



	Dr. Vinay Chopr MD (Pathology & Micı Chairman & Consultar	robiology)	1	gam Chopra MD (Pathology tant Pathologis	
NAME	: Mr. OM PARKASH				
AGE/ GENDER	: 75 YRS/MALE		PATIENT ID	: 15430	011
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:0124	07090022
<b>REFERRED BY</b>	:		<b>REGISTRATION DAT</b>	<b>E</b> : 09/Jul	l/2024 09:02 AM
BARCODE NO.	: 01512794		COLLECTION DATE	:09/Ju	l/2024 09:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jul	l/2024 10:15AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	ſ		
Test Name		Value	Unit		Biological Reference interval
	SWAS	THYA WI	ELLNESS PANEL: 1	.5	
			OOD COUNT (CBC)		
	BCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		8.6 <sup>L</sup>	gm/d		12.0 - 17.0
by CALORIMETRIC					
RED BLOOD CELL (RB	BC) COUNT	4.57	Millior	ns/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		28.7 <sup>L</sup>	%		40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		62.8 <sup>L</sup>	fL		80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)		18.8 <sup>L</sup>	pg		27.0 - 34.0
MEAN CORPUSCULA	by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		g/dL		32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	18.4 <sup>H</sup>	%		11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	43	fL		35.0 - 56.0
MENTZERS INDEX	OTOMATED HEIVATOLOG TANALIZEN	13.74	RATIC	)	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		25.26	RATIC	)	BETA THALASSEMIA TRAIT: < =
by CALCULATED					65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>				
TOTAL LEUCOCYTE C	OUNT (TLC) / by sf cube & microscopy	6360	/cmm		4000 - 11000
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) <i>utomated hematology analyzer</i> &	NIL			0.00 - 20.00
	DOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER &	NIL	%		< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. OM PARKASH AGE/ GENDER : 75 YRS/MALE **PATIENT ID** :1543011 : SURJESH **COLLECTED BY** :012407090022 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 09/Jul/2024 09:02 AM : **BARCODE NO.** :01512794 **COLLECTION DATE** :09/Jul/2024 09:36AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Jul/2024 10:15AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 58 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 29 LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 8 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 **BASOPHILS** % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT 2000 - 7500 ABSOLUTE NEUTROPHIL COUNT 3689 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1844 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 318 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 509 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) 407000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.39<sup>H</sup> by HYDRO DYNAMIĆ FOCUSING, ELECTRICAL IMPEDENCE 6.50 - 12.0 MEAN PLATELET VOLUME (MPV) 10 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 30000 - 90000 102000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 25 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.5 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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NAME	: Mr. OM PARKASH				
AGE/ GENDER	: 75 YRS/MALE	PAT	IENT ID	: 1543011	
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>		: 012407090022	
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CLIENT ADDRESS	ENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval	
	GL	YCOSYLATED HAEMO	OGLOBIN (HBA1C)		
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	6.2	%	4.0 - 6.4	
	AANCE LIQUID CHROMATOGRAPHY)				
ESTIMATED AVERAGE		131.24	mg/dL	60.00 - 140.00	
by HPLC (HIGH PERFORM INTERPRETATION:	AANCE LIQUID CHROMATOGRAPHY)				
<u>INTERFRETATION:</u>					
		ETES ASSOCIATION (ADA)		N/	
	FERENCE GROUP	GLYCOSYLATEL	D HEMOGLOGIB (HBAIC) in	<u>%</u>	
Non diabetic Adults >= 18 years		<5.7			
	At Risk (Prediabetes)		57-61		
At F	Risk (Prediabetes) gnosing Diabetes	/	5.7 - 6.4 >= 6.5		

REFERENCE GROUP	GLYCOSYLATED HEMOGL	OGIB (HBAIC) in %
Non diabetic Adults >= 18 years	<5.7	
At Risk (Prediabetes)	5.7 – 6.	4
Diagnosing Diabetes	>= 6.5	
Therapeutic goals for glycemic control	Age > 19 Y	ears
	Goals of Therapy:	< 7.0
	Actions Suggested:	>8.0
	Age < 19 Y	ears
	Goal of therapy:	<7.5

#### 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

appropiate 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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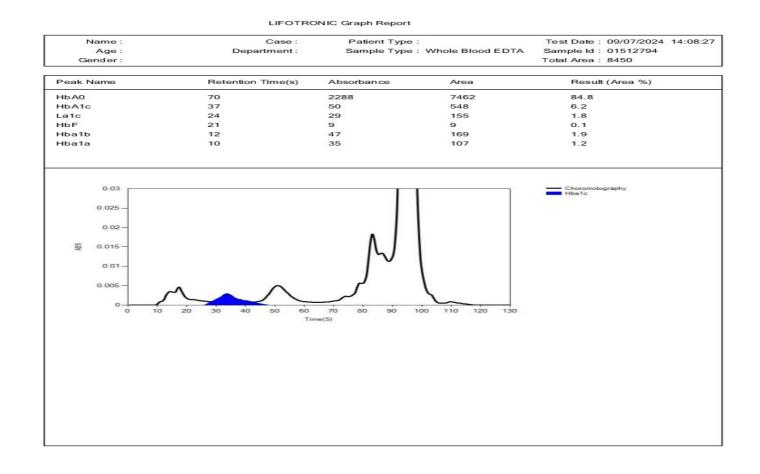
4.High







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	A CANTT	
Test Name	N	/alue Unit	Biological Reference interval







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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



AGE/ GENDER : 75 YR: COLLECTED BY : SURJE REFERRED BY : BARCODE NO. : 01512 CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name ERYTHROCYTE SEDIMENTATION by MODIFIED WESTERGREN AUT INTERPRETATION: 1. ESR is a non-specific test beformune disease, but does not 2. An ESR can be affected by or as C-reactive protein 3. This test may also be used to systemic lupus erythematosus CONDITION WITH LOW ESR A low ESR can be seen with coo (polycythaemia), significantly lass sickle cells in sickle cell ana NOTE: 1. ESR and C - reactive protein 2. Generally, ESR does not cha 3. CRP is not affected by as maid 4. If the ESR is elevated, it is ty 5. Women tend to have a higher	12794 DIAGNOSTIC LAB 9/1, NICHOLSON ROAD, A ERYTH TION RATE (ESR) UTOMATED METHOD recause an elevated result ot tell the health practition other conditions besides to monitor disease activity sonditions that inhibit the y high white blood cell co	RI RI CO RI AMBALA CANTT Value IROCYTE SEDIMI 15 t often indicates the ner exactly where t inflammation. For t	he inflammation is in the this reason, the ESR is types the transmission of the the transmission of transmission o	r 0 - 20 on associated with infection, cancer and auto- body or what is causing it. pically used in conjunction with other test such
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	n (C-RP) are both markers nange as rapidly as does C nany other factors as is ESI typically a result of two t her ESR, and menstruatio thyldopa, oral contracep	SR. s of inflammation. RP, either at the sta <b>R, making it a bette</b> r ypes of proteins, glo n and pregnancy ca	art of inflammation or as <b>r marker of inflammation</b> obulins or fibrinogen. In cause temporary eleva	s it resolves.

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Test Name		Value	Unit	Biological Reference interval
	CL	INICAL CHEMISTRY	/BIOCHEMISTRY	
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING (F): PLASMA 98.25 by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		98.25	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. OM PARKASH			
AGE/ GENDER	: 75 YRS/MALE	PATI	ENT ID	: 1543011
COLLECTED BY	: SURJESH	REG. I	NO./LAB NO.	: 012407090022
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	: 09/Jul/2024 09:02 AM
BARCODE NO.	: 01512794	COLLI	ECTION DATE	: 09/Jul/2024 09:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:09/Jul/2024 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		164.19	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	150.39 <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		32.3	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		101.81	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		131.89 <sup>H</sup>	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: by CALCULATED, SPE		30.08	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	478.77	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	5.08 <sup>H</sup>	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		3.15 <sup>H</sup>	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.66	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	. 0345/ 1, MCHOLSON KOAD, AN	IDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
	LIVE		TEST (COMPLETE)	
	BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY		mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.14	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		15.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE		11.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		1.33	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		100.64	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY		21.8	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.54	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.81	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.73	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.4	RATIO	1.00 - 2.00

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





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**INTERPRETATION** 





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Test Name		Value	Unit	Biological Ref	erence interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

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 interva
	KIC		ON TEST (COMPLETE)	
UREA: SERUM		20.74	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLE		20.74	nig/uL	10.00 - 50.00
CREATININE: SERUN		1.01	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC				
BLOOD UREA NITRO by CALCULATED, SPE	GEN (BUN): SERUM	9.69	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	9.59 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM		7.37		
	ECTROPHOTOMETRY			
UREA/CREATININE F		20.53	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	4.04	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE		ing, de	
CALCIUM: SERUM		10.23	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.54	ma/dl	2.30 - 4.70
	OATE, SPECTROPHOTOMETRY	5.04	mg/dL	2.30 - 4.70
ELECTROLYTES				
sodium: serum		136.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN		4.35	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)	102.22	mmol /l	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	102.23	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	77.6		
(eGFR): SERUM		11.0		
by CALCULATED				

**INTERPRETATION:** 

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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		<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant			am Chopra 1D (Pathology) ant Pathologist	
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Test Name			Value	Unit	Biological	Reference interval
			- aluc	onit	Diological	
<ol> <li>6. Inherited hyperam</li> <li>7. SIADH (syndrome of 8. Pregnancy.</li> <li>DECREASED RATIO (&lt; 1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> </ol>	rosis. nd starvation. e. ecreased urea (urea rather the monemias (ureation of inappropriat 10:1) WITH ING apy (accelerate releases musc who develop 0:	synthesis. han creatinine diffuses ou rea is virtually absent in b e antidiuretic harmone) d CREASED CREATININE: es conversion of creatine le creatinine). renal failure.	blood). lue to tubular s to creatinine).	ecretion of urea.	ologies,resulting in norma	I ratio when dehydratic
should produce an in 2. Cephalosporin thei	creased BUN/ rapy (interfere	(creatinine ratio). es with creatinine measure			5 · · · · · · · · · · · · · · · · · · ·	
ESTIMATED GLOMERU CKD STAGE		DESCRIPTION	GER ( ml /n	nin/1.73m2)	ASSOCIATED FINDINGS	1
G1		lormal kidney function		90	No proteinuria	1
G2		Kidney damage with		90	Presence of Protein ,	1
		_normal or high GFR			Albumin or cast in urine	
G3a		Mild decrease in GFR		-89		
G3b		oderate decrease in GFR		)-59		4
C1	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Covere decrease in CED	10	20		



G4 G5

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Severe decrease in GFR

Kidney failure

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15-29

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<b></b>			<u></u>
Test Name	Va	lue Unit	<b>Biological Reference interval</b>

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	CTROPHOTOMETRY		24.9 <sup>L</sup>	μg/dL	59.0 - 158.0
UNSATURATED IRO	N BINDING CAPA	CITY (UIBC)	379.03 <sup>H</sup>	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPEC		NV.			
TOTAL IRON BINDIN			403.93	μg/dL	230 - 430
:SERUM		- /		1.0	
by SPECTROPHOTON					
%TRANSFERRIN SAT by CALCULATED, SPA			6.16 <sup>L</sup>	%	15.0 - 50.0
TRANSFERRIN: SERU			286.79	mg/dL	200.0 - 350.0
by SPECTROPHOTON	METERY (FERENE)			5	
INTERPRETATION:-					
VARIAE	BLES	ANEMIA OF C	HRONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

## % TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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Test Name		Value	Unit	Biological Reference interval
		ENDOCR	INOLOGY	
	THY	ROID FUNCT	TION TEST: TOTAL	
TRIIODOTHYRONINE	. ,	1.012	ng/mL	0.35 - 1.93
THYROXINE (T4): SEF	ESCENT MICROPARTICLE IMMUNOASSAY RUM ESCENT MICROPARTICLE IMMUNOASSAY	6.37	µgm/dL	4.87 - 12.60
	NG HORMONE (TSH): SERUM <i>escent microparticle immunoassay</i> <b>rasensitive</b>	2.506	µIU/mL	0.35 - 5.50

trilodothyronine (T3).Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

 CLINICAL CONDITION
 T3
 T4
 TSH

 Primary Hypothyroidism:
 Reduced
 Reduced
 Increased (Significantly)

