



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. MANJEET KAUR			
AGE/ GENDER	: 40 YRS/FEMALE		PATIENT ID	: 1621383
COLLECTED BY	:		REG. NO./LAB NO.	: 012409220020
REFERRED BY	:		REGISTRATION DATE	: 22/Sep/2024 08:49 AM
BARCODE NO.	: 01517455		COLLECTION DATE	: 22/Sep/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Sep/2024 09:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.1	
			DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE		4.59	Millions/cr	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE	33.4 ^L	%	37.0 - 50.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA	R VOLUIVIE (IVICV) AUTOMATED HEMATOLOGY ANALYZER	72.8 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	21.8 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	29.9 ^L	g/dL	32.0 - 36.0
	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-CV)	18.3 ^H	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	49.9	fL	35.0 - 56.0
MENTZERS INDEX		15.86	RATIO	BETA THALASSEMIA TRAIT: < 13.0
	V	20.04	DATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	λ	29.04	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C		11120 ^H	/cmm	4000 - 11000
by FLOW CYTOMETR NUCLEATED RED BLC	y by sf cube & microscopy DOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAP	RT HEMATOLOGY ANALYZER			
	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCO				
NEUTROPHILS		57	%	50 - 70
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			





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

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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. MANJEET KAUR **AGE/ GENDER** : 40 YRS/FEMALE **PATIENT ID** :1621383 **COLLECTED BY** :012409220020 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Sep/2024 08:49 AM **BARCODE NO.** :01517455 **COLLECTION DATE** : 22/Sep/2024 08:51AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Sep/2024 09:18AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 31 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 7H EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 % 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 6338 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3447 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 778^H 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 556 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 459000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.55^H 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 30000 - 90000 184000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 40.2 11.0 - 45.0 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDIMEN	TATION RATE (ESF	8)
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOME	43 ^H	mm/1st h	r 0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see	does not tell the health practiti cted by other conditions beside be used to monitor disease acti ematosus W ESR n with conditions that inhibit th	oner exactly where the s inflammation. For this vity and response to the ne normal sedimentatior	inflammation is in the reason, the ESR is typ rapy in both of the at n of red blood cells, su	on associated with infection, cancer and auto body or what is causing it. ically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc
as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe	e cell anaemia) also lower the l e protein (C-RP) are both marke es not change as rapidly as does	ESR. rs of inflammation. CRP, either at the start	of inflammation or as	it resolves.

 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment of a structure of the start of aspirin, cortisone, and quinine may decrease it





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Test Names		Value	Unit	Biological Reference interval
Test Name				
	CLIN	ICAL CHEMISTRY/		Y
GLUCOSE FASTING (IICAL CHEMISTRY/ GLUCOSE FAST 138.97 ^H		Y NORMAL: < 100.0

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 TOTAL	: SERUM	219.32 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		217.52		BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM hate oxidase (enzymatic)	188.62 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E		51.01	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: S by CALCULATED, SPE		130.59 ^H	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 CHOLESTER by CALCULATED, SPE		168.31 ^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
VLDL CHOLESTEROL: by calculated, spec		37.72	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	1	627.26	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC		4.3	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERI by calculated, spec		2.56	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.7	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 1	TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	1.03	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
	C (UNCONJUGATED): SERUM	0.8	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	14.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM		22.3	U/L	0.00 - 49.00
by IFCC, WITHOUT PY AST/ALT RATIO: SER	(RIDOXAL PHOSPHATE	0.65	RATIO	0.00 - 46.00
	ECTROPHOTOMETRY	0.00	KATIO	0.00 - 40.00
ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL	NTASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	142.11 ^H	U/L	40.0 - 130.0
	. TRANSFERASE (GGT): SERUM PHTOMETRY	39.48	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	7.2	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	GREEN	3.39 ^L	gm/dL	3.50 - 5.50
-	ECTROPHOTOMETRY	3.81 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	 ECTROPHOTOMETRY	0.89 ^L	RATIO	1.00 - 2.00

Dr. Vinay Chopra

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

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



INTERPRETATION





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DECREASED:

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

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

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



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	KI	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		21.83	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.8	mg/dL	0.40 - 1.20
BLOOD UREA NITRO	DGEN (BUN): SERUM	10.2	mg/dL	7.0 - 25.0
		10.75		10.0.00.0
RATIO: SERUM	DGEN (BUN)/CREATININE	12.75	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I		27.29	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY	3.83	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE		ing/ de	
CALCIUM: SERUM by ARSENAZO III, SPE	ECTRODUCTOMETRY	9.87	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		2.6	mg/dL	2.30 - 4.70
by PHOSPHOMOLYB	DATE, SPECTROPHOTOMETRY		<u>J</u>	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		141.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUN		4.06	mmol/L	3.50 - 5.00
by ISE (ION SELECTI)				
CHLORIDE: SERUM		105.9	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	95.5		
(eGFR): SERUM				
by CALCULATED				

by CALCULATED

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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Test Name		Value Unit	Biological I	Reference interval
1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2 G3a	nd starvation. e. creased urea synthesis. furea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increas creased BUN/creatinine ratio). apy (interferes with creatinine measu <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> <u>Normal kidney function</u> <u>Kidney damage with</u> <u>normal or high GFR</u> <u>Mild decrease in GFR</u>	han creatinine) (e.g. obstructive ur out of extracellular fluid). blood). due to tubular secretion of urea. e to creatinine). e in creatinine with certain method rement). GFR (mL/min/1.73m2) >90 >90 60 -89		I ratio when dehydration
G3b	Moderate decrease in GFR	30-59		
G4	Severe decrease in GFR	15-29		

