



Dr. Vinay C MD (Pathology Chairman & Co		robiology)	Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist		
NAME	: Mr. D.J RAINA				
AGE/ GENDER	: 82 YRS/MALE		PATIENT ID	: 1597174	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408310021	
REFERRED BY	:		REGISTRATION DATE	: 31/Aug/2024 09:56 AM	
BARCODE NO.	:01516017		COLLECTION DATE	: 31/Aug/2024 10:09AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 31/Aug/2024 10:35AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	SWAS	THYA WE	LLNESS PANEL: 1.5		
	CON	/IPLETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS (RE	SCS) COUNT AND INDICES				
HAEMOGLOBIN (HB) by CALORIMETRIC		11.9 ^L	gm/dL	12.0 - 17.0	
RED BLOOD CELL (RBC	COUNT CUSING, ELECTRICAL IMPEDENCE	4.63	Millions/cr	mm 3.50 - 5.00	
PACKED CELL VOLUMI		37.7 ^L	%	40.0 - 54.0	
MEAN CORPUSCULAR		81.5	fL	80.0 - 100.0	
MEAN CORPUSCULAR	HAEMOGLOBIN (MCH)	25.7 ^L	pg	27.0 - 34.0	
MEAN CORPUSCULAR	HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUTIO		14.6	%	11.00 - 16.00	
RED CELL DISTRIBUTIO		44.6	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		17.6	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDEX by CALCULATED		25.7	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0	
WHITE BLOOD CELLS	(WBCS)				
TOTAL LEUCOCYTE CO	UNT (TLC) by sf cube & microscopy	6890	/cmm	4000 - 11000	
NUCLEATED RED BLOO		NIL		0.00 - 20.00	
NUCLEATED RED BLOG	DD CELLS (nRBCS) %	NIL	%	< 10 %	
by CALCULATED BY AU DIFFERENTIAL LEUCO					
		62	0/	50 70	
NEUTROPHILS	BY SF CUBE & MICROSCOPY	63	%	50 - 70	





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







Dr. Vinay Chopra



Dr. Yugam Chopra

	MD (Pathology & Microbiology) Chairman & Consultant Pathologist			(Pathology) Pathologist
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			FORTING DATE	. 51/ Aug/ 2024 10.55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		30	%	20 - 40
	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS		1	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	Ū	70	2 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTRO		4341	/cmm	2000 - 7500
ABSOLUTE LYMPHO	Y BY SF CUBE & MICROSCOPY	2067	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	2007	/ drift	000 1700
ABSOLUTE EOSINOP		69	/cmm	40 - 440
by FLOW CYTOMETR ABSOLUTE MONOCY	Y BY SF CUBE & MICROSCOPY	413	/cmm	00 000
	Y BY SF CUBE & MICROSCOPY	415	/cmm	80 - 880
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>		
PLATELET COUNT (P	PLT)	163000	/cmm	150000 - 450000
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)		0.2	%	0.10 - 0.36
MEAN PLATELET VO	FOCUSING, ELECTRICAL IMPEDENCE	12 ^H	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	12.1		0.00 12.0
	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	65000	/cmm	30000 - 90000
PLATELET LARGE CE		40	%	11.0 - 45.0
by HYDRO DYNAMIC I	FOCUSING, ELECTRICAL IMPEDENCE			
	TION WIDTH (PDW)	16.4	%	15.0 - 17.0
-	FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD			
HOTE, ILDI CONDU				





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 31/Aug/2024 03:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		0
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		6.7 ^H	EMOGLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	145.59 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN E			
	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		B (HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
At Risk (Prediabetes)			5.7 – 6.4	
		>= 6.5		
	iagnosing Diabetes			
	iagnosing Diabetes		Age > 19 Years	
D			of Therapy:	< 7.0
D	iagnosing Diabetes ic goals for glycemic control		of Therapy: s Suggested:	< 7.0 >8.0
D		Action	of Therapy:	

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. D.J RAI	NA			
AGE/ GENDER	: 82 YRS/MAI	LE		PATIENT ID	: 1597174
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	:012408310021
REFERRED BY	:			REGISTRATION DATE	: 31/Aug/2024 09:56 AM
BARCODE NO.	:01516017			COLLECTION DATE	: 31/Aug/2024 10:09AM
CLIENT CODE.	: KOS DIAGN			REPORTING DATE	: 31/Aug/2024 10:48AM
LIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, AM	IBALA CANTI	ſ	
Test Name			Value	Unit	Biological Reference interval
		FDVTUD			(n)
				IMENTATION RATE (ES	
ERYTHROCYTE SEDIN by MODIFIED WESTER			14	mm/1st	hr 0 - 20
ystemic lupus erytho CONDITION WITH LOV Now ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactiv C Generally, ESR doe C CRP is not affected . If the ESR is elevat Women tend to ha	ematosus W ESR n with condition ificantly high w e cell anaemia) e protein (C-RP) es not change as by as many oth ed, it is typically we a higher ESR tran, methyldop	ns that inhibit the no vhite blood cell cour) also lower the ESR) are both markers o s rapidly as does CRF her factors as is ESR , y a result of two typ t, and menstruation a ba, oral contraceptiv	ormal sedime at (leucocytos f inflammatio P, either at the making it a be es of proteins and pregnancy	ntation of red blood cells, is), and some protein abn n. estart of inflammation or a etter marker of inflammatic , globulins or fibrinogen.	n.
		2		Augus	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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MD (Pathology &	Microbiology)	Dr. Yugar MD CEO & Consultant	(Pathology)
: Mr. D.J RAINA			
: 82 YRS/MALE	PATIE	NT ID	: 1597174
: SURJESH	REG. N	0./LAB NO.	: 012408310021
:	REGIS	TRATION DATE	: 31/Aug/2024 09:56 AM
:01516017	COLLE	CTION DATE	: 31/Aug/2024 10:09AM
: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 31/Aug/2024 11:25AM
: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
	Value	Unit	Biological Reference interval
CLIN	ICAL CHEMISTRY/	BIOCHEMISTR	Y
	GLUCOSE FAST	ING (F)	
GLUCOSE FASTING (F): PLASMA 117.37 ^H by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
lucose level below 100 mg/dl is o lucose level between 100 - 125 r ion of 75 gms of glucose) is recon lucose level of above 125 mg/dl i	considered normal. ng/dl is considered as glu nmended for all such pat is highly suggestive of dia	ients. abetic state. A repe	at post-prandial is strongly recommended for a
	MD (Pathology & Chairman & Con : Mr. D.J RAINA : 82 YRS/MALE : SURJESH : : 01516017 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, CLIN F): PLASMA SE - PEROXIDASE (GOD-POD) H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is of lucose level below 100 mg/dl is of second	: 82 YRS/MALE PATTE : SURJESH REG. N : UISTON REGIS : 01516017 COLLE : KOS DIAGNOSTIC LAB REPOI : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value CLINICAL CHEMISTRY/ GLUCOSE FAST F): PLASMA 117.37 ^H H AMERICAN DIABETES ASSOCIATION GUIDELINES: lucose level below 100 mg/dl is considered normal. lucose level below 100 mg/dl is considered as glu on of 75 gms of glucose) is recommended for all such pat lucose level of above 125 mg/dl is highly suggestive of dia	MD (Pathology & Microbiology) Chairman & Consultant Pathologist Mr. D.J RAINA : 82 YRS/MALE : SURJESH : SURJESH : 01516017 : COLLECTION DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit CLINICAL CHEMISTRY/BIOCHEMISTR GLUCOSE FASTING (F) F): PLASMA : PEROXIDASE (GOD-POD) MD (20 & Consultant PATIENT ID REG. NO./LAB NO. REGISTRATION DATE REPORTING DATE COLLECTION DATE REPORTING DATE ITT. 37 ^H mg/dL

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AGE/ GENDER: 82COLLECTED BY: SUIREFERRED BY:BARCODE NO.: 011CLIENT CODE.: KO	. D.J RAINA YRS/MALE RIESH 516017 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AMBA	REG REG COL REP	IENT ID . NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1597174 : 012408310021 : 31/Aug/2024 09:56 AM : 31/Aug/2024 10:09AM : 31/Aug/2024 11:25AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E · BASIC	
CHOLESTEROL TOTAL: SER by CHOLESTEROL OXIDASE	UM	136.01	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE O	DXIDASE (ENZYMATIC)	125.7	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIREC by SELECTIVE INHIBITION	T): SERUM	50.14	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUN by CALCULATED, SPECTROF		60.73	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 CHOLESTEROL: S by CALCULATED, SPECTROF		85.87	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: SERU by CALCULATED, SPECTROF		25.14	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM		397.72	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROF CHOLESTEROL/HDL RATIO by CALCULATED, SPECTROF	: SERUM	2.71	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: SERUM by CALCULATED, SPECTROF	PHOTOMETRY	1.21	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
ENTRY HIS CONTRACTOR		0		

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.51 ^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.

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 Deference interval
	value	Unit	Biological Reference interval
LIV	ER FUNCTION TES	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.8	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.22	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry	0.58	mg/dL	0.10 - 1.00
GOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	15	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	14.3	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.05	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	121.89	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	24.77	U/L	0.00 - 55.0
OTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.74	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.72	gm/dL	3.50 - 5.50
SLOBULIN: SERUM by Calculated, spectrophotometry	3.02	gm/dL	2.30 - 3.50
s : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.23	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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NAME





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
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:**

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 by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)	25.73	mg/dL	10.00 - 50.00
CREATININE: SERUN	Λ	1.02	mg/dL	0.40 - 1.40
BLOOD UREA NITRO	GEN (BUN): SERUM	12.02	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	11.78	RATIO	10.0 - 20.0
UREA/CREATININE F by CALCULATED, SPE	RATIO: SERUM	25.23	RATIO	
URIC ACID: SERUM		4.59	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		9.82	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER by PHOSPHOMOLYBE		3.49	mg/dL	2.30 - 4.70
ELECTROLYTES SODIUM: SERUM		134.6 ^L	mmol/L	135.0 - 150.0
<i>by ISE (ION SELECTI)</i> POTASSIUM: SERUM		3.96	mmol/L	3.50 - 5.00

100.95

73.4

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.

To differentiate between pre- and post renal azotemia.

2. Catabolic states with increased tissue breakdown.

by ISE (ION SELECTIVE ELECTRODE)

by ISE (ION SELECTIVE ELECTRODE)

ESTIMATED GLOMERULAR FILTERATION RATE ESTIMATED GLOMERULAR FILTERATION RATE

CHLORIDE: SERUM

(eGFR): SERUM by CALCULATED INTERPRETATION:



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mmol/L

90.0 - 110.0

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		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
IAME	: Mr. D.J RAINA			
GE/ GENDER	: 82 YRS/MALE	PA	TIENT ID	: 1597174
COLLECTED BY	: SURJESH	RF	G. NO./LAB NO.	: 012408310021
REFERRED BY			GISTRATION DATE	: 31/Aug/2024 09:56 AM
				0
BARCODE NO.	:01516017		LLECTION DATE	: 31/Aug/2024 10:09AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 31/Aug/2024 11:55AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
ourns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g INCREASED RATIO (>2	exia, high fever). n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATIN	oduction)		osis, Cushing's syndrome, high protein diet, thy).
ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle n 9. Certain drugs (e.g. NCREASED RATIO (> 9. Prerenal azotemia DECREASED RATIO (< 9. Low protein diet a 9. Severe liver diseas 9. Other causes of de 5. Repeated dialysis 5. Inherited hyperan 7. SIADH (syndrome 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 9. Rhabdomyolysis (i	exia, high fever). a (e.g. ureter colostomy) hass (subnormal creatinine pr tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. and starvation. e. ccreased urea synthesis. (urea rather than creatinine comonemias (urea is virtually a b finappropiate antidiuretic has 10:1) WITH INCREASED CREATIN apy (accelerates conversion of releases muscle creatinine). who develop renal failure.	oduction) IINE LEVELS: Iy more than creatinine) se. liffuses out of extracellu bsent in blood). armone) due to tubular : ININE:	(e.g. obstructive uropa Ilar fluid).	

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



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NAME	: Mr. D.J RAINA		
AGE/ GENDER	: 82 YRS/MALE	PATIENT ID	: 1597174
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-			
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), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PR	OFILE	
IRON: SERUM		50.7 ^L	μg/dL	59.0 - 158.0

IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	50.7 ^L	μg/dL	59.0 - 158.0	
UNSATURATED IRON BINDING CAPACITY (UIBC)	284.55	μg/dL	150.0 - 336.0	
:SERUM by FERROZINE, SPECTROPHOTOMETERY				
TOTAL IRON BINDING CAPACITY (TIBC)	335.25	μg/dL	230 - 430	
:SERUM by SPECTROPHOTOMETERY				
%TRANSFERRIN SATURATION: SERUM	15.12	%	15.0 - 50.0	
by CALCULATED, SPECTROPHOTOMETERY (FERENE)				
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	238.03	mg/dL	200.0 - 350.0	

INTERPRETATION:-

		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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM	0.804	ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASSA	,		4.07 10 (0
THYROXINE (T4): SE	KUIVI IESCENT MICROPARTICLE IMMUNOASSA	7.09	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	3.922	μIU/mL	0.35 - 5.50
	IESCENT MICROPARTICLE IMMUNOASSA	(Y)		
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
	circadian variation, reaching peak levels be	tween 2-4 a.m.	and at a minimum between 6-10 p	m. The variation is of the order of 50%.Hence time of t
day has influence on the		imulates the p	roduction and secretion of the m	etabolically active hormones, thyroxine (T4)and
	roidism) of T4 and/or T3.	maiannic-pituit	ai y-tityi olu akis wili result ili eltii	

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROXINE (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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra



Dr. Yugam Chopra

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Test Name			Value	Unit	t	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	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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LIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT		Ŭ
Test Name		Value	Unit	Biological Reference interval
			AMINS YDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERU Nescence Immunoassay)	M 128.9 ^H	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOYICITY: > 100.0
NTERPRETATION:				TOXICITY: > 100.0
	CIENT:	< 20	r	ng/mL
INSUF	FICIENT:	21 - 29		ng/mL
	ED RANGE: ICATION:	<u> </u>		ng/mL
issue and tightly bo 3. Vitamin D plays a p bosphate reabsorp 1. Severe deficiency r DECREASED: 1. Lack of sunshine ex- 2. Inadequate intake 3. Depressed Hepatic 4. Secondarv to adva 5. Osteoporosis and S 5. Enzyme Inducing d NCREASED: 1. Hypervitaminosis Severe hypercalcemi CAUTION: Replaceme hypervitaminosis D NOTE: -Dark coloured	und by a transport protein primary role in the mainten tion, skeletal calcium depos may lead to failure to miner kposure. , malabsorption (celiac dise Vitamin D 25- hydroxylase nced Liver disease Secondary Hyperparathroid rugs: anti-epileptic drugs lil D is Rare, and is seen only a a and hyperphophatemia. ent therapy in deficient indi <i>individuals as compare to w</i>	while in circulation. ance of calcium home sition, calcium mobiliza ralize newly formed os ase) activity ism (Mild to Moderate ke phenytoin, phenoba fter prolonged exposu viduals must be monit	ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine, ure to extremely high doses ored by periodic assessme	sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. , that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent <i>ciency due to excess of melanin pigment which</i>
interefere with Vitam	in D absorption.			

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LIENT ADDRESS	: 6349/1, NICHOLSON RO			ion nug, zowi moonin	
Test Name /ITAMIN B12/COBA	AMIN: SERUM	Value VITAMIN B12/CC 337 VOASSAY)	Unit DBALAMIN pg/mL	Biological Reference interval	
est Name TAMIN B12/COBA by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUI	VITAMIN B12/CC 337	DBALAMIN pg/mL	190.0 - 890.0	
est Name ITAMIN B12/COBA by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS	ESCENT MICROPARTICLE IMMUI	VITAMIN B12/CC 337 NOASSAY)	DBALAMIN	190.0 - 890.0	
est Name ITAMIN B12/COBA by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUI	VITAMIN B12/CC 337 voassay)	DBALAMIN pg/mL	190.0 - 890.0	
est Name ITAMIN B12/COBAI by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUI ED VITAMIN B12 in C jen in A	VITAMIN B12/CC 337 voassay) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants tion	190.0 - 890.0	
TTAMIN B12/COBAI by CMIA (CHEMILUMIN VTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 3.Ingestion of Vitam 4.Hepatocellular inj	ESCENT MICROPARTICLE IMMUI ED VITAMIN B12 in C jen in A ury	VITAMIN B12/CC 337 VOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants tion ve Harmones	190.0 - 890.0	
Test Name /ITAMIN B12/COBA by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUI ED VITAMIN B12 in C jen in A ury	VITAMIN B12/CC 337 voassay) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones sis	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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	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 51/ Aug/ 2024 10.40AW
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	IOLOGY	
	URINE R	OUTINE & MICROSC	OPIC EXAMINAT	ION
PHYSICAL EXAMINAT	ION			
QUANTITY RECIEVED		10	ml	
	ANCE SPECTROPHOTOMETRY	10		
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLECT TRANSPARANCY	ANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	ANCE SPECTROPHOTOMETRY	GLEAK		CLEAR
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
	ANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	TION			
REACTION		ACIDIC		
PROTEIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY	Negative		
SUGAR		Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
pH by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	6		C.1 - U.C
BILIRUBIN		Negative		NEGATIVE (-ve)
-	ANCE SPECTROPHOTOMETRY			
NITRITE	ANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY			
KETONE BODIES	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	ANUL OF LUI NUF FIUI UMEIRY	Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY			
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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

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









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

NAME	: Mr. D.J RAINA				
AGE/ GENDER	: 82 YRS/MALE	PATIEN	T ID	: 1597174 : 012408310021	
COLLECTED BY	: SURJESH	REG. NO)./LAB NO.		
REFERRED BY			RATION DATE	: 31/Aug/2024 09:56 AM	
BARCODE NO.			TION DATE	: 31/Aug/2024 10:09AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 31/Aug/2024 10:40AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	/IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS		2-4	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			0.0	
EPITHELIAL CELLS	1-3	/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 ***





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

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

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