

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant P			Pathology)
NAME :	Mr. NARESH SHAHI			
AGE/ GENDER :	63 YRS/MALE		PATIENT ID	: 1818654
COLLECTED BY :			REG. NO./LAB NO.	:012504050004
<b>REFERRED BY</b> :			<b>REGISTRATION DATE</b>	: 05/Apr/2025 07:15 AM
	01528369		COLLECTION DATE	: 05/Apr/2025 07:22AM
	KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Apr/2025 08:58AM
CLIENT ADDRESS :	6349/1, NICHOLSON ROAD, AMBALA	A CANTT		
Test Name	V	alue	Unit	<b>Biological Reference interval</b>
	SWASTHY	A WF	LLNESS PANEL: G	
			DOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		15.3	gm/dL	12.0 - 17.0
by CALORIMETRIC		п	<b>N</b> (11):	2.50 5.00
RED BLOOD CELL (R by HYDRO DYNAMIC FOC	BC) COUN I CUSING, ELECTRICAL IMPEDENCE	5.3 <sup>H</sup>	Millions/c	2.50 - 5.00
PACKED CELL VOLU		48.8	%	40.0 - 54.0
MEAN CORPUSCULA	OMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	92.1	fL	80.0 - 100.0
by CALCULATED BY AUT	OMATED HEMATOLOGY ANALYZER			27.0.24.0
	R HAEMOGLOBIN (MCH)	28.9	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	31.4 <sup>L</sup>	g/dL	32.0 - 36.0
	OMATED HEMATOLOGY ANALYZER TION WIDTH (RDW-CV)	15.7	%	11.00 - 16.00
by CALCULATED BY AUT	OMATED HEMATOLOGY ANALYZER			
	UTION WIDTH (RDW-SD)	54.5	fL	35.0 - 56.0
MENTZERS INDEX		17.38	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IND	EX	87.04	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 74.1 IRON DEFICIENCY ANEMIA:
				>= 74.1
WHITE BLOOD CEL	LLS (WBCS)			
TOTAL LEUCOCYTE		13050 <sup>H</sup>	/cmm	4000 - 11000
•	Y SF CUBE & MICROSCOPY LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART	HEMATOLOGY ANALYZER			
NUCLEATED RED BI	LOOD CELLS (nRBCS) %	NIL	%	< 10 %
			•	





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

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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. NARESH SHAHI **AGE/ GENDER** : 63 YRS/MALE **PATIENT ID** :1818654 **COLLECTED BY** :012504050004 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :05/Apr/202507:15 AM **BARCODE NO.** :01528369 **COLLECTION DATE** :05/Apr/202507:22AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Apr/2025 08:58AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER DIFFERENTIAL LEUCOCYTE COUNT (DLC) **NEUTROPHILS** 60 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 31 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 7 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 2000 - 7500 /cmm 7830<sup>H</sup> by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 4046 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 261 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT /cmm 80 - 880 914<sup>H</sup> by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110/cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 168000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.2 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 16<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 30000 - 90000 110000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 68.5<sup>H</sup> % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 17 % 15.0 - 17.0



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

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NAME	: Mr. NARESH SHAHI		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	alue Unit	Biological Reference interval
by HYDRO DYNAMIC F ADVICE	OCUSING, ELECTRICAL IMPEDENCE	KINDLY CORRELATE CLIN	ICALLY

ADVICE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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NAME	: Mr. NARESH SHAHI			
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REFERRED BY		R	EGISTRATION DATE	: 05/Apr/2025 07:15 AM
BARCODE NO.	: 01528369		OLLECTION DATE	: 05/Apr/2025 07:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 05/Apr/2025 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 00/141/2020 12.101 W
Test Name		Value	Unit	<b>Biological Reference interva</b>
			EMOGLOBIN (HBA	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO	GLYCO HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	SYLATED HAI 7.5 <sup>H</sup> 168.55 <sup>H</sup>	EMOGLOBIN (HBA % mg/dL	<b>1C)</b> 4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	7.5 <sup>H</sup> 168.55 <sup>H</sup>	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION:	HAEMOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I	7.5 <sup>H</sup> 168.55 <sup>H</sup> Diabetes associat	% mg/dL ION (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION:	HAEMOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY)	7.5 <sup>H</sup> 168.55 <sup>H</sup> Diabetes associat	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non di	HAEMOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years At Risk (Prediabetes)	7.5 <sup>H</sup> 168.55 <sup>H</sup> Diabetes associat	% mg/dL TON (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non di	HAEMOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years	7.5 <sup>H</sup> 168.55 <sup>H</sup> Diabetes associat	% mg/dL TON (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non di	HAEMOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years At Risk (Prediabetes)	7.5 <sup>H</sup> 168.55 <sup>H</sup> DIABETES ASSOCIAT GLYC Goals of	% mg/dL TON (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00

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 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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AME	: Mr. NARESH SH	AHI			
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EFERRED BY	:			<b>REGISTRATION DATE</b>	: 05/Apr/2025 07:15 AM
ARCODE NO.	:01528369			COLLECTION DATE	: 05/Apr/2025 07:22AM
LIENT CODE.	: KOS DIAGNOSTI			REPORTING DATE	: 05/Apr/2025 09:39AM
LIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AM.	BALA CANTI		
Test Name			Value	Unit	<b>Biological Reference interval</b>
		ERYTHROC	YTE SED	IMENTATION RATE	(ESR)
RYTHROCYTES	EDIMENTATION F		18	mm/1st l	
ESR is a non-specif nmune disease, but An ESR can be affe s C-reactive protein This test may also	does not tell the heat cted by other condit	alth practitioner ions besides inf	exactly when lammation. F	re the inflammation is in th or this reason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
. ESR is a non-specifi nmune disease, but . An ESR can be affe s C-reactive protein . This test may also <b>ONDITION WITH LO</b> low ESR can be see bolycythaemia), sign s sickle cells in sick <b>IOTE:</b> . ESR and C - reactive . Generally, ESR dod . <b>CRP is not affected</b> . If the ESR is elevat . Women tend to ha	does not tell the hea acted by other condit be used to monitor of ematosus <b>W ESR</b> In with conditions the hificantly high white le cell anaemia) also e protein (C-RP) are es not change as rapi <b>by as many other fa</b> ed, it is typically a re- tive a higher ESR, and	alth practitioner ions besides inf disease activity at inhibit the nc blood cell coun lower the ESR. both markers of dly as does CRP <b>ctors as is ESR, n</b> soult of two type menstruation a	exactly when lammation. F and response prmal sedime t (leucocytos , either at the <b>naking it a be</b> es of proteins nd pregnancy	re the inflammation is in th or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a <b>tter marker of inflammatio</b> , globulins or fibrinogen. y can cause temporary eleva	e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as uch as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n. ations.
nmune disease, but . An ESR can be affet s C-reactive protein . This test may also <b>ONDITION WITH LO</b> . Iow ESR can be see bolycythaemia), sign s sickle cells in sick <b>IOTE:</b> . ESR and C - reactive . Generally, ESR doe . <b>CRP is not affected</b> . If the ESR is elevat . Women tend to ha . Drugs such as dexi	does not tell the hea acted by other condit be used to monitor of ematosus <b>W ESR</b> In with conditions the hificantly high white le cell anaemia) also e protein (C-RP) are es not change as rapi <b>by as many other fa</b> ed, it is typically a re- tive a higher ESR, and	alth practitioner ions besides inf disease activity at inhibit the nc blood cell coun lower the ESR. both markers of dly as does CRP ctors as is ESR, n esult of two type menstruation a al contraceptive	exactly when lammation. F and response prmal sedime t (leucocytos , either at the <b>naking it a be</b> es of proteins nd pregnancy	re the inflammation is in th or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a <b>tter marker of inflammatio</b> , globulins or fibrinogen. y can cause temporary eleva	e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n.
. ESR is a non-specifi nmune disease, but . An ESR can be affet s C-reactive protein . This test may also <b>ONDITION WITH LO</b> . Iow ESR can be see bolycythaemia), sign s sickle cells in sick <b>IOTE:</b> . ESR and C - reactiv . Generally, ESR doe . If the ESR is elevat . Women tend to ha . Drugs such as dexi	does not tell the hea acted by other condit be used to monitor of ematosus <b>W ESR</b> In with conditions the hificantly high white le cell anaemia) also e protein (C-RP) are is not change as rapia by as many other fa ed, it is typically a re we a higher ESR, and tran, methyldopa, or	alth practitioner ions besides inf disease activity at inhibit the nc blood cell coun lower the ESR. both markers of dly as does CRP ctors as is ESR, n esult of two type menstruation a al contraceptive	exactly when lammation. F and response prmal sedime t (leucocytos , either at the <b>naking it a be</b> es of proteins nd pregnancy	re the inflammation is in th or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a <b>tter marker of inflammatio</b> , globulins or fibrinogen. y can cause temporary eleva	e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as uch as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n. ations.
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Fest Name		Value	Unit	Biological Reference interval
	CLINIC	CAL CHEMISTRY	//BIOCHEMIS	TRY
VITERPRETATION I ACCORDANCE WIT A fasting plasma g A fasting plasma g set (after consumpti A fasting plasma g	on of 75 gms of glucose) is reco	s considered normal. 5 mg/dl is considered as g ommended for all such pa dl is highly suggestive of d	tients. iabetic state. A repea	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a atory for diabetic state.
ch patients. A fasti				



