



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD (CEO & Consultant	Pathology)
NAME : M	rs. KAVITA KAPOOR			
AGE/ GENDER : 51	YRS/FEMALE	PA	ATIENT ID	: 1621397
COLLECTED BY : SU	RJESH	RI	EG. NO./LAB NO.	: 012409220028
REFERRED BY :		RI	EGISTRATION DATE	: 22/Sep/2024 09:18 AM
BARCODE NO. : 01	517463	CC	DLLECTION DATE	: 22/Sep/2024 09:20AM
CLIENT CODE. : KO	OS DIAGNOSTIC LAB	RI	EPORTING DATE	: 22/Sep/2024 09:30AM
CLIENT ADDRESS : 63	49/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA WELL	NESS PANEL: 1.5	
			D COUNT (CBC)	
RED BLOOD CELLS (RBCS)			,	
HAEMOGLOBIN (HB) by CALORIMETRIC		12	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) CO	OUNT ING, ELECTRICAL IMPEDENCE	4.43	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUME (PO		38.2	%	37.0 - 50.0
MEAN CORPUSCULAR VOI		86.3	fL	80.0 - 100.0
MEAN CORPUSCULAR HAI		27.2	pg	27.0 - 34.0
MEAN CORPUSCULAR HEI	MOGLOBIN CONC. (MCHC) MATED HEMATOLOGY ANALYZER	31.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION \		14.1	%	11.00 - 16.00
RED CELL DISTRIBUTION \		45.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	ATED HEIWATOLOGT AWALTZER	19.48	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated		27.58	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 S		6260	/cmm	4000 - 11000
NUCLEATED RED BLOOD (by AUTOMATED 6 PART HEI	· /	NIL		0.00 - 20.00
NUCLEATED RED BLOOD (NIL	%	< 10 %
DIFFERENTIAL LEUCOCYTE				
		59	%	50 - 70

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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BARCODE NO.	:01517463		LLECTION DATE	: 22/Sep/2024 09:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 22/Sep/2024 09:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		1
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		30	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	3	%	1 - 6
	RY BY SF CUBE & MICROSCOPY	0	70	1 0
MONOCYTES		8	%	2 - 12
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
	RY BY SF CUBE & MICROSCOPY	Ŭ	10	0
ABSOLUTE LEUKOC	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO		3693	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY	1070	lamm	800 4000
ABSOLUTE LYMPH	JUTTE COUNT RY BY SF CUBE & MICROSCOPY	1878	/cmm	800 - 4900
ABSOLUTE EOSINO		188	/cmm	40 - 440
	RY BY SF CUBE & MICROSCOPY	501		22. 222
ABSOLUTE MONOC	YTE COUNT RY BY SF CUBE & MICROSCOPY	501	/cmm	80 - 880
ABSOLUTE BASOPH		0	/cmm	0 - 110
	RY BY SF CUBE & MICROSCOPY			
	THER PLATELET PREDICTIVE MARKE	_		
	PLT) © FOCUSING, ELECTRICAL IMPEDENCE	216000	/cmm	150000 - 450000
PLATELETCRIT (PCT		0.28	%	0.10 - 0.36
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET V	OLUME (MPV) C FOCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
PLATELET LARGE C		104000 ^H	/cmm	30000 - 90000
PLATELET LARGE C		47.9 ^H	%	11.0 - 45.0
	JTION WIDTH (PDW)	16.4	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST COND	UCTED ON EDTA WHOLE BLOOD			





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BARCODE NO.	: 01517463		COLLECTION DATE	: 22/Sep/2024 09:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Sep/2024 03:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		· · · · ·
Test Name		Value	Unit	Biological Reference interval
	GLYC	OSYLATED H	AEMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFOR	NOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	5.2	%	4.0 - 6.4
ESTIMATED AVERAGE		102.54	mg/dL	60.00 - 140.00
	AS PER AMERICAN D	DIABETES ASSOCI	ATION (ADA):	
-	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		B (HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
Thorapout	ic goals for glycemic control		s of Therapy:	< 7.0
merapeut	ic goals for gryceniic control	Action	ns Suggested:	>8.0
		Age < 19 Years Goal of therapy:		

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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BARCODE NO.	:01517463	C	OLLECTION DATE	: 22/Sep/2024 09:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 22/Sep/2024 09:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIM	ENTATION RATE (ESF	8
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	12	mm/1st hi	
systemic lupus erytho CONDITION WITH LOV A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	ematosus N ESR n with conditions that inhibit the ificantly high white blood cell cou- e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does Cl by as many other factors as is ESR ed, it is typically a result of two ty ve a higher ESR, and menstruation	normal sedimenta unt (leucocytosis), R. of inflammation. RP, either at the st 2, making it a bette ges of proteins, glu n and pregnancy ca	tion of red blood cells, su , and some protein abnor art of inflammation or as r marker of inflammation obulins or fibrinogen. n cause temporary eleval	malities. Šome changes in red cell shape (suc it resolves.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 22/Sep/2024 12:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS		

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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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Page 5 of 20





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BARCODE NO.	:01517463	COLL	ECTION DATE	: 22/Sep/2024 09:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 22/Sep/2024 11:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		157.67	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	71.39	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.		49.6	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		93.79	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		108.07	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by calculated, spe		14.28	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI by Calculated, spe	N	386.73	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	ratio: serum	3.18	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: SER by calculated, spe		1.89	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.44 ^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, AI			1
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: S by diazotization, si		0.49	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
	(UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	18.85	U/L	7.00 - 45.00
SGPT/ALT: SERUM		21.64	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.87	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		136.52 ^H	U/L	40.0 - 130.0
	. TRANSFERASE (GGT): SERUM	50.53	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	6.95	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.59	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		3.36	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.07	RATIO	1.00 - 2.00

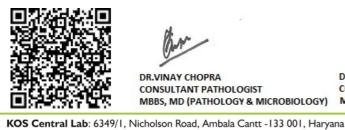
by CALCULATED, SPECTROPHOTOMETRY

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		Value 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).

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		26.93	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.81	mg/dL	0.40 - 1.20
-	DGEN (BUN): SERUM	12.58	mg/dL	7.0 - 25.0
by CALCULATED, SPE				
BLOOD UREA NITRC RATIO: SERUM	OGEN (BUN)/CREATININE	15.53	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		33.25	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	4.88	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	4.00	IIIg/uL	2.30 - 0.80
CALCIUM: SERUM		9.61	mg/dL	8.50 - 10.60
<i>by arsenazo III, spe</i> PHOSPHOROUS: SEF		3.36	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.50	my/uL	2.30 - 4.70
ELECTROLYTES				
sodium: serum		141.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUN		4.24	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		4.24	THINOI/L	3.30 - 3.00
CHLORIDE: SERUM		106.13	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE) I RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	87.8		
(eGFR): SERUM		07.0		
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 & Chairman & Cons	Microbiology)	gist CEO & Consultant Pathologist		
NAME	: Mrs. KAVITA KAPOOR				
AGE/ GENDER	: 51 YRS/FEMALE	PATIENT	п	: 1621397	
COLLECTED BY	: SURJESH	REG. NO./	LAB NO.	:012409220028	
REFERRED BY	:	REGISTRA	TION DATE	: 22/Sep/2024 09:18	3 AM
BARCODE NO.	:01517463	COLLECTI	ON DATE	: 22/Sep/2024 09:20	DAM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	IG DATE	: 22/Sep/2024 11:12	2AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			I	
Test Name		Value	Unit	Biological	Reference interval
 Postrenal azotemia Prerenal azotemia Perenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet ai Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin the 	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffu imonemias (urea is virtually abser of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININ upy (accelerates conversion of cre eleases muscle creatinine). who develop renal failure.	ore than creatinine) (e.g. ob ses out of extracellular fluid nt in blood). one) due to tubular secretion E: atine to creatinine).). h of urea. rain methodolo		I ratio when dehydration
			im2) AS		
G1	Normal kidney funct		D	No proteinuria	
G2	Kidney damage wit			resence of Protein ,	
G3a	normal or high GFI Mild decrease in GF		AID	umin or cast in urine	
G3a G3b	Mild decrease in Gr Moderate decrease in				
G3D G4	Severe decrease in G				
04	Severe decrease in o	15-29			

G5





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

Kidney failure

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

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NAME	: Mrs. KAVITA KAPOOR		
AGE/ GENDER	: 51 YRS/FEMALE	PATIENT ID	: 1621397
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
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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Test Name		Value	Unit	Biological Reference interva
		IRON	PROFILE	
IRON: SERUM by Ferrozine, spec	TROPHOTOMETRY	48.5	μg/dL	37.0 - 145.0
UNSATURATED IRON SERUM by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	284	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	G CAPACITY (TIBC)	332.5	μg/dL	230 - 430
%TRANSFERRIN SAT		14.59 ^L	%	15.0 - 50.0
TRANSFERRIN: SERU	IM	236.08	mg/dL	200.0 - 350.0
<u>INTERPRETATION:-</u> VARIAB	ELES ANEMIA OF C	HRONIC 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

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	: 6349/1, NICHOLSON ROAD, AN	Value		Biological Reference interval
	TH	YROID FUN	CTION TEST: TOTAL	
	E (T3): SERUM VESCENT MICROPARTICLE IMMUNOASS/	0.768	ng/mL	0.35 - 1.93
THYROXINE (T4): SE		6.85	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels be	tween 2-4 a.m an timulates the pro	oduction and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

CLINICAL CONDITION T3 T4 TSH Primary Hypothyroidism: Reduced Reduced Increased (Significantly) Subclinical Hypothyroidism: Normal or Low Normal Normal or Low Normal High Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased 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	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		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 Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference interva
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 LI	EVELS DURING PREC	SNANCY (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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BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: 01517463 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA		COLLECTION DATE REPORTING DATE	: 22/Sep/2024 09:20AM : 22/Sep/2024 11:12AM		
Test Name		Value	Unit	Biological Reference interval		
	IMMUN	IOPATHO	DLOGY/SEROLOGY			
	RHEUMATOID F	ACTOR (R	A): QUANTITATIVE - S	ERUM		
RHEUMATOID (RA) F SERUM by NEPHLOMETRY	ACTOR QUANTITATIVE:	1.67	IU/mL	NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0		
 Rheumatoid factors (RF) are antibodies that are directed against the Fc fragment of IgG altered in its tertiary structure. Over 75% of patients with rheumatoid arthritis (RA) have an IgM antibody to IgG immunoglobulin. This autoantibody (RF) is diagnostically useful although it may not be etiologically related to RA. Inflammatory Markers such as ESR & C-Reactive protein (CRP) are normal in about 60 % of patients with positive RA. The titer of RF correlates poorly with disease activity, but those patients with high titers tend to have more severe disease course. The test is useful for diagnosis and prognosis of rheumatoid arthritis. RHEUMATOID ARTHIRITIS: Rheumatoid Arthritis is a systemic autoimmune disease that is multi-functional in origin and is characterized by chronic inflammation of the membrane lining (synovium) joints which ledas to progressive joint destruction and in most cases to disability and reduction of quality life. The disease spredas from small to large joints, with greatest damage in early phase. The disease spredas from small to large joints, as it is often present in healthy individuals with other autoimmune diseases and chronic infections. Af factor is not specific for Rheumatoid arthritis, as it is often present in healthy individuals with other autoimmune diseases and chronic infections. Non rheumatoid and rheumatoid arthritis, (RA) populations are not clearly separate with regard to the presence of rheumatoid factor (RF) (15% of RA patients have a nonreactive titer and 8% of nonrheumatoid patients have a positive titer). Patients have a nonrheumatoid diseases, characterized by chronic inflammation may have positive tests for RF. These diseases include systemic lupus erythematosus, polymyositis, tuberculosis, syphilis, viral hepatitis, infectious mononucleosis, and influenza. Anti-CCP have been discovered in joints of pat						
6. The positive predicti	ts with Seronegative Rheumatoid arthir. ive value of Anti-CCP antibodies for Rheu	ımatoid Artı	hiritis is far greater than Rhe	eumatoid factor.		

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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LIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITAMIN D/25 H	AMINS YDROXY VITAMIN D3	
by CLIA (CHEMILUMI	DROXY VITAMIN D3): SE NESCENCE IMMUNOASSA		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u>	ICIENT:	< 20		ı/mL
	FICIENT:	21 - 29		j/mL
	ED RANGE:	30 - 100	nç	j/mL j/mL
25-OHVitamin D i issue and tightly bo .Vitamin D plays a p hosphate reabsorp .Severe deficiency i DECREASED: .Lack of sunshine e: .Inadeguate intake	represents the main bod und by a transport prot- primary role in the main tion, skeletal calcium de may lead to failure to mi xposure. , malabsorption (celiac o : Vitamin D 25- hydroxyl	ein while in circulation. tenance of calcium homeo position, calcium mobiliza neralize newly formed ost disease) ase activity	orm of Vitamin D and transport ostatis. It promotes calcium ation, mainly regulated by p	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and arathyroid harmone (PTH). ickets in children and osteomalacia in adults.
3. Depressed Hepatic 4. Secondary to adva 5. Osteoporosis and 5 6. Enzyme Inducing d INCREASED: 1. Hypervitaminosis severe hypercalcemi CAUTION: Replacemenypervitaminosis D	Secondary Hyperparathr lrugs: anti-epileptic drug D is Rare, and is seen on a and hyperphophatemi ent therapy in deficient i individuals as compare t	s like phenytoin, phenoba ly after prolonged exposu a. ndividuals must be monito	rbital and carbamazepine, re to extremely high doses ored by periodic assessmen	that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent iency due to excess of melanin pigment which

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CLIENT ADDRESS	: 6349/1, NICHOLSON J	ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
INTERPRETATION:-	IESCENT MICROPARTICLE IM				
	SED VITAMIN B12		DECREASED VITAMIN	B12	
1.Ingestion of Vitan 2.Ingestion of Estro		1.Pregnancy	in Anti convulsante	Colchicipo	
3.Ingestion of Vitan			2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion		
4.Hepatocellular in			4. Contraceptive Harmones		
5.Myeloproliferativ			5.Haemodialysis		
6.Uremia			6. Multiple Myeloma		
1.Vitamin B12 (coba		roteins and requires intrinsic f			

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	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
			· · · · ·		
		CLINICAL PA	THOLOGY		
	URINE RO	DUTINE & MICRO	SCOPIC EXAMINAT	ION	
PHYSICAL EXAMINA	TION				
QUANTITY RECIEVED		10	ml		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		M		
	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW	
TRANSPARANCY		CLEAR		CLEAR	
<i>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</i> SPECIFIC GRAVITY		1.01		1.002 - 1.030	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1.01		1.002 1.000	
CHEMICAL EXAMINA	ATION				
REACTION		ACIDIC			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
pH		<=5.0		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
NITRITE		Negative		NEGATIVE (-ve)	
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY				
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)	NEGATIVE (-ve)	

MICROSCOPIC EXAMINATION



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Dr. Vinay Chopra



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

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COLLECTED BY	: SURJESH	REG. NO./	/LAB NO.	: 012409220028	
REFERRED BY	:	REGISTRATION DATE COLLECTION DATE REPORTING DATE		: 22/Sep/2024 09:18 AM	
BARCODE NO.	: 01517463			: 22/Sep/2024 09:20AM : 22/Sep/2024 10:37AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB				
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	BCs) EENTRIFUGED URINARY SEDIMENT	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval	
RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS				•	
RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
RED BLOOD CELLS (F by MICROSCOPY ON O PUS CELLS by MICROSCOPY ON O EPITHELIAL CELLS by MICROSCOPY ON O CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve) 1-3	/HPF /HPF	0 - 3 0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT