



	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa		Dr. Yugam MD (f CEO & Consultant F	Pathology)
NAME : Mrs. VAN	NDANA			
AGE/ GENDER : 44 YRS/F	EMALE	РАТ	TENT ID	: 1722566
COLLECTED BY : SURJESH		REG	. NO./LAB NO.	:012501130021
REFERRED BY :			ISTRATION DATE	: 13/Jan/2025 10:19 AM
BARCODE NO. : 0152381			LECTION DATE	: 13/Jan/2025 10:24AM
	GNOSTIC LAB NICHOLSON ROAD, AMBALA		ORTING DATE	: 13/Jan/2025 10:38AM
Test Name	Va	lue	Unit	Biological Reference interva
			IESS PANEL: 1.5) COUNT (CBC)	
<u>RED BLOOD CELLS (RBCS) CO</u>	DUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC	1	1.4 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUN		.62	Millions/c	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELI PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED H	3	4.5 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUMI		5.4	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMO	GLOBIN (MCH) 3	1.5	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOG by CALCULATED BY AUTOMATED H	LOBIN CONC. (MCHC) 3	3	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WID		3.9	%	11.00 - 16.00
RED CELL DISTRIBUTION WID by CALCULATED BY AUTOMATED H	OTH (RDW-SD) 4	9.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	2	6.35	RATIO	BETA THALASSEMIA TRAIT 13.0 IRON DEFICIENCY ANEMIA >13.0
GREEN & KING INDEX	3	6.64	RATIO	BETA THALASSEMIA TRAIT 65.0 IRON DEFICIENCY ANEMIA 65.0
.,				
)			03.0
WHITE BLOOD CELLS (WBCS	- LC) 3 :	900 ^L	/cmm	4000 - 11000
WHITE BLOOD CELLS (WBCS TOTAL LEUCOCYTE COUNT (T	LC) 3 & <i>MICROSCOPY</i> LS (nRBCS) N	900 ^L IL	/cmm	





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







EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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REFERRED BY	:	RE	GISTRATION DATE	: 13/Jan/2025 10:19 AM
BARCODE NO.	:01523812	CO	LLECTION DATE	: 13/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 13/Jan/2025 10:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS	' BY SF CUBE & MICROSCOPY	71 ^H	%	50 - 70
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	21	%	20 - 40
EOSINOPHILS	' BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES	' BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO	DPHIL COUNT ' by sf cube & microscopy	2769	/cmm	2000 - 7500
ABSOLUTE LYMPHO	CYTE COUNT BY SF CUBE & MICROSCOPY	819	/cmm	800 - 4900
ABSOLUTE EOSINO	PHIL COUNT	117	/cmm	40 - 440
ABSOLUTE MONOC	' BY SF CUBE & MICROSCOPY YTE COUNT ' BY SF CUBE & MICROSCOPY	195	/cmm	80 - 880
ABSOLUTE BASOPH		0	/cmm	0 - 110
PLATELETS AND O	THER PLATELET PREDICTIVE	<u>E MARKERS.</u>		
PLATELET COUNT ((PLT) OCUSING, ELECTRICAL IMPEDENCE	260000	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC F	T) OCUSING, ELECTRICAL IMPEDENCE	0.26	%	0.10 - 0.36
MEAN PLATELET V	OLUME (MPV) OCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
	CELL COUNT (P-LCC) ocusing, electrical impedence	71000	/cmm	30000 - 90000
	CELL RATIO (P-LCR) OCUSING, ELECTRICAL IMPEDENCE	27.5	%	11.0 - 45.0
by HYDRO DYNAMIC F	UTION WIDTH (PDW) OCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0



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Test Name	Va	lue Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Jan/2025 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLYCOS	SYLATED HA	AEMOGLOBIN (HBA1)	C)
WHOLE BLOOD	EMOGLOBIN (HbA1c):	5.2	%	4.0 - 6.4
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	102.54	mg/dL	60.00 - 140.00
	AS PER AMERICAN D	IABETES ASSOCI	ATION (ADA):	
	REFERENCE GROUP	G	LYCOSYLATED HEMOGLOGIB	B (HBAIC) in %
	abetic Adults >= 18 years	<5.7		
	t Risk (Prediabetes)	- /-	<u>5.7 - 6.4</u> >= 6.5	
D	iagnosing Diabetes	+	>= 0.0 Age > 19 Years	
		Goals	of Therapy:	< 7.0
Therapeut	ic goals for glycemic control		is Suggested:	>8.0
			Age < 19 Years	
			of therapy:	<7.5

