

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Mrs. NARESH KUMARI WALIA			
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1604959
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409070017
REFERRED BY	:		REGISTRATION DATE	: 07/Sep/2024 08:50 AM
BARCODE NO.	:01516470		COLLECTION DATE	: 07/Sep/2024 08:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Sep/2024 09:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		1
Test Name		Value	Unit	Biological Reference interval
	SWAS		LLNESS PANEL: 1.5	
			OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC			N (111) (2.50.5.00
RED BLOOD CELL (RB	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.11	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUN	IE (PCV)	34.2 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	83.2	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER			
	R HAEMOGLOBIN (MCH)	26.7 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	32.1	g/dL	32.0 - 36.0
-	UTOMATED HEMATOLOGY ANALYZER		-	11.00 1/ 00
	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.1	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	43.9	fL	35.0 - 56.0
MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	20.24	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	X	28.47	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.(
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE CO	OUNT (TLC)	5720	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
by AUTOMATED 6 PAR	RT HEMATOLOGY ANALYZER	NIL	%	< 10 %
	UTOMATED HEMATOLOGY ANALYZER		70	
DIFFERENTIAL LEUCO	<u> DCYTE COUNT (DLC)</u>			
NEUTROPHILS		57	%	50 - 70
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			

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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





KOS Diagnostic Lab (A Unit of KOS Healthcare)



Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NARESH KUMARI WALIA AGE/ GENDER : 71 YRS/FEMALE **PATIENT ID** :1604959 **COLLECTED BY** : SURJESH :012409070017 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Sep/2024 08:50 AM **BARCODE NO.** :01516470 **COLLECTION DATE** :07/Sep/2024 08:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Sep/2024 09:18AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 27 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS gН % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3260 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1544 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 515^H 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 400 80 - 880 /cmm 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. 314000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.31 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 6.50 - 12.0 10 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 78000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 24.9 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16 % 15.0 - 17.0 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)

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			DRIING DATE	: 07/Sep/2024 02:54PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Refere	ence interval
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	6	%	4.0 - 6.4	
ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	125.5	mg/dL	60.00 - 140.00	
	AS PER AMERICAN D	DIABETES ASSOCIATION	(4D4).		
	REFERENCE GROUP		LATED HEMOGLOGIB	(HBAIC) in %	
Non di	abetic Adults >= 18 years	/	<5.7		
A	t Risk (Prediabetes)		5.7 - 6.4		
D	liagnosing Diabetes		>= 6.5		
		Coole of The	Age > 19 Years	. 7.0	
Therapeut	ic goals for glycemic control	Goals of The Actions Sugg		< 7.0 >8.0	
Therapeutic goals for glycemic control		Actions sugg		20.0	
			Age < 19 Years		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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

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

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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CLIENT CODE.	: KOS DIAGNOSTIC I	AB	REPORTING DATE	: 07/Sep/2024 09:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSO	ON ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
			DIMENTATION RATE (ES	2)
	1ENTATION RATE (ES		mm/1st h	
	GREN AUTOMATED METH	,	11111/1511	0 - 20
systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dextr	matosus V ESR with conditions that (ficantly high white bla cell anaemia) also lo protein (C-RP) are bo s not change as rapidly by as many other facto d, it is typically a resu re a higher ESR, and m	inhibit the normal sedime bod cell count (leucocyto wer the ESR. th markers of inflammatic as does CRP, either at th ors as is ESR, making it a b It of two types of protein enstruation and pregnanc contraceptives, penicillar	entation of red blood cells, so sis), and some protein abno on. the start of inflammation or as etter marker of inflammatior s, globulins or fibrinogen. ty can cause temporary eleva	ı.

57

23 A

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



Page 4 of 19





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	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		KIING DATE	. 077 Sep/ 2024 10.24AM
CLIENT CODE. CLIENT ADDRESS Test Name			Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit 'BIOCHEMISTR	Biological Reference interval

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. 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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Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist PATIENT ID** REG. NO./LAB NO.

REGISTRATION DATE

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:1604959 :012409070017 :07/Sep/2024 08:50 AM :07/Sep/2024 08:52AM

:07/Sep/2024 11:09AM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

: Mrs. NARESH KUMARI WALIA

: 71 YRS/FEMALE

: KOS DIAGNOSTIC LAB

: SURJESH

:01516470

:

Dr. Vinay Chopra

Test Name	Value	Unit	Biological Reference interval
	LIPID PROFILE	BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	232.11 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)	188.16 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	68.46	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	126.02	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	163.65 ^H	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 CHOLESTEROL: SERUM by calculated, spectrophotometry	37.63	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	652.38	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.39	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.84	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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NAME

AGE/ GENDER

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.75 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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

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





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Test Name	Va	alue Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.42	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by diazo modified, spectrophotometry	0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.93	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	126.25	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	68.39 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.02	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.42	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.6	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.7	RATIO	1.00 - 2.00

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)





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Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
 Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC	SIGNIFICANCE:

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



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Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NARESH KUMARI WALIA **AGE/ GENDER** : 71 YRS/FEMALE **PATIENT ID** :1604959 **COLLECTED BY** : SURJESH :012409070017 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Sep/2024 08:50 AM : **BARCODE NO.** :01516470 **COLLECTION DATE** :07/Sep/2024 08:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Sep/2024 11:09AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval KIDNEY FUNCTION TEST (COMPLETE) UREA: SERUM** 39.71 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE: SERUM** 1.09 mg/dL 0.40 - 1.20 by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM 18.56 mg/dL 7.0 - 25.0 by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE 17.03 RATIO 10.0 - 20.0 RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY RATIO **UREA/CREATININE RATIO: SERUM** 36.43 by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM 5.03 2.50 - 6.80 mg/dL by URICASE - OXIDASE PEROXIDASE 9.52 8.50 - 10.60 CALCIUM: SERUM mg/dL by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM 3.37 mg/dL 2.30 - 4.70 by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY **ELECTROLYTES** SODIUM: SERUM 137.5 mmol/L 135.0 - 150.0 by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM 4.18 mmol/L 3.50 - 5.00 by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM 103.13 mmol/L 90.0 - 110.0 by ISE (ION SELECTIVE ELECTRODE) **ESTIMATED GLOMERULAR FILTERATION RATE** ESTIMATED GLOMERULAR FILTERATION RATE 54.3 (eGFR): SERUM by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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

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

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

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





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		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. NARI	ESH KUMARI WALIA				
AGE/ GENDER	: 71 YRS/FE	MAIF	РАТ	TIENT ID	: 1604959	
COLLECTED BY	: SURJESH			G. NO./LAB NO.	:012409070017	
REFERRED BY	:		REC	SISTRATION DATE	:07/Sep/202408:5	0 AM
BARCODE NO.	:01516470		COL	LECTION DATE	:07/Sep/202408:52	2AM
LIENT CODE.	: KOS DIAGN	NOSTIC LAB	REI	ORTING DATE	:07/Sep/2024 11:09	9AM
LIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBA	ALA CANTT			
Fact Name			Value	11	Dislarias	Defenence internel
est Name			Value	Unit	Biological	Reference interval
5. Inherited hyperam 7. SIADH (syndrome o 3. Pregnancy. DECREASED RATIO (<	rosis. nd starvation. e. ccreased urea s (urea rather th monemias (ur of inappropiate 10:1) WITH INC	synthesis. han creatinine diffuses o ea is virtually absent in e antidiuretic harmone) o REASED CREATININE:	blood). due to tubular s	·		
. Phenacimide thera	ipy (accelerate	es conversion of creatine	to creatinine).			
2. Rhabdomyolysis (r						
3. Muscular patients NAPPROPIATE RATIO		endi fallure.				
. Diabetic ketoacido	sis (acetoacet	ate causes false increase	e in creatinine w	vith certain methodo	logies,resulting in norma	al ratio when dehydration
hould produce an in	creased BUN/	creatinine ratio).				2
2. Cephalosporin ther STIMATED GLOMERI		s with creatinine measur	rement).			
CKD STAGE		DESCRIPTION	GFR (mL/m	in/1.73m2) A	ASSOCIATED FINDINGS	1
G1		ormal kidney function		90	No proteinuria	1
G2		Kidney damage with			Presence of Protein,	1
		normal or high GFR			bumin or cast in urine	
G3a		Vild decrease in GFR		-89		1
G3b	Mo	oderate decrease in GFR		-59		4
C /	с С	avera degrades in CED	1	20		

G4

G5

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

Severe decrease in GFR

Kidney failure

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

15-29

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Test Name	Va	lue 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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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

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Test Name		Value	Unit	Biological Reference interval
		IRON P	PROFILE	
IRON: SERUM		45.7	μg/dL	37.0 - 145.0
by EEDDATINE ODEA	TRADUATAMETRY			

IRUN: SERUM by FERROZINE, SPECTROPHOTOMETRY	45.7	µg/dL	37.0 - 145.0	
UNSATURATED IRON BINDING CAPACITY (UIBC)	290.75	μg/dL	150.0 - 336.0	
:SERUM by ferrozine, spectrophotometery				
TOTAL IRON BINDING CAPACITY (TIBC)	336.45	μg/dL	230 - 430	
:SERUM by SPECTROPHOTOMETERY				
%TRANSFERRIN SATURATION: SERUM by Calculated, spectrophotometery (ferene)	13.58 ^L	%	15.0 - 50.0	
TRANSFERRIN: SERUM by spectrophotometery (ferene)	238.88	mg/dL	200.0 - 350.0	

INTERPRETATION:-

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

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





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Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	LOGY	
	THYRO	DID FUNCTION	TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	0.824	ng/mL	0.35 - 1.93
THYROXINE (T4): SE		8.23	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM	1.679	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to day has influence on the	measured serum TSH concentrations.TSH stimu lure at any level of regulation of the hypothala	lates the production a	and secretion of the me	m. The variation is of the order of 50% Hence time of the etabolically active hormones, thyroxine (T4)and rr underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	T4	TSH
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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHY	(RONINE (T3)	THYROX	NE (T4)	THYROID STIMUL	ATING 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





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 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay Chopra



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Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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 PREG	NANCY (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, idonie 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 goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic 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)

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Page 15 of



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pa	inay Chopra athology & Microbiology) aan & Consultant Patholog	ME	n Chopra D (Pathology) It Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. NARESH KUM : 71 YRS/FEMALE : SURJESH : : 01516470 : KOS DIAGNOSTIC L : 6349/1, NICHOLSC		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1604959 : 012409070017 : 07/Sep/2024 08:50 AM : 07/Sep/2024 08:52AM : 07/Sep/2024 11:09AM
Test Name		Value	Unit	Biological Reference interval
			TAMINS	
by CLIA (CHEMILUMINI	ROXY VITAMIN D3): SE ESCENCE IMMUNOASSAY	RUM 42.8	HYDROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFIC	CIENT:	< 20		ng/mL
	FICIENT:	21 - 29		ng/mL
	ED RANGE: CATION:	<u>30 - 100</u> > 100		ng/mL
conversion of 7- dihy 2.25-OHVitamin D ro issue and tightly bou 3. Vitamin D plays a p obosphate reabsorpt 4. Severe deficiency n DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advan 5. Osteoporosis and S 5. Enzyme Inducing dr NCREASED: 1. Hypervitaminosis E	drocholecalciferol to V epresents the main bound by a transport pro- rimary role in the main ion, skeletal calcium do hay lead to failure to m posure. malabsorption (celiac Vitamin D 25- hydroxy need Liver disease econdary Hyperparath rugs: anti-epileptic druc D is Rare, and is seen of and hyperphophatem	itamin D3 in the skin upc dy resevoir and transport ein while in circulation. Intenance of calcium mobili ineralize newly formed c disease) ase activity roidism (Mild to Modera gs like phenytoin, phenot nly after prolonged expos ia.	n plants, Vitamin D2), or chon Ultraviolet exposure. form of Vitamin D and tran eostatis. It promotes calciu zation, mainly regulated by osteoid in bone, resulting in te deficiency) parbital and carbamazepine sure to extremely high dose	olecalciferol (from animals, Vitamin D3), or by sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. , that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent





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LIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD, 7					
Test Name		Value	Unit	Biological Reference interval		
/ITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM iescent microparticle immunoas	609 SSAY)	BALAMIN pg/mL	190.0 - 890.0		
INCREASED VITAMIN B12		[DECREASED VITAMIN B12			
1.Ingestion of Vitamin C		1.Pregnancy	1.Pregnancy			
2.Ingestion of Estrogen		2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitamin A		3.Ethanol Igestion				
4.Hepatocellular injury 5.Myeloproliferative disorder			4. Contraceptive Harmones			
<u>5.Myeloproliferativ</u> 6.Uremia	e disorder		5.Haemodialysis 6. Multiple Myeloma			
1.Vitamin B12 (cobal 2.In humans, it is obt	amin) is necessary for hematopo tained only from animal proteins itamin B12 stores very economica	iesis and normal neuror and requires intrinsic fa	nal function. Actor (IF) for absorp	otion. n and returning it to the liver; very little is		
4.Vitamin B12 deficie ileal resection, small	intestinal diseases).			astric atrophy) or intestinal malabsorption (e		

5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

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

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	HOLOGY	
		OUTINE & MICROS		
PHYSICAL EXAMINA				
		10		
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY				
		CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	<=1.000		1.002 - 1.030
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
-	TANCE SPECTROPHOTOMETRY			
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)
SUGAR	ANGE SPECIKOPHUIUMEIRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	ingativo		
pH		<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	negative		NEGATIVE (-VE)
NITRITE		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Norme - I	F11/-11	0.0.1.0
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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



KOS Diagnostic Lab (A Unit of KOS Healthcare)



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

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

NAME	: Mrs. NARESH KUMARI WALL	A					
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT	ID	: 1604959			
COLLECTED BY	: SURJESH	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE		: 012409070017 : 07/Sep/2024 08:50 AM : 07/Sep/2024 08:52AM : 07/Sep/2024 10:00AM			
REFERRED BY	:						
BARCODE NO.	:01516470						
CLIENT CODE.	: KOS DIAGNOSTIC LAB						
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	49/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
L RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-3	/HPF	0 - 5			
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		3-4	/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 O	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)			
TRICHOMONAS VAGINALIS (PROTOZOA)		ABSENT		ABSENT			

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report





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

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

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