ECTION DATE	: <b>042501230002</b> : 23/Jan/2025 09:28 AM : 23/Jan/2025 03:44PM
VITAMIN D/25 HYDROXY VITAMIN D3): SERUM         by CLA (CHEMILUMINESCENCE IMMUNOASSAY)       5.6 <sup>L</sup> ng/mL       DEFICIENCY: < 20.0         SUPERCENCE IMMUNOASSAY)         by CLA (CHEMILUMINESCENCE IMMUNOASSAY)         by CLA (CHEMILUMINESCENCE IMMUNOASSAY)         Supercent colspan="2">Serum       5.6 <sup>L</sup> ng/mL       DEFICIENCY: 30.0 - 100.0         NUTERPRETATION:         NTERPRETATION:         100       ng/mL         NTOXICATION:         1.101       ng/mL         NTOXICATION:         1.102         1.101       ng/mL         NTOXICATION:         1.102       ng/mL         NTOXICATION:         1.102         1.101       Prepresents the main body reservoir and transport form of Vitamin D and transport form of Vitamin D, being stored in ad issue and tightly bound by a transport protein while in circulation.         Altimation D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption are absorption, skeletal calcium deposition, calcium mobilization, mainly reculated by parathyroid harmone (PTH).         1.26 cH-Vittamin D 25- hydroxylase activity	Fest Name		Value	Unit	Biological Reference interval
VITAMIN D/25 HYDROXY VITAMIN D3): SERUM         by CLA (CHEMILUMINESCENCE IMMUNOASSAY)       5.6 <sup>L</sup> ng/mL       DEFICIENCY: < 20.0			VITAMI	NS	
ITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)       5.6 <sup>L</sup> ng/mL       DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0         NTERPRETATION:		VIT			
DEFICIENT:         < 20         ng/mL           INSUFFICIENT:         21 - 29         ng/mL           PREFFERED RANGE:         30 - 100         ng/mL           INTOXICATION:         > 100         ng/mL           Vitamin D compounds are derived from dietary eraocalciferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), o onversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.         .25-0HVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in ac issue and tightly bound by a transport protein while in circulation.           .Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption ar hosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).           .Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in ad transport forw of vitamin D 25- hydroxylase activity           .Severe deficiency may lead to failure to disease)	by CLIA (CHEMILUMINESCEN		M <b>5.6<sup>L</sup></b>	ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
INSUFFICIENT:         21 - 29         ng/mL           PREFFERED RANGE:         30 - 100         ng/mL           INTOXICATION:         > 100         ng/mL           Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), o onversion of 7 - dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.			< 20	na	/ml
INTOXICATION:       > 100       ng/mL         Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), o onversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.       .25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in ac ssue and tightly bound by a transport protein while in circulation.         .Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption ar hosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).         .Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adi ECREASED:         .Lack of sunshine exposure.					
<ul> <li>Witamin D compounds are derived from dietary eraocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.</li> <li>25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in activation of plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption are hosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).</li> <li>Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in add <b>ECREASED</b>:</li> <li>Lack of sunshine exposure.</li> <li>Inadeguate intake, malabsorption (celiac disease)</li> <li>Depressed Hepatic Vitamin D 25- hydroxylase activity</li> <li>Secondary to advanced Liver disease</li> <li>Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)</li> <li>Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.</li> <li><b>VCREASED</b>:</li> <li>Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result evere hypercalcemia and hyperphophatemia.</li> <li><b>AUTION</b>: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D. When it oprevent ypervitaminosis D</li> <li><b>OTE</b>:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment wh</li> </ul>				0	
	conversion of 7- dihvdroch 2.25-OHVitamin D repres tissue and tightly bound by 3. Vitamin D plays a primar obosphate reabsorption, s 4. Severe deficiency may le <b>DECREASED:</b> 1. Lack of sunshine exposur 2. Inadequate intake, mala 3. Depressed Hepatic Vitam 4. Secondary to advanced L 5. Osteoporosis and Second 5. Enzyme Inducing drugs: a <b>NCREASED:</b> 1. Hypervitaminosis D is Ra severe hypercalcemia and <b>CAUTION</b> : Replacement the hypervitaminosis D	nolecalciferol to Vitamin I ents the main body resev y a transport protein whi y role in the maintenanc keletal calcium depositio ad to failure to mineralize re. bsorption (celiac disease nin D 25- hydroxylase acti iver disease dary Hyperparathroidism anti-epileptic drugs like p are, and is seen only after hyperphophatemia. erapy in deficient individu duals as compare to white	D3 in the skin upon Ultrav oir and transport form of le in circulation. e of calcium homeostatis. n, calcium mobilization, n e newly formed osteoid ir ) ivity (Mild to Moderate deficie henytoin, phenobarbital a prolonged exposure to en uals must be monitored by	iolet exposure. Vitamin D and transp It promotes calcium hainly regulated by pa bone, resulting in rid ency) and carbamazepine, the ktremely high doses co periodic assessment	bort form of Vitamin D, being stored in adipo absorption, renal calcium absorption and arathvroid harmone (PTH). ckets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







AGE/ GENDER : 15 YR COLLECTED BY : REFERRED BY : BARCODE NO. : A1260 CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	NAMANPREET KAUR S/FEMALE 0362 0IAGNOSTIC SHAHBAD ⁄1, NICHOLSON ROAD,	PA RF CO RF	TIENT ID G. NO./LAB NO. GISTRATION DATE LLECTION DATE	: 1732251 <b>: 042501230002</b> : 23/Jan/2025 09:28 AM		
COLLECTED BY : REFERRED BY : BARCODE NO. : A1260 CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	)362 DIAGNOSTIC SHAHBAD	RE RE CO RE	G. NO./LAB NO. GISTRATION DATE	: <b>042501230002</b> : 23/Jan/2025 09:28 AM		
REFERRED BY : BARCODE NO. : A1260 CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	DIAGNOSTIC SHAHBAD	RF CO RF	GISTRATION DATE	: 23/Jan/2025 09:28 AM		
REFERRED BY : BARCODE NO. : A1260 CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	DIAGNOSTIC SHAHBAD	RF CO RF	GISTRATION DATE	: 23/Jan/2025 09:28 AM		
BARCODE NO. : A1260 CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	DIAGNOSTIC SHAHBAD	CO RF				
CLIENT CODE. : KOS I CLIENT ADDRESS : 6349. Test Name	DIAGNOSTIC SHAHBAD	RE	LLECTION DATE			
CLIENT ADDRESS : 6349. Test Name				: 23/Jan/2025 03:44PM		
Test Name	1, NICHOLSON ROAD,	AMBALA CANTT	PORTING DATE	: 23/Jan/2025 05:05PM		
		Value	Unit	Biological Reference interva		
		VITAMIN B12/	COBALAMIN			
VITAMIN B12/COBALAMIN		157 <sup>L</sup>	pg/mL	190.0 - 890.0		
by CMIA (CHEMILUMINESCENT N INTERPRETATION:-	IICROPARTICLE IMMUNOA	ISSAY)				
INCREASED VITAN	/IN B12		DECREASED VITAMIN	I B12		
1.Ingestion of Vitamin C		1.Pregnanc				
2.Ingestion of Estrogen			pirin, Anti-convulsants,	Colchicine		
3.Ingestion of Vitamin A		3.Ethanol Ig				
4.Hepatocellular injury			otive Harmones			
5.Myeloproliferative disorder		5.Haemodialysis				
6.Uremia I.Vitamin B12 (cobalamin) is i		6. Multiple				
excreted. 4.Vitamin B12 deficiency may ileal resection, small intestina 5.Vitamin B12 deficiency freq proprioception, poor coordina the neurologic defects withou 6.Serum methylmalonic acid a 7.Follow-up testing for antibo <b>NOTE:</b> A normal serum concen	2 stores very economic be due to lack of IF sec al diseases). Jently causes macrocyt tion, and affective beh t macrocytic anemia. nd homocysteine level dies to intrinsic factor tration of vitamin B12 c is the assay for MMA.	cally, reabsorbing vita retion by gastric muc tic anemia, glossitis, j avioral changes. The s are also elevated in (IF) is recommended does not rule out tissi If clinical symptoms s	min B12 from the ileum osa (eg, gastrectomy, ga peripheral neuropathy, se manifestations may c vitamin B12 deficiency to identify this potentia the deficiency of vitamin	and returning it to the liver; very little is astric atrophy) or intestinal malabsorption ( weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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		<b>y Chopra</b> logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Miss. NAMANPREET K	AUR			
AGE/ GENDER	: 15 YRS/FEMALE	PA	TIENT ID	: 1732251	
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 042501230002	
<b>REFERRED BY</b>	:	RI	EGISTRATION DATE	: 23/Jan/2025 09:28 AM	
BARCODE NO.			DLLECTION DATE	: 23/Jan/2025 03:59PM	
CLIENT CODE.	: KOS DIAGNOSTIC SHAF		EPORTING DATE	: 23/Jan/2025 05:14PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
		CLINICAL PA	ATHOLOGY		
	URIN	E ROUTINE & MICR	<b>DSCOPIC EXAMIN</b>	ATION	
PHYSICAL EXAMI	NATION				
QUANTITY RECIEV	/ED CTANCE SPECTROPHOTOMETF	10	ml		
COLOUR		PALE YELLO	W	PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		HAZY		CLEAR	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET	RY			
SPECIFIC GRAVITY	Y CTANCE SPECTROPHOTOMETF	1.02		1.002 - 1.030	
CHEMICAL EXAM					
REACTION		ACIDIC			
PROTEIN	CTANCE SPECTROPHOTOMET	Negative		NEGATIVE (-ve)	
-	CTANCE SPECTROPHOTOMET	RY			
SUGAR by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET	Negative		NEGATIVE (-ve)	
pH	CTANCE SPECTROPHOTOMET	<=5.0		5.0 - 7.5	
BILIRUBIN	STANCE SPECIFICITION OF THE TOMET	Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET			NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOMET	RY.			
UROBILINOGEN	CTANCE SPECTROPHOTOMET	Normal	EU/dL	0.2 - 1.0	
KETONE BODIES		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET	RY Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET	RY T			
ASCORBIC ACID by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMET	NEGATIVE (	-ve)	NEGATIVE (-ve)	
MICROSCOPIC EX	AMINATION				
RED BLOOD CELLS	S (RBCs)	NEGATIVE (	-ve) /HPF	0 - 3	



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NANGE



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

NANANDDEET VALD

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

Test Name		Value	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
	ANA /1 NICHOLCON DOAD AN			
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPOR	RTING DATE	: 23/Jan/2025 05:14PM
BARCODE NO.	: A1260364	COLLE	CTION DATE	: 23/Jan/2025 03:59PM
REFERRED BY	:	REGIS	FRATION DATE	: 23/Jan/2025 09:28 AM
COLLECTED BY	:	REG. N	O./LAB NO.	:042501230002
AGE/ GENDER	: 15 YRS/FEMALE	PATIE	NT ID	: 1732251
NAME	: Miss. NAMANPREET KAUR			

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	Т			
PUS CELLS	2-4	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN				
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	10-12 т	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	NEGATIVE (-ve) $\tau$		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	NEGATIVE (-ve) $\tau$		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	NEGATIVE (-ve) $\tau$		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEN	ABSENT $\tau$		ABSENT	

\*\* End Of Report \*\*\*



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