



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	MI	m Chopra D (Pathology) nt Pathologist	
NAME	: Mr. DEVINDER KAUSHIK				
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1632611	
COLLECTED BY	:		REG. NO./LAB NO.	: 012410020061	
REFERRED BY :			REGISTRATION DATE	: 02/Oct/2024 05:19 PM	
BARCODE NO. : 01518201			COLLECTION DATE	:02/Oct/2024 05:26PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Oct/2024 05:36PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	SWAS	THYA WE	LLNESS PANEL: GT		
	CON		OOD COUNT (CBC)		
RED BLOOD CELLS (R	BCS) COUNT AND INDICES		()		
HAEMOGLOBIN (HB)		11.6 ^L	gm/dL	12.0 - 17.0	
RED BLOOD CELL (RE	C) COUNT	4.84	Millions	/cmm 3.50 - 5.00	
PACKED CELL VOLUN	NE (PCV) Automated hematology analyzer	37 ^L	%	40.0 - 54.0	
	UTOMATED HEMATOLOGY ANALYZER	76.3 ^L	fL	80.0 - 100.0	
	R HAEMOGLOBIN (MCH)	23.9 ^L	pg	27.0 - 34.0	
	R HEMOGLOBIN CONC. (MCHC)	31.3 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) automated hematology analyzer	18.8 ^H	%	11.00 - 16.00	
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	53.5	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		15.76	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDE	X	29.55	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0	
WHITE BLOOD CELLS	<u>S (WBCS)</u>				
TOTAL LEUCOCYTE C	OUNT (TLC) / by sf cube & microscopy	4600	/cmm	4000 - 11000	
NUCLEATED RED BLC by AUTOMATED 6 PAF	DOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
	DOD CELLS (nRBCS) % <i>utomated hematology analyzer</i> DCYTE COUNT (DLC)	NIL	%	< 10 %	
NEUTROPHILS	/ BY SF CUBE & MICROSCOPY	52	%	50 - 70	

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & M Chairman & Consu	1icrobiology)	crobiology) MD (Pathology)		
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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AN	MBALA CANTT			
Test Name	Value	Unit	Biological Reference interval	
LYMPHOCYTES	28	%	20 - 40	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	11 ^H	%	1 - 6	
MONOCYTES	9	%	2 - 12	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS	0	%	0 - 1	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	70	0 - 1	
ABSOLUTE LEUKOCYTES (WBC) COUNT				
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2392	/cmm	2000 - 7500	
ABSOLUTE LYMPHOCYTE COUNT	1288	/cmm	800 - 4900	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT	Fo/H	/cmm	40 - 440	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	506 ^H	7011111	40 - 440	
ABSOLUTE MONOCYTE COUNT	414	/cmm	80 - 880	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	U	701111	0 110	
PLATELETS AND OTHER PLATELET PREDICTIVE MARK	<u>ERS.</u>			
PLATELET COUNT (PLT)	304000	/cmm	150000 - 450000	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT)	0.29	%	0.10 - 0.36	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.27	70	0.10-0.00	
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0	
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	72000	/cmm	30000 - 90000	
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	23.6	%	11.0 - 45.0	
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	16	%	15.0 - 17.0	
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD				



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 02/Oct/2024 07:22PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
	GL	YCOSYLATED HAEMO	GLOBIN (HBA1C)			
GLYCOSYLATED HAEM		YCOSYLATED HAEMO 8 ^H	GLOBIN (HBA1C) %	4.0 - 6.4		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI	OGLOBIN (HbA1c): mance liquid chromatography)			4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION:	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	8 ^H 182.9 ^H ETES ASSOCIATION (ADA):	% mg/dL	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FFERENCE GROUP	8 ^H 182.9 ^H ETES ASSOCIATION (ADA):	% mg/dL HEMOGLOGIB (HBAIC) ii	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB EFERENCE GROUP Detic Adults >= 18 years	8 ^H 182.9 ^H ETES ASSOCIATION (ADA):	% mg/dL HEMOGLOGIB (HBAIC) in <5.7	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At f	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8 ^H 182.9 ^H ETES ASSOCIATION (ADA):	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 – 6.4	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At f	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB EFERENCE GROUP Detic Adults >= 18 years	8 ^H 182.9 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At f	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8 ^H 182.9 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At I Dia	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	8 ^H 182.9 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED GLYCOSYLATED	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years < 7.0	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At I Dia	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8 ^H 182.9 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED Goals of Therapy: Actions Suggested:	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years	60.00 - 140.00		

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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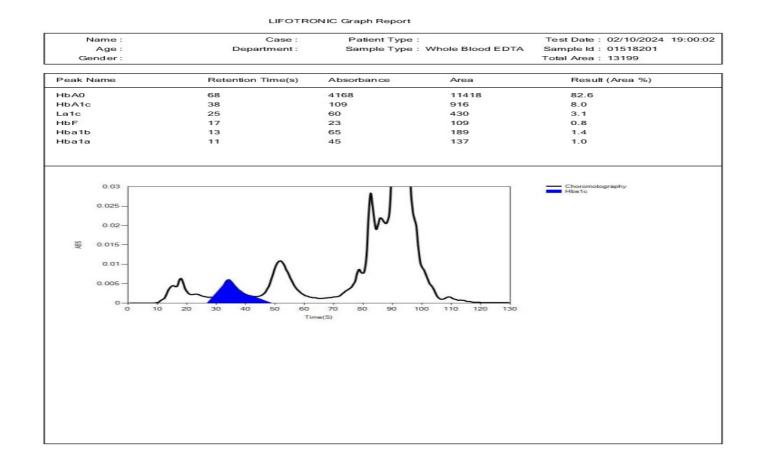


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Ir. DEVINDER KAUSHIK 5 YRS/MALE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE	: 1632611 : 012410020061
5 YRS/MALE	REG. NO./LAB NO.	: 012410020061
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OS DIAGNOSTIC LAB	REPORTING DATE	: 02/Oct/2024 07:22PM
349/1, NICHOLSON ROAD, AME	BALA CANTT	
	Volue	Biological Reference interval
	349/1, NICHOLSON ROAD, AM	349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit





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	MD (Path	ay Chopra ology & Microbiology) & Consultant Patholog		(Pathology)
NAME	: Mr. DEVINDER KAUS	SHIK		
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1632611
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BARCODE NO.	:01518201		COLLECTION DATE	: 02/Oct/2024 05:26PM
CLIENT CODE.	: KOS DIAGNOSTIC LAP		REPORTING DATE	: 02/Oct/2024 06:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
				a)
			IMENTATION RATE (ES	
	MENTATION RATE (ESR) GATION BY CAPILLARY PHO	15 TOMETRY	mm/1st k	nr 0 - 20
systemic lupus erythe CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	ematosus N ESR n with conditions that inh ificantly high white blood e cell anaemia) also lowe e protein (C-RP) are both s not change as rapidly as by as many other factors ed, it is typically a result of ve a higher ESR, and mension of the total statement of the total statement of the total statement of the total statement of the total statement of to	bibit the normal sedime d cell count (leucocytos er the ESR. markers of inflammatic s does CRP, either at th as is ESR, making it a bo of two types of proteins struation and pregnanc htraceptives, penicillan	entation of red blood cells, s sis), and some protein abno on. e start of inflammation or a etter marker of inflammation s, globulins or fibrinogen. y can cause temporary eleva	1.





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





IAME	: Mr. DEVINDER KAUSHIK			
GE/ GENDER	: 65 YRS/MALE	PATIE	ENT ID	: 1632611
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ARCODE NO.	: 01518201	COLLE	ECTION DATE	: 02/Oct/2024 05:26PM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Oct/2024 06:28PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/	BIOCHEMISTRY	
		GLUCOSE FAST	ING (F)	
LUCOSE FASTING (by glucose oxidas	F): PLASMA SE - PEROXIDASE (GOD-POD)	208.73 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
ITERPRETATION	HAMERICAN DIABETES ASSOCIAT	considered normal. mg/dl is considered as gl	ucose intolerant or pre	ediabetic. A fasting and post-prandial blood
A fasting plasma g A fasting plasma g	lucose level between 100 - 125 r ion of 75 gms of glucose) is recor			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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KOS Diagnostic Lab (A Unit of KOS Healthcare)	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist
DER KAUSHIK	

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O.		101.96	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SE by GLYCEROL PHOS	RUM phate oxidase (enzymatic)	205.23 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBIT		45.76	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: by calculated, spi		15.15	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spi	EROL: SERUM ECTROPHOTOMETRY	56.2	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL by CALCULATED. SPI		41.05	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	M	409.15	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL		2.23	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SE by calculated, sp	RUM ECTROPHOTOMETRY	0.33 ^L	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.48	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL.

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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. DEVINDER KAUSHIK AGE/ GENDER : 65 YRS/MALE **PATIENT ID** :1632611 **COLLECTED BY** REG. NO./LAB NO. :012410020061 : **REFERRED BY REGISTRATION DATE** :02/Oct/2024 05:19 PM : **BARCODE NO.** :01518201 **COLLECTION DATE** :02/Oct/2024 05:26PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Oct/2024 06:28PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval**

LI	VER FUNCTION 1	TEST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.41	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.26	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	34.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	25.9	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.34	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHY PROPANOL	82.2 VL	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	46.5	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.83	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.7	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.13	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.18	RATIO	1.00 - 2.00

INTERPRETATION

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

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

INCREASED:

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





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NAME





	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mr. DEVINDER KAUSHIK			
AGE/ GENDER	: 65 YRS/MALE	PATI	ENT ID	: 1632611
COLLECTED BY	:	REG.	NO./LAB NO.	: 012410020061
REFERRED BY	:	REGIS	STRATION DATE	: 02/Oct/2024 05:19 PM
BARCODE NO.	: 01518201	COLL	ECTION DATE	:02/Oct/2024 05:26PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:02/Oct/2024 06:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incre	eased)

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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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist**

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology)

к	DNEY FUNCTION TE	ST (COMPLETE)		
UREA: SERUM	16.57	mg/dL	10.00 - 50.00	
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)		Ũ		
CREATININE: SERUM	0.94	mg/dL	0.40 - 1.40	
	7.74		7.0.05.0	
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	7.74	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE	8.23 ^L	RATIO	10.0 - 20.0	
RATIO: SERUM	0.23	i i i i i i i i i i i i i i i i i i i	10.0 20.0	
by CALCULATED, SPECTROPHOTOMETRY				
JREA/CREATININE RATIO: SERUM	17.63	RATIO		
by CALCULATED, SPECTROPHOTOMETRY	0.40		0.40.770	
JRIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	3.68	mg/dL	3.60 - 7.70	
CALCIUM: SERUM	8.98	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPECTROPHOTOMETRY	0.70	mg/ dL	0.00 10.00	
PHOSPHOROUS: SERUM	4.6	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY				
ELECTROLYTES				
ODIUM: SERUM by ise (ion selective electrode)	132.5 ^L	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM	4.12	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIVE ELECTRODE)				
CHLORIDE: SERUM	99.38	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIVE ELECTRODE)				
ESTIMATED GLOMERULAR FILTERATION RATE				
ESTIMATED GLOMERULAR FILTERATION RATE	90			
(eGFR): SERUM				
by CALCULATED				

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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5 5 6 6 1 . 2 0 0 0 C H I						
		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology)		u m Chopra D (Pathology) unt Pathologist	
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LIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBA	LA CANTT			
Test Name			Value	Unit	Biological	Reference interval
 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 	ccreased urea (urea rather th monemias (ur of inappropiate apy (accelerate eleases muscl who develop be sis (acetoacet acreased BUN/	nan creatinine diffuses ou rea is virtually absent in b e antidiuretic harmone) d CREASED CREATININE: es conversion of creatine e creatinine). renal failure. cate causes false increase creatinine ratio).	blood). due to tubular se to creatinine). e in creatinine w	ecretion of urea.	ologies,resulting in norma	l ratio when dehydratio
2. Cephalosporin thei ESTIMATED GLOMERI		es with creatinine measure ION RATE:	ement).			
CKD STAGE		DESCRIPTION	GFR (mL/m		ASSOCIATED FINDINGS	
G1	N	lormal kidney function		90	No proteinuria	
G2		Kidney damage with	>0		Presence of Protein ,	
G3a		_normal or high GFR Mild decrease in GFR	60	-89	Ibumin or cast in urine	
G3a G3b		oderate decrease in GFR		-59		•
030				-0.9		4

RASEARCH .	
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ENDERNY NES	

G4

G5

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Moderate decrease in GFR Severe decrease in GFR

Kidney failure

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15-29

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			/
Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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



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AME : Mr. D	EVINDER KAUSHIK			
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est Name	Valu	e Unit	Biological Refere	nce interval
	EN	DOCRINOLOGY		
	THYROID	FUNCTION TEST: TOTAL		
RIIODOTHYRONINE (T3): SER		25 ng/m	nL 0.35 - 1.93	
		2 μgm,	/dL 4.87 - 12.60	
HYROID STIMULATING HORM by CMIA (CHEMILUMINESCENT MI		9 μIU/	mL 0.35 - 5.50	
rd GENERATION, ULTRASENSITI	VE			

overproduction(hyperthyroidism) of T4 and/or T3.

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

LIMITATIONS:-

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

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

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

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

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





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Test Name			Value	Unit		Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (µIU/mL)		
	1st Trimester		0.10 - 2.50			
	2nd Trimester		0.20 - 3.00			
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester

*** End Of Report **





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