



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mr. DILBAG SINGH			
AGE/ GENDER	: 48 YRS/MALE		PATIENT ID	: 1752644
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	:012502110004
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 11/Feb/2025 08:23 AM
BARCODE NO.	:01525300		COLLECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 09:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTI		
Test Name		Value	Unit	<b>Biological Reference interval</b>
			ELLNESS PANEL: 1. .00D COUNT (CBC)	5
	<u>S (RBCS) COUNT AND INDICES</u>			
HAEMOGLOBIN (H by CALORIMETRIC	IB)	15.2	gm/dL	12.0 - 17.0
RED BLOOD CELL		5.32 <sup>H</sup>	Millions	/cmm 3.50 - 5.00
PACKED CELL VOL	FOCUSING, ELECTRICAL IMPEDENCE UME (PCV)	45.1	%	40.0 - 54.0
	AUTOMATED HEMATOLOGY ANALYZER	84.8	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	04.0	IL	80.0 - 100.0
	LAR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	28.5	pg	27.0 - 34.0
MEAN CORPUSCUI	LAR HEMOGLOBIN CONC. (MCHC)	33.6	g/dL	32.0 - 36.0
RED CELL DISTRIE	automated hematology analyzer BUTION WIDTH (RDW-CV) automated hematology analyzer	14.1	%	11.00 - 16.00
RED CELL DISTRIE	BUTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	44.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.94	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN by CALCULATED		22.42	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE				
TOTAL LEUCOCYT	E COUNT (TLC) 'Y BY SF CUBE & MICROSCOPY	8040	/cmm	4000 - 11000
NUCLEATED RED	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED I	RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) % automated hematology analyzer	NIL	%	< 10 %





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Dr. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. DILBAG SINGH AGE/ GENDER : 48 YRS/MALE **PATIENT ID** :1752644 **COLLECTED BY** :012502110004 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :11/Feb/2025 08:23 AM **BARCODE NO.** :01525300 **COLLECTION DATE** :11/Feb/202508:34AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :11/Feb/2025 09:59AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 40<sup>L</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 49<sup>H</sup> LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 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 3216 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3940 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 241/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 643 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 216000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.28by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13<sup>H</sup> fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 101000<sup>H</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 46.9<sup>H</sup> % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.315.0 - 17.0

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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

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BARCODE NO.	: 01525300		ECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 11/Feb/2025 01:58PM
CLIENT CODE.	: 6349/1, NICHOLSON ROAD, AN		DRIING DATE	. 117 Feb/ 2023 01.361 M
CLIENI ADDRESS	. 0349/1, NICHOLSON ROAD, AN	MDALA CAN I I		
Test Name		Value	Unit	Biological Reference interva
restrume				8
	GLYCOS	SYLATED HAEMO	OGLOBIN (HBA1)	
GLYCOSYLATED HA WHOLE BLOOD	<b>GLYCOS</b> EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)		OGLOBIN (HBA10 %	
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA	EMOGLOBIN (HbA1c):	SYLATED HAEMO		C)
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	SYLATED HAEMO 5.4	% mg/dL	C) 4.0 - 6.4
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	SYLATED HAEMO 5.4 108.28	% mg/dL	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: Non dia Non dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	SYLATED HAEMO 5.4 108.28	% mg/dL I (ADA): YLATED HEMOGLOGIB <5.7	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	SYLATED HAEMO 5.4 108.28	% mg/dL ((ADA): YLATED HEMOGLOGIB <5.7 5.7 - 6.4	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	SYLATED HAEMO 5.4 108.28	% mg/dL ((ADA): YLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	C) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	SYLATED HAEMO 5.4 108.28 IABETES ASSOCIATION GLYCOSY	% mg/dL ((ADA): YLATED 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 PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	SYLATED HAEMO 5.4 108.28 IABETES ASSOCIATION GLYCOSY Goals of The	% mg/dL ((ADA): <u>YLATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	C) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	SYLATED HAEMO 5.4 108.28 IABETES ASSOCIATION GLYCOSY	% mg/dL ((ADA): <u>YLATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	C) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

**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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AME	: Mr. DILBAG SINGH			
GE/ GENDER	: 48 YRS/MALE	РАТ	IENT ID	: 1752644
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EFERRED BY	:	REG	ISTRATION DATE	: 11/Feb/2025 08:23 AM
ARCODE NO.	: 01525300	COL	LECTION DATE	: 11/Feb/2025 08:34AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 11/Feb/2025 10:15AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
'est Name		Value	Unit	<b>Biological Reference interval</b>
An ESR can be affe s C-reactive protein . This test may also ystemic lupus eryth <b>ONDITION WITH LO</b> low ESR can be see polycythaemia), sigr s sickle cells in sickl <b>OTE:</b> . ESR and C - reactiv . Generally, ESR doe . <b>CRP is not affected</b>	be used to monitor disease act ematosus <b>W ESR</b> n with conditions that inhibit ti nificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both market is not change as rapidly as does by as many other factors as is f	es inflammation. For this ivity and response to th he normal sedimentatio count (leucocytosis), ar ESR. ers of inflammation. s CRP, either at the start ESR, making it a better m	s reason, the ESR is ty erapy in both of the a n of red blood cells, s nd some protein abno of inflammation or a: a <b>arker of inflammatior</b>	pically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count prmalities. Some changes in red cell shape (such s it resolves.
	ed, it is typically a result of two ve a higher ESR, and menstruat reap methyldona, oral contract	ion and pregnancy can o	ause temporary eleva	ations. /Iline, and vitamin A can increase ESR, while





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Page 4 of 19





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BARCODE NO.	:01525300	COLL	ECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 11/Feb/2025 10:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLI	NICAL CHEMISTRY	/BIOCHEMISTI	RY
		GLUCOSE FAS	ГING (F)	
	G (F): PLASMA	100.25 <sup>H</sup>	mg/dL	NORMAL: < 100.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 11:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	187.9	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
FRIGLYCERIDES: S	ERUM HATE OXIDASE (ENZYMATIC)	114.58	mg/dL	OPTIMAL: < 150.0
by GLICEROL PHOSP	HATE UNIDASE (ENZ TIMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
	L (DIRECT): SERUM	67.86	ma/dI	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBIT		07.80	mg/dL	BORDERLINE HIGH HDL: 30.0
				60.0
LDL CHOLESTEROI	CEDIM	97.12	ma/dI	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE		97.12	mg/dL	ABOVE OPTIMAL: < 100.0 - 129.
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLEST		120.04	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CIROPHOIOMEIRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER	DL: SERUM	22.92	mg/dL	0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
FOTAL LIPIDS: SER by CALCULATED, SPE		490.38	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	2.77	RATIO	LOW RISK: 3.30 - 4.40
	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
by CALCULATED, SPE				MODERATE RISK: 7.10 - 11.0

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Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		1.43	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 ECTROPHOTOMETRY	1.69 <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.

 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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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SP		0.51	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	0.38	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY		23.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY		24.4	U/L	0.00 - 49.00
AST/ALT RATIO: SE	ERUM	0.97	RATIO	0.00 - 46.00
ALKALINE PHOSPH		84.47	U/L	40.0 - 130.0
GAMMA GLUTAMYI by SZASZ, SPECTROP	L TRANSFERASE (GGT): SERUM	16.27	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRON		7.78	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GI		4.43	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.35	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.32	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

# **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Microt Chairman & Consultant I	iology) MD	n <b>Chopra</b> 9 (Pathology) t Pathologist
NAME	: Mr. DILBAG SINGH		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1752644
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012502110004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 11/Feb/2025 08:23 AM
BARCODE NO.	: 01525300	COLLECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 11/Feb/2025 11:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	alue Unit	Biological Reference interval

