



	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)	
NAME	: Mr. RAJINDER JAIN				
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 1541852	
COLLECTED BY	:		REG. NO./LAB NO.	:012407080049	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	:08/Jul/202401:31	PM
BARCODE NO.	:01512757		COLLECTION DATE	:08/Jul/202401:37	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:08/Jul/202402:04	IPM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTI			
Test Name		Value	Unit	Biological	Reference interval
	SWAS	THYA WI	ELLNESS PANEL: 1.5		
	CON	IPLETE BL	OOD COUNT (CBC)		
<u>RED BLOOD CELLS (</u> R	BCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		12.2	gm/dL	12.0 - 17.0	C
by CALORIMETRIC RED BLOOD CELL (RB	C) COUNT	5.1 <sup>H</sup>	Millions/o	mm 3.50 - 5.00	0
by HYDRO DYNAMIC I	OCUSING, ELECTRICAL IMPEDENCE	40.2	%	40.0 - 54.0	
PACKED CELL VOLUN by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	40.Z	70	40.0 - 54.0	J
MEAN CORPUSCULA	R VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	78.9 <sup>L</sup>	fL	80.0 - 100	0.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	23.9 <sup>L</sup>	pg	27.0 - 34.0	D
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	30.2 <sup>L</sup>	g/dL	32.0 - 36.0	0
	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-CV)	18.7 <sup>H</sup>	%	11.00 - 16	. 00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	55.5	fL	35.0 - 56.0	)
MENTZERS INDEX		15.47	RATIO		LASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	X	28.9	RATIO		ICIENCY ANEMIA: >13.0 LASSEMIA TRAIT: < =
by CALCULATED	A	20.7	in the	65.0	
				IRON DEF	ICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS		6200	lamm	1000 111	200
TOTAL LEUCOCYTE C by FLOW CYTOMETRY	UUNT (TLC) Y BY SF CUBE & MICROSCOPY	6280	/cmm	4000 - 110	JUU
	OOD CELLS (NRBCS) UTOMATED HEMATOLOGY ANALYZER &	NIL		0.00 - 20.0	00
MICROSCOPY					
by CALCULATED BY A MICROSCOPY	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %	
DIFFERENTIAL LEUCO	<u> DCYTE COUNT (DLC)</u>				



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJINDER JAIN **AGE/ GENDER** : 69 YRS/MALE **PATIENT ID** :1541852 **COLLECTED BY** :012407080049 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :08/Jul/2024 01:31 PM **BARCODE NO.** :01512757 **COLLECTION DATE** :08/Jul/2024 01:37PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Jul/202402:04PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 68 % 50 - 70 **NEUTROPHILS** by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 21 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 4 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4270 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1319 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 251 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 440 80 - 880 ABSOLUTE MONOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 223000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.27 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 12<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 95000<sup>H</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 42.4 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.1 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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NAME	: Mr. RAJINDER JAIN			
AGE/ GENDER	: 69 YRS/MALE	PATI	ENT ID	: 1541852
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BARCODE NO.	:01512757	COLL	ECTION DATE	: 08/Jul/2024 01:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 08/Jul/2024 02:59PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM( WHOLE BLOOD by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	6.1	%	4.0 - 6.4
ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION:	PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	128.37	mg/dL	60.00 - 140.00
		BETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		%
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 – 6.4 >= 6.5	
Dia	gnosing Diabetes	٨	>= 6.5 e > 19 Years	
		лу		

#### 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

Actions Suggested:

Goal of therapy

>8.0

<7.5

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3.Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

Age < 19 Years

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.





Therapeutic goals for glycemic control

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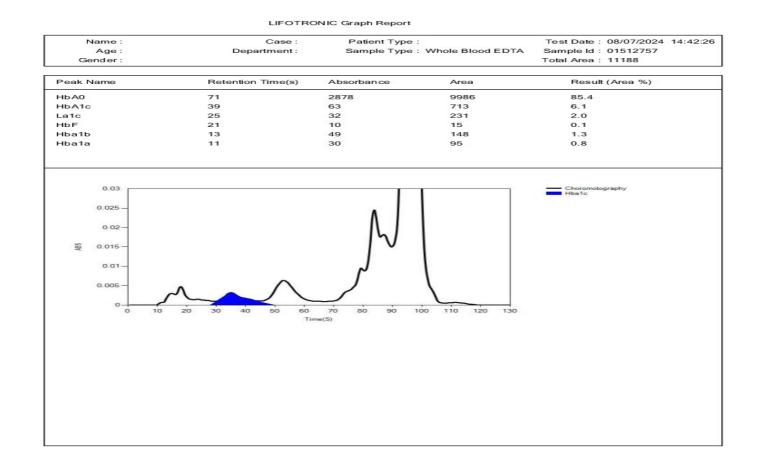


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Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI	
	ANA /1 MICHOLCON DOAD AND		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:08/Jul/202402:59PM
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	Dr. Vinay Chopra		m Chopra







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	Microbiology)		(Pathology) Pathologist
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:	REG	GISTRATION DATE	: 08/Jul/2024 01:31 PM
: 01512757	COL	LLECTION DATE	:08/Jul/202401:37PM
: KOS DIAGNOSTIC LAB	REI	PORTING DATE	:08/Jul/202402:17PM
: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
	Value	Unit	Biological Reference interval
ERYTH	ROCYTE SEDIMEN	NTATION RATE (ES	R)
RGREN AUTOMATED METHOD c test because an elevated result	ner exactly where the	presence of inflammati e inflammation is in the	on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such
	Chairman & Cons : Mr. RAJINDER JAIN : 69 YRS/MALE : : : 01512757 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A ERYTH MENTATION RATE (ESR) RGREN AUTOMATED METHOD	: 69 YRS/MALE PAC : REG : 01512757 COD : KOS DIAGNOSTIC LAB RED : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value ERYTHROCYTE SEDIMENT MENTATION RATE (ESR) 35 <sup>H</sup>	Chairman & Consultant Pathologist         CEO & Consultant         :       Mr. RAJINDER JAIN         :       69 YRS/MALE       PATIENT ID         :       69 YRS/MALE       PATIENT ID         :       8 REG. NO./LAB NO.       REGISTRATION DATE         :       01512757       COLLECTION DATE         :       6349/1, NICHOLSON ROAD, AMBALA CANTT       REPORTING DATE         Value       Unit         ERYTHROCYTE SEDIMENTATION RATE (ESI         MENTATION RATE (ESR)         MENTATION RATE (ESR)       35 <sup>H</sup> mm/1st h

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	REPO	RTING DATE	: 08/Jul/2024 02:43PM				
CLIENT ADDRESS	LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT							
Test Name		Value	Unit	Biological Reference interval				
CLINICAL CHEMISTRY/BIOCHEMISTRY								
		<b>GLUCOSE FAST</b>	ING (F)					
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		102.36 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0				
1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	ion of 75 gms of glucose) is recom	considered normal. ng/dl is considered as glu nmended for all such pat s highly suggestive of di	ients. abetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.				

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		& Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	<b>Mr. RAJINDER JAIN</b> 69 YRS/MALE 01512757 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD	REGIST COLLEC REPOR	IT ID D./LAB NO. TRATION DATE TION DATE TING DATE	: 1541852 <b>: 012407080049</b> : 08/Jul/2024 01:31 PM : 08/Jul/2024 01:37PM : 08/Jul/2024 02:44PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: S by CHOLESTEROL OXIDA		142.51	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERUN by glycerol phospha	Λ τε oxidase (enzymatic)	178.62 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIR by SELECTIVE INHIBITION		41.68	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SER by CALCULATED, SPECTR		65.11	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTERO by CALCULATED, SPECTF		100.83	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: SE by CALCULATED, SPECTE		35.72	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTA		463.64	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RAT by CALCULATED, SPECTH	TIO: SERUM	3.42	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: SERUN by calculated, spectf		1.56	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 08/Jul/2024 02:44PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.29	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI			
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.34	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		mg/dL	0.00 - 0.40
	C (UNCONJUGATED): SERUM	0.18	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	24.27	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	22.4	U/L	0.00 - 49.00
AST/ALT RATIO: SER		1.08	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		80	U/L	40.0 - 150.0
	TRANSFERASE (GGT): SERUM	30	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	7.08	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.09	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.99	gm/dL	2.30 - 3.50

Dr Vinay Ch

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

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

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

# **INCREASED:**

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

1.37





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RATIO

1.00 - 2.00

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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>1	.3 (Slightly Increa	ased)

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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	<b>Dr. Vinay Cl</b> MD (Pathology of Chairman & Col		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJINDER JAIN			
AGE/ GENDER	: 69 YRS/MALE	1	PATIENT ID	: 1541852
COLLECTED BY	:	l	REG. NO./LAB NO.	: 012407080049
<b>REFERRED BY</b>	:	l	REGISTRATION DATE	: 08/Jul/2024 01:31 PM
BARCODE NO.	:01512757	(	COLLECTION DATE	: 08/Jul/2024 01:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	: 08/Jul/2024 02:44PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	к	DNFY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		16.41	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)	10.11	ing, at	
CREATININE: SERUN		0.66	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC BLOOD UREA NITRO		7.67	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY			
	GEN (BUN)/CREATININE	11.62	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININE F	RATIO: SERUM	24.86	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	5.9	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	E PEROXIDASE	5.9	Thy/uL	3.00 - 7.70
CALCIUM: SERUM		9.01	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.41	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE	DATE, SPECTROPHOTOMETRY	0.11	ing/ dE	2.00 1.10
ELECTROLYTES				
SODIUM: SERUM		138	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.25	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM by ISE (ION SELECTIV		103.5	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	101.5		

### 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.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value Uni	t Biological	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuses imonemias (urea is virtually absent in of inappropiate antidiuretic harmone <b>10:1) WITH INCREASED CREATININE:</b> upy (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure. creased BUN/creatinine ratio). rapy (interferes with creatinine meas <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> <u>Normal kidney function</u> Kidney damage with	n blood). ) due to tubular secretion of urea. ne to creatinine). ase in creatinine with certain mether surement). GFR ( mL/min/1.73m2 )		Il ratio when dehydratio
G3a	normal or high GFR Mild decrease in GFR	60 -89	ADUITIIT OF CASE IT UTITIE	1
G3b	Moderate decrease in GF			1
G4	Severe decrease in GFR	15-29		]
C5				

G5

Г

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Kidney failure

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM		56 <sup>L</sup>	μg/dL	65.0 - 175.0
by FERROZINE, SPEC UNSATURATED IRON :SERUM by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	265	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM by SPECTROPHOTON	IG CAPACITY (TIBC)	321	µg/dL	230 - 430
%TRANSFERRIN SAT		17.45	%	15.0 - 50.0
TRANSFERRIN: SERL by SPECTROPHOTON	JM	227.91	mg/dL	200.0 - 350.0

# **INTERPRETATION:-**

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

IRON:

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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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 08/Jul/2024 02:58PM
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AM	Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	0.874 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassa	9.94 <sub>Y)</sub>	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 bet	ween 2-4 a.m a imulates the p	roduction and secretion of the me	0.35 - 5.50 <i>m. The variation is of the order of 50%.Hence time of th</i> 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
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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)	THYROX	INE (T4)	THYROID STIMULATING 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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		Dr. Vinay Ch MD (Pathology & Chairman & Con			MD (P	C <b>hopra</b> (athology) (athologist	
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AGE/ GENDER	: 69 YRS/N	IALE		PATIENT ID		: 1541852	
COLLECTED BY	:			REG. NO./LAB NO.		:012407080	049
<b>REFERRED BY</b>	:			<b>REGISTRATION DA</b>	ATE	:08/Jul/2024	01:31 PM
BARCODE NO.	:0151275	7		COLLECTION DATI	E	:08/Jul/2024	01:37PM
CLIENT CODE.	: KOS DIAO	GNOSTIC LAB		REPORTING DATE		:08/Jul/2024	02:58PM
CLIENT ADDRES	<b>S</b> : 6349/1, 1	NICHOLSON ROAD,	AMBALA CANTT				
Test Name			Value	Uni	t	Biolo	gical Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7	7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - !	5.50	

0.92 - 2.28	I - TO Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
RECOMI	MENDATIONS OF TSH LE	EVELS DURING PREGN	VANCY ( µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECOMI 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester2nd Trimester2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60           RECOMMENDATIONS OF TSH LEVELS DURING PREGR           1st Trimester         2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( μIU/mL)           1st Trimester         0.10 - 2.50           2nd Trimester         0.20 - 3.00	

# 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, J	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITA	AMINS	
	VIT	AMIN D/25 HY	DROXY VITAMIN D3	
•	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	42.1	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				TOXICITY: > 100.0
	CIENT:	< 20		g/mL
	ICIENT: D RANGE:	21 - 29 30 - 100		g/mLg/mL
INTOXI	CATION:	> 100	n	g/mL Iecalciferol (from animals, Vitamin D3), or by
2.25-OHVitamin D re issue and tightly bou 3. Vitamin D plays a p bhosphate reabsorpti 4. Severe deficiency m <b>DECREASED:</b> 1. Lack of sunshine exi 2. Inadeguate intake, 3. Depressed Hepatic	Ind by a transport protein while rimary role in the maintenance ion, skeletal calcium deposition, hay lead to failure to mineralize posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activi ced Liver disease econdary Hyperparathroidism (N	r and transport fo in circulation. of calcium homeo calcium mobilizat newly formed oste ty Aild to Moderate	rm of Vitamin D and trans statis. It promotes calciun ion, mainly regulated by coid in bone, resulting in r deficiency)	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 08/Jul/2024 03:03PM
			WING DATE	. 08/ Jul/ 2024 03.03F W
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	LAMIN: SERUM ESCENT MICROPARTICLE IMMUNO.	488 ASSAY)	pg/mL	190.0 - 890.0
<u>INTERPRETATION:-</u> INCREAS	ED VITAMIN B12		DECREASED VITAMIN	N B12
1.Ingestion of Vitam		1.Pregnancy		
2.Ingestion of Estrog	gen		rin, Anti-convulsants	, Colchicine
3.Ingestion of Vitam		3.Ethanol Iges		
4.Hepatocellular in		4. Contracepti		
5.Myeloproliferativ	e disorder	5.Haemodialy		
6.Uremia	amin) is necessary for hemator	6. Multiple My		
3.The body uses its vi excreted. 4.Vitamin B12 deficie leal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalou 7.Follow-up testing fo <b>NOTE:</b> A normal serun deficiency at the cellu	ncy may be due to lack of IF se intestinal diseases). ency frequently causes macrocy coordination, and affective bel s without macrocytic anemia. nic acid and homocysteine leve or antibodies to intrinsic factor n concentration of vitamin B12	ically, reabsorbing vitami cretion by gastric mucos vic anemia, glossitis, per havioral changes. These Is are also elevated in vit (IF) is recommended to does not rule out tissue If clinical symptoms sug	n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, manifestations may o ramin B12 deficiency identify this potentia deficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
		Makas	11-2	Distantiasi Defenses interest
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/REFLECTANCE SPECTROPHOTOMETRY				
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		AMBER YELLO	N	PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA	ATION			
REACTION		ALKALINE		
by DIP STICK/REFLEC PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	7.5		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY			
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Normal	ETT (4)	0.2 - 1.0
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID		NEGATIVE (-ve	)	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME



HEALTHCARE & DIAGNOSTI EXCELLENCE IN

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mr. RAJINDER JAIN

AGE/ GENDER	: 69 YRS/MALE	PATIENT	' ID	: 1541852	
COLLECTED BY	:	REG. NO.	/LAB NO.	: 012407080049	
<b>REFERRED BY</b>	:	REGISTR	ATION DATE	: 08/Jul/2024 01:31 PM	
BARCODE NO.	: 01512757	COLLECT	ION DATE	: 08/Jul/2024 01:37PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 08/Jul/2024 02:03PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	4-5	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-2	/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

End Of Report





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