

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)
NAME	: Mrs. NEERU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1770763
COLLECTED BY	:		REG. NO./LAB NO.	: 012502260001
REFERRED BY	:		REGISTRATION DATE	: 26/Feb/2025 07:39 AM
BARCODE NO. CLIENT CODE.	: 01526145 : KOS DIAGNOSTIC LAB		COLLECTION DATE REPORTING DATE	: 26/Feb/2025 07:44AM : 26/Feb/2025 09:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	KEPOKIING DATE	. 20/ Feb/ 2023 09.3 TAM
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1.5	i
	COMP	LETE BL	DOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HI	3)	11.6 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (1		4.25	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV)		35.8 <sup>L</sup>	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA by calculated by a	AR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	84.1	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.2	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.4	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.6	%	11.00 - 16.00
RED CELL DISTRIB	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	46	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.79	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED		28.79	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI		10.00		1000 11000
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) BY SF CUBE & MICROSCOPY	4960	/cmm	4000 - 11000
	LOOD CELLS (nRBCS) PT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
	T TILIWAT OLOGT AWALTZER	NIL	%	< 10 %





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

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

 www.koshealthcare.com
 www.koshealthcare.com







Dr. Yugam Chopra

**CEO & Consultant Pathologist** 

MD (Pathology)

NAME : Mrs. NEERU ANAND **AGE/ GENDER** : 62 YRS/FEMALE **PATIENT ID** :1770763 **COLLECTED BY** :012502260001 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 26/Feb/2025 07:39 AM **BARCODE NO.** :01526145 **COLLECTION DATE** : 26/Feb/2025 07:44AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 26/Feb/2025 09:51AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 54 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 36 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 2678 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1786 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 198 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 298 /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 187000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 16<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 125000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 66.6<sup>H</sup> 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.1%

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	<b>Biological Reference interval</b>
Test Name	GLY			Biological Reference interval
GLYCOSYLATED HAE		Value COSYLATED HAEMOG 5.6		Biological Reference interval
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	COSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	<b>COSYLATED HAEMOG</b> 5.6 114.02	LOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORN ESTIMATED AVERAG by HPLC (HIGH PERFORN INTERPRETATION:	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA):	s <b>LOBIN (HBA1C)</b> % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA):	BLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED H	sLOBIN (HBA1C) % mg/dL EMOGLOGIB (HBAIC) ir <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED H	LOBIN (HBA1C) % mg/dL EMOGLOGIB (HBAIC) ir <5.7 5.7 – 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED H	<b>LOBIN (HBA1C)</b> % mg/dL <u>EMOGLOGIB (HBAIC) ir</u> <5.7 5.7 – 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED HI	LOBIN (HBA1C) % mg/dL EMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 > 19 Years	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED HI GLYCOSYLATED HI GOOIS of Therapy:	LOBIN (HBA1C) % mg/dL EMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 > 19 Years < 7.0	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 5.6 114.02 ETES ASSOCIATION (ADA): GLYCOSYLATED HI GLYCOSYLATED HI GLYCOSYLATED HI GOGals of Therapy: Actions Suggested:	LOBIN (HBA1C) % mg/dL EMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 > 19 Years	4.0 - 6.4 60.00 - 140.00

# 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 appropiate.

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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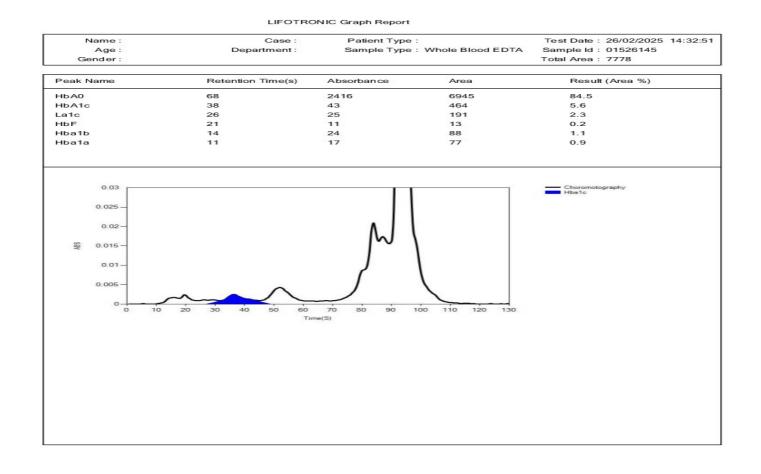
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4.High





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Test Name		Value Unit	Biological Reference interval







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	ERYTHRO	CYTE SEDIMENT	ATION RATE (ES	SR)
ERYTHROCYTE SE	DIMENTATION RATE (ESR)	30 <sup>H</sup>	mm/1st hr	
NTERPRETATION:	GATION BY CAPILLARY PHOTOMETRY			n associated with infection, cancer and auto-
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigi as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doc 3. CRP is not affected 4. If the ESR is eleval 5. Women tend to ha 6. Drugs such as dex	ematosus <b>W ESR</b> en with conditions that inhibit the non- ificantly high white blood cell coun- le cell anaemia) also lower the ESR. we protein (C-RP) are both markers of es not change as rapidly as does CRP <b>I by as many other factors as is ESR, r</b> red, it is typically a result of two type ave a higher ESR, and menstruation a	ormal sedimentation of t (leucocytosis), and inflammation. , either at the start of <b>naking it a better mar</b> es of proteins, globulit and pregnancy can cau	of red blood cells, such some protein abnorm inflammation or as it <b>ker of inflammation.</b> ns or fibrinogen.	nalities. Šome changes in red cell shape (such resolves.





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Test Name			Value	Unit	<b>Biological Reference interval</b>
		CLINIC	CAL CHEMIS	TRY/BIOCHEMIST	'RY
			GLUCOSE	FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA Se - peroxidase (go	DD-POD)	95.63	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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LIENT ADDRESS : 6349/1, NICHOLS	SON ROAD, AMBALA CANTT		
'est Name	Value	Unit	Biological Reference interval
	I IPID PR	OFILE : BASIC	
HOLESTEROL TOTAL: SERUM	188.82	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	100.02	iiig/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: SERUM	121.02	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYN	IATIC)		BORDERLINE HIGH: 150.0 - 199.0
			HIGH: 200.0 - 499.0
			VERY HIGH: $> OR = 500.0$
DL CHOLESTEROL (DIRECT): SERUN by SELECTIVE INHIBITION	52.39	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
.,			60.0
			HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	112.23	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
.,			BORDERLINE HIGH: 130.0 -
			159.0 HICH: 100.0 180.0
			HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
ON HDL CHOLESTEROL: SERUM	136.43 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
LDL CHOLESTEROL: SERUM	24.2	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTROPHOTOMETRY			
OTAL LIPIDS: SERUM by Calculated, spectrophotometry	498.66	mg/dL	350.00 - 700.00
HOLESTEROL/HDL RATIO: SERUM	3.6	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
			MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.14	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM ECTROPHOTOMETRY	2.31 <sup>L</sup>	RATIO	3.00 - 5.00

#### **INTERPRETATION:**

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

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

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

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





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







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam ( MD (P. CEO & Consultant Pa	athology)
NAME	: Mrs. NEERU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	PA	TIENT ID	: 1770763
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012502260001
<b>REFERRED BY</b>	:	RE	GISTRATION DATE	: 26/Feb/2025 07:39 AM
BARCODE NO.	:01526145	CO	LLECTION DATE	: 26/Feb/2025 07:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 26/Feb/2025 12:46PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVE	R FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.75	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.6	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	19.69	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	16.64	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.18	RATIO	0.00 - 46.00
ALKALINE PHOSPI		92.3	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUN Phtometry	1 17.18	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.65	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.27	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.38	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.79	RATIO	1.00 - 2.00

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:**

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





**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



INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. NEERU ANAND		
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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



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

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		intant Pathologist	CEO & Consultant P	athologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNI	EY FUNCTION T	EST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	35.6	mg/dL	10.00 - 50.00
CREATININE: SERUM		0.89	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		16.64	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	10.04	iiig/ uL	1.0 - 23.0
	ROGEN (BUN)/CREATININE	18.7	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	40	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY 1	5.35	mg/dL	2.50 - 6.80
by URICASE - OXIDAS				
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.05	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH		3.19	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLYTES</u> SODIUM: SERUM		140.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	140.0	IIIIIOI/ L	135.0 - 150.0
POTASSIUM: SERU		4.21	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUN		105.45	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)			
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	73.3		
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.

3. GI haemorrhage.



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

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

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	MD (Pathology a	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		t CEO & Consultant Pathologist	
IAME	: Mrs. NEERU ANAND				
AGE/ GENDER	: 62 YRS/FEMALE	РА	TIENT ID	: 1770763	
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT			
Fest Name		Value	Unit	Biolog	gical Reference interval
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININ</b> (BUN rises disproportionately i superimposed on renal disease <b>0:1) WITH DECPEASED BLIN</b> •	E <b>LEVELS:</b> nore than creatinine)	(e.g. obstructive uro	opathy).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome c 3. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera	(e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs if inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in LAR FILTERATION RATE: DESCRIPTION Normal kidney fund Kidney damage w	E LEVELS: nore than creatinine) uses out of extracellu ent in blood). none) due to tubular s VE: eatine to creatinine). crease in creatinine of neasurement). GFR (mL/r tion	lar fluid). secretion of urea. with certain method	ologies,resulting in no <b>ASSOCIATED FINDINGS</b> <u>No proteinuria</u> Presence of Protein ,	S
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<1     Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Inherited hyperam     SIADH (syndrome c     Pregnancy.     DECREASED RATIO (<1     Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     CEphalosporin ther     STIMATED GLOMERL     G1     G2	(e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs if inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in ILAR FILTERATION RATE: Normal kidney fund	E LEVELS: nore than creatinine) uses out of extracellu- ent in blood). none) due to tubular s NE: eatine to creatinine). crease in creatinine w neasurement). GFR (mL/r tion	lar fluid). secretion of urea. with certain method	ologies,resulting in no ASSOCIATED FINDINGS No proteinuria	S
Y. Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Postrenal azotemia     DECREASED RATIO (<1     Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Diabetic disease     Rhabdomyolysis (r     Rhabdomyolysis (r     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     Cephalosporin ther     STIMATED GLOMERL     CKD STAGE     G1	(e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs if inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in LAR FILTERATION RATE: DESCRIPTION Normal kidney fund Kidney damage w normal or high G	E LEVELS: nore than creatinine) uses out of extracellu ent in blood). none) due to tubular s dE: eatine to creatinine). crease in creatinine of heasurement). GFR (mL/r th iR FR 60	lar fluid). secretion of urea. with certain method nin/1.73m2 )	ologies,resulting in no <b>ASSOCIATED FINDINGS</b> <u>No proteinuria</u> Presence of Protein ,	S
Y. Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     DECREASED RATIO (<1     Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     SIADH (syndrome c     Rhabdomyolysis (r     Rhabdomyolysis (r     Rhabdomyolysis (r     Rhabdomyolysis (r     Rhabdomyolysis (r     SIADH (syndrome c     Repeated component of the real     Rhabdomyolysis (r     SIADH (strange component of the real     Rhabdomyolysis (r     SIADH (syndrome component of the real     Rhabdomyolysis (r     SIADH (strange component of the real     Rhabdomyolysis (r     SIADH (strange component of the real     Rhabdomyolysis (r     SIMATED GLOMERL     CKD STAGE     G1     G2	(e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs if inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in LAR FILTERATION RATE: DESCRIPTION Normal kidney fund Kidney damage w normal or high G Mild decrease in 0	E LEVELS: nore than creatinine) uses out of extracellu ent in blood). none) due to tubular s dE: eatine to creatinine). crease in creatinine s neasurement). GFR (mL/r th is FR 60 n GFR 30	lar fluid). secretion of urea. with certain method nin/1.73m2 ) •90 •90 •90	ologies,resulting in no <b>ASSOCIATED FINDINGS</b> <u>No proteinuria</u> Presence of Protein ,	S





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

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

 www.koshealthcare.com
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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mrs. NEERU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1770763
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 012502260001
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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

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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Test Name			Value	Unit	<b>Biological Reference interval</b>	
			IRON	PROFILE		
IRON: SERUM			47.4	µg/dL	37.0 - 145.0	
by FERROZINE, SPEC UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CA	APACITY (UIBC)	285.2	µg/dL	150.0 - 336.0	
by FERROZINE, SPEC TOTAL IRON BIND :SERUM by SPECTROPHOTOM	ING CAPACITY		332.6	µg/dL	230 - 430	
%TRANSFERRIN S by CALCULATED, SPE	ATURATION: S		14.25 <sup>L</sup>	%	15.0 - 50.0	
TRANSFERRIN: SE by SPECTROPHOTOM	RUM	. ,	236.15	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAE		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA		
SERUM I	RON:	Normal to Re	educed	Reduced	Normal	

TOTAL IRON BINDING CAPACITY: Normal Decreased Increased % 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):

1.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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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 26/Feb/2025 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	г	
Test Name		Value	Unit	Biological Reference interva
	TH	YROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS	0.916	ng/mI	0.35 - 1.93
THYROXINE (T4): S		6.61	μgm/c	L 4.87 - 12.60
	TING HORMONE (TSH): SERU		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT				
INTERPRETATION:				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TSH	I stimulates the p	roduction and secretion of the	9 pm. The variation is of the order of 50%.Hence time of metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis	m: Reduced	j	Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low N	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

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)	THYROXINE (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





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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com
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Reduced (at times undetectable)

Reduced

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microb Chairman & Consultant F		(Pathology)
NAME	: Mrs. NEERU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1770763
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012502260001
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 26/Feb/2025 07:39 AM
BARCODE NO.	: 01526145	COLLECTION DATE	: 26/Feb/2025 07:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 26/Feb/2025 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Tost Namo		Jahra Unit	Piological Patananas interval

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 L	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.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mrs. NEERU A	NAND			
AGE/ GENDER	: 62 YRS/FEMAL	E	PATIENT ID	: 1770763	
COLLECTED BY	:		REG. NO./LAB NO.	: 012502260001	
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ARCODE NO.	:01526145		COLLECTION DATE	: 26/Feb/2025 07:44AM	
LIENT CODE.	: KOS DIAGNOST	TIC LAB	<b>REPORTING DATE</b>	: 26/Feb/2025 11:40AM	
LIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, AMBALA CANTT			
Fest Name		Value	Unit	<b>Biological Reference interval</b>	
/ITAMIN D (25-HY)	DROXY VITAMIN		<b>YDROXY VITAMIN D</b> ng/mL	<b>3</b> DEFICIENCY: < 20.0	
by CLIA (CHEMILUMINE			iig/ iiiL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
<u>NTERPRETATION:</u> DFFI	CIENT:	< 20	n	g/mL	
	ICIENT:	21 - 29		g/mL	
	D RANGE: CATION:	<u> </u>		g/mLg/mL	
conversion of 7- dihy 2.25-OHVitamin D re tissue and tightly bou 3. Vitamin D plays a p obosphate reabsorpt 4.Severe deficiency m <b>DECREASED:</b> 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondary to advan 5.Osteoporosis and S 6.Enzyme Inducing dr <b>INCREASED:</b> 1. Hypervitaminosis E severe hypercalcemia	drocholecalciferol epresents the main rimary role in the ion, skeletal calciun hay lead to failure posure. malabsorption (ce Vitamin D 25- hvd ced Liver disease econdary Hyperpa ugs: anti-epileptic 0 is Rare, and is see and hyperphopha	to Vitamin D3 in the skin upon h body resevoir and transport for protein while in circulation. maintenance of calcium home m deposition, calcium mobilizato to mineralize newly formed os eliac disease) roxylase activity rathroidism (Mild to Moderate drugs like phenytoin, phenoba en only after prolonged exposu itemia.	Ultraviolet exposure. orm of Vitamin D and trans ostatis. It promotes calciur ation, mainly regulated by r teoid in bone, resulting in r e deficiency) urbital and carbamazepine, re to extremely high doses	Iecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in at of Vitamin D levels in order to prevent	
	individuals as comp n D absorption.	are to whites, is at higher risk o	f developing Vitamin D defic	iency due to excess of melanin pigment which	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. NEERU ANAND				
AGE/ GENDER	: 62 YRS/FEMALE	P	ATIENT ID	: 1770763	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012502260001	
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BARCODE NO.	:01526145	C	<b>DLLECTION DATE</b>	: 26/Feb/2025 07:44AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 26/Feb/2025 11:44AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
Test Name		Value	Unit	<b>Biological Reference interval</b>	
		VITAMIN B12	/COBALAMIN		
VITAMIN B12/COB	ALAMIN: SERUM	211	pg/mL	190.0 - 890.0	
by CMIA (CHEMILUMIN	ESCENT MICROPARTICLE IMMUNOA		P 8'		
INTERPRETATION:-					
1.Ingestion of Vitam	ED VITAMIN B12	1 Prognand	DECREASED VITAMIN B12 1.Pregnancy		
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitam		3.Ethanol I			
4.Hepatocellular in			eptive Harmones		
5.Myeloproliferativ	e disorder	5.Haemod			
6.Uremia	amin) is necessary for hematopo	6. Multiple			
3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie	ncy may be due to lack of IF sect intestinal diseases). ency frequently causes macrocyt coordination, and affective beh s without macrocytic anemia.	ally, reabsorbing vit retion by gastric mu ic anemia, glossitis, avioral changes. The	amin B12 from the ileun cosa (eg, gastrectomy, g peripheral neuropathy, ese manifestations may on n vitamin B12 deficiency	and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. NEERU ANAND			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 26/Feb/2025 10:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		CLINICAL PA	THOLOGY	
	URINE RO	UTINE & MICRO	SCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVE	ED TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR	ANCE SPECTROPHOTOMETRY	PALE YELLO	N	PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
SPECIFIC GRAVITY		1.01		1.002 - 1.030
CHEMICAL EXAMIN	ANCE SPECTROPHOTOMETRY			
REACTION	ANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	ANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	ANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
KETONE BODIES	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	NEGATIVE (-•	ve)	NEGATIVE (-ve)
RED BLOOD CELLS (		NEGATIVE (	ve) /HPF	0 - 3



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NANCE



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

NEEDILANAND

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

NAME	: Mrs. NEERU ANAND				
AGE/ GENDER	: 62 YRS/FEMALE :		PATIENT ID	: 1770763 <b>: 012502260001</b>	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	~ 1	,	0.0
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\*\* End Of Report \*\*\*





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