G5

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

Kidney failure

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	ГТ	
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

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

MBBS, MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD (CEO & Consultant	(Pathology)	
NAME	: Mrs. MANJEET KAUR				
AGE/ GENDER	: 40 YRS/FEMALE	PAT	TIENT ID	: 1621383	
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409220020	
REFERRED BY		REG	SISTRATION DATE	: 22/Sep/2024 08:49 AM	
BARCODE NO.	: 01517455		LECTION DATE	: 22/Sep/2024 08:51AM	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 22/Sep/2024 01:08PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT			
				Distantia I Defense a listera d	
Test Name THYROID STIMULAT	TH ING HORMONE (TSH): SERUI	Value ENDOCRIN IYROID STIMULATIN M 1.436		Biological Reference interval	
THYROID STIMULAT	ING HORMONE (TSH): SERUI	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH)		
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUI iescent microparticle immun rasensitive AGE	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH)	0.35 - 5.50	
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUI iescent microparticle immun rasensitive AGE 0 – 5 DAYS	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20	0.35 - 5.50 (µIU/mL)	
HYROID STIMULAT by CMIA (CHEMILUMIN rd GENERATION, ULT	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN ord GENERATION, ULT: <u>NTERPRETATION:</u>	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN ord GENERATION, ULT: <u>NTERPRETATION:</u>	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRIN IYROID STIMULATIN M 1.436	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN ord GENERATION, ULT: <u>NTERPRETATION:</u>	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRIN HYROID STIMULATIN M 1.436 IOASSAY)	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	0.35 - 5.50 (µIU/mL)	
THYROID STIMULAT by CMIA (CHEMILUMIN ord GENERATION, ULT: <u>NTERPRETATION:</u>	ING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ENDOCRIN HYROID STIMULATIN M 1.436 IOASSAY)	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	0.35 - 5.50 (µIU/mL)	

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, Iodine 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.



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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		
NAME	: Mrs. MANJEET KAUR			
AGE/ GENDER	: 40 YRS/FEMALE	PATIE	IT ID	: 1621383
COLLECTED BY	:	REG. N	D./LAB NO.	: 012409220020
REFERRED BY	:	REGIST	RATION DATE	: 22/Sep/2024 08:49 AM
BARCODE NO.	: 01517455	COLLE	TION DATE	: 22/Sep/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 22/Sep/2024 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

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.



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

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 www.koshealthcare.com







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NAME	: Mrs. MANJEET KAUR			
AGE/ GENDER	: 40 YRS/FEMALE	PA	TIENT ID	: 1621383
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BARCODE NO.	: 01517455		DLLECTION DATE	: 22/Sep/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 22/Sep/2024 10:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
		OUTINE & MICO	DSCOPIC EXAMINAT	
			DSCOPIC EXAMININA	non
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	AMBER YELLO		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	AIVIDER TELL	JVV	FALE TELLOW
TRANSPARANCY		CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
CHEMICAL EXAMINA	TANCE SPECTROPHOTOMETRY			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	g		
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	E O		F 0 7 F
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	NUITIAI	EU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	, in the second s		
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-v		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		C)	
MICROSCOPIC EXAN				

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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com

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

RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT EPITHELIAL CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve)	NAME	: Mrs. MANJEET KAUR				
REFERRED BY : REGISTRATION DATE : 22/Sep/2024 08:49 AM BARCODE NO. : 01517455 COLLECTION DATE : 22/Sep/2024 08:51 AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Sep/2024 10:35 AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 22/Sep/2024 10:35 AM Test Name Value Unit Biological Reference interval RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 1-3 /HPF 0 - 5 PUS CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT crystals 2-4 /HPF ABSENT NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 0.4 NEGATIVE (-ve) NEGATIVE (-ve)	AGE/ GENDER	: 40 YRS/FEMALE	PATIENT	ID	: 1621383	
BARCODE NO. : 01517455 COLLECTION DATE : 22/Sep/2024 08:51AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Sep/2024 10:35AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval Test Name Value Unit Biological Reference interval RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 1-3 /HPF 0 - 5 PUS CELLS 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT PUS CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT crystALS NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve)	COLLECTED BY	:	REG. NO./LAB NO.		: 012409220020	
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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interval RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT I-3 /HPF 0 - 5 PUS CELLS 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS 2-4 /HPF ABSENT cRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)	BARCODE NO.	: 01517455	COLLECTION DATE		: 22/Sep/2024 08:51AM	
Test NameValueUnitBiological Reference intervalRED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)/HPF0 - 3PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT1-3/HPF0 - 5EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT2-4/HPFABSENTCRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)	CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 22/Sep/2024 10:35AM	
RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT EPITHELIAL CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT VEGATIVE (-ve) NEGATIVE (-ve)	CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 1-3 /HPF 0 - 5 PUS CELLS 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 2-4 /HPF ABSENT EPITHELIAL CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve)						
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS 2-4 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	•		NEGATIVE (-ve)	/HPF	0 - 3	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	ABSENT	
CASTS NEGATIVE (-ve) NEGATIVE (-ve)		CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
	CASTS		NEGATIVE (-ve)		NEGATIVE (-ve)	

CASTS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) 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)

ABSENT



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

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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT