

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD ( CEO & Consultant I	Pathology)
NAME	: Mr. SARABJEE SINGH			
AGE/ GENDER	: 43 YRS/MALE	]	PATIENT ID	: 1666234
COLLECTED BY	: SURJESH	]	REG. NO./LAB NO.	: 012411090020
REFERRED BY	:	]	REGISTRATION DATE	: 09/Nov/2024 10:04 AM
BARCODE NO.	: 01520409		COLLECTION DATE	: 09/Nov/2024 10:18AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Nov/2024 10:47AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	'HYA WE	LLNESS PANEL: D	
			OD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
AAEMOGLOBIN (H		14.4	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (	DRC) COUNT	5.44 <sup>H</sup>	Millions/o	cmm 3.50 - 5.00
	OCUSING, ELECTRICAL IMPEDENCE			5.50 - 5.00
PACKED CELL VOLI	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	46.1	%	40.0 - 54.0
MEAN CORPUSCUL	AR VOLUME (MCV)	84.7	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	26.5 <sup>L</sup>	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.3 <sup>L</sup>	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.6	%	11.00 - 16.00
	UTION WIDTH (RDW-SD)	46.1	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	15 57	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		15.57	KATIO	13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INI	DEX	22.76	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
	LLS (WBCS)			
WHITE BLOOD CE		5750	/cmm	4000 - 11000
TOTAL LEUCOCYTE		0700		
FOTAL LEUCOCYTE	E COUNT (TLC) / by sf cube & microscopy BLOOD CELLS (nRBCS)			0.00 - 20.00
NUCLEATED RED E	Y BY SF CUBE & MICROSCOPY	NIL NIL	%	0.00 - 20.00 < 10 %

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SARABJEE SINGH AGE/ GENDER : 43 YRS/MALE **PATIENT ID** :1666234 **COLLECTED BY** : SURJESH :012411090020 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :09/Nov/2024 10:04 AM : **BARCODE NO.** :01520409 **COLLECTION DATE** :09/Nov/2024 10:18AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Nov/2024 10:47AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 55 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 31 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ЯH EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3163 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1782 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 460<sup>H</sup> /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 345 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 199000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.28by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 14<sup>H</sup> MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 112000<sup>H</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 56.3<sup>H</sup> PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.315.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra



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SARABJEE SINGH YRS/MALE RJESH 520409 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AM ERYTHRO VTATION RATE (ESR)	RI RJ CC RJ MBALA CANTT Value	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE Unit	: 1666234 : 012411090020 : 09/Nov/2024 10:04 AM : 09/Nov/2024 10:18AM : 09/Nov/2024 11:05AM Biological Reference interval
RJESH 520409 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AM ERYTHRO JTATION RATE (ESR)	RI RI CO RI MBALA CANTT Value	EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE Unit	: 012411090020 : 09/Nov/2024 10:04 AM : 09/Nov/2024 10:18AM : 09/Nov/2024 11:05AM Biological Reference interval
520409 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AM <b>ERYTHRO</b> JTATION RATE (ESR)	RI CC RI MBALA CANTT Value	EGISTRATION DATE DLLECTION DATE EPORTING DATE Unit	: 09/Nov/2024 10:04 AM : 09/Nov/2024 10:18AM : 09/Nov/2024 11:05AM Biological Reference interval
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49/1, NICHOLSON ROAD, AM ERYTHRO JTATION RATE (ESR)	ABALA CANTT Value CYTE SEDIMI	Unit	Biological Reference interval
<b>ERYTHRO</b> VTATION RATE (ESR)	Value CYTE SEDIMI		
VTATION RATE (ESR)	CYTE SEDIMI		
VTATION RATE (ESR)		ENTATION RATE (	FCD)
sus conditions that inhibit the no- tly high white blood cell cour anaemia) also lower the ESR ein (C-RP) are both markers o change as rapidly as does CRF many other factors as is ESR, is s typically a result of two typi- gher ESR, and menstruation a	ormal sedimentat nt (leucocytosis) , of inflammation. P, either at the sta <b>making it a better</b> yes of proteins, glo and prognancy ca	tion of red blood cells, s and some protein abno art of inflammation or a <b>marker of inflammation</b> obulins or fibrinogen. n cause temporary eleva	n. ations.
cha ma s t igh	ange as rapidly as does CRF any other factors as is ESR, typically a result of two typ ner ESR, and menstruation thyldopa, oral contraceptiv	ange as rapidly as does CRP, either at the sta any other factors as is ESR, making it a better typically a result of two types of proteins, glo rer ESR, and menstruation and pregnancy ca thyldopa, oral contraceptives, penicillamine	ange as rapidly as does CRP, either at the start of inflammation or a any other factors as is ESR, making it a better marker of inflammation typically a result of two types of proteins, globulins or fibrinogen. her ESR, and menstruation and pregnancy can cause temporary eleva thyldopa, oral contraceptives, penicillamine procainamide, theophy





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Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI		TRY/BIOCHEMIST FASTING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	125.17 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

**IN ACCRDANCE 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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Fest Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFI	LE : BASIC	
HOLESTEROL TO by CHOLESTEROL O		190.14	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	244.35 <sup>H</sup>	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	L (DIRECT): SERUM 10N	28.68 <sup>L</sup>	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0
LDL CHOLESTERO by CALCULATED, SPE		112.59	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLES' by Calculated, spe		161.46 <sup>H</sup>	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
LDL CHOLESTER		48.87 <sup>H</sup>	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE	RUM	624.63	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HI by CALCULATED, SPE		6.63 <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

Ľ7 2.54

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		3.93 <sup>H</sup>	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	8.52 <sup>H</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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	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.48	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.11	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.37	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[ /RIDOXAL PHOSPHATE	27.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	55.6 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.49	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	144.39 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	31.95	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.45	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.05	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		2.4	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.69	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:**

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



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INTERPRETATION





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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).

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



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50 9001 . 2008 CENT				
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	KIDN	EY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		19.51	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SER	MATE DEHYDROGENASE (GLDH)	1.28	mg/dL	0.40 - 1.40
	CTROPHOTOMETERY	1.20	liig/ uL	0.40 - 1.40
	ROGEN (BUN): SERUM	9.12	mg/dL	7.0 - 25.0
-	ROGEN (BUN)/CREATININE	7.12 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM		7.12		
by CALCULATED, SPI UREA/CREATININ	ECTROPHOTOMETRY	15.24	RATIO	
	ECTROPHOTOMETRY			
URIC ACID: SERUN by URICASE - OXIDAS		7.39	mg/dL	3.60 - 7.70
CALCIUM: SERUM	SET ENOXIDAGE	9.91	mg/dL	8.50 - 10.60
-	ECTROPHOTOMETRY	0.00		0.00 4.70
PHOSPHOROUS: SI by PHOSPHOMOLYBI	EKUM DATE, SPECTROPHOTOMETRY	3.33	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		141.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIN POTASSIUM: SERU		4.05	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUN		105.98	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	71.2		
	ioon pro, and post ronal azotomia			

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology)		<b>fugam Ch</b> MD (Path nsultant Patho	ology)		
NAME	: Mr. SARABJ	EE SINGH						
AGE/ GENDER	: 43 YRS/MAL	Ξ		PATIENT ID	:1	666234		
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	. :0	124110900	20	
REFERRED BY				REGISTRATION D		9/Nov/2024		
BARCODE NO.	:01520409			COLLECTION DAT		9/Nov/2024		
CLIENT CODE.	: KOS DIAGNO			REPORTING DATI	E :0	9/Nov/2024 1	12:02PM	
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMI	BALA CANTT					
Test Name			Value	Un	it	Biolog	gical Refere	ence interva
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< <sup>2</sup>	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR	TED CREATININE LEV roportionately more n renal disease.	ELS:	ne) (e.g. obstructive	e uropathy).			
<ul> <li>P. Certain drugs (e.g.,</li> <li>INCREASED RATIO (&gt;2</li> <li>I. Postrenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>1. Acute tubular necr</li> <li>2. Low protein diet ar</li> <li>3. Severe liver disease</li> <li>4. Other causes of de</li> <li>5. Repeated dialysis (</li> <li>6. Inherited hyperam</li> <li>7. SIADH (syndrome of</li> <li>8. Pregnancy.</li> <li>DECREASED RATIO (</li> <li>7. Nabdomyolysis (r</li> <li>8. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido</li> <li>should produce an in</li> <li>2. Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> <li>G2</li> <li>G3a</li> <li>G3b</li> </ul>	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2: creased urea syn urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop reasons (acetoacetate creased BUN/creasons (interferes of LAR FILTERATION Nor Nor Nor Nor Nor	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : The creatinine diffuses is virtually absent in ntidiuretic harmone CASED CREATININE: conversion of creatin creatinine). hal failure. The causes false increated extinine ratio). with creatinine meas NATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR ld decrease in GFR erate decrease in GFR	ELS: than creatinin out of extract blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). lar secretion of urea ne). ne with certain met <u>hL/min/1.73m2 ) &gt;90 &gt;90 60 -89 30-59</u>	hodologies,r <b>ASSOCIA</b> Presence	esulting in no TED FINDINGS roteinuria e of Protein , or cast in urin	<u> </u>	vhen dehydr
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2 G3a	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2: creased urea syn urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop reasons (acetoacetate creased BUN/creasons (interferes of LAR FILTERATION Nor Nor Nor Nor Nor	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : The creatinine diffuses is virtually absent in ntidiuretic harmone CASED CREATININE: conversion of creatin treatinine). hal failure. Causes false increate extinine ratio). with creatinine meas NATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR	ELS: than creatinin out of extract blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). lar secretion of urea ne). ne with certain met nL/min/1.73m2 ) >90 >90 60 - 89	hodologies,r <b>ASSOCIA</b> Presence	<b>TED FINDINGS</b> roteinuria e of Protein ,	<u> </u>	vhen dehydr





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant P	iology) MI	m <b>Chopra</b> D (Pathology) nt Pathologist
NAME	: Mr. SARABJEE SINGH		
AGE/ GENDER	: 43 YRS/MALE	PATIENT ID	: 1666234
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411090020
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 09/Nov/2024 10:04 AM
BARCODE NO.	: 01520409	COLLECTION DATE	: 09/Nov/2024 10:18AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 09/Nov/2024 12:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	Vi	alue 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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AGE/ GENDER: 43 YCOLLECTED BY: SURREFERRED BY:BARCODE NO.: 0152CLIENT CODE.: KOS	20409 S DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT VITAMIN D3): SERUN SE IMMUNOASSAY)	R R C R D, AMBALA CANTT Value VITA AMIN D/25 HYI	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	9 <b>3</b> DEFICIH INSUFF SUFFICI	D:04 AM D:18AM
COLLECTED BY : SUR REFERRED BY : BARCODE NO. : 0152 CLIENT CODE. : KOS CLIENT ADDRESS : 6349 Test Name //ITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) <u>NTERPRETATION:</u> DEFICIENT: INSUFFICIENT: PREFFERED RANG	RJESH 20409 5 DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT VITAMIN D3): SERUN 2017 2017 2017 2017 2017 2017 2017 2017	R R C R D, AMBALA CANTT Value VITA VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	: 01241109002 : 09/Nov/2024 10 : 09/Nov/2024 10 : 09/Nov/2024 12 Biologic DEFICIN INSUFF SUFFICE TOXICIT	D:04 AM D:18AM 2:02PM cal Reference interval ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
REFERRED BY : BARCODE NO. : 0152 CLIENT CODE. : KOS CLIENT ADDRESS : 6343 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) NITERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	20409 S DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT VITAMIN D3): SERUN SE IMMUNOASSAY)	R C R D, AMBALA CANTT Value VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	: 09/Nov/2024 10 : 09/Nov/2024 10 : 09/Nov/2024 12 Biologie 3 DEFICIH INSUFF SUFFICI TOXICIT	D:04 AM D:18AM 2:02PM cal Reference interval ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
REFERRED BY : BARCODE NO. : 0152 CLIENT CODE. : KOS CLIENT ADDRESS : 6343 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	20409 S DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT VITAMIN D3): SERUN SE IMMUNOASSAY)	R C R D, AMBALA CANTT Value VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	: 09/Nov/2024 10 : 09/Nov/2024 12 Biologic 93 DEFICIH INSUFF SUFFICI TOXICIT	D:18AM 2:02PM cal Reference interval ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
BARCODE NO. : 0152 CLIENT CODE. : KOS CLIENT ADDRESS : 6343 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) (NTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	S DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT Y VITAMIN D3): SERUN DE IMMUNOASSAY)	C R D, AMBALA CANTT Value VITA VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	OLLECTION DATE EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	: 09/Nov/2024 10 : 09/Nov/2024 12 Biologic 93 DEFICIH INSUFF SUFFICI TOXICIT	D:18AM 2:02PM cal Reference interval ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
CLIENT CODE. : KOS CLIENT ADDRESS : 634 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	S DIAGNOSTIC LAB 19/1, NICHOLSON ROAD VIT Y VITAMIN D3): SERUN DE IMMUNOASSAY)	R O, AMBALA CANTT Value VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	EPORTING DATE Unit MINS DROXY VITAMIN D ng/mL	: 09/Nov/2024 12 Biologie 93 DEFICIH INSUFF SUFFICI TOXICIT	2:02PM <b>cal Reference interval</b> ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
CLIENT ADDRESS : 634 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC) INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	19/1, NICHOLSON ROAD VIT Y VITAMIN D3): SERUN SE IMMUNOASSAY)	o, AMBALA CANTT Value VITA AMIN D/25 HYI M 12.999 <sup>L</sup>	Unit MINS DROXY VITAMIN D ng/mL	Biologic 23 DEFICIH INSUFF SUFFICI TOXICIT	<b>cal Reference interval</b> ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCENC INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANG	Y VITAMIN D3): SERUN CE IMMUNOASSAY)	<b>VITA</b> AMIN D/25 HYI M 12.999 <sup>L</sup> < 20	MINS DROXY VITAMIN D ng/mL	9 <b>3</b> DEFICIH INSUFF SUFFICI TOXICIT	ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
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by CLIA (CHEMILUMINESCENC) <u>NTERPRETATION:</u> DEFICIENT: INSUFFICIENT: PREFFERED RANG	Y VITAMIN D3): SERUN CE IMMUNOASSAY)	M <b>12.999<sup>L</sup></b>	ng/mL	DEFICI INSUFF SUFFICE TOXICIT	ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0
DEFICIENT: INSUFFICIENT: PREFFERED RANG			n	na/mL	]
INSUFFICIENT: PREFFERED RANG					
	05	21-27	n	ng/mL	
INTOXICATION		30 - 100 > 100		ng/mL ng/mL	
<ol> <li>Vitamin D compounds are conversion of 7- dihydrochol 2.25-OHVitamin D represer tissue and tiahtly bound by a 3.Vitamin D plays a primary phosphate reabsorption, ske 4.Severe deficiency may lead DECREASED:</li> <li>Lack of sunshine exposure.</li> <li>Inadequate intake, malabs</li> <li>Depressed Hepatic Vitamir 4.Secondary to advanced Liv 5.Osteoporosis and Seconda 6.Enzyme Inducing drugs: an INCREASED:</li> <li>Hypervitaminosis D is Rare severe hypercalcemia and hy CAUTION: Replacement thera hypervitaminosis D</li> <li>NOTE:-Dark coloured individu interefere with Vitamin D absorption</li> </ol>	blecalciferol to Vitamin E nts the main body reseve a transport protein whil role in the maintenance eletal calcium deposition d to failure to mineralize sorption (celiac disease) n D 25- hvdroxylase acti- yer disease ary Hyperparathroidism hti-epileptic drugs like pl e, and is seen only after yperphophatemia. rapy in deficient individu	D3 in the skin upon U oir and transport form le in circulation. e of calcium homeosi n, calcium mobilizatio e newly formed osteo ) vity (Mild to Moderate du henytoin, phenobarb prolonged exposure uals must be monitore	Itraviolet exposure. n of Vitamin D and trans ratis. It promotes calciur on, mainly regulated by i oid in bone, resulting in r eficiency) ital and carbamazepine, to extremely high doses ed by periodic assessmer	sport form of Vitamin m absorption, renal c parathyroid harmone rickets in children and that increases Vitam s of Vitamin D. When nt of Vitamin D levels	D, being stored in adipose ealcium absorption and e (PTH). d osteomalacia in adults. in D metabolism. it occurs, it can result in in order to prevent





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	Microbiology) MD		(Pathology)	
NLE NOSTIC LAB	REG. NO./ REGISTR/ COLLECTI REPORTI	LAB NO. ATION DATE ION DATE	: 1666234 <b>: 012411090020</b> : 09/Nov/2024 10:04 AM : 09/Nov/2024 10:18AM : 09/Nov/2024 11:42AM	
V	alue	Unit	Biological Reference interval	
			ATION	
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	MD (Pathology & Microt Chairman & Consultant BJEE SINGH ALE NOSTIC LAB ICHOLSON ROAD, AMBAL CLI URINE ROUTINE COPHOTOMETRY	MD (Pathology & Microbiology) Chairman & Consultant Pathologis  BREE SINGH ALE PATIENT REG. NO./ REGISTR# COLLECT REG. NO./ REGISTR# COLLECT NOSTIC LAB REPORTE ICHOLSON ROAD, AMBALA CANTT  Value  CLEAR POPHOTOMETRY POPHOTOMET	MD (Pathology & Microbiology) Chairman & Consultant Pathologist BJEE SINGH ALE PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE COLLECTION DATE REPORTING DATE ICHOLSON ROAD, AMBALA CANTT Value Unit Value Unit ICHOLSON ROAD, AMBALA CANTT ICHOLSON ROAD, AMBALA CANTA ICHOLSON ROAD, AMBALA CANTA	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		4-6	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	4-0	/ 111 1	0 - 3	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT	

End Of Report



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