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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DR.YUGAM CHOPRA

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		opra Microbiology) ultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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ARCODE NO.	:01523812	COLL	ECTION DATE	: 13/Jan/2025 10:24AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 13/Jan/2025 11:17AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
systemic lupus erytho CONDITION WITH LOW A low ESR can be see (polycythaemia), sigr as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	be used to monitor disease activit ematosus N ESR n with conditions that inhibit the n ificantly high white blood cell cou e cell anaemia) also lower the ESI e protein (C-RP) are both markers is not change as rapidly as does CF by as many other factors as is ESR ed, it is typically a result of two ty ye a higher ESR, and menstruation	normal sedimentation int (leucocytosis), and R. of inflammation. RP, either at the start c , making it a better ma pes of proteins, globul and pregnancy can ca	of red blood cells, su some protein abno f inflammation or as rker of inflammation ins or fibrinogen. use temporary eleva	rmalities. Šome changes in red cell shape (su s it resolves. 1.





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MBBS, MD (PATHOLOGY)







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BARCODE NO.	: 01523812		COLLECTION DATE	: 13/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Jan/2025 12:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
	CLINI		TRY/BIOCHEMIST E FASTING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POD)	96.45	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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	MD (Pathology	Dr. Vinay Chopra Dr. Yugan MD (Pathology & Microbiology) MD Chairman & Consultant Pathologist CEO & Consultant		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. VANDANA : 44 YRS/FEMALE : SURJESH : : 01523812 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	D, AMBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1722566 : 012501130021 : 13/Jan/2025 10:19 AM : 13/Jan/2025 10:24AM : 13/Jan/2025 11:33AM
Test Name		Value	Unit	Biological Reference interval
		I IDIN PR	OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		192.39	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SE by GLYCEROL PHOSP	ERUM hate oxidase (enzymatic)	117	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBITI		73.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPEC		95.32	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPEC		118.72	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERO		23.4	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPEC	UM	501.78	mg/dL	350.00 - 700.00
by CALCULATED, SFER	L RATIO: SERUM	2.61	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		1.29	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	1.59 ^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.

 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
1 est Manie		Value	Unit	biological weierence inter var
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SP		0.79	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT by DIAZO MODIFIED, SI	(CONJUGATED): SERUM	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIREC	CT (UNCONJUGATED): SERUM	0.6	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	18.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	11.2	U/L	0.00 - 49.00
AST/ALT RATIO: SE by CALCULATED, SPEC		1.66	RATIO	0.00 - 46.00
ALKALINE PHOSPH by PARA NITROPHENY PROPANOL	ATASE: SERUM 'L PHOSPHATASE BY AMINO METHYL	46.52	U/L	40.0 - 130.0
GAMMA GLUTAMYI by szasz, spectropi	. TRANSFERASE (GGT): SERUM	8.23	U/L	0.00 - 55.0
TOTAL PROTEINS: S	SERUM	6.22	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.1	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.12 ^L	gm/dL	2.30 - 3.50
	-		D 1 77 0	

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)

1.93





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RATIO

1.00 - 2.00

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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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Test Name		Value	Unit	Biological Reference interv
	KIDNE	Y FUNCTION 1	FEST (COMPLETE)	
UREA: SERUM		23.89	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SERU	IATE DEHYDROGENASE (GLDH)	0.88	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		0.88	iiig/ uL	0.40 - 1.20
BLOOD UREA NITE by CALCULATED, SPE	ROGEN (BUN): SERUM	11.16	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	12.68	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININ		27.15	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		3.82	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.22	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		3.27	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.27	ilig/ uL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV		139.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		3.87	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		104.00	1/1	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV		104.63	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	83.1		
(eGFR): SERUM by CALCULATED				
INTERPRETATION:				

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.

3. GI haemorrhage.



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		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		fugam Ch MD (Path nsultant Path	nology)		
IAME	: Mrs. VAND	ANA						
GE/ GENDER	: 44 YRS/FEM	IALE]	PATIENT ID	:	1722566		
COLLECTED BY	: SURJESH		,	REG. NO./LAB NO.		01250113002	21	
REFERRED BY				REGISTRATION D		13/Jan/2025 10		
BARCODE NO.	:01523812			COLLECTION DAT		13/Jan/2025 10		
CLIENT CODE.	: KOS DIAGN			REPORTING DATI	E : :	13/Jan/2025 11	:33AM	
CLIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, AMBA	LA CANTT					
Test Name			Value	Un	it	Biologi	cal Reference ir	nterval
burns, surgery, cache: 7. Urine reabsorption 8. Reduced muscle ma 9. Certain drugs (e.g. INCREASED RATIO (>2 4	e or productio ia, high fever) (e.g. ureter col ass (subnormal etracycline, gl D:1) WITH ELEV (BUN rises disp uperimposed D:1) WITH DECI osis.	ostomy) creatinine production ucocorticoids) ATED CREATININE LEVE proportionately more t on renal disease.) LS:				ome, high proteir	n diet,
5. Excess protein intal burns, surgery, cache: 7. Urine reabsorption 8. Reduced muscle ma 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of dec 5. Repeated dialysis (i 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide therap 2. Rhabdomyolysis (i 6. Muscular patients of 8. Muscular patients of 1. Diabetic ketoacidos 5. Hould produce an incomparent of the second 1. Diabetic ketoacidos	te or production ia, high fever) (e.g. ureter collass (subnormali tetracycline, gl b:1) WITH ELEV (BUN rises disputerimposed b:1) WITH DECI osis. d starvation. reased urea sy urea rather that nonemias (ureal tetrased urea sy urea rather that nonemias (ureal b:1) WITH INCR oy (accelerates leases muscle who develop real is (acetoaceta reased BUN/ca py (interferes LAR FILTERATION NO NO NO NO NO NO NO NO NO	ostomy) creatinine production ucocorticoids) ATED CREATININE LEVE proportionately more t on renal disease. REASED BUN : an creatinine diffuses o a is virtually absent in antidiuretic harmone) REASED CREATININE: conversion of creatine creatinine). enal failure. te causes false increase reatinine ratio). with creatinine measu) LS: han creatinin ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ne) (e.g. obstructive ellular fluid). ar secretion of urea e).	e uropathy). hodologies, ASSOCI , No Presen		mal ratio when d	





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	Dr. Vinay Chopra MD (Pathology & Microbiole Chairman & Consultant Path	3, ,	(Pathology)
NAME	: Mrs. VANDANA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1722566
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501130021
REFERRED BY	:	REGISTRATION DATE	: 13/Jan/2025 10:19 AM
BARCODE NO.	: 01523812	COLLECTION DATE	: 13/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 13/Jan/2025 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Vah	le 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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NAME	: Mrs. VANDANA			
AGE/ GENDER	: 44 YRS/FEMALE	P	ATIENT ID	: 1722566
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON P	ROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	91.4	µg/dL	37.0 - 145.0
	ON BINDING CAPACITY (UIBC)	184.2	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPEC	TROPHOTOMETERY			
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	275.6	µg/dL	230 - 430

33.16	%
195.68 ^L	mg/dL
	U U

VARIABLES ANEMIA OF CHRONIC DISEASE		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC): It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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15.0 - 50.0

200.0 - 350.0





	Dr. Vinay C MD (Pathology Chairman & Co		۲	am Chopra ID (Pathology) ant Pathologist
NAME	: Mrs. VANDANA			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1722566
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REFERRED BY	:		REGISTRATION DATE	: 13/Jan/2025 10:19 AM
BARCODE NO.	: 01523812		COLLECTION DATE	: 13/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Jan/2025 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT'	г	
Test Name		Value	Unit	Biological Reference interval
	T		CRINOLOGY CTION TEST: TOTA	L
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO/	1.035 ASSAY)	ng/ml	0.35 - 1.93
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE IMMUNO	7.44 ASSAY)	μgm/o	IL 4.87 - 12.60
	ATING HORMONE (TSH): SER		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	SH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lov	w Normal	Normal or Low Normal	High

LIMITATIONS:-

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.

TRIIODOTH	YRONINE (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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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. VANDANA		
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT ID	: 1722566
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	

Test Name			Value	Unit	t	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	
	RECO	MMENDATIONS OF TSH LI	EVELS 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		y Chopra ogy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. VANDANA : 44 YRS/FEMALE : SURJESH : : 01523812 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON RC	F F C F	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1722566 : 012501130021 : 13/Jan/2025 10:19 AM : 13/Jan/2025 10:24AM : 13/Jan/2025 12:03PM
Test Name		Value	Unit	Biological Reference interval
	V DROXY VITAMIN D3): SEI ESCENCE IMMUNOASSAY)	TTAMIN D/25 HY	MINS DROXY VITAMIN D ng/mL	B DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:				
		< 20		g/mL
	FICIENT:	<u>21 - 29</u> 30 - 100		j/mL j/mL
I. Vitamin D compour conversion of 7- dihy 2.25-OHVitamin D ro issue and tightly bou 3. Vitamin D plays a p shosphate reabsorpt I. Severe deficiency m DECREASED: I. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advan	drocholecalciferol to Vitam epresents the main body re- und by a transport protein v rimary role in the maintena- ion, skeletal calcium deposi- nay lead to failure to minera posure. malabsorption (celiac disea Vitamin D 25- hydroxylase a ced Liver disease econdary Hyperparathroidis	in D3 in the skin upon L sevoir and transport for vhile in circulation. ance of calcium homeos tion, calcium mobilizati alize newly formed oste ase) activity sm (Mild to Moderate d	ants, Vitamin D2), or cho Iltraviolet exposure. m of Vitamin D and trans tatis. It promotes calciun on, mainly regulated by p oid in bone, resulting in r eficiency)	g/mL lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and parathyroid harmone (PTH). lickets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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JAME	: Mrs. VANDANA			
AGE/ GENDER	: 44 YRS/FEMALE	PATI	ENT ID	: 1722566
COLLECTED BY	: SURJESH	REG. 1	NO./LAB NO.	: 012501130021
REFERRED BY		REGIS	TRATION DATE	: 13/Jan/2025 10:19 AM
BARCODE NO.	: 01523812	COLLECTION DATE		: 13/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 13/Jan/2025 12:09PM
			KIING DATE	: 13/Jan/2025 12:09PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
	ALAMIN: SERUM	Value VITAMIN B12/CC 144.42 ^L SSAY)	Unit DBALAMIN pg/mL	Biological Reference interv 190.0 - 830
/ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOA	VITAMIN B12/CO 144.42 ^L SSAY)	BALAMIN pg/mL	190.0 - 830
VITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/CO 144.42 ^L SSAY)	BALAMIN	190.0 - 830
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/CO 144.42 ^L SSAY) 1.Pregnancy	DBALAMIN pg/mL DECREASED VITAMIN	190.0 - 830
VITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen	VITAMIN B12/CO 144.42 ^L SSAY) 1.Pregnancy	DBALAMIN pg/mL DECREASED VITAMIN	190.0 - 830
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO 144.42 ^L SSAY) 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants ion e Harmones	190.0 - 830
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO 144.42 ^L SSAY) 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest	DBALAMIN pg/mL DECREASED VITAMIN in, Anti-convulsants ion e Harmones is	190.0 - 830

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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NAME	: Mrs. VANDANA				
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT 1	ID	: 1722566	
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BARCODE NO.	: 01523812	COLLECTI		: 13/Jan/2025 10:24AM	
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTIN	NG DATE	: 13/Jan/2025 11:52AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO	LOGY		
	URINE RO	OUTINE & MICROSCOP		ATION	
PHYSICAL EXAMIN	ATION				
QUANTITY RECIEV		10	ml		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
FRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR	
SPECIFIC GRAVITY		1.02		1.002 - 1.030	
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY				
REACTION		ACIDIC			
-	TANCE SPECTROPHOTOMETRY				
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Trace		NEGATIVE (-ve)	
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
oH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		N			
		Negative		NEGATIVE (-ve)	
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)	
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1+		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLEC MICROSCOPIC EXA	TANCE SPECTROPHOTOMETRY				
RED BLOOD CELLS		4-6	/HPF	0 - 3	



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

677

2.74







Dr. Vinay Chopra



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

NAME	: Mrs. VANDANA						
AGE/ GENDER	: 44 YRS/FEMALE	PATIENT	ID	: 1722566 : 012501130021 : 13/Jan/2025 10:19 AM : 13/Jan/2025 10:24AM			
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BARCODE NO.	:01523812	COLLECTI	ON DATE				
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 13/Jan/2025 11:52AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT						
Test Name		Value	Unit	Biological Reference interval			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-3	/HPF /HPF	0 - 5 ABSENT			
		2-4					
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)			

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report



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