



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		am Chopra MD (Pathology) tant Pathologist
NAME	: Mrs. SWEETY GOSWAMI			
AGE/ GENDER	: 50 YRS/FEMALE		PATIENT ID	: 1541669
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407080036
REFERRED BY	:		REGISTRATION DAT	E : 08/Jul/2024 11:34 AM
BARCODE NO.	: 01512744		COLLECTION DATE	: 08/Jul/2024 11:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Jul/2024 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	SALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	/ELLNESS PANEL: I	D
	CON	/IPLETE BI	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.6 ^L	gm/d	L 12.0 - 16.0
RED BLOOD CELL (RE		4.01	Million	ns/cmm 3.50 - 5.00
PACKED CELL VOLUN		34.7 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	86.4	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	AR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	30.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	15.3	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	49	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX by CALCULATED	AUTOMATED HEMATOLOGY ANALYZER	21.55	RATIC) BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	32.8	RATIC	BETA THALASSEMIA TRAIT: < = 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE C		6870	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % automated hematology analyzer &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

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Test Name		Value	Unit	Biological Reference interval
		Value 61	Unit %	Biological Reference interval
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY		%	Ĵ
L NEUTROPHILS by FLOW CYTOMETR LYMPHOCYTES				Ĵ
L NEUTROPHILS by FLOW CYTOMETR LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY Y BY SF CUBE & MICROSCOPY	61	%	50 - 70
L NEUTROPHILS by flow cytometr LYMPHOCYTES by flow cytometr EOSINOPHILS		61	%	50 - 70

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
EOSINOPHILS	3	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
MONOCYTES	6	%	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	4191	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	2061	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOPHIL COUNT	206	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE MONOCYTE COUNT	412	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		,	0.440
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
PLATELETS AND OTHER PLATELET PREDICTIVE MARKER	<u>(5.</u>		
PLATELET COUNT (PLT)	176000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)	0.27	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		-	
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	15 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC)	111000H	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	111000 ^H		30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR)	63.2 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	00.2		
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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	
Test Name		Value Unit	t Biological Reference interval
	ERYTH	IROCYTE SEDIMENTATION RATI	E (ESR)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune 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 practitic cted by other conditions besides be used to monitor disease activ ematosus W ESR n with conditions that inhibit the	t often indicates the presence of inflar iner exactly where the inflammation is inflammation. For this reason, the ESF ity and response to therapy in both of e normal sedimentation of red blood c	R is typically used in conjunction with other test suc f the above diseases as well as some others, such as cells, such as a high red blood cell count
as sickle cells in sickl NOTE:	nificantly high white blood cell co e cell anaemia) also lower the E e protein (C-RP) are both marker	SR.	n abnormalities. Šome changes in red cell shape (suc

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does 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 aspirin, cortisone, and quinine may decrease it





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			Unit	Biological Reference interval
Test Name		Value	Unit	Biological Reference Interval
Test Name	CLIN		TRY/BIOCHEMISTR	-
Test Name	CLIN	IICAL CHEMIS		-

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 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	L: SERUM	164.33	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		5	BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER		139.05	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM	60.09	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI				BORDERLINE HIGH HDL: 30.0 -
				60.0
LDL CHOLESTEROL: S		76.43	ma/dl	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE		70.43	mg/dL	ABOVE 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		104.24	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0
by GALOOLATED, OF L				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		27.81	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	467.71	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F		2.73	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE				AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0
LDL/HDL RATIO: SER	I IN A	1.27	RATIO	HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0
	UIVI CTROPHOTOMETRY	1.2/	KATIO	MODERATE RISK: 3.10 - 6.0
by CALCULATED, SPE				

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	2.31 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. SWEETY GOSWAMI AGE/ GENDER : 50 YRS/FEMALE **PATIENT ID COLLECTED BY** : SURJESH REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01512744 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

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Test Name	Value	Unit	Biological Reference interval
LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.38	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.2	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	27.24	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	27.18	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	102	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	34	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.64	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.1	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	3.54 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.16	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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NAME





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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).

PROGNOSTIC SIGNIFICANCE:

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



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	кі	DNEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		15.64	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.61	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		7.31	mg/dL	7.0 - 25.0
by CALCULATED, SPE		11.00	DATIO	10.0
RATIO: SERUM	GEN (BUN)/CREATININE	11.98	RATIO	10.0 - 20.0
by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININE F		25.64	RATIO	
by CALCULATED, SPE	CTROPHOTOMETRY	6.9 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE		-	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.32	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER		3.42	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY		Ŭ	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		136	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.66	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	E ELECTRODE)			
CHLORIDE: SERUM by ISE (ION SELECTIV	(F ELECTRODE)	102	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	108.8		

