



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 09:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1.2	2
	COMP	PLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HI	3)	12	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (1	RBC) COUNT	4.38	Millions/	/cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	38	%	37.0 - 50.0
MEAN CORPUSCUL		86.7	fL	80.0 - 100.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	27.4	pg	27.0 - 34.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBU	JTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.6	%	11.00 - 16.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.3	fL	35.0 - 56.0
MENTZERS INDEX		19.79	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IND	EX	28.9	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
_,				IRON DEFICIENCY ANEMIA: >
WILLITE DI AAN CE I				65.0
WHITE BLOOD CEI TOTAL LEUCOCYTE		8700	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ cinin	
	LOOD CELLS (nRBCS) PT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
by AUTOMATED 6 PAR		NIL	%	< 10 %
NUCLEATED RED B		INIL	70	< 10 /0
NUCLEATED RED B	LOOD CELLS (IIRDCS) % UTOMATED HEMATOLOGY ANALYZER	NIL		





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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. ANU ANAND **AGE/ GENDER** : 62 YRS/FEMALE **PATIENT ID** :1765991 **COLLECTED BY** :012502220017 : SURJESH REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Feb/2025 08:31 AM : **BARCODE NO.** :01525937 **COLLECTION DATE** : 22/Feb/2025 09:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Feb/2025 09:39AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 55 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 33 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 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 4785 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2871 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 522^H /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 522 /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 342000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.41^H PLATELETCRIT (PCT) % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 136000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 39.8 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.9% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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



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, HaryanaKOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. ANU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1765991
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502220017
REFERRED BY	:	REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Feb/2025 09:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
Test Name	Value	Unit	Biological Reference interval





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

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







	Dr. Vinay Cho MD (Pathology & 1 Chairman & Const	Microbiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	PATI	ENT ID	: 1765991
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012502220017
REFERRED BY	:	REGI	STRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLI	ECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 22/Feb/2025 10:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
immune disease ['] , but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO' A low ESR can be see	does not tell the health practition ected by other conditions besides in be used to monitor disease activit ematosus W ESR In with conditions that inhibit the	er exactly where the inflammation. For this y and response to the normal sedimentatior	nflammation is in th reason, the ESR is ty rapy in both of the a of red blood cells, s	tion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count prmalities. Some changes in red cell shape (sucl
as síckle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dexl	le cell anaemia) also lower the ESI e protein (C-RP) are both markers es not change as rapidly as does CF I by as many other factors as is ESR ed, it is typically a result of two ty we a higher ESR, and menstruation	R. of inflammation. RP, either at the start , making it a better m a pes of proteins, globu and pregnancy can ca	of inflammation or a arker of inflammation lins or fibrinogen. ause temporary eleva	s it resolves. n .



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

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



Page 4 of 21





		hopra & Microbiology) nsultant Pathologis		(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTI	,	
Test Name		Value	Unit	Biological Reference interval
	CLINI		TRY/BIOCHEMIST FASTING (F)	'nRY
GLUCOSE FASTING	F (F): PLASMA E - PEROXIDASE (GOD-POD)	128.07 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

INTERPRETATION IN ACCORDANCE 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.





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

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







		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY	: Mrs. ANU ANAND : 62 YRS/FEMALE : SURJESH		ATIENT ID EG. NO./LAB NO.	: 1765991 : 012502220017
REFERRED BY BARCODE NO.	: 01525937	R	EGISTRATION DATE	: 22/Feb/2025 08:31 AM : 22/Feb/2025 09:09AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA		EPORTING DATE	: 22/Feb/2025 11:06AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		137.92	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	126.14	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	46.24	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		66.45	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, SPE		91.68	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		25.23	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		401.98	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		2.98	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)



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, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cl MD (Pathology Chairman & Co			(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 11:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.44	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	2.73 ^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





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







	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
Test Name		value	UIII	biological kelerence interval
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.43	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.1	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		16.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM		17.2	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.97	RATIO	0.00 - 46.00
ALKALINE PHOSPI		90.65	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	20.15	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	5.94 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.96	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	1.98 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		2 ^H	RATIO	1.00 - 2.00

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:

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)
	> 1.5 (Sirginity Increased)





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

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







	Dr. Vinay Chopra MD (Pathology & Microbic Chairman & Consultant Pa	G , /	(Pathology)
NAME	: Mrs. ANU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1765991
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502220017
REFERRED BY	:	REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Feb/2025 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	

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







	Dr. Vinay Choj MD (Pathology & M Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	21.68	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	0.87	mg/dL	0.40 - 1.20
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	10.13	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	11.64	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	24.92	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		5.53	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.72	mg/dL	8.50 - 10.60
	ERUM DATE, SPECTROPHOTOMETRY	4.24	mg/dL	2.30 - 4.70
ELECTROLYTES		1.10.5	1.0	
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	143.5	mmol/L	135.0 - 150.0
POTASSIUM: SERUE by ISE (ION SELECTIV	M	4.64	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	107.63	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	75.3		

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)

 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
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult	robiology)			athology)			
IAME	: Mrs. ANU A	NAND							
AGE/ GENDER	: 62 YRS/FEM	ALE		PATIENT ID		: 1765991			
COLLECTED BY	: SURJESH			REG. NO./LAB NO	1	: 0125022200	017		
REFERRED BY									
				REGISTRATION D		: 22/Feb/2025			
BARCODE NO.	:01525937			COLLECTION DAT		:22/Feb/2025			
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DAT	E	:22/Feb/2025	11:33AM		
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMI	BALA CANTT						
Test Name			Value	Un	uit	Biolo	gical Refe	rence inte	rval
5. Impaired renal fun 6. Excess protein intal burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet an	te or productio tia, high fever) (e.g. ureter col ass (subnormal tetracycline, gl D:1) WITH ELEV (BUN rises disp tuperimposed D:1) WITH DECI osis.	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease.	n) /ELS:				ıdrome, higi	n protein di	iet,
5. Excess protein intal burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Prerenal azotemia 3. Acute tubular necro 4. Acute tubular necro 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 8. Muscular patients 5. Muscular patients 6. Jiabetic ketoacido: 6. Diabetic ketoacido: 7. Cephalosporin thera	te or production ia, high fever) (e.g. ureter coll ass (subnormal etracycline, gl b:1) WITH ELEV (BUN rises disp superimposed b:1) WITH DECI osis. d starvation. Treased urea sy urea rather that nonemias (urea f inappropiate b:1) WITH INCR oy (accelerates leases muscle who develop re- is (acetoaceta reased BUN/cl apy (interferes LAR FILTERATIO No	ostomy) creatinine productio ucocorticoids) ATED CREATININE LEN proportionately more on renal disease. REASED BUN : The sis. n creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). mal failure. te causes false increat reatinine ratio). with creatinine meas	n) /ELS: than creatini out of extrac n blood).) due to tubul ne to creatinir se in creatini urement).	ine) (e.g. obstructive ellular fluid). lar secretion of urea ne).	e uropath a. thodologic	y).	ormal ratio		
Excess protein intal purns, surgery, cache. Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Severe liver disease Nuperopiate cause Nuscular patients Nuscular patients Nuscular patients Nuscular patients Cephalosporin ther <u>STIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u>	te or production ia, high fever) (e.g. ureter coll ass (subnormali tetracycline, gl b:1) WITH ELEV (BUN rises disp uperimposed b:1) WITH DECI osis. d starvation. reased urea sy urea rather that nonemias (ureal finappropiate b:1) WITH INCR oy (accelerates leases muscle who develop real is (acetoaceta reased BUN/ca areased BUN/ca py (interferes LAR FILTERATION NO K	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEN proportionately more on renal disease. REASED BUN : Thesis. n creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DESCRIPTION rmal kidney function idney damage with formal or high GFR	n) /ELS: than creatini out of extrac n blood).) due to tubul ne to creatinir se in creatini urement).	ine) (e.g. obstructive rellular fluid). lar secretion of urea ne). ne with certain met nL/min/1.73m2) >90 >90	e uropath a. thodologic ASSO N Pres	y). es,resulting in n CIATED FINDING	ormal ratio		
Excess protein intal purns, surgery, cache. Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Severe liver disease Neperoprint causes of der Diabetic ketoacido: hould produce an ind Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u> <u>G3a</u>	te or production ia, high fever) (e.g. ureter collass (subnormali tetracycline, gl b:1) WITH ELEV (BUN rises displayer (BUN rises displayer (BUN rises displayer b:1) WITH DECI osis. d starvation. Treased urea sy urea rather that nonemias (ureal treased urea sy urea rather that nonemias (ureal b:1) WITH INCR oy (accelerates leases muscle who develop real is (acetoaceta reased BUN/cr apy (interferes LAR FILTERATION NO K NO K NO K NO K NO K NO K NO	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEN proportionately more on renal disease. REASED BUN : Thesis. n creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DESCRIPTION rmal kidney function idney damage with formal or high GFR_ ild decrease in GFR	n) /ELS: than creatini out of extrac n blood).) due to tubul ne to creatinir se in creatini urement). GFR (n	ine) (e.g. obstructive rellular fluid). lar secretion of urea ne). ne with certain met nL/min/1.73m2) >90 >90 60 -89	e uropath a. thodologic ASSO N Pres	y). es,resulting in n <u>CIATED FINDING</u> o proteinuria ence of Protein	ormal ratio		
5. Excess protein intal burns, surgery, cache. 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 0. Prerenal azotemia 0. Prerenal azotemia 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. 0. Pregnancy. 0. Pregnancy. 0. Phenacimide thera 2. Rhabdomyolysis (ref 3. Muscular patients v NAPPROPIATE RATIO 1. Diabetic ketoacido: 1. Diabetic ketoacido: 1	te or production ia, high fever) (e.g. ureter collass (subnormali tetracycline, gl D:1) WITH ELEV (BUN rises disputerimposed D:1) WITH DECI osis. d starvation. reased urea sylumeria (ureal reased urea sylumeria (ureal reased urea sylumeria (ureal D:1) WITH INCR oy (accelerates leases muscle who develop real is (acetoaceta reased BUN/ca apy (interferes LAR FILTERATION NO K NO K NO MO MO	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEN proportionately more on renal disease. REASED BUN : Thesis. n creatinine diffuses a is virtually absent i antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DESCRIPTION rmal kidney function idney damage with formal or high GFR	n) /ELS: than creatini out of extrac n blood).) due to tubul ne to creatinir se in creatini urement). GFR (n	ine) (e.g. obstructive rellular fluid). lar secretion of urea ne). ne with certain met nL/min/1.73m2) >90 >90	e uropath a. thodologic ASSO N Pres	y). es,resulting in n <u>CIATED FINDING</u> o proteinuria ence of Protein	ormal ratio		





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

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









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. ANU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1765991
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502220017
REFERRED BY	:	REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Feb/2025 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ILA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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

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

MBBS, MD (PATHOLOGY)







	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam C MD (Pa CEO & Consultant Par	thology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	PATIE	NT ID	1765991
COLLECTED BY	: SURJESH	REG. N	O./LAB NO.	012502220017
REFERRED BY	:	REGIST	FRATION DATE	22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLE	CTION DATE	22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	22/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference inter
		ENDOCRINO		
	TH	IYROID FUNCTION	FEST: TOTAL	
TRIIODOTHYRONI		0.79 SSAY)	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMII THYROXINE (T4): 3	NESCENT MICROPARTICLE IMMUNOA	8.7	ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMII THYROXINE (T4): 3 by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII	NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERI NESCENT MICROPARTICLE IMMUNOA	ssay) 8.7 ssay) JM 3.524	C	
by CMIA (CHEMILUMII THYROXINE (T4): 3 by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT	NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERI NESCENT MICROPARTICLE IMMUNOA	ssay) 8.7 ssay) JM 3.524	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the trilodothyronine (T3).Fa	VESCENT MICROPARTICLE IMMUNOA SERUM VESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERI VESCENT MICROPARTICLE IMMUNOA TRASENSITIVE circadian variation, reaching peak level measured serum TSH concentrations. T ilure at any level of regulation of the h	SSAY) 8.7 SSAY) JM 3.524 SSAY) s between 2-4 a.m and at a min SH stimulates the production a	μgm/dL μIU/mL nimum between 6-10 pm. 7 and secretion of the metal	4.87 - 12.60 0.35 - 5.50 <i>he variation is of the order of 50%. Hence time</i> polically active hormones, thyroxine (T4)and
by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the trilodothyronine (T3).Fa	VESCENT MICROPARTICLE IMMUNOA SERUM VESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERI VESCENT MICROPARTICLE IMMUNOA TRASENSITIVE circadian variation, reaching peak level measured serum TSH concentrations. T	SSAY) 8.7 SSAY) JM 3.524 SSAY) s between 2-4 a.m and at a min SH stimulates the production a	μgm/dL μIU/mL nimum between 6-10 pm. 7 and secretion of the metal	4.87 - 12.60 0.35 - 5.50 <i>he variation is of the order of 50%. Hence time</i> polically active hormones, thyroxine (T4)and

CLINICAL CONDITION	13	14	ISH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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.

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 STIMU	LATING 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





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

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. ANU ANAND		
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID	: 1765991
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502220017
REFERRED BY	:	REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Feb/2025 10:55AM
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	
	RECON	IMENDATIONS 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





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







	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
IAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	:01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			OLOGY/SEROLOGY (HCV) ANTIBODY: TO	
HEPATITIS C ANTIB	ODY (HCV) TOTAL: SERUM	0.08 ASSAY)	S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00
	ODY (HCV) TOTAL	NON - RE Assay)	EACTIVE	
INTERPRETATION:-	SULT (INDEX)	1	REMARKS	
KE:	< 1.00		NON - REACTIVE/NOT - DE	TECTED
KE	< 1.00			

1. Indicator of past or present infection, but does not differentiate between Acute/ Chronic/Resolved Infection. 2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNA PCR recommended in all reactive results to differentiate between past and present infection.





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







	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	PATIE	NT ID	: 1765991
COLLECTED BY	: SURJESH	REG. N	O./LAB NO.	: 012502220017
REFERRED BY	:	REGIST	FRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLE	CTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 22/Feb/2025 10:55AM
	: 6349/1, NICHOLSON ROAD, A	AMPALA CANTT		
CLIENT ADDRESS	. 0349/1, NICHOLSON ROAD, I			
CLIEN I ADDRESS Test Name	. 0349/1, NICHOLSON KOAD, I	Value	Unit	Biological Reference interval
		Value		Biological Reference interval H (P-24 ANTIGEN DETECTION)
Test Name ANTI HUI HIV 1/2 AND P24 /	MAN IMMUNODEFICIENC	Value Y VIRUS (HIV) DUC 0.07		
Test Name ANTI HUI HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN	MAN IMMUNODEFICIENC ANTIGEN: SERUM iescent microparticle immunoas	Value Y VIRUS (HIV) DUO 0.07 SSAY) NON - REACTIVE	ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
Test Name ANTI HUI HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN INTERPRETATION:-	MAN IMMUNODEFICIENC ANTIGEN: SERUM IESCENT MICROPARTICLE IMMUNOAS ANTIGEN RESULT IESCENT MICROPARTICLE IMMUNOAS	Value Y VIRUS (HIV) DUC 0.07 SSAY) NON - REACTIVE	ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
Test Name ANTI HUI HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN INTERPRETATION:- RESUL	MAN IMMUNODEFICIENC ANTIGEN: SERUM iescent microparticle immunoas	Value Y VIRUS (HIV) DUG 0.07 SSAY) NON - REACTIVE	ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00

KOS Diagnostic Lab (A Unit of KOS Healthcare)

exposed to HIV 1/2 infection or the sample has been tested during the "window phase" i.e. before the development of detectable levels of antibodies. Hence a Non Reactive result does not exclude the possibility of exposure or infection with HIV 1/2. **RECOMMENDATIONS:** 1. Results to be clinically correlated

2. Rarely falsenegativity/positivity may occur.



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

MBBS, MD (PATHOLOGY)







	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	MD	n Chopra (Pathology) : Pathologist
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	PATIENT ID		: 1765991
COLLECTED BY	: SURJESH	REG. NO./LAB	10.	: 012502220017
REFERRED BY	:	REGISTRATION	DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937	COLLECTION D	ATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DA	TE	: 22/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	HEPATITIS	S B SURFACE ANTIGEN (H	BsAg) l	ULTRA
SERUM	HEPATITIS FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS	0.25	BsAg) (S/CO	U LTRA NEGATIVE: < 1.0 POSITIVE: > 1.0
SERUM by CMIA (CHEMILUMIN HEPATITIS B SURF RESULT	FACE ANTIGEN (HBsAg):	0.25 SAY) NON REACTIVE	U	NEGATIVE: < 1.0
SERUM by CMIA (CHEMILUMIN HEPATITIS B SURI RESULT by CMIA (CHEMILUMIN INTERPRETATION:	FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS FACE ANTIGEN (HBsAg) NESCENT MICROPARTICLE IMMUNOAS	0.25 SAY) NON REACTIVE SAY)	s/co	NEGATIVE: < 1.0
SERUM by CMIA (CHEMILUMII HEPATITIS B SURF RESULT by CMIA (CHEMILUMII INTERPRETATION: RESUL	FACE ANTIGEN (HBsAg): Nescent microparticle immunoas FACE ANTIGEN (HBsAg)	0.25 SAY) NON REACTIVE SAY) REMA	s/co	NEGATIVE: < 1.0

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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

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







REFERRED BY : REGISTRATION DATE : 22/Feb/2025 08:31 AM BARCODE NO. : 01525937 COLLECTION DATE : 22/Feb/2025 09:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Feb/2025 09:27AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 22/Feb/2025 09:27AM Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY NON REACTIVE NON REACTIVE NTERPRETATION: 1.Does not become positive until 7 - 10 days after appearance of chancre. 2.High titer (<1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	5 08:31 AM 5 09:09AM 5 09:27AM Ogical Reference interva N REACTIVE				
AGE / GENDER : 62 YRS/FEMALE PATIENT ID : 1765991 COLLECTED BY : SURJESH REG. NO./LAB NO. : 012502220017 REFERRED BY : REGISTRATION DATE : 22/Feb/2025 08:31 AM BARCODE NO. : 01525937 COLLECTION DATE : 22/Feb/2025 09:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Feb/2025 09:27AM CLIENT CODE. : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference i VDRL by IMMUNOCHROMATOGRAPHY INTERPRETATION: 1.Does not become positive until 7 - 10 days after appearance of chancre. 2.High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	5 08:31 AM 5 09:09AM 5 09:27AM Ogical Reference interva N REACTIVE		MD (Pathology & Microbiology)	MD	(Pathology)
COLLECTED BY: SURJESHREG. NO./LAB NO.: 012502220017REFERRED BY: <th>5 08:31 AM 5 09:09AM 5 09:27AM Ogical Reference interva N REACTIVE</th> <th>AME : Mrs.</th> <th>ANAND</th> <th></th> <th></th>	5 08:31 AM 5 09:09AM 5 09:27AM Ogical Reference interva N REACTIVE	AME : Mrs.	ANAND		
REFERRED BY : REGISTRATION DATE : 22/Feb/2025 08:31 AM BARCODE NO. : 01525937 COLLECTION DATE : 22/Feb/2025 09:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Feb/2025 09:27AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY <u>INTERPRETATION:</u> 1.Does not become positive until 7 - 10 days after appearance of chancre. 2.High titer (<1:6) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	5 08:31 AM 5 09:09AM 5 09:27AM Ogical Reference interva N REACTIVE	GE/ GENDER : 62 Y	EMALE	PATIENT ID	: 1765991
BARCODE NO. : 01525937 COLLECTION DATE : 22/Feb/2025 09:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Feb/2025 09:27AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY INTERPRETATION: 1.Does not become positive until 7 - 10 days after appearance of chancre. 2.High titer (<1:6) - active disease. 3.Low titer (<1:6) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	5 09:09AM 5 09:27AM Ogical Reference interva	OLLECTED BY : SURJ		REG. NO./LAB NO.	: 012502220017
CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Feb/2025 09:27AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 12/Feb/2025 09:27AM Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY NON REACTIVE NON REACTIVE INTERPRETATION: 1.0 coss not become positive until 7 - 10 days after appearance of chancre. 2.High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis.	5 09:27AM ogical Reference interva	EFERRED BY :		REGISTRATION DATE	: 22/Feb/2025 08:31 AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY NON REACTIVE NON REACTIVE I.Does not become positive until 7 - 10 days after appearance of chancre. 2. High titer (>1:16) - active disease. 3. Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4. Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	ogical Reference interva	ARCODE NO. : 0152	, ,	COLLECTION DATE	: 22/Feb/2025 09:09AM
Test Name Value Unit Biological Reference i VDRL VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY NON REACTIVE NON REACTIVE Interpretation: 1. Does not become positive until 7 - 10 days after appearance of chancre. 2. High titer (>1:16) - active disease. 3. Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis.	I REACTIVE	LIENT CODE. : KOS	NOSTIC LAB	REPORTING DATE	: 22/Feb/2025 09:27AM
VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY NON REACTIVE NON REACTIVE INTERPRETATION: 1. Does not become positive until 7 - 10 days after appearance of chancre. 2. High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis.	I REACTIVE	LIENT ADDRESS : 6349	IICHOLSON ROAD, AMBALA CANTT		
VDRL NON REACTIVE NON REACTIVE by IMMUNOCHROMATOGRAPHY INTERPRETATION: NON REACTIVE 1.Does not become positive until 7 - 10 days after appearance of chancre. 1. High titer (>1:16) - active disease. 1. High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis.		est Name	Value	Unit	Biological Reference interval
by IMMUNOCHROMATOGRAPHY INTERPRETATION: 1.Does not become positive until 7 - 10 days after appearance of chancre. 2.High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.			V	DRL	
INTERPRETATION: 1.Does not become positive until 7 - 10 days after appearance ofchancre. 2.High titer (>1:16) - active disease. 3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	sorptiontest).		NON REA	CTIVE	NON REACTIVE
 2. High titer (>1:16) - active disease. 3. Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4. Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years. 	sorptiontest).				
3.Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphillis. 4.Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	sorptiontest).			e.	
4. Treatment of primary syphillis causes progressive decline tonegative VDRL within 2 years.	sorptiontest).			te or late latent syphillis.	
	sorptiontest).	.Treatment of primary syphi	auses progressive decline tonegative '	VDRL within 2 years.	
5.Rising titer (4X) indicates relapse, reinfection, or treatment failure and need for retreatment. 6.May benonreactive in early primary, late latent, and late syphillis (approx. 25% ofcases).	nsorptiontest).	Rising fifer (4X) indicates re May benonreactive in early	reinfection, or treatment failure and vary late latent, and late synhillis (an	need for retreatment.	
7.Reactive and weakly reactive tests should always be confirmed with FTA-ABS (fluorescent treponemal antibody absorptiontest).					emal antibody absorptiontest).
SHORTTERM FALSE POSITIVE TEST RESULTS (<6 MONTHS DURATION) MAY OCCURIN:		HORTTERM FALSE POSITIVE 7	RESULTS (<6 MONTHS DURATION) MAY	OCCURIN:	
1.Acute viral illnesses (e.g., hepatitis, measles, infectious mononucleosis)		Acute viral illnesses (e.g., h	itis, measles, infectious mononucleos		
2.M. pneumoniae; Chlamydia; Malaria infection. 3.Some immunizations			laria infection.		
4.Pregnancy (rare)					

KOS Diagnostic Lab (A Unit of KOS Healthcare)

LONGTERM FALSE POSITIVE TEST RESULTS (>6 MONTHS DURATION) MAY OCCUR IN:

1. Serious underlying disease e.g., collagen vascular diseases, leprosy , malignancy.

2.Intravenous drug users.

3. Rheumatoid arthritis, thyroiditis, AIDS, Sjogren's syndrome.

4.<10 % of patients older thanage 70 years.

5.Patients taking some anti-hypertensive drugs.



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

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

Page 18 of 21





	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ANU ANAND			
AGE/ GENDER	: 62 YRS/FEMALE	РАТ	IENT ID	: 1765991
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012502220017
REFERRED BY		REG	ISTRATION DATE	: 22/Feb/2025 08:31 AM
BARCODE NO.	: 01525937		LECTION DATE	: 22/Feb/2025 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 22/Feb/2025 10:55AM
			URTING DATE	: 22/FeD/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
VITAMIN B12/COE	BALAMIN: SERUM	200 VITAMIN B12/C		190.0 - 890.0
by CMIA (CHEMILUMIN	BALAMIN: SERUM	200	O BALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMIN INTERPRETATION:-		200		
by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan	NESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C	200 SSAY)	pg/mL DECREASED VITAMIN	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen	200 SSAY) 1.Pregnancy 2.DRUGS:Asp	pg/mL DECREASED VITAMIN irin, Anti-convulsants	NB12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion	NB12
by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in	NESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	NESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury ve disorder	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 gen	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp	NB12 , Colchicine tion.
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 gen	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted.	SECENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury ve disorder lamin) is necessary for hematope tained only from animal proteins itamin B12 stores very economic	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic ally, reabsorbing vitan	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp in B12 from the ileun	VB12 , Colchicine ,
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury ve disorder lamin) is necessary for hematopo tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sec l intestinal diseases).	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic cally, reabsorbing vitan retion by gastric mucor	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp nin B12 from the ileun sa (eg, gastrectomy, g	VB12 , Colchicine ,
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal 5.Vitamin B12 deficie	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury ve disorder lamin) is necessary for hematoput tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocyt	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic sand requires intrinsic	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp nin B12 from the ileun sa (eg, gastrectomy, g ripheral neuropathy,	NB12 , Colchicine ,
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié leal resection, smal 5.Vitamin B12 deficié proprioception, poor	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A ijury ve disorder lamin) is necessary for hematoput tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocyt	200 SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur s and requires intrinsic sand requires intrinsic	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma onal function. factor (IF) for absorp nin B12 from the ileun sa (eg, gastrectomy, g ripheral neuropathy,	NB12 , Colchicine ,

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.





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chc MD (Pathology & I Chairman & Consu	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)			
NAME	: Mrs. ANU ANAND						
AGE/ GENDER	: 62 YRS/FEMALE	PATIE	NT ID	: 1765991			
COLLECTED BY	: SURJESH	REG. N	D./LAB NO.	:012502220017			
REFERRED BY	:	REGIST	RATION DATE	: 22/Feb/2025 08:31 AM			
BARCODE NO.	: 01525937		CTION DATE	: 22/Feb/2025 09:09AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 22/Feb/2025 10:24AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI					
Test Name		Value	Unit	Biological Reference interval			
		CUNICAI DATH					
CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION							
PHYSICAL EXAMIN							
QUANTITY RECIEVE	ED	10	ml				
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY							
		HAZY		CLEAR			
SPECIFIC GRAVITY		1.01		1.002 - 1.030			
by DIP STICK/REFLECT CHEMICAL EXAMIN	ANCE SPECTROPHOTOMETRY						
REACTION		ACIDIC					
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY						
PROTEIN by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)			
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)			
pH	ANCE SPECTROPHOTOMETRY	6		5.0 - 7.5			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Nagativa		NEGATIVE (-ve)			
		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)			
by DIP STICK/REFLECT ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-VE)					
MICROSCOPIC EXA							
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3			



an

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







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



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

NAME	: Mrs. ANU ANAND				
AGE/ GENDER	: 62 YRS/FEMALE		PATIENT ID	: 1765991	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502220017	
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 08:31 AM	
BARCODE NO.	: 01525937		COLLECTION DATE	: 22/Feb/2025 09:09AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Feb/2025 10:24AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON C	S CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
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 ***





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

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

