

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Cho MD (Pathology & N Chairman & Consu		icrobiology) MD (Pathology)		
NAME	: Mrs. RUBY KOCHHAR			
AGE/ GENDER	: 63 YRS/FEMALE	PAT	IENT ID	: 1657096
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	:012410300018
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 30/Oct/2024 09:48 AM
BARCODE NO.	: 01519802	COL	LECTION DATE	: 30/Oct/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 30/Oct/2024 10:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SM/A STI	HVA WELLN	ESS PANEL: 1.5	
			COUNT (CBC)	
DED DI OOD CELLS	(RBCS) COUNT AND INDICES	LEIE DLUUD	COUNT (CBC)	
HAEMOGLOBIN (HE		10.3 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC			Ũ	
RED BLOOD CELL (I by HYDRO DYNAMIC FO	RBC) COUNT	4.06	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV)		34.6 <sup>L</sup>	%	37.0 - 50.0
by CALCULATED BY AU MEAN CORPUSCULA	JTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	85.4	fL	80.0 - 100.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER	_		
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	25.5 <sup>L</sup>	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	29.9 <sup>L</sup>	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV)	15.4	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-SD)	49.2	fL	35.0 - 56.0
	JTOMATED HEMATOLOGY ANALYZER	01.00	DATIO	
MENTZERS INDEX by CALCULATED		21.03	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING IND	FX	32.56	RATIO	>13.0 BETA THALASSEMIA TRAIT:<
by CALCULATED		52.00	101110	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL	LS (WBCS)			00.0
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	6430	/cmm	4000 - 11000
	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED D	T HEMATOLOGY ANALYZER			
by AUTOMATED 6 PAR	LOOD CELLS (nRBCS) %	NIL	%	< 10 %





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. RUBY KOCHHAR AGE/ GENDER : 63 YRS/FEMALE **PATIENT ID** :1657096 **COLLECTED BY** : SURJESH :012410300018 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 30/Oct/2024 09:48 AM : **BARCODE NO.** :01519802 **COLLECTION DATE** : 30/Oct/2024 09:53AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 30/Oct/2024 10:22AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 47<sup>L</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 44<sup>H</sup> LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 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 3022 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2829 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 193 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 386 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 0.0 - 999.0/cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) /cmm 150000 - 450000 138000<sup>L</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.23 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 17<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 99000<sup>H</sup> /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 72<sup>H</sup> % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.7% 15.0 - 17.0

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



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







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NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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MBBS, MD (PATHOLOGY)







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CLIENT CODE.	: KOS DIAGNOSTIC LAB		ING DATE	: 30/Oct/2024 03:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAE WHOLE BLOOD	MOGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAG		108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		10GLOGIB (HBAIC) in	%
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)		7 – 6.4	
	anasing Dishotos	>	= 6.5	
	gnosing Diabetes			
	gnosing Diabetes	9	19 Years	
Dia		Goals of Therapy:	< 7.0	
Dia	goals for glycemic control	Goals of Therapy: Actions Suggested:		

# COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

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

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

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





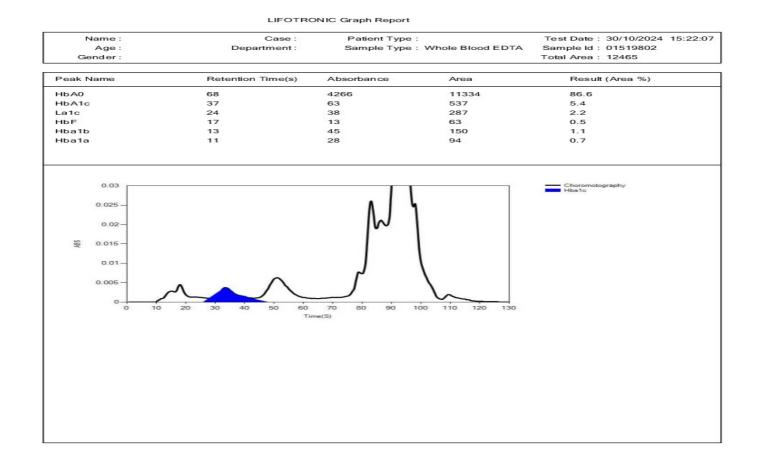
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LIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 30/Oct/2024 10:37AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
'est Name		Value	Unit	Biological Ref	erence interval
nmune disease, but An ESR can be affe c-reactive protein This test may also ystemic lupus eryth <b>DNDITION WITH LO</b> low ESR can be see	be used to monitor disease activit ematosus	ner exactly where the infl inflammation. For this rea ty and response to therap normal sedimentation of	ammation is in the l ason, the ESR is typi by in both of the abo f red blood cells, suc	body or what is causing it. cally used in conjunction v ove diseases as well as sor ch as a high red blood cell	vith other test such ne others, such as count
s sickle cells in sickl OTE: ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dexl	e cell anaemia) also lower the ES e protein (C-RP) are both markers as not change as rapidly as does Cl by as many other factors as is ESR ed, it is typically a result of two ty ive a higher ESR, and menstruation tran, methyldopa, oral contracept ad quinine may decrease it	R. of inflammation. RP, either at the start of i <b>3, making it a better mark</b> ypes of proteins, globulin: o and pregnancy can caus	inflammation or as i er of inflammation. s or fibrinogen. e temporary elevati	it resolves.	





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		y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTR GLUCOSE FAS		'nY
GLUCOSE FASTING	F (F): PLASMA e - peroxidase (god-pod)	114.82 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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.



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		ChopraDr. Yugam Chopray & Microbiology)MD (Pathology)consultant PathologistCEO & Consultant Pathologist		
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Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFILI	E. BASIC	
CHOLESTEROL TO by CHOLESTEROL O		172.85	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	143.81	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM 10N	49.72	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		94.37	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 CHOLES' by CALCULATED, SPE		123.13	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 CHOLESTER		28.76	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEE by CALCULATED, SPE	RUM	489.51	mg/dL	350.00 - 700.00
by CALOLATED, SPE CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	3.48	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
anasa waa				

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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LDL/HDL RATIO: S by CALCULATED, SPE		1.9	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	2.89 <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





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	LIVER		N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, S	:: SERUM PECTROPHOTOMETRY	0.76	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.17	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.59	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	I YRIDOXAL PHOSPHATE	28.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM		19.3	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	1.5	RATIO	0.00 - 46.00
ALKALINE PHOSP by Para nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	102.41	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	17.29	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.78	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.41	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	Л	3.37	gm/dL	2.30 - 3.50
A : G RATIO: SERU	ECTROPHOTOMETRY M ECTROPHOTOMETRY	1.31	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:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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INTERPRETATION





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#### DECREASED:

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

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

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



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BARCODE NO.	: 01519802	C	OLLECTION DATE	: 30/Oct/2024 09:53AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNE	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		31.29	mg/dL	10.00 - 50.00
-	MATE DEHYDROGENASE (GLDH)			
CREATININE: SERU by ENZYMATIC, SPEC		0.97	mg/dL	0.40 - 1.20
-	ROGEN (BUN): SERUM	14.62	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	15.07	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	32.26	RATIO	
URIC ACID: SERUM		3.53	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM by ARSENAZO III, SPE		10.27	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		4.52	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	136.9	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	1 VE ELECTRODE)	102.68	mmol/L	90.0 - 110.0
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	<b>TERULAR FILTERATION RATE</b> ERULAR FILTERATION RATE even pre- and post renal azotemia.	65.7		

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)







			inay Chopra athology & Microbiology) Ian & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
IAME	: Mrs. RUBY	KOCHHAR						
AGE/ GENDER	: 63 YRS/FEI	<b>MALE</b>	P	PATIENT ID	: 165	57096		
COLLECTED BY	: SURJESH		R	REG. NO./LAB NO.	:01	241030001	8	
REFERRED BY				REGISTRATION D		/Oct/2024 09		
BARCODE NO.	:01519802			COLLECTION DAT		′Oct/2024 09		
CLIENT CODE.	: KOS DIAGN			REPORTING DATI	E : 30/	'Oct/2024 11	:53AM	
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMB	ALA CANTT					
Fest Name			Value	Un	it	Biologi	cal Reference i	nterval
ourns, 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 necr	kia, high fever (e.g. ureter co ass (subnorma tetracycline, g <b>D:1) WITH ELEN</b> (BUN rises dis superimposed <b>0:1) WITH DEC</b> osis.	lostomy) I creatinine productior Iucocorticoids) /ATED CREATININE LEVI proportionately more to on renal disease.	) :LS:			shing's syndr	ome, high protei	in diet,
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal 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 of 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido 5. hould produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <b>G1</b> <b>G2</b>	ke or producti- kia, high fever (e.g. ureter co ass (subnorma tetracycline, g <b>D:1) WITH ELEV</b> (BUN rises dis superimposed <b>0:1) WITH DEC</b> osis. d starvation. creased urea s urea rather th monemias (uro f inappropiate <b>0:1) WITH INC</b> oy (accelerate eleases muscle who develop r sis (acetoaceta creased BUN/o apy (interferes LAR FILTERATI	I. Iostomy) I creatinine production Iucocorticoids) <b>/ATED CREATININE LEVI</b> proportionately more for on renal disease. <b>REASED BUN :</b> ynthesis. an creatinine diffuses of the case of the second se	) <b>SLS:</b> han creatining but of extracel blood). due to tubulat e to creatining e in creatining rement). GFR (mL	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2 )</u> >90 >90	e uropathy). I. hodologies,re <u>ASSOCIATI</u> <u>No pro</u> Presence		mal ratio when o	
A certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (<1 Acute tubular necr Composition diet ar Severe liver disease Cother causes of de Repeated dialysis ( Diherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE G1 G2 G3a	ke or producti- kia, high fever (e.g. ureter co ass (subnorma tetracycline, g <b>D:1) WITH ELEN</b> (BUN rises dis superimposed <b>0:1) WITH DEC</b> osis. d starvation. creased urea s urea rather th nonemias (uro f inappropiate <b>0:1) WITH INC</b> oy (accelerate eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes <b>LAR FILTERATI</b>	I. Iostomy) I creatinine production Iucocorticoids) <b>/ATED CREATININE LEVI</b> proportionately more for on renal disease. <b>REASED BUN :</b> ynthesis. an creatinine diffuses of the case of the second antidiuretic harmone) <b>REASED CREATININE:</b> s conversion of creating the causes false increase creatinine ratio). s with creatinine measu <b>DESCRIPTION</b> ormal kidney function Kidney damage with normal or high GFR Mild decrease in GFR	) <b>iLS:</b> han creatining but of extracel blood). due to tubula e to creatining rement). GFR ( mL	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2 )</u> >90 >90 60 -89	e uropathy). I. hodologies,re <u>ASSOCIATI</u> <u>No pro</u> Presence	sulting in nor DFINDINGS oteinuria of Protein ,	mal ratio when o	
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal 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 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <u>G1</u> <u>G2</u>	ke or producti- kia, high fever (e.g. ureter co ass (subnorma tetracycline, g <b>D:1) WITH ELEN</b> (BUN rises dis superimposed <b>0:1) WITH DEC</b> osis. d starvation. creased urea s urea rather th nonemias (uro f inappropiate <b>0:1) WITH INC</b> oy (accelerate eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes LAR FILTERATI	I. Iostomy) I creatinine production Iucocorticoids) <b>/ATED CREATININE LEVI</b> proportionately more for on renal disease. <b>REASED BUN :</b> ynthesis. an creatinine diffuses of the case of the second se	) <b>iLS:</b> han creatining but of extracel blood). due to tubulat e to creatining rement). GFR (mL	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2 )</u> >90 >90	e uropathy). I. hodologies,re <u>ASSOCIATI</u> <u>No pro</u> Presence	sulting in nor DFINDINGS oteinuria of Protein ,	mal ratio when o	





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







: SURJESH : : 01519802 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANT	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012410300018 : 30/Oct/2024 09:48 AM : 30/Oct/2024 09:53AM : 30/Oct/2024 11:53AM
: SURJESH : : 01519802 : KOS DIAGNOSTIC LAB	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 30/Oct/2024 09:48 AM : 30/Oct/2024 09:53AM
: SURJESH : : 01519802	REGISTRATION DATE COLLECTION DATE	: 30/Oct/2024 09:48 AM : 30/Oct/2024 09:53AM
: SURJESH	<b>REGISTRATION DATE</b>	: 30/Oct/2024 09:48 AM
	REG. NO./LAB NO.	: 012410300018
: 63 YRS/FEMALE	PATIENT ID	: 1657096
: Mrs. RUBY KOCHHAR		
		(Pathology) : Pathologist
Dr. Vinay Chopra	Dr. Yugan	
Ī	MD (Pathology & Microbiology) Chairman & Consultant Patholog Mrs. RUBY KOCHHAR	MD (Pathology & Microbiology) Chairman & Consultant Pathologist Mrs. RUBY KOCHHAR

COMMENTS:

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

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

ADVICE:

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





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	Dr. Vinay ChopraDr. YugamMD (Pathology & Microbiology)MD (IChairman & Consultant PathologistCEO & Consultant F				Pathology)	
NAME	: Mrs. RUBY K	OCHHAR				
AGE/ GENDER	: 63 YRS/FEMA	ALE		PATIENT ID	: 1657096	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012410300018	
<b>REFERRED BY</b>	:			<b>REGISTRATION DATE</b>	: 30/Oct/2024 09:48 AM	
BARCODE NO.	:01519802			COLLECTION DATE	: 30/Oct/2024 09:53AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		<b>REPORTING DATE</b>	: 30/Oct/2024 11:53AM	
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AMI	BALA CANTT			
Test Name			Value	Unit	<b>Biological Reference interval</b>	
			IRON	PROFILE		
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY		60.01	μg/dL	37.0 - 145.0	
UNSATURATED IR SERUM by FERROZINE, SPEC			368.38 <sup>H</sup>	µg/dL	150.0 - 336.0	
TOTAL IRON BIND SERUM		(TIBC)	428.39	µg/dL	230 - 430	
%TRANSFERRIN SA	ATURATION: S		14.01 <sup>L</sup>	%	15.0 - 50.0	
TRANSFERRIN: SE	RUM		304.16	mg/dL	200.0 - 350.0	
INTERPRETATION:-	. ,					
VARIAB		ANEMIA OF CHROI		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT	
SERUM IF	RON:	Normal to Re	duced	Reduced	Normal	
TOTAL IRON BINDI	NG CAPACITY:	Decrease	ed	Increased	Normal	

% TRANSFERRIN SATURATION:

**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.

Decreased < 12-15 %

Decreased

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.

Decreased

Normal to Increased

#### % TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

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.



**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



Normal

Normal or Increased

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		<b>Chopra</b> & Microbiology) onsultant Pathologis	MI	m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. RUBY KOCHHAR				
AGE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1657096	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012410300018	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 30/Oct/2024 09:48 AM	
BARCODE NO.	: 01519802		COLLECTION DATE	: 30/Oct/2024 09:53AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 30/Oct/2024 11:53AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Referen	nce interval
	Т		RINOLOGY TION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immuno	1.327 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S		9.58	μgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SEI		µIU/m]	L 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE	,			
INTERPRETATION:					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the pro	oduction and secretion of the	pm. The variation is of the order of 50%. metabolically active hormones, thyroxir her underproduction (hypothyroidism) of	ne (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lo	ow Normal	Normal or Low Normal	High	

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)	THYROXINE (T4)		THYROID STIMULATING HORMONE (	
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)

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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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Pathology)
NAME	: Mrs. RUBY KOCHHAR		
AGE/ GENDER	: 63 YRS/FEMALE	PATIENT ID	: 1657096
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012410300018
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Oct/2024 09:48 AM
BARCODE NO.	: 01519802	COLLECTION DATE	: 30/Oct/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Oct/2024 11:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name			Value	Unit	i	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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		
•					6 J	

#### **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)







	MD (Path	<b>ay Chopra</b> nology & Microbiology) n & Consultant Pathologist		(Pathology)
NAME	: Mrs. RUBY KOCHHA	R		
AGE/ GENDER	: 63 YRS/FEMALE	I	PATIENT ID	: 1657096
COLLECTED BY	: SURJESH	]	REG. NO./LAB NO.	: 012410300018
<b>REFERRED BY</b>	:	]	REGISTRATION DATE	: 30/Oct/2024 09:48 AM
BARCODE NO.	:01519802	(	COLLECTION DATE	: 30/Oct/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAI	B	REPORTING DATE	: 30/Oct/2024 10:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IMMUNOPATHO	DLOGY/SEROLOGY	
	<b>DENGUE</b>	FEVER COMBO SCREEN	ING - (NS1 ANTIGEN, Ig	G AND IgM)
DENGUE NS1 ANTIGEN		NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY Ig		NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY Ig by ICT (IMMUNOCHROMAT		NEGATIVE (-ve)		NEGATIVE (-ve)

#### **INTERPRETATION:-**

1. This is a solid phase immunochromatographic ELISA test for the qualitative detection of the specific IgG and IgM antibodies against the Dengue virus.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

2. The IgM antibodies take a minimum of 5-10 days in primary infection and 4-5 days in secondary infections to test positive and hence are suitable for the diagnosis of dengue fever only when the fever is approximately one week old.

3. The IgG antibodies develop at least two weeks after exposure to primary infection and subsequently remain positive for the rest of the life. A positive result is incapable of differentiating a current infection from a past infection.

4. The Dengue NS-1 antigen test is most suited for early diagnosis (within the first week of exposure).





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant F	Pathology)
NAME	: Mrs. RUBY KOCHHAR			
AGE/ GENDER	: 63 YRS/FEMALE	PAT	IENT ID	: 1657096
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012410300018
<b>REFERRED BY</b>	:	REG	<b>ISTRATION DATE</b>	: 30/Oct/2024 09:48 AM
BARCODE NO.	: 01519802	COLL	LECTION DATE	: 30/Oct/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 30/Oct/2024 10:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	W	IDAL SLIDE AGGLU	TINATION TEST	
SALMONELLA TYP		NIL	TITRE	1:80
SALMONELLA TYP by SLIDE AGGLUTINA		NIL	TITRE	1:160
SALMONELLA PAR by SLIDE AGGLUTINA		NIL	TITRE	1:160
SALMONELLA PAR by SLIDE AGGLUTINA		NIL	TITRE	1:160

### **INTERPRETATION:**

1. Titres of 1:80 or more for "O" agglutinin is considered significant.

2. Titres of 1:160 or more for "H" agglutinin is considered significant.

### LIMITATIONS:

1.Agglutinins usually appear by 5th to 6th day of illness of enteric fever, hence a negative result in early stage is inconclusive. The titre then rises till 3rd or 4th week, after which it declines gradually.

2.Lower titres may be found in normal individuals.

3.A single positive result has less significance than the rising agglutination titre, since demonstration of rising titre four or more in 1st and 3rd week is considered as a definite evidence of infection.

4.A simultaneous rise in H agglutinins is suggestive of paratyphoid infection.

#### NOTE:

1. Individuals with prior infection or immunization with TAB vaccine may develop an ANAMNESTIC RESPONSE (False-Positive) during an unrelated fever *i.e* High titres of antibodies to various antigens. This may be differentiated by repitition of the test after a week.

2. The anamnestic response shows only a transient rise, while in enteric fever rise is sustained.

3.H agglutinins tend to persist for many months after vaccination but O agglutinins tend to disappear sooner i.e within 6 months. Therefore rise in Oagglutinins indicate recent infection.





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

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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Patho	<b>y Chopra</b> Ilogy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RUBY KOCHHAR : 63 YRS/FEMALE : SURJESH : : 01519802 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON F	P R R C R	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE	: 1657096 <b>: 012410300018</b> : 30/Oct/2024 09:48 AM : 30/Oct/2024 09:53AM : 30/Oct/2024 11:53AM
Test Name		Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
		VITAMIN D/25 HYI	DROXY VITAMIN D	3
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): SI ESCENCE IMMUNOASSAY)	ERUM <b>111.8<sup>H</sup></b>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>Interpretation:</u> Defi	CIENT:	< 20	n	g/mL
INSUF	FICIENT:	21 - 29		g/mL
	ED RANGE:	<u> </u>		g/mL g/mL
conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bo 3.Vitamin D plays a r ohosphate reabsoro 4.Severe deficiency r <b>DECREASED:</b> 1.Lack of sunshine ey 2.Inadeguate intake 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and \$	vdrocholecalciferol to Vitar epresents the main body r und by a transport protein primary role in the mainter tion, skeletal calcium depo may lead to failure to mine posure. malabsorption (celiac disc Vitamin D 25- hydroxylase need Liver disease Secondary Hyperparathroid rugs: anti-epileptic drugs li	nin D3 in the skin upon U esevoir and transport forr while in circulation. hance of calcium homeost sition, calcium mobilizatio ralize newly formed ostec ease) activity lism (Mild to Moderate do ke phenytoin, phenobarb	Itraviolet exposure. n of Vitamin D and trans tatis. It promotes calciun on, mainly regulated by p old in bone, resulting in r eficiency) ital and carbamazepine,	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and barathyroid harmone (PTH). lickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. RUBY KOCHHAR			
AGE/ GENDER	: 63 YRS/FEMALE	PA	TIENT ID	: 1657096
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012410300018
REFERRED BY	:	RE	GISTRATION DATE	: 30/Oct/2024 09:48 AM
BARCODE NO.	: 01519802		LLECTION DATE	: 30/Oct/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 30/Oct/2024 11:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
LIENT ADDRESS	. 0543/ 1, MCHOLSON ROAD,	AMDALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNOA	·/	DECREASED VITAMI	N B12
1.Ingestion of Vitar		1.Pregnancy		
2.Ingestion of Estro	ogen		pirin, Anti-convulsants	, Colchicine
3.Ingestion of Vitar		3.Ethanol Ig		
4.Hepatocellular in			otive Harmones	
5.Myeloproliferativ 6.Uremia	/e disorder	5.Haemodia 6. Multiple I		
	lamin) is necessary for hematopo			
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 defici- ileal resection, smal 5.Vitamin B12 defici proprioception, pool the neurologic defec	tained only from animal proteins vitamin B12 stores very economic ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocyt r coordination, and affective beh ts without macrocytic anemia.	s and requires intrins cally, reabsorbing vita retion by gastric muc ic anemia, glossitis, p avioral changes. Thes	ic factor (IF) for absorp min B12 from the ileur osa (eg, gastrectomy, g peripheral neuropathy, se manifestations may	n and returning it to the liver; very little is jastric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have
7.Follow-up testing f <b>NOTE:</b> A normal seru deficiency at the cell	m concentration of vitamin B12 d	IF) is recommended t loes not rule out tissu f clinical symptoms su	to identify this potentia le deficiency of vitamin	y states. al cause of vitamin B12 malabsorption. I B12. The most sensitive test for vitamin B12 surement of MMA and homocysteine should b





