



Dr. Vinay Ch e MD (Pathology & Chairman & Cons		Dr. Yugam (MD (F CEO & Consultant P	athology)
NAME : Mrs. NAVNEET KAUR			
AGE/ GENDER : 40 YRS/FEMALE	PA	ATIENT ID	: 1583993
COLLECTED BY :	RI	EG. NO./LAB NO.	: 012408180016
REFERRED BY :	RI	EGISTRATION DATE	: 18/Aug/2024 08:10 AM
BARCODE NO. : 01515228	CC	DLLECTION DATE	: 18/Aug/2024 09:04AM
CLIENT CODE. : KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 18/Aug/2024 09:33AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SW	ASTHYA WELL	NESS PANEL: 1.5	
	COMPLETE BLOO		
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	12.7	gm/dL	12.0 - 16.0
by CALORIMETRIC	12.7	gin/ dL	12.0 - 10.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.93	Millions/cm	m 3.50 - 5.00
PACKED CELL VOLUME (PCV)	40.5	%	37.0 - 50.0
	er 82	fL	80.0 - 100.0
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyze		IL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	25.8 ^L	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ	31.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV)	14.4	%	11.00 - 16.00
		fL	25.0.54.0
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZE	44.2 ER	IL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	16.63	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	23.99	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED			IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6790	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZE MICROSCOPY	ER &		
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZE MICROSCOPY	NIL ER &	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			



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

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

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

 www.koshealthcare.com



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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NAVNEET KAUR AGE/ GENDER : 40 YRS/FEMALE **PATIENT ID** :1583993 **COLLECTED BY** :012408180016 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :18/Aug/2024 08:10 AM **BARCODE NO.** :01515228 **COLLECTION DATE** : 18/Aug/2024 09:04AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Aug/2024 09:33AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 32 LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT 3802 2000 - 7500 ABSOLUTE NEUTROPHIL COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2173 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 340 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 475 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 176000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.25 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 14^H MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 100000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 57^H 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 16.3 % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 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







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CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 18/Aug/2024 02:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LYCOSYLATED HAEM	OGLOBIN (HBA1C)	
GLYCOSYLATED HAEMO	DGLOBIN (HbA1c):	5.1	%	4.0 - 6.4
by HPLC (HIGH PERFORM ESTIMATED AVERAGE F	IANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY)	99.67	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA)	:	
	FERENCE GROUP	GLYCOSYLATE) HEMOGLOGIB (HBAIC) i	in %
Non diab	etic Adults >= 18 years		<5.7	
At F	Risk (Prediabetes)	1	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
			Age > 19 Years	
		Goals of Therapy:	< 7.0	
Therapeutic	goals for glycemic control	Actions Suggested:	>8.0)

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

Goal of therapy

Age < 19 Years

<7.5

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

significant complications of diabetes, infinited the expectancy of extensive co-mobile conditions, targetting a goal of < 7.0% may not be appropriate. μ (μ (μ (μ (μ))) and μ (μ)) are specially of extensive co-mobile conditions, targetting a goal of < 7.0% may not be the second se

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 ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
Test Name		Value Unit	Biological Reference interval

	LIFOTF	RONIC Graph Report			
Name : Age : Gender :	Case : Department :	Patient Type Sample Type	: : Whole Blood EDTA	Test Date:18/08/2024 Sample ld:01515228 Total Area:14873	14:21:3
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)	
НЬА0	70	4176	13520	89.4	
HbA1c	37	62	764	5.1	
La1c	28	15	205	1.4	
HbF	18	12	15	0.1	
Hba1b	13	56	217	1.4	
Hba1a	11	43	152	1.0	
0.03				Choromotography Hba1c	
0.025 —					
0.02-					
% 0.015 −		N			
0.01-		2			
0.005 -	\wedge				
0	10 20 30 40 50 60	0 70 80 90 Time(S)	100 110 120 130		



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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BARCODE NO.	: 01515228	(COLLECTION DATE	: 18/Aug/2024 09:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 18/Aug/2024 09:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIN	IENTATION RATE (ESR)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	4	mm/1st hr	0 - 20
mmune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitic ected by other conditions besides	oner exactly where inflammation. For	the inflammation is in the this reason, the ESR is typ	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such ove diseases as well as some others, such as
ystemic lupus eryth ONDITION WITH LO Low ESR can be see	ematosus W ESR en with conditions that inhibit the	e normal sediment	ation of red blood cells, su	
is sickle cells in sick IOTE:	le cell anaemia) also lower the E re protein (C-RP) are both marker	SR.		mantes. some changes in red cen shape (such
 Generally, ESR doe CRP is not affected If the ESR is elevat 	es not change as rapidly as does (I by as many other factors as is ES red, it is typically a result of two t ave a higher ESR, and menstruatic	CRP, either at the s R, making it a bett e types of proteins, g	er marker of inflammation. lobulins or fibrinogen.	
Drugs such as dex	tran, methyldopa, oral contracep nd quinine may decrease it	tives, penicillamin	e procainamide, theophyll	ine, and vitamin A can increase ESR, while

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

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







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BARCODE NO.	: 01515228	COL	LECTION DATE	: 18/Aug/2024 09:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 18/Aug/2024 09:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTRY	/BIOCHEMISTR	Y
			TING (F)	
		GLUCOSE FAS		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 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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00 3001 . 2000 CENT				
		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER	: Mrs. NAVNEET KAUR : 40 YRS/FEMALE	DATI	ENT ID	: 1583993
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA			
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		185.64	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	63.21	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		72.61	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5		100.39	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 CHOLESTE by CALCULATED, SPE		113.03	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 by CALCULATED, SPE		12.64	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU by CALCULATED, SPE		434.49	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	2.56	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: SEF by CALCULATED, SPE		1.38	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
		٨		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		0.87 ^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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		5
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION 1	TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.76	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.19	mg/dL	0.00 - 0.40
	(UNCONJUGATED): SERUM	0.57	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	16.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	18.1	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.93	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		78.64	U/L	40.0 - 130.0
	_ TRANSFERASE (GGT): SERUM PHTOMETRY	9.59	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	6.96	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.36	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.6	gm/dL	2.30 - 3.50
		1 / 0	DATIO	1 00 2 00

Dr. Vinay Chopra

A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5

1.68





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RATIO

1.00 - 2.00

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Test Name		Value	Unit	Biological Reference in	nterval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

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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 care@koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Cl MD (Pathology Chairman & Col			(Pathology)
NAME	: Mrs. NAVNEET KAUR			
AGE/ GENDER	: 40 YRS/FEMALE		PATIENT ID	: 1583993
COLLECTED BY	:		REG. NO./LAB NO.	: 012408180016
REFERRED BY	:		REGISTRATION DATE	: 18/Aug/2024 08:10 AM
BARCODE NO.	:01515228		COLLECTION DATE	: 18/Aug/2024 09:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Aug/2024 10:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	К	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		31.73	mg/dL	10.00 - 50.00
-	ATE DEHYDROGENASE (GLDH)	0.00		0.40, 1.00
CREATININE: SERUN by ENZYMATIC, SPEC	-	0.98	mg/dL	0.40 - 1.20
BLOOD UREA NITRO	gen (bun): serum	14.83	mg/dL	7.0 - 25.0
by CALCULATED, SPE		15 10	DATIO	10.0.00.0
RATIO: SERUM	GEN (BUN)/CREATININE	15.13	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		32.38	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	4.88	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	E PEROXIDASE	4.00	Thy/dL	2.30 - 0.00
CALCIUM: SERUM		9.88	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.23	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	0.20	ing/ de	2.00 1.10
ELECTROLYTES				
SODIUM: SERUM		138.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		3.89	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		5.07	THINO/ L	0.00 - 0.00
CHLORIDE: SERUM		104.1	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	'E ELECTRODE) RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	74.0		
(eGFR): SERUM	κυίας filieκατισιν κατε	74.8		
by CALCULATED				

by CALCULATED

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)

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 0171-2643898, +91 99910 43898
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		Chopra ty & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultan	(Pathology)	
AME	: Mrs. NAVNEET KAUR				
GE/ GENDER	: 40 YRS/FEMALE	РАТ	IENT ID	: 1583993	
OLLECTED BY			. NO./LAB NO.	: 012408180016	
	·				0.116
EFERRED BY	:		ISTRATION DATE	: 18/Aug/2024 08:1	
SARCODE NO.	:01515228		LECTION DATE	: 18/Aug/2024 09:0	4AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 18/Aug/2024 10:0	3AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
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 GLOMERL CKD STAGE	nd starvation. b. creased urea synthesis. urea rather than creatinine c monemias (urea is virtually a of inappropiate antidiuretic ha 10:1) WITH INCREASED CREATI py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio apy (interferes with creatinin JLAR FILTERATION RATE: DESCRIPTIO	bsent in blood). armone) due to tubular se ININE: creatine to creatinine). e increase in creatinine w b). e measurement). IN GFR (mL/m	ecretion of urea. ith certain methodolo in/1.73m2) AS	SOCIATED FINDINGS	ıl ratio when dehydratic
G1	Normal kidney fu			No proteinuria	4
G2	Kidney damage			resence of Protein,	
C20	normal or high Mild decrease i			umin or cast in urine	4
G3a G3b	Mild decrease in Moderate decrease		-89 59		4
GSD		in CED 1E			4

∎ [0

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

<15









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. NAVNEET KAUR		
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Test Name		/alue 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







		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE. : KO	S DIAGNOSTIC LAB	R	EPORTING DATE	: 18/Aug/2024 10:03AM
CLIENT ADDRESS : 634 Test Name	49/1, NICHOLSON ROAI), AMBALA CANTT Value	Unit	Biological Reference interval
		IRON P	ROFILE	
IRON: SERUM by FERROZINE, SPECTROPH	OTOMETRY	83	μg/dL	37.0 - 145.0
UNSATURATED IRON BIND SERUM by FERROZINE, SPECTROPH	ING CAPACITY (UIBC)	232.7	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAP SERUM	ACITY (TIBC)	315.7	μg/dL	230 - 430
%TRANSFERRIN SATURATI by CALCULATED, SPECTROP	ON: SERUM	26.29	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY		224.15	mg/dL	200.0 - 350.0
INTERPRETATION:- VARIABLES		CHRONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT

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	
IDON.				

