

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiolo, Chairman & Consultant Patho	gy)	: Yugam Cl MD (Pat Consultant Patl	hology)
NAME : Mrs. PRIYA				
AGE/ GENDER : 29 YRS/FEM	ALE	PATIENT ID	:	1711289
COLLECTED BY :		REG. NO./LAB N	10 . :	012412290027
REFERRED BY :		REGISTRATION	DATE :	29/Dec/2024 11:09 AM
BARCODE NO. : 01523168		COLLECTION DA		29/Dec/2024 12:07PM
CLIENT CODE. : KOS DIAGNO		REPORTING DA	TE :	29/Dec/2024 12:07PM
CLIENT ADDRESS : 6349/1, NIC	HOLSON ROAD, AMBALA CA	AIN I I		
Test Name	Value	e	Unit	Biological Reference interval
		WELLNESS PAN E BLOOD COUNT (
RED BLOOD CELLS (RBCS) COUN	T AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC	12.4		gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT	4.55		Millions/cm	m 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTI PACKED CELL VOLUME (PCV)	RICAL IMPEDENCE 40.2		%	37.0 - 50.0
by CALCULATED BY AUTOMATED HEMA	TOLOGY ANALYZER			
MEAN CORPUSCULAR VOLUME (N by calculated by automated hema			fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLO			pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLO	BIN CONC. (MCHC) 30.8	L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMA RED CELL DISTRIBUTION WIDTH	TOLOGY ANALYZER		%	11.00 - 16.00
by CALCULATED BY AUTOMATED HEMA	TOLOGY ANALYZER			
RED CELL DISTRIBUTION WIDTH by calculated by automated hema			fL	35.0 - 56.0
MENTZERS INDEX	19.4	3	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING INDEX by calculated	29.0	9	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
				IRON DEFICIENCY ANEMIA: >
WHITE BLOOD CELLS (WBCS)				65.0
TOTAL LEUCOCYTE COUNT (TLC)	920	0	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF CUBE & M	CROSCOPY			
NUCLEATED RED BLOOD CELLS (by automated 6 part hematology				0.00 - 20.00
NUCLEATED RED BLOOD CELLS (by calculated by automated hema			%	< 10 %





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Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. PRIYA NAME AGE/ GENDER : 29 YRS/FEMALE **PATIENT ID** :1711289 **COLLECTED BY** :012412290027 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 29/Dec/2024 11:09 AM **BARCODE NO.** :01523168 **COLLECTION DATE** : 29/Dec/2024 12:07PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 29/Dec/2024 12:07PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 61 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 5612 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2576 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 460^H /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 552 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 234000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 96000^H 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 41.211.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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

16.8



PLATELET DISTRIBUTION WIDTH (PDW)

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

%



15.0 - 17.0





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Test Name	V	alue Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 29/Dec/2024 12:0	
			DRIING DATE	: 29/Dec/2024 03:5	7 PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
WHOLE BLOOD by HPLC (HIGH PERFO	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	5.1 99.67	%	4.0 - 6.4 60.00 - 14	0.00
	RMANCE LIQUID CHROMATOGRAPHY)		mg/dL	60.00 - 14	0.00
		DIABETES ASSOCIATION			
	REFERENCE GROUP abetic Adults >= 18 years	GLYCOSY	/LATED HEMOGLOGIB (<5.7	HBAIC) IN %	
	t Risk (Prediabetes)	/			
	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
		Goals of The		< 7.0	
Therapeut	ic goals for glycemic control	Actions Sugg		>8.0	
		Goal of the	Age < 19 Years		
				<7.5	

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 appropiate.

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 faisely 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, AM	BALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
ystemic lupus eryther CONDITION WITH LOW A low ESR can be seen polycythaemia), signif is sickle cells in sickle IOTE: . ESR and C - reactive 2. Generally, ESR does 5. CRP is not affected b 5. If the ESR is elevated 5. Women tend to have	natosus 'ESR with conditions that inhibit the no- ficantly high white blood cell coun- cell anaemia) also lower the ESR. protein (C-RP) are both markers of not change as rapidly as does CRP, y as many other factors as is ESR, m d, it is typically a result of two type e a higher ESR, and menstruation a	ormal sedimer t (leucocytosi inflammatior , either at the naking it a bet so of proteins, nd pregnancy	ntation of red blood cells, si s), and some protein abno n. e start of inflammation or as tter marker of inflammatior globulins or fibrinogen. can cause temporary eleva	rmalities. Šome changes in red cell shape (suc s it resolves. 1.





