



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		Pathology)
	Mr. MILAN KUMAR			
	34 YRS/MALE		PATIENT ID	: 1621340
COLLECTED BY :			REG. NO./LAB NO.	: 012409220009
REFERRED BY :	01517444		REGISTRATION DATE	: 22/Sep/2024 07:33 AM
	01517444 KOS DIAGNOSTIC LAB		COLLECTION DATE REPORTING DATE	: 22/Sep/2024 07:38AM : 22/Sep/2024 08:42AM
	6349/1, NICHOLSON ROAD, AMI			. 22/ 50p/ 2024 00.42/10
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.1	
	CON	MPLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (RBC	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by calorimetric		15.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC)		5.18 ^H	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV)		48.2	%	40.0 - 54.0
MEAN CORPUSCULAR \		93.1	fL	80.0 - 100.0
MEAN CORPUSCULAR H		29.9	pg	27.0 - 34.0
	OMATED HEMATOLOGY ANALYZER IEMOGLOBIN CONC. (MCHC)	32.2	g/dL	32.0 - 36.0
by CALCULATED BY AUT RED CELL DISTRIBUTIO	<i>COMATED HEMATOLOGY ANALYZER</i> N WIDTH (RDW-CV)	14.3	%	11.00 - 16.00
by CALCULATED BY AUT RED CELL DISTRIBUTIO		49.7	fL	35.0 - 56.0
	OMATED HEMATOLOGY ANALYZER	49.7	IL I	35.0 - 30.0
MENTZERS INDEX		17.97	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		25.68	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (<u>NBCS)</u>			
TOTAL LEUCOCYTE COL	JNT (TLC) y sf cube & microscopy	7300	/cmm	4000 - 11000
NUCLEATED RED BLOO		NIL		0.00 - 20.00
NUCLEATED RED BLOO	D CELLS (nRBCS) % <i>COMATED HEMATOLOGY ANALYZER</i>	NIL	%	< 10 %
NEUTROPHILS	Y SF CUBE & MICROSCOPY	51	%	50 - 70



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.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MILAN KUMAR **AGE/ GENDER** : 34 YRS/MALE **PATIENT ID** :1621340 **COLLECTED BY** :012409220009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Sep/2024 07:33 AM **BARCODE NO.** :01517444 **COLLECTION DATE** : 22/Sep/2024 07:38AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Sep/2024 08:42AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 37 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY Q MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3723 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2701 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 219 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 657 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 324000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.3 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 9 MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 70000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 21.5 11.0 - 45.0 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name		Value	Unit	Biological Reference interval
	FRYTH	ROCYTE SEDIME	INTATION RATE (ESR	2)
	MENTATION RATE (ESR)	2	mm/1st hr	
systemic lupus erythe CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	ematosus W ESR n with conditions that inhibit the ificantly high white blood cell cou- e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does C by as many other factors as is ESR ed, it is typically a result of two ty ve a higher ESR, and menstruation	normal sedimentat unt (leucocytosis) , R. of inflammation. RP, either at the sta 2, making it a better yees of proteins, glo n and pregnancy car	ion of red blood cells, su and some protein abnor art of inflammation or as marker of inflammation , bulins or fibrinogen. n cause temporary elevat	malities. Šome changes in red cell shape (such it resolves.





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MBBS, MD (PATHOLOGY)



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	RY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	109.41 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpti	on of 15 ams of alucose) is recon	considered normal mg/dl is considered nmended for all su is highly suggestive	ch patients.	prediabetic. A fasting and post-prandial bloo at post-prandial is strongly recommended fo

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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		172.91	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 24
TRIGLYCERIDES: SEF by GLYCEROL PHOSI	RUM Phate Oxidase (enzymatic)	161.56 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		42.54	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: S		98.06	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPL		130.37 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL: by calculated, spe		32.31	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI	M	507.38	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	4.06	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
DL/HDL RATIO: SER by calculated, spe		2.31	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.8	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 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
	LIV	ER FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: SERUM		0.51	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SPECTROPHOTOMETRY				ADULT: 0.00 - 1.20
	CONJUGATED): SERUM SPECTROPHOTOMETRY	0.13	mg/dL	0.00 - 0.40
	Г (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.38	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		25	U/L	7.00 - 45.00
SGPT/ALT: SERUM		35.6	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.7	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		79.32	U/L	40.0 - 130.0
	_ TRANSFERASE (GGT): SERUM	34.95	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	7.18	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.69	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	3.49	gm/dL	2.30 - 3.50
		1.04		

Dr. Vinay Chopra

INTERPRETATION

A : G RATIO: SERUM

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

1.06





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RATIO

1.00 - 2.00

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Test Name		Value	Unit	Biological Reference interva
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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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	KII	ONEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		23.62	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)	1.08		
	CREATININE: SERUM		mg/dL	0.40 - 1.40
	by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY	11.04		
BLOOD UREA NITRC RATIO: SERUM	OGEN (BUN)/CREATININE	10.22	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE F		21.87	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	6.58	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE	0.50	nig/uL	3.00 - 7.70
CALCIUM: SERUM		9.03	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SEF		3.02	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.02	ing/al	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		140.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.2	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		4.2	minul/L	5.50 - 5.00
CHLORIDE: SERUM		105.23	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	(E ELECTRODE) RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	02.2		
(eGFR): SERUM	KULAK FILTEKATIUN KATE	92.3		
by CALCULATED				

by CALCULATED **INTERPRETATION:**

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBAI	LA CANTT			
Test Name			Value	Unit	Biological	Reference interval
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 GLOMER	e. creased urea syr (urea rather thar monemias (urea of inappropiate a 10:1) WITH INCRE upy (accelerates of eleases muscle of who develop ref sis (acetoacetat creased BUN/cro rapy (interferes of JLAR FILTERATIO	n creatinine diffuses ou is virtually absent in b intidiuretic harmone) di EASED CREATININE: conversion of creatine t creatinine). nal failure. e causes false increase eatinine ratio). vith creatinine measure N RATE:	lood). ue to tubular se to creatinine). in creatinine wi	cretion of urea.	ologies,resulting in norma	ıl ratio when dehydratior
CKD STAGE		DESCRIPTION	GFR (mL/mi	n/1.73m2)	ASSOCIATED FINDINGS]
G1		mal kidney function	>9	0	No proteinuria]
G2		dney damage with	>9		Presence of Protein ,	
<u> </u>		ormal or high GFR	10		Ibumin or cast in urine	4
G3a G3b		Id decrease in GFR erate decrease in GFR	60 - 30-			4
630			30-	U7		4

G4

G5

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Severe decrease in GFR

Kidney failure

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

15-29

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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	: Mr. MILAN KUMAR			
AGE/ GENDER	: 34 YRS/MALE	PAT	TENT ID	: 1621340
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409220009
REFERRED BY				
	•			: 22/Sep/2024 07:33 AM
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Test Name		Value	Unit	Biological Reference interval
THYROID STIMULAT			G HORMONE (TSH)	0 35 - 5 50
by CMIA (CHEMILUMI	ING HORMONE (TSH): SERUM	ROID STIMULATIN 2.329		0.35 - 5.50
by CMIA (CHEMILUMII 3rd GENERATION, UL1	ING HORMONE (TSH): SERUM	ROID STIMULATIN 2.329	G HORMONE (TSH)	0.35 - 5.50
	ING HORMONE (TSH): SERUM	ROID STIMULATIN 2.329	G HORMONE (TSH)	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM Nescent microparticle immuno, Trasensitive	ROID STIMULATIN 2.329	G HORMONE (TSH) μIU/mL	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE	ROID STIMULATIN 2.329	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μΙ	
by CMIA (CHEMILUMII Brd GENERATION, ULT	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS	ROID STIMULATIN 2.329	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ROID STIMULATIN 2.329	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULATIN 2.329	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ROID STIMULATIN 2.329	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	
by CMIA (CHEMILUMII Brd GENERATION, ULT	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ROID STIMULATIN 2.329	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	
by CMIA (CHEMILUMII Brd GENERATION, ULT	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO/ TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	ASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μII 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00	
by CMIA (CHEMILUMII 3rd GENERATION, UL1	TING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μI 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

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

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.



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







	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MD	(Pathology)
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7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)
AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	Mr. MILAN KUMAR 34 YRS/MALE 01517444 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, A	REGISTR COLLECT REPORT	T ID /LAB NO. PATION DATE TION DATE ING DATE	: 1621340 : 012409220009 : 22/Sep/2024 07:33 AM : 22/Sep/2024 07:38AM : 22/Sep/2024 08:43AM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINATIO		CLINICAL PATHO DUTINE & MICROSCO		ION
QUANTITY RECIEVED by DIP STICK/REFLECTAN COLOUR by DIP STICK/REFLECTAN TRANSPARANCY by DIP STICK/REFLECTAN SPECIFIC GRAVITY	NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY	10 PALE YELLOW CLEAR 1.02	ml	PALE YELLOW CLEAR 1.002 - 1.030
PROTEIN by DIP STICK/REFLECTAN SUGAR by DIP STICK/REFLECTAN PH by DIP STICK/REFLECTAN BILIRUBIN	NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY	ACIDIC Negative Negative <=5.0 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)
by DIP STICK/REFLECTAN UROBILINOGEN by DIP STICK/REFLECTAN KETONE BODIES by DIP STICK/REFLECTAN BLOOD by DIP STICK/REFLECTAN ASCORBIC ACID	NCE SPECTROPHOTOMETRY. NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY	Normal Negative Negative NEGATIVE (-ve)	EU/dL	NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

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

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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs)	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval 0 - 3
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS				Ŭ
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS by MICROSCOPY ON (CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve) 2-4	/HPF /HPF	0 - 3 0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT