

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	M	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RUBY : 50 YRS/FEMALE : SURJESH : : 01514576 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	ALA CANT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1572111 <b>: 012408060028</b> : 06/Aug/2024 09:57 AM : 06/Aug/2024 10:08AM : 06/Aug/2024 10:24AM
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA W	ELLNESS PANEL: 1.5	
	CON	IPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.1	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE	BC) COUNT	4.81	Millions	′cmm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUN	FOCUSING, ELECTRICAL IMPEDENCE /IF (PC\/)	39.2	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA	R VOLUIVIE (IVICV) AUTOMATED HEMATOLOGY ANALYZER	81.5	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	25.2 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	30.9 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	<b>automated hematology analyzer</b> TON WIDTH (RDW-CV)	15.2	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	46.4	fL	35.0 - 56.0
	AUTOMATED HEMATOLOGY ANALYZER	16.94	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	25.8	RATIO	BETA THALASSEMIA TRAIT: < = 65.0
WHITE BLOOD CELLS	S (WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE C		8610	/cmm	4000 - 11000
by FLOW CYTOMETRY NUCLEATED RED BLO	Y BY SF CUBE & MICROSCOPY	NIL		0.00 - 20.00
NUCLEATED RED BLC	DOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

**DIFFERENTIAL LEUCOCYTE COUNT (DLC)** 



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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 06/Aug/2024 10:24AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	58	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	36	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4994	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3100	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	172	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	344	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 <u><b>RS.</b></u>	/cmm	0 - 110
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	200000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.29	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	14 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	109000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	54.7 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.6	%	15.0 - 17.0



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RF	PORTING DATE	: 06/Aug/2024 02:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		3
	, , , , ,			
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEN	IOGLOBIN (HBA1C)	
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	6.2	%	4.0 - 6.4
by HPLC (HIGH PERFORM	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE	131.24	mg/dL	60.00 - 140.00
ESTIMATED AVERAGE I by HPLC (HIGH PERFORM		131.24	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	PLASMA GLUCOSE	131.24	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION:	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	ETES ASSOCIATION (AD	A):	
by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	ETES ASSOCIATION (AD	A): ED HEMOGLOGIB (HBAIC) ii	
by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	ETES ASSOCIATION (AD	A): ED HEMOGLOGIB (HBAIC) in <5.7	
by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At I	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	ETES ASSOCIATION (AD	A): ED HEMOGLOGIB (HBAIC) ii	

turnove	r, and tra	nsfusion requireme	ent that adverse	ely impact HbA1	c as a marker of	long-term gycemic contr	ol.	

Goals of Therapy

Actions Suggested

Goal of therapy

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

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

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

Age < 19 Years

< 7.0

>8.0

<7.5

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.



COMMENTS:

appropiate



Therapeutic goals for glycemic control

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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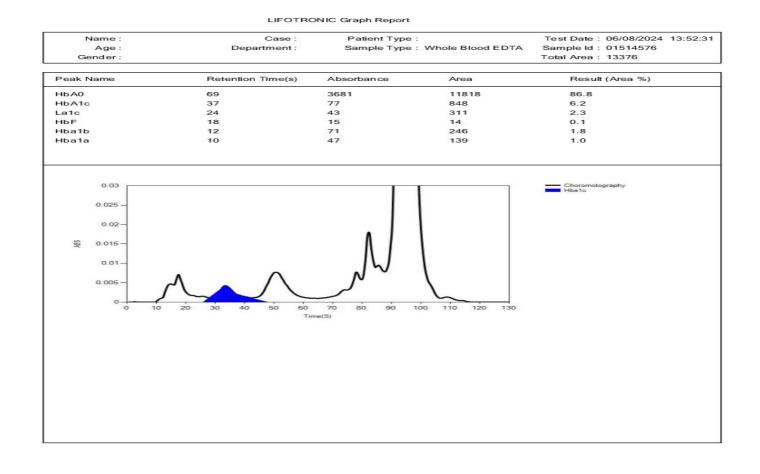
4.High







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Test Name	Val	ue Unit	<b>Biological Reference interval</b>







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTATION RATE (E	(SR)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see	does not tell the health practition cted by other conditions besides be used to monitor disease activite ematosus <b>W ESR</b> n with conditions that inhibit the	ner exactly where the inflammation is in t inflammation. For this reason, the ESR is ty and response to therapy in both of the normal sedimentation of red blood cells.	ation associated with infection, cancer and auto- the body or what is causing it. typically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count
(polycythaemia), sigr as sickle cells in sickl NOTE:	ificantly high white blood cell co e cell anaemia) also lower the Es	unt (leucocytosis) , and some protein abr SR.	normalities. Some changes in red cell shape (such

 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 dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while service contract of a structure of aspirin, cortisone, and quinine may decrease it





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		<b>GLUCOSE FAS</b>	TING (F)	

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTA	L: SERUM	158.91	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			0.1	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	150.85 <sup>H</sup>	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 INHIBITI		48.12	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		80.62	mg/dL	HIGH HDL: > OR = 60.0 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		110.79	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:		30.17	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	468.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	3.3	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		1.68	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

677 P.5.T

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.13	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 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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Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

LIVE	ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.39	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry	0.27	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM <i>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE</i>	41.3	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.59	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	119.9	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	15.07	U/L	0.00 - 55.0
OTAL PROTEINS: SERUM by biuret, spectrophotometry	6.79	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	4.01	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.44	RATIO	1.00 - 2.00

#### **INTERPRETATION**

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

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

## INCREASED:

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





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C.	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Inc	creased)

**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:
11001100110	010111110/11102.

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



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Dr. Yugam Chopra

MD (Pathology & Chairman & Con		Microbiology) sultant Pathologist	MD CEO & Consultant	(Pathology)
NAME	: Mrs. RUBY			
AGE/ GENDER	: 50 YRS/FEMALE	PAT	FIENT ID	: 1572111
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012408060028
<b>REFERRED BY</b>	:	REG	GISTRATION DATE	: 06/Aug/2024 09:57 AM
BARCODE NO.	:01514576	COL	LLECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	:06/Aug/2024 11:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ки	ONEY FUNCTION 1	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAN	MATE DEHYDROGENASE (GLDH)	34.9	mg/dL	10.00 - 50.00
CREATININE: SERUN	Λ	0.99	mg/dL	0.40 - 1.20
BLOOD UREA NITRO	OGEN (BUN): SERUM	16.31	mg/dL	7.0 - 25.0
	OGEN (BUN)/CREATININE	16.47	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
	RATIO: SERUM ECTROPHOTOMETRY	35.25	RATIO	
URIC ACID: SERUM		6.14	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		10.16	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SEF	RUM	3.53	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		139.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUN		3.71	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		3.71	THINOI/L	3.50 - 5.00
CHLORIDE: SERUM		104.7	mmol/L	90.0 - 110.0
by ISE (ION SELECTIN ESTIMATED GLOME	/E ELECTRODE)			
	RULAR FILTERATION RATE	69.5		

Dr. Vinay Chopra

# 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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultan	) (Pathology)
NAME	: Mrs. RUBY			
AGE/ GENDER	: 50 YRS/FEMALE	PA	TIENT ID	: 1572111
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Test Name		Value	Unit	Biological Reference interval
2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of	nd starvation.	e. ffuses out of extracellu sent in blood).	ılar fluid).	any,
	10:1) WITH INCREASED CREATIN			
	apy (accelerates conversion of c releases muscle creatinine).	creatine to creatinine).		
3. Muscular patients	who develop renal failure.			
NAPPROPIATE RATIC			udela a anta la na atla! - !	
	osis (acetoacetate causes faise acreased BUN/creatinine ratio).		with certain methodolo	ogies,resulting in normal ratio when dehydratic
2. Cephalosporin the	rapy (interferes with creatinine			

ESTIMATED GLOMERULAR FILTERATION RATE: CKD STAGE GFR ( mL/min/1.73m2 ) ASSOCIATED FINDINGS DESCRIPTION Normal kidney function G1 >90 No proteinuria G2 Kidney damage with >90 Presence of Protein, normal or high GFR Albumin or cast in urine G3a 60 - 89 Mild decrease in GFR G3b Moderate decrease in GFR 30-59 G4 Severe decrease in GFR 15-29 G5 Kidney failure <15





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AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1572111
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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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NAME : Mi	rs. RUBY			
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<b>BARCODE NO.</b> : 01	514576	COL	LECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE. : KC	OS DIAGNOSTIC LAB	REI	PORTING DATE	: 06/Aug/2024 11:53AM
CLIENT ADDRESS : 63	49/1, NICHOLSON ROAD, AM	/IBALA CANTT		
				<u></u>
Test Name		Value	Unit	Biological Reference interval
		IRON PR	OFILE	
IRON: SERUM by FERROZINE, SPECTROPH	HOTOMETRY	41.5	μg/dL	37.0 - 145.0
UNSATURATED IRON BINI SERUM	DING CAPACITY (UIBC)	307.07	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAF SERUM		348.57	μg/dL	230 - 430
%TRANSFERRIN SATURAT		11.91 <sup>L</sup>	%	15.0 - 50.0
TRANSFERRIN: SERUM		247.48	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

# **INTERPRETATION:-**

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

IRON:

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. 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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NAME	: Mrs. RUBY			
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BARCODE NO.	:01514576	COLL	ECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Aug/2024 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
CLIENT ADDRESS	. 0343/ 1, MEHOLSON ROAD	, AMDALA CANTI		
Test Name	. 0343/ I, NICHOLSON KOAD	Value	Unit	Biological Reference interva
				Biological Reference interva
		Value	DLOGY	Biological Reference interva
Test Name TRIIODOTHYRONIN		Value ENDOCRINC THYROID FUNCTION 1.135	DLOGY	Biological Reference interva 0.35 - 1.93
Test Name TRIIODOTHYRONIN <i>by CMIA (CHEMILUMII</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNO/	Value ENDOCRINC THYROID FUNCTION 1.135 4SSSAY) 7.29	DLOGY I TEST: TOTAL	
Test Name TRIIODOTHYRONIN by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUMII THYROID STIMULA	E (T3): SERUM Nescent microparticle immunoa RUM	Value ENDOCRINC THYROID FUNCTION 1.135 4SSAY) 7.29 4SSAY)	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93

overproduction(hyperthyroidism) of T4 and/or T3.

••••••••••••••••••••••••••••••••••••••			
CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

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

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

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

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

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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NAME	: Mrs. RUBY		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1572111
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012408060028
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:57 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	

Test Name			Value	Unit		Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	VIMENDATIONS OF TSH LI	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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	М	P <b>r. Vinay Chop</b> D (Pathology & M hairman & Consult	icrobiology)	M	<b>m Chopra</b> D (Pathology) nt Pathologist	
IAME AGE/ GENDER	: Mrs. RUBY : 50 YRS/FEMAI	E		PATIENT ID	: 1572111	
		LC.				20090
COLLECTED BY REFERRED BY	: SURJESH			REG. NO./LAB NO.	: 0124080	
BARCODE NO.	: :01514576			REGISTRATION DATE COLLECTION DATE	0	024 09:57 AM 024 10:08AM
CLIENT CODE.	: KOS DIAGNOS	TIC I AB		REPORTING DATE	8	024 11:40AM
CLIENT ADDRESS		DLSON ROAD, AM	IBALA CANTI		. 00/ 114g/ 2	
Test Name			Value	Unit	B	ological Reference interval
			VII	AMINS		
		VITAN	MIN D/25 H	IYDROXY VITAMIN D3		
/ITAMIN D (25-HYD by CLIA (CHEMILUMII			6.7 <sup>L</sup>	ng/mL	IN	EFICIENCY: < 20.0 ISUFFICIENCY: 20.0 - 30.0 JFFICIENCY: 30.0 - 100.0
						DYFICIENCY: 50.0 - 100.0 DXICITY: > 100.0
	CIENT		< 20		Т	
DEFI	CIENT: FICIENT:		< 20 21 - 29			
INSUF PREFFERI INTOXI 1.Vitamin D compour	FICIENT: ED RANGE: ICATION: nds are derived fro	pm dietary ergoca	21 - 29 30 - 100 > 100 Iciferol (from		ng/mL ng/mL ng/mL ng/mL	





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			DRIING DATE	. 00/ Aug/ 2024 11.40AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CAN I I			
Test Name /ITAMIN B12/COBA by CMIA (CHEMILUMIN	AMIN: SERUM	Value VITAMIN B12/Co 190 VOASSAY)	Unit DBALAMIN pg/mL	Biological Reference interval	
/ITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUN	VITAMIN B12/C0 190	DBALAMIN pg/mL	190.0 - 890.0	
/ITAMIN B12/COBA by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS	ESCENT MICROPARTICLE IMMUN	VITAMIN B12/CO 190 VOASSAY)	OBALAMIN	190.0 - 890.0	
ITAMIN B12/COBA by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 iin C	VITAMIN B12/CO 190 VOASSAY) 1.Pregnancy	DBALAMIN pg/mL	190.0 - 890.0	
ITAMIN B12/COBA by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 in C jen in A	VITAMIN B12/CO 190 VOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants ition	190.0 - 890.0	
/ITAMIN B12/COBA by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 in C jen in A ury	VITAMIN B12/CO 190 VOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracept	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants ition ve Harmones	190.0 - 890.0	
/ITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 in C jen in A ury	VITAMIN B12/CO 190 VOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones rsis	190.0 - 890.0	

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.





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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RUBY : 50 YRS/FEMALE : SURJESH : : 01514576 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REGIST COLLEC REPORT	T ID 9./LAB NO. RATION DATE TION DATE TING DATE	: 1572111 <b>: 012408060028</b> : 06/Aug/2024 09:57 AM : 06/Aug/2024 10:08AM : 06/Aug/2024 11:25AM
Test Name		Value	Unit	Biological Reference interval
<u>Physical examina</u>		CLINICAL PATHO		TION
QUANTITY RECIEVED by DIP STICK/REFLEC COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	D TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 AMBER YELLOW CLEAR 1.01	ml	PALE YELLOW CLEAR 1.002 - 1.030
PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC pH	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative 5.5 Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE by DIP STICK/REFLEC UROBILINOGEN by DIP STICK/REFLEC KETONE BODIES	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY	Negative Normal Negative	EU/dL	NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve)
BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	Negative NEGATIVE (-ve)		NEGATIVE (-ve) NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

NAME	: Mrs. RUBY			
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT	ID	: 1572111
<b>COLLECTED BY</b>	: SURJESH	REG. NO.	/LAB NO.	: 012408060028
<b>REFERRED BY</b>	:	REGISTR	ATION DATE	: 06/Aug/2024 09:57 AM
BARCODE NO.	: 01514576	COLLECT	ION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 06/Aug/2024 11:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			0.0
EPITHELIAL CELLS	2-4	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
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 OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	HEOLINI		, Boelin

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





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