



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. RAM SARUP VERMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1793354
COLLECTED BY	:		REG. NO./LAB NO.	: 012503160013
REFERRED BY	: FORTIS HOSPITAL (MOHALI)		<b>REGISTRATION DATE</b>	: 16/Mar/2025 08:29 AM
BARCODE NO.	:01527164		COLLECTION DATE	: 16/Mar/2025 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 16/Mar/2025 09:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WEI	LINESS PANEL: 1.	5
			DOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H		14.8	gm/dL	12.0 - 17.0
by CALORIMETRIC			U U	
RED BLOOD CELL ( by hydro dynamic f	KBC) COUN I OCUSING, ELECTRICAL IMPEDENCE	4.84	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	45.3	%	40.0 - 54.0
•	AR VOLUME (MCV)	93.6	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER	30.5	nd	27.0 - 34.0
	AR HAEMOGLOBIN (MCH) utomated hematology analyzer	30.5	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.6	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	14	%	11.00 - 16.00
-	utomated hematology analyzer UTION WIDTH (RDW-SD)	10.2	fL	35.0 - 56.0
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	49.3	IL	55.0 - 56.0
MENTZERS INDEX by CALCULATED		19.34	RATIO	BETA THALASSEMIA TRAIT: <
by CALCOLATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IND by calculated	DEX	27	RATIO	BETA THALASSEMIA TRAIT:< 65.0
2				IRON DEFICIENCY ANEMIA: >
WIITE DI AAD AE				65.0
<b>WHITE BLOOD CE</b> FOTAL LEUCOCYTE		6600	/cmm	4000 - 11000
	(BY SF CUBE & MICROSCOPY	0000	/ cmm	4000 - 11000
by I LOW OIL OWELL	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED B	ΩΤ ΗΕΜΔΤΟΙ ΟΩΥ ΔΝΛΙ ΥΖΕΡ			
NUCLEATED RED E	RT HEMATOLOGY ANALYZER	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAM SARUP VERMA **AGE/ GENDER** : 76 YRS/MALE **PATIENT ID** :1793354 **COLLECTED BY** :012503160013 REG. NO./LAB NO. : **REFERRED BY** : FORTIS HOSPITAL (MOHALI) **REGISTRATION DATE** : 16/Mar/2025 08:29 AM :01527164 **BARCODE NO. COLLECTION DATE** :16/Mar/2025 08:50AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 16/Mar/2025 09:30AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 76<sup>H</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 17<sup>L</sup> LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 BASOPHILS % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **IMMATURE GRANULOCTE (IG) %** 0 % 0 - 5.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 5016 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 1122 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 132 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 330 ABSOLUTE MONOCYTE COUNT /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 /cmm 0.0 - 999.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 105000<sup>L</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.14 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 16<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 57000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 63.7<sup>H</sup> % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



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Test Name		Value	Unit	<b>Biological Reference interval</b>
	BUTION WIDTH (PDW)	16.5	%	15.0 - 17.0
ADVICE		KINDL	Y CORRELATE CLINICALI	.Y

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			. 10/ Mai/ 2020 12.101 M
Test Name		Value	Unit	Biological Reference interva
		YLATED HAEMOG		
WHOLE BLOOD by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c): rmance liquid chromatography)	6.9 <sup>H</sup>	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA	EMOGLOBIN (HbA1c):			
WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6.9 <sup>H</sup>	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A	% mg/dL DA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A	% mg/dL DA): <u>TED HEMOGLOGIB</u> <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A GLYCOSYLA	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A GLYCOSYLA Goals of Thera	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years py:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 <sup>H</sup> 151.33 <sup>H</sup> ABETES ASSOCIATION (A GLYCOSYLA	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years py:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

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.

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 faisely 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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IENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
est Name		Value Unit	Biological Reference interval
y RED CELL AGGRE TERPRETATION: ESR is a non-speci mune disease, but An ESR can be affe C-reactive proteir	t does not tell the health practitione ected by other conditions besides in be used to monitor disease activity	r exactly where the inflammation is in t flammation. For this reason, the ESR is	ation associated with infection, cancer and auto
vstemic lupus eryth DNDITION WITH LO low ESR can be see volycythaemia), sig s sickle cells in sick OTE: ESR and C - reactiv Generally, ESR doc CRP is not affected If the ESR is eleval Women tend to ha Drugs such as dex	W ESR en with conditions that inhibit the nu nificantly high white blood cell cour le cell anaemia) also lower the ESR ve protein (C-RP) are both markers o es not change as rapidly as does CRF I by as many other factors as is ESR, ted, it is typically a result of two typ ave a higher ESR, and menstruation a	f inflammation. P, either at the start of inflammation or <b>making it a better marker of inflammati</b> es of proteins, globulins or fibrinogen. and pregnancy can cause temporary ele	such as a high red blood cell count formalities. Some changes in red cell shape (suc as it resolves. <b>on.</b>





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugarı MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	ICAL CHEMIST	RY/BIOCHEMIST ASTING (F)	'nY

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Page 6 of 20





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Test Name		Value	Unit	<b>Biological Reference interval</b>
			OFILE : BASIC	
HOLESTEROL TO	TAL SEDIM	129.72		OPTIMAL: < 200.0
by CHOLESTEROL 10		129.72	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S	ERUM PHATE OXIDASE (ENZYMATIC)	87.15	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM fion	48.82	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0
		00.47	( )7	HIGH HDL: $> OR = 60.0$
LDL CHOLESTERO by CALCULATED, SPI	L: SERUM ECTROPHOTOMETRY	63.47	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 CHOLES by CALCULATED, SPI	TEROL: SERUM ECTROPHOTOMETRY	80.9	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER by CALCULATED, SPI	OL: SERUM ectrophotometry	17.43	mg/dL	0.00 - 45.00
OTAL LIPIDS: SEI	RUM ectrophotometry	346.59 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.66	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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50 F

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		1.3	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	1.79 <sup>L</sup>	RATIO	3.00 - 5.00

INTERPRETATION: 1. Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	1.28 <sup>H</sup>	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.33	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.95	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	19.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	23.3	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.82	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	104.89	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRON	L TRANSFERASE (GGT): SERUM PHTOMETRY	15.49	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.61	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.14	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.47	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.68	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.

Dr. Vinay Chopra

# **INCREASED:**

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. RAM SARUP VERMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1793354
COLLECTED BY	:	REG. NO./LAB NO.	: 012503160013
REFERRED BY	: FORTIS HOSPITAL (MOHALI)	<b>REGISTRATION DATE</b>	: 16/Mar/2025 08:29 AM
BARCODE NO.	:01527164	COLLECTION DATE	: 16/Mar/2025 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Mar/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
Test Name		Value Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

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



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Dr. Vinay Cho MD (Pathology & I Chairman & Const		licrobiology)		(Pathology)
NAME	: Mr. RAM SARUP VERMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1793354
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANT'	Г	
Test Name		Value	Unit	Biological Reference interva
	KIDNE	Y FUNCTI	ON TEST (COMPLETE)	)
UREA: SERUM		35.47	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SER	/ATE DEHYDROGENASE (GLDH) UM	1.27	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	CTROPHOTOMETERY	1.67		
	ROGEN (BUN): SERUM	16.57	mg/dL	7.0 - 25.0
-	ROGEN (BUN)/CREATININE	13.05	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININ		27.93	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUN by URICASE - OXIDAS		3.63	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.18	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SI		2.93	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL	DATE, SPECTROPHOTOMETRY	2.00	ing/ uL	2.00 1.10
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV	/F ELECTRODE)	137.2	mmol/L	135.0 - 150.0
POTASSIUM: SERU	Μ	4.08	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUM		102.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV		102.9	IIIII01/L	90.0 - 110.0
ESTIMATED GLON	MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	58.6		
(eGFR): SERUM by CALCULATED				
INTERPRETATION				

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.

3. GI haemorrhage.



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Page 11 of 20

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Vinay ChopraDr. Yugam ChopraPathology & Microbiology)MD (Pathology)man & Consultant PathologistCEO & Consultant Pathologist				
JAME	: Mr. RAM SARUP VERMA					
AGE/ GENDER	: 76 YRS/MALE	PATIENT II		: 1793354		
COLLECTED BY		REG. NO./L	AB NO.	:012503160013		
REFERRED BY	·	REGISTRAT		: 16/Mar/2025 08:		
	: FORTIS HOSPITAL (MOHALI)					
BARCODE NO.	: 01527164	COLLECTIO		: 16/Mar/2025 08:		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	; DATE	: 16/Mar/2025 12:	28PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	SALA CANTT				
Test Name		Value	Unit	Biologica	al Reference interval	
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular neci			ructive uropa	athy).		
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular neci 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 9. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ir 2. Cephalosporin the ESTIMATED GLOMERI 0. CKD STAGE 0. G1	20:1) WITH ELEVATED CREATININE LEV a (BUN rises disproportionately more superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent in of inappropiate antidiuretic harmone 10:1) WITH INCREASED CREATININE: apy (accelerates conversion of creatin releases muscle creatinine). who develop renal failure. D: osis (acetoacetate causes false increatin creased BUN/creatinine ratio). rapy (interferes with creatinine meas ULAR FILTERATION RATE: DESCRIPTION Normal kidney function	than creatinine) (e.g. obstocution of extracellular fluid). blood). due to tubular secretion e to creatinine). se in creatinine with certation urement). GFR (mL/min/1.73r >90	of urea. in methodolo	ogies,resulting in norm SOCIATED FINDINGS No proteinuria	al ratio when dehydrat	
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular neci Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Diabetic ketoacido hould produce an ir CED STAGE CKD STAGE	20:1) WITH ELEVATED CREATININE LEV a (BUN rises disproportionately more superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent in of inappropiate antidiuretic harmone 10:1) WITH INCREASED CREATININE: apy (accelerates conversion of creatin releases muscle creatinine). who develop renal failure. D: osis (acetoacetate causes false increatin creased BUN/creatinine ratio). rapy (interferes with creatinine meas ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	than creatinine) (e.g. obstocut of extracellular fluid). blood). due to tubular secretion e to creatinine). se in creatinine with certa urement). GFR (mL/min/1.73r	of urea. in methodolo	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrat	
NCREASED RATIO (>2 . Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< . Acute tubular neci 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 7. Phenacimide theration 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido hould produce an ir 1. Cephalosporin the <u>STIMATED GLOMERI</u> <u>G1</u> <u>G2</u>	20:1) WITH ELEVATED CREATININE LEV         a (BUN rises disproportionately more superimposed on renal disease.         10:1) WITH DECREASED BUN :         rosis.         nd starvation.         e.         ecreased urea synthesis.         (urea rather than creatinine diffuses monemias (urea is virtually absent in of inappropiate antidiuretic harmone         10:1) WITH INCREASED CREATININE:         apy (accelerates conversion of creatin releases muscle creatinine).         who develop renal failure.         D:         osis (acetoacetate causes false increatin reased BUN/creatinine ratio).         rapy (interferes with creatinine meas ULAR FILTERATION RATE:         DESCRIPTION         Normal kidney function         Kidney damage with normal or high GFR	than creatinine) (e.g. obst out of extracellular fluid). blood). due to tubular secretion e to creatinine). se in creatinine with certa urement). GFR (mL/min/1.73r >90 >90	of urea. in methodolo	ogies,resulting in norm SOCIATED FINDINGS No proteinuria	al ratio when dehydrat	
NCREASED RATIO (>2 . Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< . Acute tubular neci 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 7. Phenacimide theration 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido hould produce an ir 8. Cephalosporin the <u>STIMATED GLOMER</u> CKD STAGE G1	20:1) WITH ELEVATED CREATININE LEV a (BUN rises disproportionately more superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent in of inappropiate antidiuretic harmone 10:1) WITH INCREASED CREATININE: apy (accelerates conversion of creatin releases muscle creatinine). who develop renal failure. D: osis (acetoacetate causes false increatin creased BUN/creatinine ratio). rapy (interferes with creatinine meas ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	than creatinine) (e.g. obst out of extracellular fluid). blood). due to tubular secretion e to creatinine). se in creatinine with certa urement). GFR (mL/min/1.73r >90 >90 60 -89	of urea. in methodolo	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrat	
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular neci 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ir 2. Cephalosporin the <u>ESTIMATED GLOMER</u> <u>G1</u> <u>G2</u> <u>G3</u>	20:1) WITH ELEVATED CREATININE LEV         a (BUN rises disproportionately more superimposed on renal disease.         10:1) WITH DECREASED BUN :         rosis.         nd starvation.         e.         ecreased urea synthesis.         (urea rather than creatinine diffuses monemias (urea is virtually absent in of inappropiate antidiuretic harmone         10:1) WITH INCREASED CREATININE:         apy (accelerates conversion of creatin releases muscle creatinine).         who develop renal failure.         D:         osis (acetoacetate causes false increatin reased BUN/creatinine ratio).         rapy (interferes with creatinine meas ULAR FILTERATION RATE:         DESCRIPTION         Normal kidney function         Kidney damage with normal or high GFR         Mild decrease in GFR	than creatinine) (e.g. obst out of extracellular fluid). blood). due to tubular secretion e to creatinine). se in creatinine with certa urement). GFR (mL/min/1.73r >90 >90 60 -89	of urea. in methodolo	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrat	





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CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA	<b>REPORTING DATE</b> CANTT	: 16/Mar/2025 12:28PM
BARCODE NO.	: 01527164	<b>COLLECTION DATE</b>	: 16/Mar/2025 08:50AM
<b>REFERRED BY</b>	: FORTIS HOSPITAL (MOHALI)	<b>REGISTRATION DATE</b>	: 16/Mar/2025 08:29 AM
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012503160013
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1793354
NAME	: Mr. RAM SARUP VERMA		
	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbic Chairman & Consultant Pa		(Pathology)

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



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

MBBS, MD (PATHOLOGY)







	Dr. Vinay Chop MD (Pathology & M		Dr. Yugam MD	(Pathology)
	Chairman & Consult	tant Pathologist	CEO & Consultant	Pathologist
NAME	: Mr. RAM SARUP VERMA			
AGE/ GENDER	: 76 YRS/MALE	PA	FIENT ID	: 1793354
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012503160013
<b>REFERRED BY</b>	: FORTIS HOSPITAL (MOHALI)	RE	GISTRATION DATE	: 16/Mar/2025 08:29 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		IDON DD	OFH F	
		IRON PR		
IRON: SERUM	TROPHOTOMETRY	111.31	µg/dL	59.0 - 158.0
	ON BINDING CAPACITY (UIBC)	240.97	μg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	352.28	μg/dL	230 - 430

		BON	BROFH F	
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY		111.31	μg/dL	59.0 - 158.0
UNSATURATED IRON BINDING CA		240.97	μg/dL	150.0 - 336.0
by FERROZINE, SPECTROPHOTOMETER TOTAL IRON BINDING CAPACITY SERUM		352.28	µg/dL	230 - 430
by SPECTROPHOTOMETERY %TRANSFERRIN SATURATION: SE by CALCULATED, SPECTROPHOTOMETE		31.6	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)		250.12	mg/dL	200.0 - 350.0
INTERPRETATION:-				
VARIABLES	ANEMIA OF CHROI	VIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERLIM IRON:	Normal to Re	duced	Reduced	Normal

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
IPON:			

## 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.
 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):** 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 PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)	
NAME	: Mr. RAM SARUP VERMA				
AGE/ GENDER	: 76 YRS/MALE	PATIH	ENT ID	: 1793354	
COLLECTED BY	:	REG. N	NO./LAB NO.	:012503160013	
REFERRED BY	: FORTIS HOSPITAL (MOHALI)	REGIS	<b>TRATION DATE</b>	: 16/Mar/2025 08:29 AM	
BARCODE NO.	:01527164	COLLI	ECTION DATE	: 16/Mar/2025 08:50AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 16/Mar/2025 02:18PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference in	terval
		ENDOCRINO	DLOGY		
	тну	ENDOCRINO YROID FUNCTION			
TRIIODOTHYRONI		<b>ROID FUNCTION</b> 0.854		0.35 - 1.93	
by CMIA (CHEMILUMIN THYROXINE (T4): 1	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS.	<b>EXAMPLE A CONTACT OF CONTACTONTACT OF CONTACTONTO OF CONTACT OF CONTACT OF C</b>	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM vescent microparticle immunoas. SERUM	<b>XROID FUNCTION</b> 0.854 SAY) 7.46 SAY) M 4.663	<b>TEST: TOTAL</b> ng/mL		
by CMIA (CHEMILUMIN THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNOAS SERUM VESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERUI VESCENT MICROPARTICLE IMMUNOAS	<b>XROID FUNCTION</b> 0.854 SAY) 7.46 SAY) M 4.663	<b>TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): 3 by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNOAS SERUM VESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERUI VESCENT MICROPARTICLE IMMUNOAS RASENSITIVE	VROID FUNCTION 0.854 SAY) 7.46 SAY) M 4.663 SAY) between 2-4 a.m and at a m 1 stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50%.Hence t</i> etabolically active hormones, thyroxine (T4)a	
by CMIA (CHEMILUMIN THYROXINE (T4): 3 by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS SERUM NESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERUI NESCENT MICROPARTICLE IMMUNOAS TRASENSITIVE circadian variation, reaching peak levels l measured serum TSH concentrations. TSH ilure at any level of regulation of the hyp	VROID FUNCTION 0.854 SAY) 7.46 SAY) M 4.663 SAY) between 2-4 a.m and at a m 1 stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50%.Hence t</i> etabolically active hormones, thyroxine (T4)a	

CLINICAL CONDITION	13	14	ISH
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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mr. RAM SARUP VERMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1793354
COLLECTED BY	:	REG. NO./LAB NO.	: 012503160013
<b>REFERRED BY</b>	: FORTIS HOSPITAL (MOHALI)	<b>REGISTRATION DATE</b>	: 16/Mar/2025 08:29 AM
BARCODE NO.	: 01527164	COLLECTION DATE	: 16/Mar/2025 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Mar/2025 02:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	
			/

Test Name			Value	Unit	t	Biological Reference interval
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	
	RECO	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

### **INCREASED TSH LEVELS:**

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine 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 goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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





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







		<b>y Chopra</b> ogy & Microbiology) « Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM SARUP VERM	IA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
	V	TAMIN D/25 HYI	DROXY VITAMIN D	3
	DROXY VITAMIN D3): SE ESCENCE IMMUNOASSAY)	RUM <b>9.2<sup>L</sup></b>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0
NTFRPRFTATION:				SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	
DEFI	FICIENT:	21 - 29	n	TOXICITY: > 100.0 g/mL
INSUF PREFFERI INTOXI 1.Vitamin D compou	FICIENT: ED RANGE: CATION:	21 - 29 30 - 100 > 100 y ergocalciferol (from pla	n n ants, Vitamin D2), or chc	TOXICITY: > 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. RAM SARUP VERMA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNOASS	112 <sup>L</sup>	pg/mL DECREASED VITAMIN	NB12
1.Ingestion of Vitan		1.Pregr		NB12
2.Ingestion of Estro			GS:Aspirin, Anti-convulsants	, Colchicine
3.Ingestion of Vitan			nol Igestion	
I Honotocollulor in			raceptive Harmones	
4.Hepatocellular in	o dicordor			
4.Hepatocellular In 5.Myeloproliferativ 6.Uremia	ve disorder		nodialysis iple Myeloma	
5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie	lamin) is necessary for hematopole tained only from animal proteins a itamin B12 stores very economical	6. Mult esis and norma and requires in ly, reabsorbing	iple Myeloma al neuronal function. Itrinsic factor (IF) for absorp y vitamin B12 from the ileun	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM SARUP VERMA			
AGE/ GENDER	: 76 YRS/MALE	PA	TIENT ID	: 1793354
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
<b>PHYSICAL EXAMI</b> QUANTITY RECIEV	URINE ROU NATION	CLINICAL PA	DSCOPIC EXAMINA	ATION
v	ED TANCE SPECTROPHOTOMETRY	10	IIII	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		CLEAR		CLEAR
SPECIFIC GRAVITY	CTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		1+		NEGATIVE (-ve)
pH		6.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (	-ve)	NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (	-ve) /HPF	0 - 3





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NANCE



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

DAM CADUD VEDMA

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

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AGE/ GENDER	: 76 YRS/MALE	PATIENT	ID	: 1793354
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CLIENT ADDRESS	: 0349/1, NICHULSON KUAD, AN	IDALA CANTI		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	IDALA CANTI		
Test Name	: 6349/1, NICHOLSON ROAD, AN	Value	Unit	Biological Reference interval
Test Name PUS CELLS			Unit /HPF	<b>Biological Reference interval</b> 0 - 5
Test Name PUS CELLS by MICROSCOPY ON EPITHELIAL CELL	CENTRIFUGED URINARY SEDIMENT	Value		

CASTS<br/>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)BACTERIA<br/>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)OTHERS<br/>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA)ABSENTABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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



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