		••	
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	YRONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range ( μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. OM PARKASH		
AGE/ GENDER	: 75 YRS/MALE	PATIENT ID	: 1543011
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012407090022
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 09/Jul/2024 09:02 AM
BARCODE NO.	: 01512794	<b>COLLECTION DATE</b>	: 09/Jul/2024 09:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Jul/2024 01:29PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
			·
Test Name	Value	Unit	Biological Reference interval

lest Name			Value	Unit		Biological Reference interva
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
	RECOM	IMENDATIONS OF TSH LE	EVELS DURING PREG	iNANCY ( 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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	Dr. Vinay Cl MD (Pathology Chairman & Co			(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. OM PARKASH</b> : 75 YRS/MALE : SURJESH : : 01512794 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1543011 <b>: 012407090022</b> : 09/Jul/2024 09:02 AM : 09/Jul/2024 09:36AM : 09/Jul/2024 01:29PM
Test Name		Value	Unit	Biological Reference interval
	VI ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	<b>TAMIN D/25 HY</b> 31.4	<b>DROXY VITAMIN D3</b> ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
INSUF	CIENT: FICIENT: ED RANGE:	< 20 21 - 29 30 - 100	n	70XICITY: > 100.0
INTOX 1. Vitamin D compound conversion of 7- dihy 2.25-OHVitamin D rissue and tightly bo 3. Vitamin D plays a pro- chosphate reabsorphic 4. Severe deficiency rist DECREASED: 1. Lack of sunshine existent 3. Depressed Hepatic 4. Secondary to advaria 5. Osteoporosis and Signal S	CATION: Inds are derived from dietary ero vdrocholecalciferol to Vitamin D represents the main body resevo und by a transport protein while orimary role in the maintenance ion, skeletal calcium deposition may lead to failure to mineralized posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activity need Liver disease Gecondary Hyperparathroidism (	> 100 pocalciferol (from p 3 in the skin upon f ir and transport fo e in circulation. of calcium mobilizat newly formed oste vity Mild to Moderate e penytoin, phenobar	ng Iants. Vitamin D2), or cho Ultraviolet exposure. rm of Vitamin D and trans statis. It promotes calciun ion, mainly regulated by p eoid in bone, resulting in r	g/mL lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant		Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,					
Test Name		Value	Unit	Biological Reference interv		
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	ILAIVIIN: SERUIVI NESCENT MICROPARTICLE	>2000 <sup>H</sup>	pg/mL	190.0 - 830		
	SED VITAMIN B12	DECREASED VITAMIN B12				
1.Ingestion of Vitamin C		1.Pregnancy				
		0,				
2.Ingestion of Estro			rin, Anti-convulsants	Colchicine		
2.Ingestion of Estro 3.Ingestion of Vitan	nin A	3.Ethanol Iges	tion	Colchicine		
2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	nin A jury	3.Ethanol Iges 4. Contracepti	tion ve Harmones	Colchicine		
2.Ingestion of Estro 3.Ingestion of Vitan	nin A jury	3.Ethanol Iges	tion ve Harmones sis	Colchicine		

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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 Name   Value   Unit   Biological Reference interview	rval
CLINICAL PATHOLOGY	
URINE ROUTINE & MICROSCOPIC EXAMINATION	
PHYSICAL EXAMINATION	
QUANTITY RECIEVED 10 ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
COLOUR AMBER YELLOW PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY CLEAR CLEAR CLEAR	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
SPECIFIC GRAVITY     1.01     1.002 - 1.030       by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY     1.01     1.002 - 1.030	
CHEMICAL EXAMINATION	
REACTION ALKALINE	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
PROTEIN Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
SUGAR Negative NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH 7.5 5.0 - 7.5	
pH 7.5 5.0 - 7.5 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
BILIRUBIN Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
NITRITE Negative NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN Normal EU/dL 0.2 - 1.0	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
KETONE BODIES Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
BLOOD Negative Negative NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	
ASCORBIC ACID NEGATIVE (-ve) NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	

MICROSCOPIC EXAMINATION



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

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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 CENTRIFUGED URINARY SEDIMENT		3-5	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		0-3	/HPF	ABSENT	
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT