



	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	:012410270017
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629		COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Oct/2024 09:50AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WEI	LLNESS PANEL: 1.4	
	COME	PLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELL	<u>S (RBCS) COUNT AND INDICES</u>			
HAEMOGLOBIN (H	(B)	10.2 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL	(PRC) COUNT	4.17	Millions/	cmm 3.50 - 5.00
	FOCUSING, ELECTRICAL IMPEDENCE		WIIIIOIIS/	
PACKED CELL VOL	UME (PCV) automated hematology analyzer	34 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	81.4	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	24.5 <sup>L</sup>	pg	27.0 - 34.0
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC)	30.1 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIE	BUTION WIDTH (RDW-CV)	15.2	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-SD)	46.4	fL	35.0 - 56.0
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		19.52	RATIO	BETA THALASSEMIA TRAIT: < 13.0
.,				IS.0 IRON DEFICIENCY ANEMIA:
		00.70		
GREEN & KING IN by CALCULATED	UEX	29.72	RATIO	BETA THALASSEMIA TRAIT:< 65.0
				IRON DEFICIENCY ANEMIA: >
WUITE BLOOD CE	TIC (WBCC)			65.0
WHITE BLOOD CE TOTAL LEUCOCYT		8070	/cmm	4000 - 11000
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	0070	/ chill	4000 - 11000
	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	AUTOMATED HEMATOLOGY ANALYZER			





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







Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. MANJU RANI AGE/ GENDER : 58 YRS/FEMALE **PATIENT ID** :1654684 **COLLECTED BY** :012410270017 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 27/Oct/2024 09:14 AM **BARCODE NO.** :01519629 **COLLECTION DATE** : 27/Oct/2024 09:19AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 27/Oct/2024 09:50AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 66 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 24% 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 4 % 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 5326 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1937 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 484<sup>H</sup> /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 323 /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 228000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 98000<sup>H</sup> 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 43 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra



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



Page 2 of 19





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. MANJU RANI		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1654684
<b>COLLECTED BY</b>	:	REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629	<b>COLLECTION DATE</b>	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 27/Oct/2024 09:50AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	ГТ	
Test Name	Value	Unit	Biological Reference interval



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







	<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE	PA	TIENT ID	: 1654684
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	RE	GISTRATION DATE	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629	CO	LLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 27/Oct/2024 02:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLYCOS	SYLATED HAEN	MOGLOBIN (HBA10	C)
WHOLE BLOOD	XEMOGLOBIN (HbA1c):	6.3	%	4.0 - 6.4
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	134.11	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI			
	REFERENCE GROUP		OSYLATED HEMOGLOGIB	(HBAIC) in %
Non di	abetic Adults >= 18 years		<5.7	
A	t Risk (Prediabetes)		5.7 – 6.4	
D	liagnosing Diabetes		>= 6.5	
			Age > 19 Years	
<b>T</b> I .		Goals of		< 7.0
Inerapeut	ic goals for glycemic control	Actions Su	00	>8.0
			Age < 19 Years	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

Goal of therapy:

<7.5

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.



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

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







		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE	PA	TIENT ID	: 1654684
<b>COLLECTED BY</b>	:	RE	G. NO./LAB NO.	: 012410270017
EFERRED BY	:	RE	GISTRATION DATE	: 27/Oct/2024 09:14 AM
ARCODE NO.	: 01519629	CO	LLECTION DATE	: 27/Oct/2024 09:19AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 27/Oct/2024 10:06AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Cest Name		Value	Unit	Biological Reference interval
vstemic lupus ervthe	ematosus	vity and response to t	herapy in both of the a	bove diseases as well as some others, such as
. This test may also ystemic lupus erythe ONDITION WITH LOV low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactiv. . Generally, ESR doe	ematosus W ESR n with conditions that inhibit th nificantly high white blood cell o e cell anaemia) also lower the e protein (C-RP) are both marke is not change as rapidly as does	ne normal sedimentat count (leucocytosis) , ESR. ers of inflammation. CRP, either at the sta	on of red blood cells, so and some protein abno rt of inflammation or as	uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.
. This test may also ystemic lupus erythe <b>ONDITION WITH LOV</b> low ESR can be see bolycythaemia), sigr s sickle cells in sickl <b>IOTE:</b> . ESR and C - reactive . Generally, ESR doe . <b>CRP is not affected</b> . If the ESR is elevate . Women tend to ha . Drugs such as dext	ematosus W ESR n with conditions that inhibit th ificantly high white blood cell of e cell anaemia) also lower the e protein (C-RP) are both marke ss not change as rapidly as does by as many other factors as is E ed, it is typically a result of two ye a higher ESR, and menstruat	ne normal sedimentat count (leucocytosis), ESR. rrs of inflammation. CRP, either at the sta <b>SR, making it a better</b> types of proteins, glo ion and pregnancy car	on of red blood cells, so and some protein abno rt of inflammation or as <b>marker of inflammatior</b> bulins or fibrinogen. cause temporary eleva	uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves. <b>.</b>





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



Page 5 of 19





		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE	PAT	IENT ID	: 1654684
COLLECTED BY	:	REG	. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629	COL	LECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 27/Oct/2024 10:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY GLUCOSE FAS		'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	109.85 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



**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



Page 6 of 19





	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
COLLECTED BY	:		REG. NO./LAB NO.	: 012410270017
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629		COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		I IPIN PR	OFILE : BASIC	
CHOLESTEROL TOT	TAL · SERUM	142.16	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		142.10	ilig/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI	ERUM	117.37	mg/dL	OPTIMAL: < 150.0
	HATE OXIDASE (ENZYMATIC)	111.01	118, 41	BORDERLINE HIGH: 150.0 -
				199.0
				HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI	L (DIRECT): SERUM	42.16	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ION		Ũ	BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL	.: SERUM	76.53	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE		10.00	ing, all	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		100	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
		00.17	/ 1-	VERY HIGH: $> OR = 220.0$
VLDL CHOLESTERC by calculated, spe		23.47	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER	UM	401.69	mg/dL	350.00 - 700.00
by CALCULATED, SPE		0.07		
CHOLESTEROL/HD by CALCULATED, SPE		3.37	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
, ,				MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
	20		1	
508.000 P	there a	6	horra	

677

 $\sim 10$ 

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

Page 7 of 19





		Chopra & Microbiology) onsultant Patholog		(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
COLLECTED BY	:		REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629		COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.82	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	2.78 <sup>L</sup>	RATIO	3.00 - 5.00

### **INTERPRETATION:**

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

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

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

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





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	<b>Dr. Vinay Chop</b> MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
COLLECTED BY	:		REG. NO./LAB NO.	:012410270017
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629		COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
BILIRUBIN TOTAL by diazotization, si		FUNCTION 0.89	<b>N TEST (COMPLETE)</b> mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.22	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.67	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		19.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	24.5	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.78	RATIO	0.00 - 46.00
ALKALINE PHOSPI by para nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	130.99 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	20.81	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.69	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.25	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.44	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.74	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)





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	G, /	(Pathology)
NAME	: Mrs. MANJU RANI		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1654684
COLLECTED BY	:	REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629	<b>COLLECTION DATE</b>	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA 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) V 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







	<b>Dr. Vinay Cho</b> MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE	l	PATIENT ID	: 1654684
COLLECTED BY	:	l	REG. NO./LAB NO.	:012410270017
<b>REFERRED BY</b>	:	l	REGISTRATION DATE	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629	(	COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	l	REPORTING DATE	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interv</b>
	KIDNE	Y FUNCTION	N TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	23.52	mg/dL	10.00 - 50.00
CREATININE: SERUM		0.96	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE	OGEN (BUN): SERUM	10.99	mg/dL	7.0 - 25.0
BLOOD UREA NITR RATIO: SERUM	COGEN (BUN)/CREATININE	11.45	RATIO	10.0 - 20.0
by CALCULATED, SPE UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	24.5	RATIO	
URIC ACID: SERUM	1	6.95 <sup>H</sup>	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.69	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe <b>ELECTROLYTES</b>	ERUM DATE, SPECTROPHOTOMETRY	2.43	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	136.9	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV	E ELECTRODE)	4.2	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	102.68	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	68.6		

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





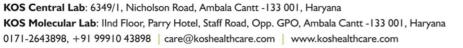


	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist		
NAME	: Mrs. MANJU RANI				
AGE/ GENDER	: 58 YRS/FEMALE	PA	FIENT ID	: 1654684	
COLLECTED BY	:	RE	G. NO./LAB NO.	:01241027001	17
REFERRED BY			GISTRATION DATI		
BARCODE NO.	: 01519629		LECTION DATE	: 27/Oct/2024 0	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 27/Oct/2024 10	0:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biologi	ical Reference interval
1. Postrenal azotemia 2. Prerenal azotemia	tetracycline, glucocorticoids) <b>20:1) WITH ELEVATED CREATINI</b> a (BUN rises disproportionately superimposed on renal diseas	/ more than creatinine)	(e.g. obstructive uro	opathy).	
1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1	20:1) WITH ELEVATED CREATINI a (BUN rises disproportionately superimposed on renal diseas 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic han 10:1) WITH INCREASED CREATIN py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION Normal kidney fun	y more than creatinine) e. ffuses out of extracellu osent in blood). rmone) due to tubular s <b>JINE:</b> creatine to creatinine). increase in creatinine v e measurement). <u>A GFR (mL/n</u> nction >	ar fluid). ecretion of urea. vith certain method nin/1.73m2 )	lologies,resulting in nor ASSOCIATED FINDINGS No proteinuria	
Postrenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin there STIMATED GLOMERL CKD STAGE	20:1) WITH ELEVATED CREATINI         a (BUN rises disproportionately superimposed on renal diseas         superimposed on renal diseas         10:1) WITH DECREASED BUN :         osis.         ad starvation.         e.         creased urea synthesis.         (urea rather than creatinine di monemias (urea is virtually abof inappropiate antidiuretic hallor)         bof (accelerates conversion of eleases muscle creatinine).         who develop renal failure.         ::         sis (acetoacetate causes false creased BUN/creatinine ratio)         rapy (interferes with creatinine)         ULAR FILTERATION RATE:         DESCRIPTION         Normal kidney function	y more than creatinine) e. ffuses out of extracellu osent in blood). rmone) due to tubular s JINE: creatine to creatinine). increase in creatinine v e measurement). J GFR (mL/n nction	lar fluid). ecretion of urea. vith certain method hin/1.73m2 )	lologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
Postrenal azotemia Prerenal azotemia PecREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. Pregnancy. PecREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thera STIMATED GLOMERI CKD STAGE G1	20:1) WITH ELEVATED CREATINI a (BUN rises disproportionately superimposed on renal diseas 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic han 10:1) WITH INCREASED CREATIN py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine) JLAR FILTERATION RATE: DESCRIPTION Normal kidney fun	y more than creatinine) e. ffuses out of extracellu osent in blood). rmone) due to tubular s <b>JINE:</b> creatine to creatinine). increase in creatinine v e measurement). <u>A GFR (mL/n</u> nction > with > GFR	lar fluid). ecretion of urea. vith certain method hin/1.73m2 )	lologies,resulting in nor ASSOCIATED FINDINGS No proteinuria	
Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr         Low protein diet ar         Severe liver diseas         Other causes of de         Severe liver diseas         Naperated dialysis         Naperated dialysis         Negnancy.         DECREASED RATIO (<         Severe liver diseas         Rhabdomyolysis (r         Severe liver diseas         Nuscular patients         Inabetic ketoacido         should produce an in         Cephalosporin the         ESTIMATED GLOMERI         G1         G2	20:1) WITH ELEVATED CREATINI         a (BUN rises disproportionately superimposed on renal diseas         superimposed on renal diseas         10:1) WITH DECREASED BUN :         osis.         ad starvation.         e.         creased urea synthesis.         (urea rather than creatinine di monemias (urea is virtually abof inappropiate antidiuretic han         10:1) WITH INCREASED CREATIN         py (accelerates conversion of eleases muscle creatinine).         who develop renal failure.         :         sis (acetoacetate causes false creased BUN/creatinine ratio)         rapy (interferes with creatinine)         ULAR FILTERATION RATE:         DESCRIPTION         Normal kidney function         Normal kidney function	more than creatinine) e. ffuses out of extracellu psent in blood). rmone) due to tubular s <b>JINE:</b> creatine to creatinine). increase in creatinine v e measurement). M GFR (mL/n nction > with > GFR 60 e in GFR 30	lar fluid). ecretion of urea. vith certain method hin/1.73m2 ) 90 90 90 -89	lologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr         Low protein diet ar         Severe liver diseas         Other causes of de         Severe liver diseas         Acute tubular necr         SIADH (syndrome of         SIADH (syndrome of         SIADH syndrome of         Severe liver diseas         Rhabdomyolysis (r         SMuscular patients         I Diabetic ketoacido         should produce an in         Cephalosporin ther         STIMATED GLOMERI         G1         G2         G1         G2	20:1) WITH ELEVATED CREATINI         a (BUN rises disproportionately superimposed on renal diseas         superimposed on renal diseas         10:1) WITH DECREASED BUN :         osis.         ad starvation.         e.         creased urea synthesis.         (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic han of inappropiate antidiuretic han propiate antidiuretic han of inappropiate antinappropiate antidiuretic han of inappropiate antiditet	more than creatinine) e. ffuses out of extracellu psent in blood). rmone) due to tubular s <b>JINE:</b> creatine to creatinine). increase in creatinine v measurement). <b>M</b> GFR (mL/n nction > with > GFR 600 a in GFR 300 n GFR 1500	lar fluid). ecretion of urea. vith certain method hin/1.73m2 ) 90 90 90 -89	lologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	





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









	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. MANJU RANI		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1654684
COLLECTED BY	:	REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629	<b>COLLECTION DATE</b>	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
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)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay ChopraDr. Yugam ( Dr. Yugam ( MD (Pathology & Microbiology)MD (Pathology & Microbiology)MD (PathologistChairman & Consultant PathologistCEO & Consultant Pathologist			Pathology)	
NAME	: Mrs. MANJU	RANI			
AGE/ GENDER	: 58 YRS/FEMA	ALE		PATIENT ID	: 1654684
COLLECTED BY	:			REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:			<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629			COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNO	STIC LAB		<b>REPORTING DATE</b>	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	IBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	ROPHOTOMETRY	,	45	μg/dL	37.0 - 145.0
UNSATURATED IRO :SERUM by FERROZINE, SPECT			249.16	μg/dL	150.0 - 336.0
TOTAL IRON BINDI SERUM by SPECTROPHOTOME	NG CAPACITY		294.16	µg/dL	230 - 430
%TRANSFERRIN SA by CALCULATED, SPEC			15.3	%	15.0 - 50.0
TRANSFERRIN: SER	RUM		208.85	mg/dL	200.0 - 350.0
INTERPRETATION:-	, ,				
VARIABL		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IR		Normal to R	educed	Reduced	Normal
TOTAL IRON BINDIN	NG CAPACITY:	Decreas	sed	Increased	Normal

**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):
 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:

% 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



Page 14 of

Normal

Normal or Increased





	MD (Pathology &	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		am Chopra ID (Pathology) ant Pathologist
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
COLLECTED BY	:		REG. NO./LAB NO.	: 012410270017
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629		<b>COLLECTION DATE</b>	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 27/Oct/2024 10:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT'	г	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	YROID FUN	CTION TEST: TOTA	L
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoas	0.798 (SAY)	ng/ml	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle immunoas	8.56 (SAY)	μgm/c	1L 4.87 - 12.60
	TING HORMONE (TSH): SERU		µIU/m	L 0.35 - 5.50
BY CMIA (CHEMILOMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :	IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE	5A I)		
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TS	H stimulates the p	roduction and secretion of the	<i>0 pm. The variation is of the order of 50%.Hence time of th</i> e metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low	Normal	Normal or Low Normal	High

LIM	ITAT	ION	IS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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

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



Page 15 of





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolog) Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. MANJU RANI		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1654684
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012410270017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629	<b>COLLECTION DATE</b>	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 27/Oct/2024 10:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	NTT	

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	
	RECOM	MENDATIONS OF TSH LE	VELS 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)







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1654684
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 27/Oct/2024 09:14 AM
BARCODE NO.	: 01519629		COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Γ	
Test Name		Value	Unit	Biological Reference interval
SERUM by NEPHLOMETRY INTERPRETATION:- RHEUMATOID FACTOR 1. Rheumatoid factors 2. Over 75% of patien useful although it may 3. Inflammatory Mark 4. The titer of RF corres 5. The test is useful for RHEUMATOID ARTHIRI 1. Rheumatoid Arthiri membrane lining (syn 2. The disease spreda 3. The diagnosis of RA measurement of RA fa CAUTION (FALSE POST 1. RA factor is not spec 2. Non rheumatoid and RA patients have a nor 3. Patients with variou lupus erythematosus, f 4. Anti-CCP have been specific (98%) than RA 5. Upto 30 % of patien	<b>RHEUMATO</b> FACTOR QUANTITATIVE: (RA): (RF) are antibodies that are dir ts with rheumatoid arthritis (RA) not be etiologically related to ers such as ESR & C-Reactive pr elates poorly with disease activi or diagnosis and prognosis of rh <b>TIS</b> : tis is a systemic autoimmune d ovium) joints which ledas to pr s from small to large joints, wit a is primarily based on clinical, ctor. <b>IVE):</b> ific for Rheumatoid arthiritis, as a rheumatoid arthritis (RA) popul preactive titer and & of nonrheu s nonrheumatoid diseases, chara polymyositis, tuberculosis, syphil discovered in joints of patients	ID FACTOR ( 2.7 rected against the A) have an IgM an RA. otein (CRP) are n ty, but those patin eumatoid arthri lisease that is mu ogressive joint d h greatest damag radiological & im <i>it is often present</i> lations are not clear umatoid patients cterized by chroni is, viral hepatitis, vith RA, but not in d arthiritis also sh	ntibody to IgG immunoglobu ermal in about 60 % of pati- lents with high titers tend to tis. Iti-functional in origin and i estruction and in most case ge in early phase. Imunological features. The n tin healthy individuals with o early separate with regard to have a positive titer). inflammation may have po- infectious mononucleosis, ar- other form of joint disease. A now Anti-CCP antibodies.	- SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 DOSITIVE: > 25.0 in its tertiary structure. Units autoantibody (RF) is diagnostically ents with positive RA. thave more severe disease course. is characterized by chronic inflammation of the set to disability and reduction of quality life. Inost frequent serological test is the wher autoimmune diseases and chronic infections. the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include systemic anti-CCP2 is HIGHLY SENSITIVE (71%) & more

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)

KOS Diagnostic Lab (A Unit of KOS Healthcare)

MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST

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

677

 $\sim 10^{-1}$ 



Page 17 of 19





Dr. Vinay Ch MD (Pathology & Chairman & Con	k Microbiology)	Dr. Yugarr MD O & Consultant	(Pathology)
NAME : Mrs. MANJU RANI			
AGE/ GENDER : 58 YRS/FEMALE	PATIENT 1	D	: 1654684
COLLECTED BY :	<b>REG. NO.</b> /2	LAB NO.	: 012410270017
REFERRED BY :	REGISTRA	TION DATE	: 27/Oct/2024 09:14 AM
<b>BARCODE NO.</b> : 01519629	COLLECTI	ON DATE	: 27/Oct/2024 09:19AM
<b>CLIENT CODE.</b> : KOS DIAGNOSTIC LAB	REPORTIN	IG DATE	: 27/Oct/2024 11:16AM
<b>CLIENT ADDRESS</b> : 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>
	CLINICAL PATHO	LOGY	
URINE RO	UTINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION	NEGATIVE (-ve)		NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3





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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







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

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

NAME	: Mrs. MANJU RANI			
AGE/ GENDER	: 58 YRS/FEMALE	I	PATIENT ID	: 1654684
COLLECTED BY	:	I	REG. NO./LAB NO.	: 012410270017
<b>REFERRED BY</b>	:	I	REGISTRATION DATE	: 27/Oct/2024 09:14 AM
BARCODE NO.	:01519629	(	COLLECTION DATE	: 27/Oct/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 27/Oct/2024 11:16AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
EPITHELIAL CELLS	5	6-8	/HPF	ABSENT

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

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



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