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

 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.





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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name		Value ENDOCRINO		Biological Reference interval
Test Name			LOGY	Biological Reference interval
TRIIODOTHYRONIN	e (T3): Serum	ENDOCRINO THYROID FUNCTION 0.736	LOGY	Biological Reference interval 0.35 - 1.93
TRIIODOTHYRONINI <i>by cmia (chemilumii</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	ENDOCRINO THYROID FUNCTION 0.736 SSAY) 6.67	LOGY TEST: TOTAL	
TRIIODOTHYRONINI by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT	e (T3): serum <i>nescent microparticle immunoas</i> rum	ENDOCRINO THYROID FUNCTION 0.736 SSAY) 6.67	LOGY TEST: TOTAL ng/mL	0.35 - 1.93

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	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.

TRIIODOTH	DOTHYRONINE (T3) THYROXINE (T4)		THYROXINE (T3) THYROXINE (T4) THYROID STIMULATING HORMONE			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	



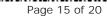


DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA

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









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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	
Test Name	Value	Unit	Biological Reference interval

Test Name			Value Unit			Biological Reference in
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	
	RECC	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)	•	
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, 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





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Test Name		Value	Unit	Biological Reference interval
	ROXY VITAMIN D3): SERU ESCENCE IMMUNOASSAY)	VITAMIN D/25 H	AMINS YDROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				TOXIGIT 1. > 100.0
DEFIC		< 20		g/mL
INSUFF PREFFERE		<u>21 - 29</u> 30 - 100		g/mL
INTOXIC		> 100		g/mLg/mL
conversion of 7- dihyc 2.25-OHVitamin D re- tissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorptii 4.Severe deficiency m DECREASED: 1.Lack of sunshine ext 2.Inadeguate intake, r 3.Depressed Hepatic N 4.Secondary to advanc 5.Osteoporosis and Se 6.Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D severe hypercalcemia CAUTION: Replacemer hypervitaminosis D	drocholecalciferol to Vitame epresents the main body re- nd by a transport protein "imary role in the mainten on, skeletal calcium depos ay lead to failure to miner bosure. malabsorption (celiac dise Vitamin D 25- hydroxylase ced Liver disease econdary Hyperparathroid ugs: anti-epileptic drugs lif is Rare, and is seen only a and hyperphophatemia. It therapy in deficient indi	hin D3 in the skin upon esevoir and transport for while in circulation. ance of calcium homeo- sition, calcium mobiliza ralize newly formed ost activity ism (Mild to Moderate ke phenytoin, phenoba fter prolonged exposur- viduals must be monitor	Ultraviolet exposure. form of Vitamin D and trans ostatis. It promotes calciur tion, mainly regulated by p teoid in bone, resulting in r deficiency) rbital and carbamazepine, re to extremely high doses pred by periodic assessmer	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). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in it of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>





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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
INTERPRETATION:- INCREAS 1.Ingestion of Vitam	ED VITAMIN B12	1.Pregnar		I B12			
INCREAS				I B12			
2.Ingestion of Vitamin C			2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitamin A			3.Ethanol Igestion				
4.Hepatocellular injury			4. Contraceptive Harmones				
			5.Haemodialysis				
5.Myeloproliferativ	e disorder						
5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal	e disorder amin) is necessary for hem ained only from animal pro	6. Multip atopoiesis and normal r	le Myeloma neuronal function.				





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	Dr. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD EO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. NAVNEET KAUR : 40 YRS/FEMALE : : : 01515228 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	COLLECT REPORTI		: 1583993 : 012408180016 : 18/Aug/2024 08:10 AM : 18/Aug/2024 09:04AM : 18/Aug/2024 10:38AM
Test Name		Value	Unit	Biological Reference interval
<u>Physical examina</u>		CLINICAL PATHO		ΓΙΟΝ
COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 AMBER YELLOW CLEAR 1.01	ml	PALE YELLOW CLEAR 1.002 - 1.030
REACTION by DIP STICK/REFLEC PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative 6 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)
KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative Negative NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

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BARCODE NO.	:01515228	COLLECTION DATE REPORTING DATE		: 18/Aug/2024 09:04AM : 18/Aug/2024 10:38AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	ABSENT

NEGATIVE (-ve) NEGATIVE (-ve) CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT 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)

 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

