

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	MI	m Chopra D (Pathology) nt Pathologist	
NAME : Mi	rs. RAMA SAINI				
AGE/ GENDER : 51	YRS/FEMALE		PATIENT ID	: 161267	0
COLLECTED BY :			REG. NO./LAB NO.	:01240	9140007
REFERRED BY :			REGISTRATION DATE	:14/Sep/	/2024 07:38 AM
BARCODE NO. :01	516920		COLLECTION DATE	:14/Sep/	/2024 08:02AM
CLIENT CODE. : KC	S DIAGNOSTIC LAB		REPORTING DATE	:14/Sep/	/2024 08:49AM
CLIENT ADDRESS : 63	49/1, NICHOLSON ROAD, AMB	ALA CANTT	<u>.</u>		
Test Name		Value	Unit		Biological Reference interval
	SWAST	THYA WE	ELLNESS PANEL: 1.5	5	
	COM	IPLETF BI	OOD COUNT (CBC)		
RED BLOOD CELLS (RBCS)			(020)		
HAEMOGLOBIN (HB)		11.2 ^L	gm/dL		12.0 - 16.0
RED BLOOD CELL (RBC) CO		5.29 ^H	Millions	s/cmm	3.50 - 5.00
PACKED CELL VOLUME (PC	NING, ELECTRICAL IMPEDENCE	36.7 ^L	%		37.0 - 50.0
by CALCULATED BY AUTOM	ATED HEMATOLOGY ANALYZER	30.7			
MEAN CORPUSCULAR VOL	.UME (MCV) IATED HEMATOLOGY ANALYZER	69.4 ^L	fL		80.0 - 100.0
MEAN CORPUSCULAR HAR	EMOGLOBIN (MCH)	21.1 ^L	pg		27.0 - 34.0
MEAN CORPUSCULAR HEN	ATED HEMATOLOGY ANALYZER MOGLOBIN CONC. (MCHC) NATED HEMATOLOGY ANALYZER	30.5 ^L	g/dL		32.0 - 36.0
RED CELL DISTRIBUTION V		16.4 ^H	%		11.00 - 16.00
RED CELL DISTRIBUTION V		42.5	fL		35.0 - 56.0
MENTZERS INDEX	ATED HEIMATOLOG TAWAETEEN	13.12	RATIO		BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated		21.44	RATIO		BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WB	<u>CS)</u>				
TOTAL LEUCOCYTE COUNT by FLOW CYTOMETRY BY SH		6240	/cmm		4000 - 11000
NUCLEATED RED BLOOD C	. ,	NIL			0.00 - 20.00
NUCLEATED RED BLOOD C	ELLS (nRBCS) % Ated hematology analyzer	NIL	%		< 10 %
NEUTROPHILS by flow cytometry by SP		54	%		50 - 70

57 $\odot n$



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NAME	: Mrs. RAMA SAINI			
AGE/ GENDER	: 51 YRS/FEMALE	PATI	ENT ID	: 1612670
COLLECTED BY	:	REG.	NO./LAB NO.	: 012409140007
REFERRED BY	:	REGI	STRATION DATE	: 14/Sep/2024 07:38 AM
BARCODE NO.	:01516920		ECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 14/Sep/2024 08:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
	,			
Test Name		Value	Unit	Biological Reference interval
	Y BY SF CUBE & MICROSCOPY	32	%	20 - 40
EOSINOPHILS		8 ^H	%	1 - 6
by FLOW CYTOMETR MONOCYTES	Y BY SF CUBE & MICROSCOPY	4	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	6	70	2 - 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTRO	PHIL COUNT y by sf cube & microscopy	3370	/cmm	2000 - 7500
ABSOLUTE LYMPHO		1997	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	.,,,,	701111	
ABSOLUTE EOSINOP		499 ^H	/cmm	40 - 440
ABSOLUTE MONOCY	y by sf cube & microscopy /TF COUNT	374	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY		,	
ABSOLUTE BASOPHI		0	/cmm	0 - 110
-	Y BY SF CUBE & MICROSCOPY HER PLATELET PREDICTIVE MARKE	DC		
PLATELET COUNT (P		<u>267000</u>	/cmm	150000 - 450000
	ET) FOCUSING, ELECTRICAL IMPEDENCE	207000	/cmm	130000 - 430000
PLATELETCRIT (PCT)		0.33	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE		C.	(50, 10,0
MEAN PLATELET VO	LUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	12 ^H	fL	6.50 - 12.0
PLATELET LARGE CEI		119000 ^H	/cmm	30000 - 90000
PLATELET LARGE CEI		44.6	%	11.0 - 45.0
PLATELET DISTRIBU by HYDRO DYNAMIC F	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.9	%	15.0 - 17.0
NOTE: TEST CONDU	ICTED ON EDTA WHOLE BLOOD			





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NAME	: Mrs. RAMA SAINI			
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BARCODE NO.	:01516920		COLLECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Sep/2024 02:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	:	
Test Name		Value	Unit	Biological Reference interval
	GLYC	OSYLATED H	AEMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	5.9	%	4.0 - 6.4
ESTIMATED AVERAGE		122.63	mg/dL	60.00 - 140.00
	AS PER AMERICAN I			
	REFERENCE GROUP	G	LYCOSYLATED HEMOGLOGI	3 (HBAIC) in %
	abetic Adults >= 18 years		<5.7	
	t Risk (Prediabetes)	_	5.7 - 6.4	
D	iagnosing Diabetes		>= 6.5	
		Goal	Age > 19 Years s of Therapy:	< 7.0
Therapeut	ic goals for glycemic control		ns Suggested:	>8.0
			Age < 19 Years	
		Goa	l of therapy:	<7.5

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

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

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

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

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

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



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 14/Sep/2024 09:04AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMEN	TATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	29 ^H	mm/1st	hr 0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitio ected by other conditions besides be used to monitor disease activ	ner exactly where the inflammation. For this	inflammation is in the reason, the ESR is ty	tion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as

CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as devicen, methylicity and contracentives.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	
GLUCOSE FASTING (F by glucose oxidasi): PLASMA e - peroxidase (god-pod)	98.68	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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BARCODE NO.	:01516920	CO	LLECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 14/Sep/2024 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	E : BASIC	
CHOLESTEROL TOTA	L: SERUM	135.96	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		3.4	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER		146.66	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM		40.62	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ON			BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S		66.01	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLESTE		95.34	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		29.33	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN		418.58	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY			
CHOLESTEROL/HDL F		3.35	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	GINOFHUIUMEIRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
LDL/HDL RATIO: SER		1.63	RATIO	LOW RISK: 0.50 - 3.0
by CALCULATED, SPE	CTROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0
				HIGH RISK: > 6.0

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 14/Sep/2024 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	L RATIO: SERUM	3.61	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

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 recommended.

3. 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. 4. 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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	ABALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
	C (UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		19.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	10.2	U/L	0.00 - 49.00
	RIDOXAL PHOSPHATE	10.2	0/1	0.00 - 49.00
AST/ALT RATIO: SER		1.88	RATIO	0.00 - 46.00
	ECTROPHOTOMETRY			
ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL	NTASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	135.01 ^H	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	16.71	U/L	0.00 - 55.0
by SZASZ, SPECTRO				
TOTAL PROTEINS: SI by BIURET, SPECTRO		7.25	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.4	gm/dL	3.50 - 5.50
by BROMOCRESOL G	REEN		Ū	
GLOBULIN: SERUM		2.85	gm/dL	2.30 - 3.50
	ECTROPHOTOMETRY	1 5 4		1.00 2.00
A : G RATIO: SERUN	I ECTROPHOTOMETRY	1.54	RATIO	1.00 - 2.00

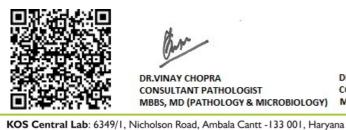
by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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



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Test Name	Va	lue Unit	Biological Reference interval

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).

PROGNOSTIC	SIGNIFICANCE:

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



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Test Name		Value	Unit	Biological Reference interval
	КІ	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		22.32	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)		3	
CREATININE: SERUN		0.88	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		10.42	ma/dl	7.0 25.0
BLOOD UREA NITRO by CALCULATED, SPE		10.43	mg/dL	7.0 - 25.0
-	GEN (BUN)/CREATININE	11.85	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE		05.04	DATIO	
UREA/CREATININE F by CALCULATED, SPE		25.36	RATIO	
URIC ACID: SERUM		5.05	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE		J	
CALCIUM: SERUM		9.47	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.47	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.47	nig/uL	2.30 - 4.70
<u>ELECTROLYTES</u>				
sodium: serum		141.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUM		3.98	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	E ELEGIKUDE)	105.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)	100.7	HIIIO//L	70.0 110.0
	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	79.5		
(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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)	ugam Chopra MD (Pathology) sultant Pathologist
NAME	: Mrs. RAMA SAINI		
AGE/ GENDER	: 51 YRS/FEMALE	PATIENT ID	: 1612670
COLLECTED BY		REG. NO./LAB NO.	: 012409140007
REFERRED BY	:	REGISTRATION DA	
BARCODE NO.	: 01516920	COLLECTION DATE	E : 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value Unit	t Biological Reference interval
5. Repeated dialysis (6. Inherited hyperam	e. creased urea synthesis. urea rather than creatinine diffus nonemias (urea is virtually absen f inappropiate antidiuretic harmo	nt in blood). one) due to tubular secretion of urea.	
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	by (accelerates conversion of create eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incl creased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION	atine to creatinine). rease in creatinine with certain meth easurement). GFR (mL/min/1.73m2)	nodologies,resulting in normal ratio when dehydrati ASSOCIATED FINDINGS
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	by (accelerates conversion of create eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incon- creased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney functi	atine to creatinine). rease in creatinine with certain meth easurement). GFR (mL/min/1.73m2) ion >90	ASSOCIATED FINDINGS No proteinuria
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	by (accelerates conversion of create eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incompare sis (acetoacetate causes fa	atine to creatinine). rease in creatinine with certain meth easurement). GFR (mL/min/1.73m2) ion >90 h >90	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,
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 G2	by (accelerates conversion of create eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false inclust creased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney functi Kidney damage with normal or high GFR	atine to creatinine). rease in creatinine with certain meth easurement). GFR (mL/min/1.73m2) ion >90 h >90 A	ASSOCIATED FINDINGS No proteinuria
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	by (accelerates conversion of create eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incompare sis (acetoacetate causes fa	atine to creatinine). rease in creatinine with certain meth easurement). GFR (mL/min/1.73m2) ion >90 h >90 R 60 -89	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,

G4

G5

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Severe decrease in GFR

Kidney failure

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15-29

<15

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	Dr. Vinay Chopra MD (Pathology & Microbiolog ₎ Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. RAMA SAINI		
AGE/ GENDER	: 51 YRS/FEMALE	PATIENT ID	: 1612670
COLLECTED BY	:	REG. NO./LAB NO.	: 012409140007
REFERRED BY	:	REGISTRATION DATE	: 14/Sep/2024 07:38 AM
BARCODE NO.	: 01516920	COLLECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	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



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	M		opra Microbiology) sultant Pathologis		(Pathology)
NAME	: Mrs. RAMA SA	INI			
AGE/ GENDER	: 51 YRS/FEMAL	E		PATIENT ID	: 1612670
COLLECTED BY	:			REG. NO./LAB NO.	: 012409140007
REFERRED BY	:			REGISTRATION DATE	: 14/Sep/2024 07:38 AM
BARCODE NO.	:01516920			COLLECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOST	TIC LAB		REPORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	I PROFILE	
IRON: SERUM	CTROPHOTOMETRY		32.1 ^L	μg/dL	37.0 - 145.0
UNSATURATED IROI SERUM			356.31 ^H	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	IG CAPACITY (TIBC)		388.41	μg/dL	230 - 430
%TRANSFERRIN SAT by CALCULATED, SPI	URATION: SERUM	-	8.26 ^L	%	15.0 - 50.0
TRANSFERRIN: SERL by SPECTROPHOTOM	JM	. ,	275.77	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB			IRONIC DISEASE	IRON DEFICIENCY ANEM	IA 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:

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 PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	obiology)		(Pathology)
: Mrs. RAMA SAINI			
: 51 YRS/FEMALE		PATIENT ID	: 1612670
:		REG. NO./LAB NO.	: 012409140007
:		REGISTRATION DATE	: 14/Sep/2024 07:38 AM
:01516920		COLLECTION DATE	: 14/Sep/2024 08:02AM
: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Sep/2024 10:45AM
	Value	Unit	Biological Reference interval
	ENDOC	RINOLOGY	
THYR	OID FUN	CTION TEST: TOTAL	
. ,	0.859	ng/mL	0.35 - 1.93
	7.33	μgm/dL	4.87 - 12.60
SCENT MICROPARTICLE IMMUNOASSAY)	2.206	μIU/mL	0.35 - 5.50
	MD (Pathology & Micro Chairman & Consultan : Mrs. RAMA SAINI : 51 YRS/FEMALE : : : 01516920 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA	MD (Pathology & Microbiology) Chairman & Consultant Pathologis : Mrs. RAMA SAINI : 51 YRS/FEMALE : : : 01516920 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value (T3): SERUM (T3): SERUM (T	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD CEO & Consultant : Mrs. RAMA SAINI : 51 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01516920 COLLECTION DATE : 01516920 COLLECTION DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Value Unit CENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL (T3): SERUM 0.859 ng/mL ESCENT MICROPARTICLE IMMUNOASSAY) UM 7.33 µgm/dL ESCENT MICROPARTICLE IMMUNOASSAY) NG HORMONE (TSH): SERUM 2.206 µlU/mL

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	(RONINE (T3)	THYROXINE (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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		u gam Chopra MD (Pathology) sultant Pathologist	
NAME	: Mrs. RA	MA SAINI				
AGE/ GENDER	: 51 YRS/F	EMALE		PATIENT ID	: 1612670	
COLLECTED BY	:			REG. NO./LAB NO.	:0124091	40007
REFERRED BY	:			REGISTRATION DA	TE : 14/Sep/20	24 07:38 AM
BARCODE NO.	:0151692	0		COLLECTION DATE	: 14/Sep/20	24 08:02AM
CLIENT CODE.	: KOS DIA	GNOSTIC LAB		REPORTING DATE	:14/Sep/20	24 10:45AM
CLIENT ADDRES	S : 6349/1,	NICHOLSON ROAD, A	AMBALA CANTT			
Test Name			Value	Unit	t Bio	ological 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	VIENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME	: Mrs. RAMA SAINI			
AGE/ GENDER	: 51 YRS/FEMALE		PATIENT ID	: 1612670
COLLECTED BY	:		REG. NO./LAB NO.	: 012409140007
REFERRED BY	:		REGISTRATION DATE	: 14/Sep/2024 07:38 AM
BARCODE NO.	:01516920		COLLECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Sep/2024 10:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
		VITAMIN D/25	HYDROXY VITAMIN D3	
,	ROXY VITAMIN D3): SERUI IESCENCE IMMUNOASSAY)	M 39.4	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
ΝΤΕΡΡΡΕΤΔΤΙΩΝ΄				TOXICITY: > 100.0
	CIENT:	< 20		
DEFI INSUF	FICIENT:	21 - 29	r	TOXICITY: > 100.0 ng/mL
INSUF PREFFER INTOX 1.Vitamin D compou	FICIENT: ED RANGE: ICATION:	21 - 29 30 - 100 > 100 y ergocalciferol (fror	n plants, Vitamin D2), or chu	TOXICITY: > 100.0





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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mrs. RAMA SAINI				
AGE/ GENDER	: 51 YRS/FEMALE	PAT	IENT ID	: 1612670	
COLLECTED BY	:	REG	NO./LAB NO.	: 012409140007	
REFERRED BY			ISTRATION DATE	: 14/Sep/2024 07:38 AM	
BARCODE NO.	: 01516920		LECTION DATE	•	
				: 14/Sep/2024 08:02AM	
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM		ORTING DATE	: 14/Sep/2024 10:48AM	
Test Name		Value	Unit	Biological Reference interval	
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOASSA	Y)			
	SED VITAMIN B12	DECREASED VITAMIN B12			
1.Ingestion of Vitan 2.Ingestion of Estro		1.Pregnancy	rin Anti convulsante	Colchicipo	
3.Ingestion of Vitan			2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion		
4.Hepatocellular in		- U	otive Harmones		
5.Myeloproliferativ			5.Haemodialysis		
6.Uremia	amin) is necessary for hematopoies	6. Multiple M			
	ained only from animal proteins an			tion	

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME : Mrs. RAMA SAINI				
AGE/ GENDER	: 51 YRS/FEMALE	RS/FEMALE PAT		: 1612670
COLLECTED BY	:		NO./LAB NO.	: 012409140007
REFERRED BY	:		ISTRATION DATE	: 14/Sep/2024 07:38 AM
BARCODE NO.	: 01516920	COLI	LECTION DATE	: 14/Sep/2024 08:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 14/Sep/2024 10:26AM
CLIENT ADDRESS	NT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval
CLINICAL PATHOLOGY				
URINE ROUTINE & MICROSCOPIC EXAMINATION				
PHYSICAL EXAMINATION				
		10		
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		ANDER TELEOV		
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		<=1.005		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		5.0		
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		nogativo		
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		N a mus a l	E117-0	0.0.1.0
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		- <u>g</u>		
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

ABSENT

MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. RAMA SAINI AGE/ GENDER : 51 YRS/FEMALE **PATIENT ID** :1612670 **COLLECTED BY** :012409140007 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 14/Sep/2024 07:38 AM **BARCODE NO.** :01516920 **COLLECTION DATE** :14/Sep/2024 08:02AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :14/Sep/2024 10:26AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** NEGATIVE (-ve) **RED BLOOD CELLS (RBCs)** /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS 1-3 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS /HPF ABSENT 2-4 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) **NEGATIVE** (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS NEGATIVE (-ve) NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT





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