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



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		(Pathology)
NAME: Mrs. RUBYAGE/ GENDER: 63 YRS/FEMCOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01519802CLIENT CODE.: KOS DIAGNOCLIENT ADDRESS: 6349/1, NIC	IALE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1657096 : 012410300018 : 30/Oct/2024 09:48 AM : 30/Oct/2024 09:53AM : 30/Oct/2024 05:12PM
Test Name	Value	Unit	Biological Reference interval
	CLINICAL URINE ROUTINE & MIC	PATHOLOGY ROSCOPIC EXAMIN	ATION
PHYSICAL EXAMINATION QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTRO COLOUR by DIP STICK/REFLECTANCE SPECTRO TRANSPARANCY by DIP STICK/REFLECTANCE SPECTRO SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTRO CHEMICAL EXAMINATION REACTION by DIP STICK/REFLECTANCE SPECTRO PROTEIN by DIP STICK/REFLECTANCE SPECTRO SUGAR by DIP STICK/REFLECTANCE SPECTRO	AMBER Y. TURBID PHOTOMETRY PHOTOMETRY ALKALIN PHOTOMETRY PHOTOMETRY Negative		PALE YELLOW CLEAR 1.002 - 1.030 NEGATIVE (-ve) NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTRO BILLIRUBIN by DIP STICK/REFLECTANCE SPECTRO NITRITE by DIP STICK/REFLECTANCE SPECTRO UROBILLINOGEN by DIP STICK/REFLECTANCE SPECTRO BLOOD by DIP STICK/REFLECTANCE SPECTRO ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTRO MICROSCOPIC EXAMINATION	BHAPPHOTOMETRYNegativeAPPHOTOMETRYNegativeAPHOTOMETRYNormalAPHOTOMETRYNegativeAPHOTOMETRYNegativeAPHOTOMETRYNegativeAPHOTOMETRYNegativeAPHOTOMETRYNegativeAPHOTOMETRYNegative		5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)	NEGATIV	E (-ve) /HPF	0 - 3



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







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

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

NAME	: Mrs. RUBY KOCHHAR			
AGE/ GENDER	: 63 YRS/FEMALE	PAT	IENT ID	: 1657096
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CLIENT ADDRESS	TADDRESS : 6349/1, NICHOLSON ROAD, AM			
Test Name		Value	Unit	<b>Biological Reference interval</b>
		1440	· · · · ·	biological weier enter inter var
by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		2-4	/HPF	0 - 5
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON ( EPITHELIAL CELLS by MICROSCOPY ON ( CRYSTALS	CENTRIFUGED URINARY SEDIMENT	2-4 5-8	/HPF	0 - 5

CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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

ABSENT

NEGATIVE (-ve)



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

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NEGATIVE (-ve)

ABSENT