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugarr MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 29/Dec/2024 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	/BIOCHEMIST	'nY
		GLUCOSE FAS	ГING (F)	

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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		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		226.59 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	130.18	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	62.71	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		137.84 ^H	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		163.88 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE	CTROPHOTOMETRY	26.04	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		583.36	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		3.61	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.2	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.08 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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

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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. PRIYA AGE/ GENDER : 29 YRS/FEMALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01523168 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

:1711289 :012412290027 : 29/Dec/2024 11:09 AM : 29/Dec/2024 12:07PM :29/Dec/2024 12:48PM

Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.55	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.13	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.42	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.96	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.08	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	91.47	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	11.6	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.27	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.22	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	1.33	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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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).

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



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Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION TE	ST (COMPLETE)	
UREA: SERUM		23.81	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SER	UM CTROPHOTOMETERY	0.77	mg/dL	0.40 - 1.20
BLOOD UREA NITH	ROGEN (BUN): SERUM	11.13	mg/dL	7.0 - 25.0
	ectrophotometry ROGEN (BUN)/CREATININE	14.45	RATIO	10.0 - 20.0
RATIO: SERUM	ROGEN (BON)/ CREATININE	14.45	KATIO	10.0 - 20.0
	ECTROPHOTOMETRY		DATES	
UREA/CREATININ by CALCULATED, SPI	E RATIO: SERUM	30.92	RATIO	
URIC ACID: SERUM	1	6.89 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	40.00H	mg/dI	8.50 - 10.60
	ECTROPHOTOMETRY	10.69 ^H	mg/dL	8.50 - 10.00
PHOSPHOROUS: SI		4.65	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		137.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERU by ISE (ION SELECTIV		3.92	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	Λ	103.43	mmol/L	90.0 - 110.0
by ISE (ION SELECTIN				
	MERULAR FILTERATION RATE	107		
ESTIMATED GLOM (eGFR): SERUM	IERULAR FILTERATION RATE	107		
by CALCULATED				
INTERPRETATION:				

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE: 1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay C MD (Pathology Chairman & Co			am Chopra ID (Pathology) ant Pathologist	
NAME	: Mrs. PRIYA				
AGE/ GENDER	: 29 YRS/FEMALE	PAT	FIENT ID	: 1711289	
COLLECTED BY		RF	G. NO./LAB NO.	:01241229002	7
			GISTRATION DATE		
REFERRED BY					
BARCODE NO.	: 01523168		LLECTION DATE	:29/Dec/20241	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 29/Dec/2024 1	2:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biolog	ical Reference interval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	(e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease	IE LEVELS: more than creatinine)	(e.g. obstructive uro	pathy).	
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their 	(e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic hard 0:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine ULAR FILTERATION RATE: <u>DESCRIPTION</u> Normal kidney fun Kidney damage w	IE LEVELS: more than creatinine) fuses out of extracellul tent in blood). mone) due to tubular s NE: reatine to creatinine). ncrease in creatinine w measurement). GFR (mL/m ith	lar fluid). ecretion of urea. vith certain methodo nin/1.73m2)	ologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic hard 0:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine LAR FILTERATION RATE: <u>DESCRIPTION</u> Normal kidney fun Kidney damage w normal or high G	IE LEVELS: more than creatinine) fuses out of extracellul tent in blood). mone) due to tubular s NE: reatine to creatinine). ncrease in creatinine w measurement). GFR (mL/m rith > FR	lar fluid). ecretion of urea. vith certain methodo <u>hin/1.73m2) / 1</u> 90 / 20	ologies,resulting in no ASSOCIATED FINDINGS No proteinuria	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2 G3a	(e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic hard 0:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine LAR FILTERATION RATE: DESCRIPTION Normal kidney fun Kidney damage w normal or high G Mild decrease in	IE LEVELS: more than creatinine) fuses out of extracellul tent in blood). mone) due to tubular s NE: reatine to creatinine). ncrease in creatinine w measurement). Ction FR GFR 60	lar fluid). ecretion of urea. vith certain methodo hin/1.73m2) / / 90 / / 90 / A	ologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic hard 0:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine LAR FILTERATION RATE: <u>DESCRIPTION</u> Normal kidney fun Kidney damage w normal or high G	IE LEVELS: more than creatinine) fuses out of extracellul ent in blood). mone) due to tubular s NE: reatine to creatinine v measurement). GFR (mL/m ction > rith > FR 60 in GFR 30	lar fluid). ecretion of urea. vith certain methodo <u>hin/1.73m2) / 1</u> 90 / 20	ologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	