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

# **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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AGE/ GENDER	: 48 YRS/MALE		PATIENT ID	: 1752644		
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BARCODE NO.	: 01525300		COLLECTION DATE	: 11/Feb/2025 08:34AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 11:48AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT				
Test Name		Value	Unit	<b>Biological Reference interval</b>		
	KIDN	EY FUNCTIO	N TEST (COMPLETE)			
UREA: SERUM		26.87	mg/dL	10.00 - 50.00		
	MATE DEHYDROGENASE (GLDH)		0			
CREATININE: SEF by ENZYMATIC, SPE	CTROPHOTOMETERY	1.45 <sup>H</sup>	mg/dL	0.40 - 1.40		
	ROGEN (BUN): SERUM	12.56	mg/dL	7.0 - 25.0		
	PECTROPHOTOMETRY TROGEN (BUN)/CREATININE	8.66 <sup>L</sup>	RATIO	10.0 - 20.0		
RATIO: SERUM	ROULIN (DOIN)/ OREATININE	8.002	KATIO	10.0 - 20.0		
	PECTROPHOTOMETRY	10 50	DATIO			
	NE RATIO: SERUM PECTROPHOTOMETRY	18.53	RATIO			
URIC ACID: SERU		7.1	mg/dL	3.60 - 7.70		
by URICASE - OXIDA CALCIUM: SERUM		9.84	mg/dL	8.50 - 10.60		
	PECTROPHOTOMETRY	5.04	ing/ dL	0.00 10.00		
PHOSPHOROUS: S	SERUM BDATE, SPECTROPHOTOMETRY	4.44	mg/dL	2.30 - 4.70		
ELECTROLYTES	SDATE, SI LOTION HOTOMETRY					
SODIUM: SERUM		145.8	mmol/L	135.0 - 150.0		
by ISE (ION SELECT			1 /7			
POTASSIUM: SERI		5.12 <sup>H</sup>	mmol/L	3.50 - 5.00		
CHLORIDE: SERU	M	109.35	mmol/L	90.0 - 110.0		
by ISE (ION SELECT)	IVE ELECTRODE) <b>MERULAR FILTERATION RATE</b>					
	MERULAR FILTERATION RATE	59.4				
(eGFR): SERUM	VIEROLAN FILTENATION NATE	JJ.4				
by CALCULATED		DEGLUES				
NOTE 2			ECHECKED TWICE	<i>x</i>		
ADVICE	ADVICE		KINDLY CORRELATE CLINICALLY			

# INTERPRETATION:

#### <u>INTERPRETATION:</u> 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



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LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AME	SALA CANTT					
est Name			Value	Un	it	Biolog	gical Refere	ence interva
	e.g. ureter colo ass (subnormal	creatinine productio	n)					
. Urine reabsorption . Reduced muscle n . Certain drugs (e.g. VCREASED RATIO (>2 . Postrenal azotemia Prerenal azotemia IECREASED RATIO (< . Acute tubular nec . Low protein diet a . Severe liver diseas . Other causes of de . Repeated dialysis . Inherited hyperan . SIADH (syndrome . Pregnancy. IECREASED RATIO (< . Phenacimide thera . Rhabdomyolysis (i . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido hould produce an ir . Cephalosporin the STIMATED GLOMER CKD STAGE	(e.g. ureter colo bass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR tosis. and starvation. e. creased urea sy (urea rather tha imonemias (urea of inappropiate a 10:1) WITH INCR upy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr rapy (interferes JLAR FILTERATIO	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine meas IN RATE: DESCRIPTION	ELS: than creatin blood). due to tubu e to creatini se in creatini urement).	cellular fluid). Ilar secretion of urea ne).	hodologie			/hen dehydra
Urine reabsorption Reduced muscle n Certain drugs (e.g Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular nec Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (i Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMER	(e.g. ureter colo bass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR tosis. and starvation. e. creased urea sy (urea rather tha imonemias (urea of inappropiate a 10:1) WITH INCR upy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr rapy (interferes JLAR FILTERATIO	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increated eatinine ratio). with creatinine meas N RATE:	ELS: than creatin blood). due to tubu e to creatini se in creatini urement).	cellular fluid). Ilar secretion of urea ne). ine with certain met	hodologie	s,resulting in no	S	vhen dehydra
Urine reabsorption Reduced muscle n Certain drugs (e.g ICREASED RATIO (> Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (in Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an ir Cephalosporin the STIMATED GLOMER G1	(e.g. ureter colo ass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR osis. nd starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a 10:1) WITH INCR ny (accelerates eleases muscle who develop re : isis (acetoacetat creased BUN/cr rapy (interferes JLAR FILTERATIO Non Ki Non Ki	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine meas N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR	ELS: than creatin blood). due to tubu e to creatini se in creatini urement).	cellular fluid). Ilar secretion of urea ne). ine with certain met nL/min/1.73m2) >90	hodologie	s,resulting in no <b>CIATED FINDINGS</b> O proteinuria	<u>s</u>	vhen dehydra
Urine reabsorption Reduced muscle n Certain drugs (e.g Postrenal azotemia ECREASED RATIO (> Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (in Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an ir Cephalosporin the STIMATED GLOMER G1 G2 G3a	(e.g. ureter colo ass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR osis. nd starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a 10:1) WITH INCR ny (accelerates eleases muscle who develop re : sis (acetoacetat creased BUN/cr rapy (interferes JLAR FILTERATIO Nor	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine meas N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR ild decrease in GFR	ELS: than creatin blood). due to tubu e to creatinin se in creatinin urement).	cellular fluid). Ilar secretion of urea ne). ine with certain met <u>nL/min/1.73m2 )</u> >90 >90 60 -89	hodologie	s,resulting in no <b>CIATED FINDINGS</b> o proteinuria ence of Protein ,	<u>s</u>	vhen dehydra
Urine reabsorption Reduced muscle n Certain drugs (e.g Postrenal azotemia ECREASED RATIO (> Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (in Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an ir Cephalosporin the ETIMATED GLOMER G1 G2 G3a G3b	(e.g. ureter colo ass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR osis. nd starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a 10:1) WITH INCR ny (accelerates eleases muscle who develop re : sis (acetoacetat creased BUN/cr - ay) (interferes JLAR FILTERATIO Noi Ki n Mod	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increate eatinine ratio). with creatinine meas N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR ild decrease in GFR erate decrease in GFR	ELS: than creatin blood). due to tubu e to creatinin se in creatinin urement).	cellular fluid). Ilar secretion of urea ne). ine with certain met <u>nL/min/1.73m2 )</u> >90 >90 <u>60 -89</u> 30-59	hodologie	s,resulting in no <b>CIATED FINDINGS</b> o proteinuria ence of Protein ,	<u>s</u>	vhen dehydra
Urine reabsorption Reduced muscle n Certain drugs (e.g ICREASED RATIO (> Postrenal azotemia ECREASED RATIO (< Acute tubular nec Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (in Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an ir Cephalosporin the STIMATED GLOMER G1 G2 G3a	(e.g. ureter colo ass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR osis. nd starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a 10:1) WITH INCR ny (accelerates eleases muscle who develop re : sis (acetoacetat creased BUN/cr - ay) (interferes JLAR FILTERATIO Noi Ki n Mod	creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine meas N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR ild decrease in GFR	ELS: than creatin blood). due to tubu e to creatinin se in creatinin urement).	cellular fluid). Ilar secretion of urea ne). ine with certain met <u>nL/min/1.73m2 )</u> >90 >90 60 -89	hodologie	s,resulting in no <b>CIATED FINDINGS</b> o proteinuria ence of Protein ,	<u>s</u>	/hen dehydra





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









	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultan	obiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. DILBAG SINGH		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1752644
COLLECTED BY	:	REG. NO./LAB NO.	: 012502110004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 11/Feb/2025 08:23 AM
BARCODE NO.	: 01525300	COLLECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 11/Feb/2025 11:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	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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BARCODE NO.	:01525300			COLLECTION DATE	: 11/Feb/2025 08:34AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 11/Feb/2025 11:44AM	
CLIENT ADDRESS	: 6349/1, NICI	IOLSON ROAD, AMBA	ALA CANTT			
Test Name			Value	Unit	Biological Reference interva	
			IRON	PROFILE		
IRON: SERUM	ROPHOTOMETRY		56.4 <sup>L</sup>	μg/dL	59.0 - 158.0	
UNSATURATED IRC SERUM			330.35	μg/dL	150.0 - 336.0	
by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC) 386.75 :SERUM by SPECTROPHOTOMETERY		386.75	μg/dL	230 - 430		
		14.58 <sup>L</sup>	%	15.0 - 50.0		
TRANSFERRIN: SEE by SPECTROPHOTOM			274.59	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIABI SERUM IR		ANEMIA OF CHRONI Normal to Red		IRON DEFICIENCY ANEMIA Reduced	THALASSEMIA α/β TRAIT Normal	

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interv
TRIIODOTHYRONI		IYROID FUNC 1.101	<b>TION TEST: TOTAI</b> ng/mL	0.35 - 1.93
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOA	,	C	
THYROXINE (T4): S	SERUM iescent microparticle immunoa	7.87	µgm/d	L 4.87 - 12.60
THYROID STIMULA	ATING HORMONE (TSH): SERU	JM <b>11.899<sup>H</sup></b>	µIU/m	L 0.35 - 5.50
INTERPRETATION:				
day has influence on the trilodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the pro	oduction and secretion of the	<i>pm. The variation is of the order of 50%.Hence time o</i> metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low	Normal	Normal or Low Normal	High
Primary Hyperthyroidis	sm: Increased		Increased	Reduced (at times undetectable)
	- I <sup>2</sup>	NI I	NI I III I NI I	

### LIMITATIONS:-

Subclinical Hyperthyroidism:

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.

Normal or High Normal

Reduced

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)	THYROX	INE (T4)	THYROID STIMULATING HORMONE (TS	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Normal or High Normal





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value Unit	Biological Reference interval

						8
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PREC	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

## **INCREASED TSH LEVELS:**

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

# DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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.



	MD (Pat	n <b>ay Chopra</b> hology & Microbiology) in & Consultant Pathologist		(Pathology)
IAME AGE/ GENDER	: <b>Mr. DILBAG SINGH</b> : 48 YRS/MALE		PATIENT ID	: 1752644
COLLECTED BY			REG. NO./LAB NO.	: 012502110004
REFERRED BY	•		REGISTRATION DATE	: 11/Feb/2025 08:23 AM
BARCODE NO.	: 01525300		COLLECTION DATE	: 11/Feb/2025 08:34AM
LIENT CODE.	: KOS DIAGNOSTIC LA		REPORTING DATE	: 11/Feb/2025 12:07PM
LIENT ADDRESS		N ROAD, AMBALA CANTT	ALI ONTING DATE	. 11/100/2020 12.011 M
Fest Name		Value	Unit	<b>Biological Reference interval</b>
		VIT	AMINS	
		VITAMIN D/25 HY	DROXY VITAMIN D	3
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): ESCENCE IMMUNOASSAY)	SERUM 49.14	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:				
DEE	CIENT	< 20	n	n/ml
	CIENT: FICIENT:	< 20 21 - 29		g/mLg/mL
INSUF PREFFERI INTOXI .Vitamin D compou	FICIENT: ED RANGE: ICATION: nds are derived from die	21 - 29 30 - 100 > 100	n n n plants, Vitamin D2), or cho	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. DILBAG SINGH				
AGE/ GENDER	: 48 YRS/MALE	PATIE	INT ID	: 1752644	
COLLECTED BY	:	REG. N	IO./LAB NO.	: 012502110004	
REFERRED BY	:	REGIS	TRATION DATE	: 11/Feb/2025 08:23 AM	
BARCODE NO.	:01525300	COLLE	ECTION DATE	: 11/Feb/2025 08:34AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 11/Feb/2025 11:03AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VITAMIN B12/CO	BALAMIN		
	ALAMIN: SERUM	272 SSAY)	pg/mL	190.0 - 890.0	
<u>INTERPRETATION:-</u> INCREAS	ED VITAMIN B12		DECREASED VITAMIN	J B12	
1.Ingestion of Vitan		1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitan		3.Ethanol Igestion 4. Contraceptive Harmones			
4.Hepatocellular in 5.Myeloproliferativ		5.Haemodialysis			
6.Uremia		6. Multiple Myeloma			
3.The body uses its v excreted. 4.Vitamin B12 deficie	ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocyl	cally, reabsorbing vitamir retion by gastric mucosa ic anemia, glossitis, peri	B12 from the ileun (eg, gastrectomy, g pheral neuropathy,	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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







		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
				Fathologist
NAME AGE/ GENDER	<b>: Mr. DILBAG SINGH</b> : 48 YRS/MALE	DA	TIENT ID	: 1752644
COLLECTED BY	. 40 IR3/ MALE		G. NO./LAB NO.	: 012502110004
REFERRED BY	:		GISTRATION DATE	: 11/Feb/2025 08:23 AM
BARCODE NO.	: 01525300	CO	LLECTION DATE	: 11/Feb/2025 08:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 11/Feb/2025 09:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		CLINICAL PA	THOLOGY	
	URINE	ROUTINE & MICRO		ATION
PHYSICAL EXAMIN				
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLO	W	PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY			
REACTION	MATION	ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-	ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
RED BLOOD CELLS	(RBCs)	NEGATIVE (-	ve) /HPF	0 - 3



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

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

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

NAME	: Mr. DILBAG SINGH				
AGE/ GENDER	: 48 YRS/MALE	]	PATIENT ID	: 1752644	
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<b>REFERRED BY</b>	:	]	REGISTRATION DATE	: 11/Feb/2025 08:23 AM	
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CLIENT CODE.			REPORTING DATE		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		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





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

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