



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		(Pathology)	
NAME : Mr.	VIJAY TAYAL				
AGE/ GENDER : 55 Y	/RS/MALE		PATIENT ID	: 1738623	
COLLECTED BY : SUR	JESH		REG. NO./LAB NO.	: 012501290020	
REFERRED BY : CEN	TRAL PHOENIX CLUB (AMBAI	LA CANTT)	REGISTRATION DATE	: 29/Jan/2025 10:36 AM	
	24599		COLLECTION DATE	: 29/Jan/2025 10:49AM	
	S DIAGNOSTIC LAB		REPORTING DATE	: 29/Jan/2025 11:16AM	
CLIENT ADDRESS : 634	9/1, NICHOLSON ROAD, AMBA	ALA CANTT			
Test Name		Value	Unit	Biological Refe	erence interval
RED BLOOD CELLS (RBC	СОМР		LLNESS PANEL: 1.5 OOD COUNT (CBC)	5	
HAEMOGLOBIN (HB)		15.4	gm/dL	12.0 - 17.0	
by CALORIMETRIC RED BLOOD CELL (RBC) (by HYDRO DYNAMIC FOCUSIN		5.07 ^H	Millions/	/cmm 3.50 - 5.00	
PACKED CELL VOLUME (F by CALCULATED BY AUTOMA	PCV) TED HEMATOLOGY ANALYZER	45.7	%	40.0 - 54.0	
MEAN CORPUSCULAR VO by CALCULATED BY AUTOMA	LUME (MCV) ted hematology analyzer	90.1	fL	80.0 - 100.0	
MEAN CORPUSCULAR HA	EMOGLOBIN (MCH) TED HEMATOLOGY ANALYZER	30.4	pg	27.0 - 34.0	
	MOGLOBIN CONC. (MCHC) TED HEMATOLOGY ANALYZER	33.7 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUTION by CALCULATED BY AUTOMA	WIDTH (RDW-CV) ted hematology analyzer	14.5	%	11.00 - 16.00	
RED CELL DISTRIBUTION		49.3	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		17.77	RATIO	BETA THALAS 13.0 IRON DEFICIE >13.0	SEMIA TRAIT: < NCY ANEMIA:
GREEN & KING INDEX		25.79	RATIO	65.0	SEMIA TRAIT:<= NCY ANEMIA: >
WHITE BLOOD CELLS (W		5660		4000 11000	
TOTAL LEUCOCYTE COUN by FLOW CYTOMETRY BY SF		5660	/cmm	4000 - 11000	
NUCLEATED RED BLOOD by AUTOMATED 6 PART HEMA		NIL		0.00 - 20.00	
	CELLS (nRBCS) %	NIL	%	< 10 %	





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. VIJAY TAYAL AGE/ GENDER : 55 YRS/MALE **PATIENT ID** :1738623 **COLLECTED BY** : SURJESH :012501290020 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 29/Jan/2025 10:36 AM **BARCODE NO.** :01524599 **COLLECTION DATE** : 29/Jan/2025 10:49AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 29/Jan/2025 11:16AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 41^L % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 50^H LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 1^{L} % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 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 2321 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2830 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 57^L /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 453 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 /cmm 112000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.17 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 15^H fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 67000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 59.9^H PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.7 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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







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CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 29/Jan/2025 01:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	GLYCO			Ū
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA by HPLC (HIGH PERFOF	GLYCO EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)		EMOGLOBIN (HBA1) % mg/dL	Ū
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	DSYLATED HA 6.4 136.98	EMOGLOBIN (HBA1) % mg/dL	C) 4.0 - 6.4
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	OSYLATED HA 6.4 136.98 DIABETES ASSOCIA	EMOGLOBIN (HBA1) % mg/dL TION (ADA):	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA by HPLC (HIGH PERFOF INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	OSYLATED HA 6.4 136.98 DIABETES ASSOCIA	EMOGLOBIN (HBA1) % mg/dL	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERAG by HPLC (HIGH PERFOF INTERPRETATION: F Non dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	OSYLATED HA 6.4 136.98 DIABETES ASSOCIA	EMOGLOBIN (HBA1) % mg/dL TION (ADA): (COSYLATED HEMOGLOGIB	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA by HPLC (HIGH PERFOF INTERPRETATION: R Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	OSYLATED HA 6.4 136.98 DIABETES ASSOCIA	EMOGLOBIN (HBA1) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA by HPLC (HIGH PERFOF INTERPRETATION: R Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HA 6.4 136.98 DIABETES ASSOCIA GLY	EMOGLOBIN (HBA1) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	C) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOR by HPLC (HIGH PERFOR INTERPRETATION: Non dia At Di	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	DSYLATED HA 6.4 136.98 DIABETES ASSOCIA GLY Goals of	EMOGLOBIN (HBA1) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years of Therapy:	C) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOR by HPLC (HIGH PERFOR INTERPRETATION: Non dia At Di	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HA 6.4 136.98 DIABETES ASSOCIA GLY Goals of	EMOGLOBIN (HBA1) % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	C) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

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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BARCODE NO.	: 01524599	COLL	ECTION DATE	: 29/Jan/2025 10:49AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 29/Jan/2025 11:41AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Refer	ence interval
		Tuluo	Cint		
	ERYTHRO	CYTE SEDIMENT	TATION RATE (ESR)	
immune disease, but of 2. An ESR can be affect as C-reactive protein 3. This test may also to systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dextri		er exactly where the in flammation. For this and response to the ormal sedimentation of (leucocytosis), and f inflammation. P, either at the start of making it a better ma es of proteins, globul and pregnancy can ca	nflammation is in the reason, the ESR is ty rapy in both of the a of red blood cells, s I some protein abno of inflammation or a: rker of inflammatior ins or fibrinogen. use temporary eleva	e body or what is causing it. pically used in conjunction with bove diseases as well as some uch as a high red blood cell cou rmalities. Some changes in rec s it resolves. 1. tions.	h other test such others, such as unt d cell shape (such





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	ICAL CHEMIST	RY/BIOCHEMIST	RY
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA SE - PEROXIDASE (GOD-POD)	122.91 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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.
 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.



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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. VIJAY TAYAL : 55 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (A : 01524599 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1738623 : 012501290020 : 29/Jan/2025 10:36 AM : 29/Jan/2025 10:49AM : 29/Jan/2025 12:25PM
Test Name		Value	Unit	Biological Reference interval
		I IDIN DRA	OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		166.91	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	146.75	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI		37.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		100.05	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		129.4	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 CHOLESTERO	CTROPHOTOMETRY	29.35	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE CHOLESTEROL/HD by CALCULATED, SPE	сткорнотометку L RATIO: SERUM	480.57 4.45^H	mg/dL RATIO	350.00 - 700.00 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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Jan/2025 12:25PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	ſ			
Test Name		Value	Unit	Biological Reference interval		
LDL/HDL RATIO: S by CALCULATED, SPE		2.67	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0		
TRIGLYCERIDES/H	IDL RATIO: SERUM	3.91	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	Biological Reference interval
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SP		0.49	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.36	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYF		38.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	38.3	U/L	0.00 - 49.00
AST/ALT RATIO: SE	ERUM	1.01	RATIO	0.00 - 46.00
ALKALINE PHOSPH		95.07	U/L	40.0 - 130.0
GAMMA GLUTAMYI by SZASZ, SPECTROP	L TRANSFERASE (GGT): SERUM HTOMETRY	52.83	U/L	0.00 - 55.0
TOTAL PROTEINS: S		7.51	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GF		4.2	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.31	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.27	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)
-





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Test Name	Value	Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



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

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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. VIJAY TAYAL			
AGE/ GENDER	: 55 YRS/MALE		PATIENT ID	: 1738623
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501290020
REFERRED BY	: CENTRAL PHOENIX CLUB (AM	BALA CANTT)	REGISTRATION DATE	: 29/Jan/2025 10:36 AM
BARCODE NO.	:01524599		COLLECTION DATE	: 29/Jan/2025 10:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Jan/2025 12:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	20.67	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	1.28	mg/dL	0.40 - 1.40
BLOOD UREA NITR by CALCULATED, SPE	ROGEN (BUN): SERUM	9.66	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	7.55 ^L	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	16.15	RATIO	
URIC ACID: SERUM	1	8.1 ^H	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.72	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	2.82	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	141.8	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.95	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1 /E ELECTRODE)	106.35	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED <u>INTERPRETATION:</u>	ERULAR FILTERATION RATE	66.1		

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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		CLAD								
CLIENT CODE.	: KOS DIAGNOSTI			EPORTING DAT	E	: 29/Jan/202	25 12:25P	M		
CLIENT ADDRESS	: 6349/1, NICHOI	SON ROAD, AMBAI	A CANTT							
Test Name			/alue	I	nit	Bi	ological I	Referen	ce inte	rval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2	ass (subnormal crea tetracycline, glucoc D:1) WITH ELEVATE	atinine production) orticoids)) CREATININE LEVEL S) (o.g. obstructi	(o uropath					iet,
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ru 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an inc	(e.g. ureter colosto ass (subnormal crea- tetracycline, glucoc D:1) WITH ELEVATEI (BUN rises disprop superimposed on re 0:1) WITH DECREAS osis. d starvation. creased urea synthe urea rather than cr monemias (urea is f inappropiate antion 0:1) WITH INCREAS oy (accelerates con eleases muscle crea- who develop renal creased BUN/creati	atinine production) orticoids) D CREATININE LEVEL ortionately more the enal disease. ED BUN : essis. eatinine diffuses ou virtually absent in b diuretic harmone) du ED CREATININE: version of creatine to itinine). failure. suses false increase nine ratio).	an creatinine t of extracell lood). Je to tubular o creatinine) in creatinine	lular fluid). r secretion of ure).	ea.		n normal	ratio wh	ien deh	
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NAME	: Mr. VIJAY TAYAL		
AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1738623
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	65.6	μg/dL	59.0 - 158.0
		219.9	µg/dL	150.0 - 336.0
		285.5	µg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM ECTROPHOTOMETERY (FERENE)	22.98	%	15.0 - 50.0
TRANSFERRIN: SE	RUM	202.71	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

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

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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Test Name	Value	Unit	Biological Reference interval	
		CRINOLOGY CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM 0.957 IESCENT MICROPARTICLE IMMUNOASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM 7.02 IESCENT MICROPARTICLE IMMUNOASSAY)	µgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN	TING HORMONE (TSH): SERUM 3.022 IESCENT MICROPARTICLE IMMUNOASSAY)	µIU/mL	0.35 - 5.50	
by CMIA (CHEÀILUMIN THYROID STIMULA	TING HORMONE (TSH): SERUM 3.022 IESCENT MICROPARTICLE IMMUNOASSAY)	µIU/mL	0.35 - 5.50	
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	TING HORMONE (TSH): SERUM 3.022 IESCENT MICROPARTICLE IMMUNOASSAY)	and at a minimum between 6-10 pr roduction and secretion of the me	n. The variation is of the order of 50%.Hence time of th etabolically 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	TRIIODOTHYRONINE (T3) THYROXI		INE (T4)	THYROID STIMU	HYROID 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	





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

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. VIJAY TAYAL		
AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1738623
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501290020
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 29/Jan/2025 10:36 AM
BARCODE NO.	: 01524599	COLLECTION DATE	: 29/Jan/2025 10:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 29/Jan/2025 12:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name		Value Unit		Biological Reference inter		
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



0001 : 2008 CERT	Dr. Vi MD (Pa	Init of KOS Healthcare) nay Chopra thology & Microbiology) an & Consultant Pathologist		Pathology)
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IENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
est Name		Value	Unit	Biological Reference interva
	DROXY VITAMIN D3) escence immunoassay)	VITAMIN D/25 HY	AMINS DROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
y Clia (Chemilumini T <u>erpretation:</u> Defic	ESCENCE IMMUNOASSAY)	VITAMIN D/25 HY SERUM 29^L	DROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
y Clia (Chemilumini T <u>erpretation:</u> Defic Insuff	ESCENCE IMMUNOASSAY) CIENT: FICIENT:	VITAMIN D/25 HY SERUM 29 ^L < 20	DROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
y CLIA (CHEMILUMINI <u>TERPRETATION:</u> DEFI INSUFI PREFFERE INTOXI /itamin D compour	CIENT: CI	vitamin D/25 Hy SERUM 29 ^L < 20 21 - 29 30 - 100 > 100	DROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0





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REFERRED BY	•	,		: 29/Jan/2025 10:36 AM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RF	PORTING DATE	: 29/Jan/2025 12:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	NESCENT MICROPARTICLE IMMUNOA	SSAY)		
by CMIA (CHEMILUMIN	VESCENT MICROPARTICLE IMMUNOA	SSAY)		
INTERPRETATION:-		SSAY)		
INTERPRETATION:- INCREAS	SED VITAMIN B12			I B12
INTERPRETATION:- INCREAS 1.Ingestion of Vitan	SED VITAMIN B12	1.Pregnanc	y	
INTERPRETATION:- INCREAS	SED VITAMIN B12 nin C gen	1.Pregnanc	y spirin, Anti-convulsants,	
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	SED VITAMIN B12 nin C gen nin A jury	1.Pregnanc 2.DRUGS:A 3.Ethanol Ig	y spirin, Anti-convulsants,	
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	SED VITAMIN B12 nin C gen nin A jury	1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi	y spirin, Anti-convulsants, jestion ptive Harmones alysis	
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal	SED VITAMIN B12 nin C gen nin A jury	1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi 6. Multiple piesis and normal ne	y spirin, Anti-convulsants, gestion ptive Harmones alysis Myeloma uronal function.	, Colchicine





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT		
		UTINE & MICROS	COPIC EXAMINA	ATION
PHYSICAL EXAMI		10	ml	
QUANTITY RECIEV	ED CTANCE SPECTROPHOTOMETRY	10	ml	
	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY	TANGE SI LETIKOI HOTOMETIKI	CLEAR		CLEAR
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.050
CHEMICAL EXAMI	INATION			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Normai	EU/UL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EX			/1100	
RED BLOOD CELLS	(KBUS)	NEGATIVE (-ve)	/HPF	0 - 3





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NANGE



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

VITA V TA VA T



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

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Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



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