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	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) ME	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. PRIYA		
AGE/ GENDER	: 29 YRS/FEMALE	PATIENT ID	: 1711289
COLLECTED BY	:	REG. NO./LAB NO.	: 012412290027
REFERRED BY	:	REGISTRATION DATE	: 29/Dec/2024 11:09 AM
BARCODE NO.	: 01523168	COLLECTION DATE	: 29/Dec/2024 12:07PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 29/Dec/2024 12:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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Dr. Yugam Chopra MD (Pathology)

:1711289

:012412290027

: 29/Dec/2024 11:09 AM

: 29/Dec/2024 12:07PM

:29/Dec/2024 12:48PM

CEO & Consultant Pathologist

: Mrs. PRIYA : 29 YRS/FEMALE : :01523168

: KOS DIAGNOSTIC LAB

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

IRON PRO 56.31	µg/dL	37.0 - 145.0
		37.0 - 145.0
213 51		
£10.01	µg/dL	150.0 - 336.0
299.85	μg/dL	230 - 430
18.78	%	15.0 - 50.0
212.89	mg/dL	200.0 - 350.0
	18.78 212.89	299.85 μg/dL 18.78 % 212.89 mg/dL

PATIENT ID

REG. NO./LAB NO.

COLLECTION DATE

REPORTING DATE

REGISTRATION DATE

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
IDON.			

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

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

% TRANSFERRIN SATURATION:

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



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	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD (I CEO & Consultant F	Pathology)	
NAME	: Mrs. PRIYA				
AGE/ GENDER	: 29 YRS/FEMALE	PATIE	NT ID	: 1711289	
COLLECTED BY	:	REG. N	0./LAB NO.	: 012412290027	
REFERRED BY	:	REGIS	FRATION DATE	: 29/Dec/2024 11:09 AM	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inter	val
		ENDOCRINO	LOGY		
	TH	ENDOCRINO			
TRIIODOTHYRONI		IYROID FUNCTION 1.06		0.35 - 1.93	
by CMIA (CHEMILUMII THYROXINE (T4):	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA	IYROID FUNCTION 1.06 SSAY) 7.55	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMI THYROXINE (T4): 5 by CMIA (CHEMILUMI THYROID STIMULA	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM	IYROID FUNCTION 1.06 ssay) 7.55 ssay) UM 1.557	TEST: TOTAL ng/mL		
by CMIA (CHEMILUMII THYROXINE (T4): 3 by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT	NE (T3): SERUM vescent microparticle immunoa SERUM vescent microparticle immunoa ATING HORMONE (TSH): SERU vescent microparticle immunoa	IYROID FUNCTION 1.06 ssay) 7.55 ssay) UM 1.557	TEST: TOTAL ng/mL μgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMII THYROXINE (T4): 3 by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION:	NE (T3): SERUM vescent microparticle immunoa SERUM vescent microparticle immunoa ATING HORMONE (TSH): SERI vescent microparticle immunoa rasensitive	IYROID FUNCTION 1.06 SSAY) 7.55 SSAY) UM 1.557 SSAY)	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50	
by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMUL, by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNOA SERUM VESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERU VESCENT MICROPARTICLE IMMUNOA VRASENSITIVE circadian variation, reaching peak level	IYROID FUNCTION 1.06 SSAY) 7.55 SSAY) UM 1.557 SSAY) s between 2-4 a.m and at a mi SH stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 . <i>The variation is of the order of 50%.Hence time</i> tabolically active hormones, thyroxine (T4)and	e of th
by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMUL, by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERU NESCENT MICROPARTICLE IMMUNOA TRASENSITIVE circadian variation, reaching peak level measured serum TSH concentrations. T ilure at any level of regulation of the h	IYROID FUNCTION 1.06 SSAY) 7.55 SSAY) UM 1.557 SSAY) s between 2-4 a.m and at a mi SH stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 . <i>The variation is of the order of 50%.Hence time</i> tabolically active hormones, thyroxine (T4)and	e of th

CLINICAL CONDITION	13	14	ISH
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:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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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	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. PRIYA		
AGE/ GENDER	: 29 YRS/FEMALE	PATIENT ID	: 1711289
COLLECTED BY	:	REG. NO./LAB NO.	: 012412290027
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		Value	Unit	t	Biological Reference interval
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECON	IMENDATIONS OF TSH LI	VELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECON 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LI1st Trimester2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PRE 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.60 - 5.50 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mrs. PRIYA			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1711289
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BARCODE NO.	: 01523168		COLLECTION DATE	: 29/Dec/2024 12:07PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Dec/2024 03:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	1	
Test Name		Value	Unit	Biological Reference interval
	IMN	IUNOPATH	OLOGY/SEROLOGY	I.
	RHEUMATO	ID FACTOR (1	RA): QUANTITATIVE	- SERUM
RHEUMATOID (RA) SERUM by NEPHLOMETRY INTERPRETATION:-	FACTOR QUANTITATIVE:	31.9 ^H	IU/mL	NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
 Inflammatory Mark The titer of RF corres The test is useful for RHEUMATOID ARTHIRI Rheumatoid Arthiri membrane lining (syn The disease spreda The diagnosis of RA measurement of RA fa CAUTION (FALSE POST RA factor is not spec Non rheumatoid and RA patients have a nor Patients with variou lupus erythematosus, J Anti-CCP have been specific (98%) than RA Upto 30 % of patien 	or diagnosis and prognosis of rh TIS: tis is a systemic autoimmune d ovium) joints which ledas to pr s from small to large joints, with is primarily based on clinical, is ctor. IVE):- ific for Rheumatoid arthiritis, as d rheumatoid arthritis (RA) popular breactive titer and 8% of nonrheu s nonrheumatoid diseases, charactor polymyositis, tuberculosis, syphilid discovered in joints of patients w	otein (CRP) are n ty, but those pati neumatoid arthrit isease that is mu ogressive joint d h greatest damag radiological & im it is often present lations are not cle umatoid patients i cterized by chroni is, viral hepatitis, vith RA, but not in d arthiritis also sh	ents with high titers tend to is. Iti-functional in origin and is estruction and in most case je in early phase. munological features. The m in healthy individuals with or arly separate with regard to have a positive titer). c inflammation may have pos infectious mononucleosis, an other form of joint disease. A ow Anti-CCP antibodies.	have more severe disease course. s characterized by chronic inflammation of the s to disability and reduction of quality life. host frequent serological test is the ther autoimmune diseases and chronic infections. the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include systemic d influenza. nti-CCP2 is HIGHLY SENSITIVE (71%) & more





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	Mrs. PRIYA 29 YRS/FEMALE 01523168 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAI	H F C F	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE	: 1711289 : 012412290027 : 29/Dec/2024 11:09 AM
COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	01523168 KOS DIAGNOSTIC LAB	H F C F	EEG. NO./LAB NO. REGISTRATION DATE	: 012412290027 : 29/Dec/2024 11:09 AM
REFERRED BY : BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	KOS DIAGNOSTIC LAB	H C H	EGISTRATION DATE	: 29/Dec/2024 11:09 AM
CLIENT CODE. : CLIENT ADDRESS :	KOS DIAGNOSTIC LAB	C H		
CLIENT CODE. : CLIENT ADDRESS :	KOS DIAGNOSTIC LAB	I	OLLECTION DATE	
CLIENT ADDRESS :				: 29/Dec/2024 12:07PM
CLIENT ADDRESS : Test Name	6349/1, NICHOLSON ROAI	D, AMBALA CANTT	REPORTING DATE	: 29/Dec/2024 03:06PM
Test Name				
		Value	Unit	Biological Reference interval
			MINS	
	VII	'AMIN D/25 HY	DROXY VITAMIN D	3
by CLIA (CHEMILUMINESC	OXY VITAMIN D3): SERU EENCE IMMUNOASSAY)	M 32.5	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> Deficiei	NT:	< 20	n	g/mL
INSUFFICI	ENT:	21 - 29	,	g/mL
PREFFERED I INTOXICA		30 - 100 > 100		g/mL g/mL
2.25-OHVitamin D repr tissue and tightly bound 3.Vitamin D plays a prim phosphate reabsorption 4.Severe deficiency may DECREASED: 1.Lack of sunshine expos 2.Inadequate intake, ma 3.Depressed Hepatic Vit 4.Secondary to advance 5.Osteoporosis and Seco 6.Enzyme Inducing drug INCREASED: 1. Hypervitaminosis D is severe hypercalcemia ar CAUTION : Replacement hypervitaminosis D NOTE :-Dark coloured ind	by a transport protein whi hary role in the maintenanc , skeletal calcium depositio lead to failure to mineraliz sure. Alabsorption (celiac disease amin D 25- hydroxylase acti d Liver disease ondary Hyperparathroidism s: anti-epileptic drugs like p Rare, and is seen only after d hyperphophatemia. therapy in deficient individu	roir and transport for le in circulation. e of calcium homeos n, calcium mobilizati e newly formed oste) ivity (Mild to Moderate d henytoin, phenobark prolonged exposure uals must be monitor	m of Vitamin D and transp tatis. It promotes calciun on, mainly regulated by p oid in bone, resulting in r eficiency) ital and carbamazepine, to extremely high doses ed by periodic assessmen	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets 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 <i>iency due to excess of melanin pigment which</i>





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







IAME AGE/ GENDER COLLECTED BY	: Mrs. PRIYA : 29 YRS/FEMALE				
	: 29 YRS/FEMALE				
OLLECTED BY		PATIE	NT ID	: 1711289	
	:	REG. N	O./LAB NO.	: 012412290027	
REFERRED BY	•		FRATION DATE	: 29/Dec/2024 11:09 AM	
BARCODE NO.	: 01523168		CTION DATE	: 29/Dec/2024 12:07PM	
LIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 29/Dec/2024 12:52PM	
			CIING DATE	: 29/Dec/2024 12:52PM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	ABALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
NTERPRETATION:-					
	D VITAMIN B12	DECREASED VITAMIN B12			
1.Ingestion of Vitami 2.Ingestion of Estroge		1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitami		3.Ethanol Igestion			
4.Hepatocellular inju		4. Contraceptive Harmones			
5.Myeloproliferative		5.Haemodialysis			
6.Uremia		6. Multiple Myeloma			
.Vitamin B12 (cobala	min) is necessary for hematopoie ined only from animal proteins a				

NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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	& Microbiology)	Dr. Yugam MD O & Consultant	(Pathology)
NAME : Mrs. PRIYA			
AGE/ GENDER : 29 YRS/FEMALE	PATIENT	D	: 1711289
COLLECTED BY :	REG. NO./	LAB NO.	: 012412290027
REFERRED BY :	REGISTRA	TION DATE	: 29/Dec/2024 11:09 AM
BARCODE NO. : 01523168	COLLECTI		: 29/Dec/2024 12:07PM
CLIENT CODE. : KOS DIAGNOSTIC LAB	REPORTIN	NG DATE	: 29/Dec/2024 01:36PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	CLINICAL PATHO	LOGY	
URINE R	OUTINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	3+		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXAMINATION RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	20-30	/HPF	0 - 3



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NANGE





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

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

: Mrs. PRIYA				
: 29 YRS/FEMALE		TENT ID	: 1711289	
		. NO./LAB NO.	: 012412290027	
		ISTRATION DATE	: 29/Dec/2024 11:09 AM	
:01523168	01523168 COLLECTION DATE		: 29/Dec/2024 12:07PM : 29/Dec/2024 01:36PM	
: KOS DIAGNOSTIC LAB		ORTING DATE		
: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
	Value	Unit	Biological Reference interval	
	2-3	/HPF	0 - 5	
	: : 01523168 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	: 29 YRS/FEMALE PAT : REG : REG : 01523168 COL : KOS DIAGNOSTIC LAB REP : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value 2-3	 29 YRS/FEMALE PATIENT ID REG. NO./LAB NO. REGISTRATION DATE 10523168 COLLECTION DATE KOS DIAGNOSTIC LAB COLLECTION DATE 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value Unit 2-3 /HPF	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	NT 2 3	,	0 0	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEI	1-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEI	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEI	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEI	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMEI	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	

*** End Of Report ***



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