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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LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATI	E : 08/Jul/2024 01:05	PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
est Name		Value Un	it Biological	Reference interval
Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir Cephalosporin the <u>STIMATED GLOMERI</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u>	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: upy (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. creased BUN/creatinine ratio). rapy (interferes with creatinine mea <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> <u>Normal kidney function</u> Kidney damage with normal or high GFR	in blood). e) due to tubular secretion of urea ine to creatinine). ease in creatinine with certain met surement). <u>GFR (mL/min/1.73m2)</u> n >90 >90		al ratio when dehydratic
G3a G3b	Mild decrease in GFR Moderate decrease in G	60 -89 FR 30-59		-
G4	Severe decrease in GF			1
G5	Kidnov failuro			1

Kidney failure

Г

G5

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	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. SWEETY GOSWAMI		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1541669
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407080036
REFERRED BY	:	REGISTRATION DATE	: 08/Jul/2024 11:34 AM
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Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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

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Test Name		Value	Unit	Biological Reference interval
	IN	IMUNOPATH	IOLOGY/SEROLOGY	
		C-REACTIVI	E PROTEIN (CRP)	
C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 37.12 ^H SERUM by NEPHLOMETRY INTERPRETATION:		mg/L	0.0 - 6.0	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant

rejection, and to monitor these inflammatory processes. 4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history. 2. Oral contraceptives may increase CRP levels.





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	MD (Pathology & N Chairman & Consu			(Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
	CARDIO/HIGHI	LY SENSITIVE	E C- RECATIVE PROTEIN	(hs-CRP)
CARDIO/HIGHLY SEI (HS-CRP) by NEPHLOMETRY INTERPRETATION:	NSITIVE C-REACTIVE PROTEIN	23.88 ^H	mg/L	0.00 - 3.00

CARDIO/HIGHLY SENSTIVE CRP (hs-CRP) IN mg/L	CARDIOVASCULAR RISK	
<1	LOW	
1 - 3	AVERAGE	
3 - 10	HIGH	
>10	PERSISTENT ELEVATION MAY REPRESENT NON CARDIOVASCULAR INFLAMMATION	

NOTE:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

To assess vascular risk, it is recommended to test hsCRP levels 2 or more weeks apart and calculate the average

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

High sensitivity C Reactive Protein (hsCRP) significantly improves cardiovascular risk assessment as it is a strongest predictor of future coronary events. It reveals the risk of future Myocardial infarction and Stroke among healthy men and women, independent of traditional risk factors. It identifies patients at risk of first Myocardial infarction even with low to moderate lipid levels. The risk of recurrent cardiovascular events also correlates well with hs CRP levels. It is a powerful independent risk determinant in the prediction of incident Diabetes





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Test Name	Value	Unit	Biological Reference interval
	V	/ITAMINS	
	VITAMIN D/25	HYDROXY VITAMIN D	03
/ITAMIN D (25-HYDROXY VITAMIN D3)	: SERUM 32.8	ng/mL	DEFICIENCY: < 20.0
by CLIA (CHEMILUMINESCENCE IMMUNOAS		ng/me	INSUFFICIENCY: 20.0 - 30.0
			SUFFICIENCY: 30.0 - 100.0
			TOXICITY: > 100.0
NTERPRETATION:			
DEFICIENT:	< 20		ng/mL
INSUFFICIENT:	21 - 29		ng/mL
PREFFERED RANGE: INTOXICATION:	<u> </u>		ng/mL
issue and tightly bound by a transport g 3.Vitamin D plays a primary role in the n phosphate reabsorption, skeletal calciur 4.Severe deficiency may lead to failure to DECREASED: 1. Lack of sunshine exposure. 2.Inadequate intake, malabsorption (cel 3.Depressed Hepatic Vitamin D 25- hydro 4.Secondary to advanced Liver disease 5.Osteoporosis and Secondary Hyperpar 5.Enzyme Inducing drugs: anti-epileptic of NCREASED: 1. Hypervitaminosis D is Rare, and is seen severe hypercalcemia and hyperphophat CAUTION : Replacement therapy in deficient hypervitaminosis D	body resevoir and transpo protein while in circulation naintenance of calcium hou n deposition, calcium mobi o mineralize newly formed iac disease) oxylase activity athroidism (Mild to Moder drugs like phenytoin, pheno n only after prolonged expo emia. ent individuals must be mo	rt form of Vitamin D and tra meostatis. It promotes calc ilization, mainly regulated b osteoid in bone, resulting i ate deficiency) obarbital and carbamazepir osure to extremely high dos nitored by periodic assessm	ansport form of Vitamin D, being stored in adipose cium absorption, renal calcium absorption and by parathyroid harmone (PTH). in rickets in children and osteomalacia in adults. he, that increases Vitamin D metabolism. ses of Vitamin D. When it occurs, it can result in nent of Vitamin D levels in order to prevent eficiency due to excess of melanin pigment which
	*** End Of	Report ***	
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