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Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		161.41	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	SERUM HATE OXIDASE (ENZYMATIC)	157.14 <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 CHOLESTERC by SELECTIVE INHIBITI	DL (DIRECT): SERUM	43.08	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		86.9	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, SPEC		118.33	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 CHOLESTER		31.43	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		479.96	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPEC	DL RATIO: SERUM	3.75	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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yhoira

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)



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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
NAME	: Mr. NARESH SHAHI				
AGE/ GENDER	: 63 YRS/MALE	P	ATIENT ID	: 1818654	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012504050004	
<b>REFERRED BY</b>	:	R	EGISTRATION DATE	: 05/Apr/2025 07:15 AM	
BARCODE NO.	: 01528369	C	OLLECTION DATE	: 05/Apr/2025 07:22AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 05/Apr/2025 01:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
LDL/HDL RATIO: S		2.02	RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 2.10 - 6.0	
by CALCULATED, SPE	CIROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	
TRIGLYCERIDES/I by CALCULATED, SPE	HDL RATIO: SERUM	3.65	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.

 Cow 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	Biological Reference interva
I est Ivallie		value	Unit	biological Reference interval
	LIVER H	FUNCTIO	ON TEST (COMPLETE	
BILIRUBIN TOTAL: SERUM		0.91	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SF	PECTROPHOTOMETRY		6	ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.22	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.69	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	1 RIDOXAL PHOSPHATE	26.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM	I RIDOXAL PHOSPHATE	43.8	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.61	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	83.05	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUN PHTOMETRY	M 38.84	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.64	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.12	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	Л	3.52 <sup>H</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	<sup>I</sup> M	1.17	RATIO	1.00 - 2.00

**INTERPRETATION** 

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

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

## **INCREASED:**

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





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>	1.3 (Slightly Increa	ased)

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

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

PROGNOSTIC SIGNIFICANCE:

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

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Test Name		Value	Unit	<b>Biological Reference interv</b>
	KIDNEY	Y FUNCTI	ON TEST (COMPLET	E)
UREA: SERUM		31.46	mg/dL	10.00 - 50.00
	TE DEHYDROGENASE (GLDH)			
CREATININE: SERU by ENZYMATIC, SPECTE		1.03	mg/dL	0.40 - 1.40
-	OGEN (BUN): SERUM	14.7	mg/dL	7.0 - 25.0
BLOOD UREA NITR	OGEN (BUN)/CREATININE	14.27	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPEC	TRADUCTOMETRY			
UREA/CREATININE		30.54	RATIO	
by CALCULATED, SPEC				
URIC ACID: SERUM by URICASE - OXIDASE	PEROVIDASE	5.15	mg/dL	3.60 - 7.70
CALCIUM: SERUM	PEROXIDASE	9.11	mg/dL	8.50 - 10.60
by ARSENAZO III, SPEC			-	
PHOSPHOROUS: SEF	RUM TE, SPECTROPHOTOMETRY	4.27	mg/dL	2.30 - 4.70
ELECTROLYTES	re, or contor nor owe net			
SODIUM: SERUM		139.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE				
POTASSIUM: SERUN by ISE (ION SELECTIVE		4.01	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		104.7	mmol/L	90.0 - 110.0
by ISE (ION SELECTIVE	,			
ESTIMATED GLOM	ERULAR FILTERATION RAT	<u>E</u>		
ESTIMATED GLOMI (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	81.6		

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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	· · · · , · · · ,	· · · ,				
Fest Name			Value	Unit	Biolo	ogical Reference interval
5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia	ke or productior xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu co:1) WITH ELEVA a (BUN rises disp	stomy) creatinine product cocorticoids) <b>TED CREATININE L</b> roportionately mo	tion) EVELS:	on, GI bleeding, thyrot ne) (e.g. obstructive ur		ndrome, high protein diet,
ourns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet ar 6. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 6. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients	iction plus ke or production xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu co:1) WITH ELEVA a (BUN rises disp superimposed o to:1) WITH DECRI osis. nd starvation. e. creased urea syr (urea rather thar monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates o eleases muscle o who develop rei	stomy) creatinine product cocorticoids) <b>TED CREATININE L</b> roportionately mo n renal disease. EASED BUN : the creatinine diffuse is virtually absent ntidiuretic harmon <b>CASED CREATININE</b> conversion of creatinine).	tion) EVELS: ore than creatini es out of extrac t in blood). ne) due to tubui :	ne) (e.g. obstructive ur ellular fluid). lar secretion of urea.		ndrome, high protein diet,
Excess protein inta aurns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO	iction plus ke or production xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu co:1) WITH ELEVA a (BUN rises disp superimposed o to:1) WITH DECRI osis. nd starvation. e. creased urea syr (urea rather thar monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates of eleases muscle of who develop rei	stomy) creatinine product cocorticoids) <b>TED CREATININE L</b> roportionately mo n renal disease. <b>EASED BUN :</b> the creatinine diffuse is virtually absent ntidiuretic harmon <b>CASED CREATININE</b> conversion of creatinine). nal failure.	tion) EVELS: ore than creatini t in blood). ne) due to tubu t ine to creatinir	ne) (e.g. obstructive ur ellular fluid).  ar secretion of urea. ne).	ropathy).	
5. Excess protein inta purns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 0. Prerenal azotemia 0. Prerenal azotemia 0. Acute tubular necr 9. Low protein diet ar 9. Severe liver disease 1. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. 0. Phenacimide thera 8. Rabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido	iction plus ke or production xia, high fever). (e.g. ureter colo iass (subnormal tetracycline, glu co:1) WITH ELEVA a (BUN rises disp superimposed o to:1) WITH DECRI osis. nd starvation. e. creased urea syr (urea rather thar monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates of eleases muscle of who develop rents sis (acetoacetate	stomy) creatinine product cocorticoids) <b>TED CREATININE L</b> roportionately mo n renal disease. <b>EASED BUN :</b> the creatinine diffuse is virtually absent ntidiuretic harmon <b>CASED CREATININE</b> conversion of creatine). that failure.	tion) EVELS: ore than creatini t in blood). ne) due to tubu t ine to creatinir	ne) (e.g. obstructive ur ellular fluid).  ar secretion of urea. ne).	ropathy).	ndrome, high protein diet, normal ratio when dehydratior
Excess protein inta urns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. VCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO	ction plus ke or production xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu co:1) WITH ELEVA a (BUN rises disp superimposed of to:1) WITH DECR osis. nd starvation. e. creased urea syr (urea rather than monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates of eleases muscle of who develop ref sis (acetoacetate creased BUN/cref apy (interferes v	stomy) creatinine product cocorticoids) <b>TED CREATININE L</b> roportionately mo n renal disease. <b>EASED BUN :</b> thesis. the creatinine diffuse is virtually absent ntidiuretic harmon <b>CASED CREATININE</b> conversion of creatinine). hal failure. the causes false increatinine ratio). with creatinine me	tion) EVELS: ore than creatini es out of extrac t in blood). ne) due to tubu tine to creatinir ease in creatini	ne) (e.g. obstructive ur ellular fluid).  ar secretion of urea. ne).	ropathy).	

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





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Test Name		Value 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

End Of Report \*\*\*





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