

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mr. ASHISH VOHRA			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1707316
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412240016
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 24/Dec/2024 10:13 AM
BARCODE NO.	: 01522920		COLLECTION DATE	: 24/Dec/2024 10:21AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Dec/2024 10:32AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.2	2
	COMP	PLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	16.8	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (		6 <sup>H</sup>	Millions/	/cmm 3.50 - 5.00
ACKED CELL VOL		53.6	%	40.0 - 54.0
	UTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	89.5	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	28	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
by CALCULATED BY A	AR HEMOGLOBIN CONC. (MCHC)	31.3 <sup>L</sup>	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	13.2	%	11.00 - 16.00
	UTION WIDTH (RDW-SD)	44.3	fL	35.0 - 56.0
MENTZERS INDEX		14.92	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING INI	DEX	19.69	RATIO	BETA THALASSEMIA TRAIT:<
Sy ONLOOLATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CE		7640	/cmm	4000 - 11000
OTAL LEUCOCYTH	2 COUNT (TLC) Y BY SF CUBE & MICROSCOPY	7040	/ cmm	4000 - 11000
	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
NUCLEATED RED E	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometr	Y BY SF CUBE & MICROSCOPY	64	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
	Y BY SF CUBE & MICROSCOPY	4890	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	1986	/cmm	800 - 4900
ABSOLUTE EOSINO	OPHIL COUNT y by sf cube & microscopy	229	/cmm	40 - 440
ABSOLUTE MONOC		535	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	300000	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC F	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic f	OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	9	fL	6.50 - 12.0
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	60000	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	19.9	%	11.0 - 45.0
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.1	%	15.0 - 17.0

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



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Test Name	Valu	le Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 24/Dec/2024 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Fest Name		Value	Unit	<b>Biological Reference interval</b>
NTERPRETATION:				on associated with infection, cancer and auto-





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CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CL	INICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAST	ΓING (F)	
GLUCOSE FASTING	F (F): PLASMA E - PEROXIDASE (GOD-POD)	115.31 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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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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	133.99	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			ing, all	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
<b>FRIGLYCERIDES: S</b>		124.51	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO	L (DIRECT): SERUM	46.28	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
<i>b</i> ) 011101111				60.0
			( )-	HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI by CALCULATED, SPE		62.81	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
, , -				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 100.0 180.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST		87.71	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
VLDL CHOLESTER	)I · SFRIM	24.9	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			0.00 - 10.00
FOTAL LIPIDS: SER by calculated, spe		392.49	mg/dL	350.00 - 700.00
CHOLESTEROL/HD		2.9	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE				AVERAGE RISK: 4.50 - 7.0
				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		1.36	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	2.69 <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	Biological Reference interval
BILIRUBIN DIRECT by DIAZO MODIFIED, S BILIRUBIN INDIRE by CALCULATED, SPE SGOT/AST: SERUM	PECTROPHOTOMETRY C (CONJUGATED): SERUM SPECTROPHOTOMETRY CCT (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.9 0.17 0.73 19.6	mg/dL mg/dL mg/dL U/L	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 0.10 - 1.00 7.00 - 45.00
SGPT/ALT: SERUM	/RIDOXAL PHOSPHATE [ /RIDOXAL PHOSPHATE	28.2	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM	0.7	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	76.07	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	27.4	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.83	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.14	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1	2.69	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE		1.54	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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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



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	KIDNE	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		15.97	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERI		1.06	mg/dL	0.40 - 1.40
BLOOD UREA NITE	ROGEN (BUN): SERUM	7.46	mg/dL	7.0 - 25.0
•	ROGEN (BUN)/CREATININE	7.04 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM				
UREA/CREATININ	ECTROPHOTOMETRY F RATIO: SFRUM	15.07	RATIO	
	ECTROPHOTOMETRY	15.07	RATIO	
URIC ACID: SERUM		5.65	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PERUXIDASE	9.85	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	3.11	mg/dL	2.30 - 4.70
ELECTROLYTES	SATE, SI ECTROI HOTOMETRI			
SODIUM: SERUM		140.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERU		3.78	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		105.38	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	,			
	<b>MERULAR FILTERATION RATE</b>			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	84.4		
by CALCULATED				
INTERPRETATION:	veen pre- and post renal azotemia.			
	reen pre- and post renal azotenna.			

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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BARCODE NO.	: 01522920			COLLECTION DAT		4/Dec/2024 1		
CLIENT CODE.	: KOS DIAGN	OSTIC I AR		REPORTING DATE		4/Dec/2024 1 4/Dec/2024 1		
CLIENT ADDRESS		CHOLSON ROAD, AMB		KEI OKTING DATI	L	4/ Det/ 2024 1	1.30AW	
Test Name			Value	Uni	it	Biolog	ical Refere	nce interva
<ol> <li>Reduced muscle m Certain drugs (e.g. INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> </ol>	tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed	l creatinine production ucocorticoids) <b>/ATED CREATININE LEV</b> proportionately more on renal disease.	ELS:	ne) (e.g. obstructive	e uropathy).			
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;'</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;'</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> </ol>	ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. 2. creased urea s urea rather tha monemias (urea of inappropiate 0:1) WITH INCF py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATIO	I creatinine production ucocorticoids) (ATED CREATININE LEV proportionately more on renal disease. REASED BUN : (an creatinine diffuses) an creatinine diffuses) (a is virtually absent in antidiuretic harmone) (CREASED CREATININE: (a conversion of creatin creatinine). (a conversion of creatin creatinine (creatin). (creatinine measu (conversion creatin). (conversion of creatin (creatinine measu (conversion creatin). (conversion of creatin (creatinine (creatin). (creatinine (creatin). (creatinine (creatin). (cre	ELS: than creatinin but of extrace blood). due to tubula e to creatinin e in creatinin rement).	Ilular fluid). ar secretion of urea e).	hodologies, <b>ASSOCIA</b> Presence	<b>TED FINDINGS</b> roteinuria :e of Protein ,		hen dehydra
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2	ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. 2: creased urea s urea rather tha monemias (urea of inappropiate 0:1) WITH INCF py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATIO	I creatinine production ucocorticoids) (ATED CREATININE LEV proportionately more on renal disease. REASED BUN : (ATED CREATININE IN A COMPARIANCE) (A COMPARIA	ELS: than creatinin but of extrace blood). due to tubula e to creatinin e in creatinin rement).	Illular fluid). ar secretion of urea e). e with certain met L/min/1.73m2) >90 >90	hodologies, <b>ASSOCIA</b> Presence	TED FINDINGS		hen dehydra
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rabdomyolysis (r Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL G1 G2 G3a	ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. 2: creased urea s urea rather tha monemias (urea of inappropiate 0:1) WITH INCF py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATIO NC	I creatinine production ucocorticoids) (ATED CREATININE LEV proportionately more on renal disease. REASED BUN : (an creatinine diffuses) (a is virtually absent in antidiuretic harmone) (CREASED CREATININE: (a conversion of creatin creatinine). (a conversion of creatin creatinine). (a conversion of creatin creatinine). (a conversion of creatin creatinine ratio). (b conversion of creatin creatinine ratio). (b conversion of creatin creatinine measu (conversion of creatin creatinine measu (conversion of creatin creatinine ratio). (conversion of creatin creatinine ratio). (conversion of creatin creatinine measu (conversion of creatin (conversion of creat	ELS: than creatinin but of extrace blood). due to tubula e to creatinine rement).	ellular fluid). ar secretion of urea e). e with certain met L/min/1.73m2 ) >90 >90 60 -89	hodologies, <b>ASSOCIA</b> Presence	<b>TED FINDINGS</b> roteinuria :e of Protein ,		hen dehydra
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 ar 3. Severe liver disease 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 GLOMERL CKD STAGE G1 G2	ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate 0:1) WITH INCF py (accelerates eleases muscle who develop ra- sis (acetoaceta creased BUN/c apy (interferes UAR FILTERATIO	I creatinine production ucocorticoids) (ATED CREATININE LEV proportionately more on renal disease. REASED BUN : (ATED CREATININE IN A COMPARIANCE) (A COMPARIA	ELS: than creatinin but of extrace blood). due to tubula e to creatinine rement).	Illular fluid). ar secretion of urea e). e with certain met L/min/1.73m2) >90 >90	hodologies, <b>ASSOCIA</b> Presence	<b>TED FINDINGS</b> roteinuria :e of Protein ,		hen dehydra





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









Test Name		Value Unit	Biological Reference interval
	. 0040/ 1, MICHOLJON ROAD, AND		
CLIENT ADDRESS	: 6349/1. NICHOLSON ROAD. AMB	SALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 24/Dec/2024 11:56AM
BARCODE NO.	: 01522920	COLLECTION DATE	: 24/Dec/2024 10:21AM
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 24/Dec/2024 10:13 AM
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	:012412240016
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1707316
NAME	: Mr. ASHISH VOHRA		
	MD (Pathology & Mic Chairman & Consulta		D (Pathology) nt Pathologist
	Dr. Vinay Chopr		m Chopra

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





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

MBBS, MD (PATHOLOGY)







		y <b>Chopra</b> ogy & Microbiology) Consultant Pathologis	Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist		
NAME	: Mr. ASHISH VOHRA				
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1707316	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412240016	
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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTI	ſ		
Test Name		Value	Unit	Biological Reference interva	
			<b>CRINOLOGY</b> CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immu	0.996	ng/mI		
THYROXINE (T4): S		6.31	μgm/c	L 4.87 - 12.60	
	TING HORMONE (TSH): iescent microparticle immu rasensitive		µIU/m	L 0.35 - 5.50	
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentration	ons. TSH stimulates the pr	oduction and secretion of the	9 pm. The variation is of the order of 50%.Hence time of a metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or	
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	Normal C	or Low Normal	Normal or Low Normal	High	

LIM	ΙΤΑΤ	ION	IS:-

Primary Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

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.

TRIIODOTHYRONINE (T3)		THYROX	(INE (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	

Increased

Normal or High Normal





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mr. ASHISH VOHRA		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1707316
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012412240016
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	<b>Biological Reference interval</b>

1 est Name			value	Unit	[	Biological Reference Interval
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 LE	VELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

### **INCREASED TSH LEVELS:**

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

## DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. ASHISH VOHRA			
AGE/ GENDER	: 52 YRS/MALE	РАТ	TENT ID	: 1707316
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CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A		ORTING DATE	. 24/ Dec/ 2024 01.43PM
	,			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA'	THOLOGY	
	URINE RO		SCOPIC EXAMINA	ATION
PHYSICAL EXAMIN				
QUANTITY RECIEVE	ED	10	ml	
COLOUR	ANCE SPECTROPHOTOMETRY	PALE YELLOW	V	PALE YELLOW
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLECT SPECIFIC GRAVITY	ANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMIN	<u>VATION</u>			
REACTION by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		5.5		5.0 - 7.5
BILIRUBIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT NITRITE	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT UROBILINOGEN	ANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY			
	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	NEGATIVE (-v	re)	NEGATIVE (-ve)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-v	ve) /HPF	0 - 3





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist NAME : Mr. ASHISH VOHRA AGE/ GENDER **PATIENT ID** :1707316 : 52 YRS/MALE **COLLECTED BY** : SURJESH :012412240016 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 24/Dec/2024 10:13 AM : **COLLECTION DATE BARCODE NO.** :01522920 :24/Dec/2024 10:21AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** :24/Dec/2024 01:43PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 

Dr. Vinay Chopra

restrume	Value	CIM	biological weier chee inter var
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/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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