



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. TAVINDER KAUR DUGGAL			
AGE/ GENDER	: 82 YRS/FEMALE		PATIENT ID	: 1781780
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503070040
REFERRED BY	:		REGISTRATION DATE	: 07/Mar/2025 10:58 AM
BARCODE NO.	:01526629		COLLECTION DATE	: 07/Mar/2025 11:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:07/Mar/2025 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
			ELLNESS PANEL: GT	r
DED DI GOD CELLO		LEIE BL	OOD COUNT (CBC)	
RED BLOOD CELLS HAEMOGLOBIN (HI	<u>S (RBCS) COUNT AND INDICES</u> B)	10.01	gm/dL	12.0 - 16.0
by CALORIMETRIC		10.8 ^L	Ű	
RED BLOOD CELL (RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	3.84	Millions/	/cmm 3.50 - 5.00
PACKED CELL VOLU		33.7 ^L	%	37.0 - 50.0
MEAN CORPUSCUL		87.9	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	28.2	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.1	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.8	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	48.8	fL	35.0 - 56.0
MENTZERS INDEX		22.89	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IND	DEX	33.97	RATIO	BETA THALASSEMIA TRAIT:-
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: :
				65.0
WHITE BLOOD CEI				
TOTAL LEUCOCYTE	COUNT (TLC) Y by sf cube & microscopy	9230	/cmm	4000 - 11000
NUCLEATED RED B	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
-	RT HEMATOLOGY ANALYZER LOOD CELLS (nRBCS) %	NIL	%	< 10 %
	LOOD CELLS (IIRDCS) % UTOMATED HEMATOLOGY ANALYZER	INIL	70	< 10 /0



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KOS Diagnostic Lab (A Unit of KOS Healthcare)

Dr. Vinay Chopra



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

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Test Name	Value	Unit	Biological Reference interval

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DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	60	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	33	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5538	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3046	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	277	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	369	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	92	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	311000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.35	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by Hydro Dynamic Focusing, electrical impedence	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	107000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	34.5	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.2	%	15.0 - 17.0



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	Test Name	Value	Unit	Biological Reference interval
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REPORTING DATE

:07/Mar/2025 11:33AM

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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			KIING DATE	: 07/ Mai/ 2023 01.43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
		OSYLATED HAEMO)
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI	EMOGLOBIN (HbA1c):	6.9 ^H	%	() 4.0 - 6.4
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA	EMOGLOBIN (HbA1c):)
GLYCOSYLATED HA 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 ^H	% mg/dL	() 4.0 - 6.4
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	6.9 ^H 151.33 ^H DIABETES ASSOCIATION	% mg/dL	2) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.9 ^H 151.33 ^H DIABETES ASSOCIATION	% mg/dL (ADA): LATED HEMOGLOGIB <5.7	2) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H DIABETES ASSOCIATION	% mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4	2) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.9 ^H 151.33 ^H DIABETES ASSOCIATION	% mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	2) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H DIABETES ASSOCIATION (GLYCOSY	% mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	2) 4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.9 ^H 151.33 ^H DIABETES ASSOCIATION (GLYCOSY GUYCOSY Goals of The	% mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years rapy:	2) 4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HA WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT DIA Non dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H DIABETES ASSOCIATION (GLYCOSY	% mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years rapy:	2) 4.0 - 6.4 60.00 - 140.00

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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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 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	: Mrs. TAVINDER KAUR DUGO	GAL		
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LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:07/Mar/2025 12:18PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
'est Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIMEN	TATION RATE (ESR)
nmune disease, but An ESR can be affect s C-reactive protein This test may also t ystemic lupus erythe ONDITION WITH LOV low ESR can be seen polycythaemia), sign s sickle cells in sickle OTE: ESR and C - reactive Generally, ESR doe: CRP is not affected If the ESR is elevate Women tend to hav Drugs such as dext	does not tell the health practitior ted by other conditions besides i be used to monitor disease activi- matosus V ESR n with conditions that inhibit the ificantly high white blood cell col e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does C by as many other factors as is ESF ed, it is typically a result of two ty e a higher ESR, and menstruation	ner exactly where the inflammation. For this ty and response to the normal sedimentatio unt (leucocytosis), ar SR. of inflammation. RP, either at the start R , making it a better m ypes of proteins, globu n and pregnancy can c	inflammation is in the reason, the ESR is ty erapy in both of the a n of red blood cells, s d some protein abno of inflammation or a: arker of inflammatior lins or fibrinogen. ause temporary eleva	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 rmalities. Some changes in red cell shape (such s it resolves. n .





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:07/Mar/2025 11:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval
	PROTI	HROMBIN TIME S	STUDIES (PT/IN)	R)
PT TEST (PATIENT by photo optical c		13.6	SECS	11.5 - 14.5
PT (CONTROL) by photo optical c	CLOT DETECTION	12	SECS	
ISI by PHOTO OPTICAL C	CLOT DETECTION	1.1		
	NORMALISED RATIO (INR)	1.15		0.80 - 1.20
by 111010 01 110/12 0				

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

INDICATION		INTERNATI	ONAL NORMALIZED RATIO (INR)
Treatment of venous thrombosis			
Treatment of pulmonary embolism			
Prevention of systemic embolism in tissue heart valves			
Valvular heart disease	Low Intensity		2.0 - 3.0
Acute myocardial infarction			
Atrial fibrillation			
Bileaflet mechanical valve in aortic position			
Recurrent embolism			
Mechanical heart valve	High Intensity		2.5 - 3.5
Antiphospholipid antibodies ⁺			





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Test Name		Value Unit	Biological Reference interval

efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are : 1.0ral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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Test Name		Value	Unit	Biological Reference interval

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INTERPRETATION:-

The activated partial thromboplastin time (aPTT or APTT) is a performance indicator measuring the efficacy of both the **intrinsic** (now referred to as the contact activation pathway) and the common coagulation pathways. Apart from detecting abnormalities in blood clotting, it is also used to monitor the treatment effects with heparin, a major anticoagulant. It is used in conjunction with the prothrombin time (PT) which measures the extrinsic pathway.

COMMON CAUSES OF PROLONGED APTT :-

1. Disseminated intravascular coagulation.

- 2. Liver disease.
- 3. Massive transfusion with stored blood.
- 4. Heparin administration or contamination.
- 5. A circulating Anticogulant.
- 6. Deficiency of a coagulation Factor other than factor 7.





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	CLINI	CAL CHEMISTRY	/BIOCHEMIST	RY
		CLUCOSE EAS	FING (F)	
		GLUCOSE FAS		

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

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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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	. PASIC	
CUOLESTEDOL TO				
CHOLESTEROL TOT by CHOLESTEROL OX		179.69	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S	EDIIM	0×0.00H	mg/dL	240.0 OPTIMAL: < 150.0
	EROM HATE OXIDASE (ENZYMATIC)	259.62 ^H	ing/ uL	BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI		49.3	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ION			BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		78.47	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 CHOLEST by CALCULATED, SPE		130.39 ^H	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 CHOLESTERC		51.92 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER	UM	619	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	3.64	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist							
NAME	: Mrs. TAVINDER KAUR DUG	FAL					
AGE/ GENDER	: 82 YRS/FEMALE	PA	ATIENT ID	: 1781780			
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012503070040			
REFERRED BY	:	RI	EGISTRATION DATE	: 07/Mar/2025 10:58 AM			
BARCODE NO.	:01526629	CO	DLLECTION DATE	:07/Mar/2025 11:19AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 07/Mar/2025 02:36PM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
LDL/HDL RATIO: S by Calculated, spe		1.59	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0			
TRIGLYCERIDES/H by CALCULATED, SPE		5.27 ^H	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.

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

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			/
Test Name	Value	Unit	Biological Reference interval

LIVER	FUNCTION TEST	(COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.29	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.08	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.21	mg/dL	0.10 - 1.00
GOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.75	U/L	7.00 - 45.00
GPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.44	U/L	0.00 - 49.00
ST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.92	RATIO	0.00 - 46.00
LKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL ROPANOL	166.11 ^H	U/L	40.0 - 130.0
AMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	82.13 ^H	U/L	0.00 - 55.0
OTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.43	gm/dL	6.20 - 8.00
LBUMIN: SERUM by BROMOCRESOL GREEN	3.75	gm/dL	3.50 - 5.50
LOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.68	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.4	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:

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





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology) MD	n Chopra 9 (Pathology) 1t Pathologist
NAME	: Mrs. TAVINDER KAUR DUGGA	L	
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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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Dr. Yugam Chopra MD (Pathology) **CEO & Consultant Pathologist**

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			/
Test Name	Value	Unit	Biological Reference interval

			č
KIDNE	Y FUNCTION TE	ST (COMPLETE)	
JREA: SERUM	32.6	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)		0	
REATININE: SERUM by enzymatic, spectrophotometery	1.47 ^H	mg/dL	0.40 - 1.20
OOD UREA NITROGEN (BUN): SERUM y calculated, spectrophotometry	15.23	mg/dL	7.0 - 25.0
LOOD UREA NITROGEN (BUN)/CREATININE ATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	10.36	RATIO	10.0 - 20.0
REA/CREATININE RATIO: SERUM by calculated, spectrophotometry	22.18	RATIO	
RIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	7.29 ^H	mg/dL	2.50 - 6.80
ALCIUM: SERUM by arsenazo III, spectrophotometry	9.9	mg/dL	8.50 - 10.60
HOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	3.38	mg/dL	2.30 - 4.70
<u>ECTROLYTES</u>			
DIUM: SERUM (ISE (ION SELECTIVE ELECTRODE)	144.6	mmol/L	135.0 - 150.0
YTASSIUM: SERUM y ISE (ION SELECTIVE ELECTRODE)	4.97	mmol/L	3.50 - 5.00
HLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	108.45	mmol/L	90.0 - 110.0
STIMATED GLOMERULAR FILTERATION RATE			
STIMATED GLOMERULAR FILTERATION RATE CGFR): SERUM by CALCULATED	35.4		

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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		Dr. Vinay Chopra 1D (Pathology & Micro Chairman & Consultan	obiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist					
IAME	: Mrs. TAVINI	DER KAUR DUGGAL							
AGE/ GENDER	: 82 YRS/FEM/	LE	PA	ATIENT ID	:1	781780			
COLLECTED BY	: SURJESH		RI	EG. NO./LAB NO.	:)125030700	940		
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BARCODE NO.	: 01526629			DLLECTION DAT		07/Mar/2025			
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNO	STIC LAB IOLSON ROAD, AMBA		EPORTING DATE	E : (07/Mar/2025	03:50PM		
LIENI ADDRESS	. 0349/ 1, MCI	IOLSON KOAD, AMBA	ILA CANT I						
Fest Name			Value	Uni	it	Biolog	gical Refe	rence inte	erval
9. Certain drugs (e.g. INCREASED RATIO (>2	tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR	TED CREATININE LEVE oportionately more the renal disease.	LS:) (e.g. obstructive	e uropathy).				
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Repeated dialysis (Inherited hyperami SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide thera Muscular patients of Muscular patients of Cephalosporin ther ESTIMATED GLOMERU CKD STAGE 	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rere- sis (acetoacetate creased BUN/cre- apy (interferes v ILAR FILTERATION	cocorticoids) TED CREATININE LEVE roportionately more the n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in less ntidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measure NATE: DESCRIPTION	LS: han creatinine ut of extracelli- blood). due to tubular to creatinine) e in creatinine rement). GFR (mL/	ular fluid). secretion of urea with certain met min/1.73m2)	hodologies,	ATED FINDING		o when deh	ıydrat
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der SiADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (re NAPPROPIATE RATIO Diabetic ketoacido hould produce an ind SEIMATED GLOMERU CKD STAGE	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop referes v sis (acetoacetate creased BUN/creation apy (interferes v ILAR FILTERATION Nor	cocorticoids) TED CREATININE LEVE roportionately more the n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in less ntidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). hal failure. e causes false increase exatinine ratio). vith creatinine measure NATE: DESCRIPTION mal kidney function	LS: han creatinine ut of extracelli- blood). due to tubular to creatinine) e in creatinine rement). GFR (mL/	ular fluid). secretion of urea with certain mett min/1.73m2) >90	hodologies,	ATED FINDING: proteinuria	S	o when deh	ıydrat
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Repeated dialysis (Inherited hyperami SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (re Muscular patients NAPPROPIATE RATIO Diabetic ketoacidos hould produce an ind SEIMATED GLOMERU CKD STAGE	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rere- sis (acetoacetate creased BUN/crea- apy (interferes vi- ILAR FILTERATION Nor- Kid	cocorticoids) TED CREATININE LEVE roportionately more the n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in less ntidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measure NATE: DESCRIPTION	LS: han creatinine ut of extracelli- blood). due to tubular to creatinine) e in creatinine rement). GFR (mL/	ular fluid). secretion of urea with certain met min/1.73m2)	hodologies, ASSOCI No Presen	ATED FINDING	<u>s</u>) when deh	ıydrat
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Repeated dialysis (Inherited hyperami SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO Diabetic ketoacido: hould produce an ind CEphalosporin ther STIMATED GLOMERU G1 G2	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rere- sis (acetoacetate creased BUN/crea apy (interferes v ILAR FILTERATION Nor- King	cocorticoids) TED CREATININE LEVE roportionately more the n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in less ntidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). hal failure. e causes false increase exatinine ratio). vith creatinine measure NATE: DESCRIPTION mal kidney function diney damage with	LS: han creatinine ut of extracelli- blood). due to tubular to creatinine) e in creatinine ement). GFR (mL/	ular fluid). secretion of urea with certain meth <u>min/1.73m2)</u> >90 >90 0 -89	hodologies, ASSOCI No Presen	ATED FINDING proteinuria ce of Protein ,	<u>s</u>	o when deh	ıydrat
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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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN		
		ROID FUNCTION	TEST: TOTAL	
TRIIODOTHYRONIN	IE (T3): SERUM	ROID FUNCTION 0.95		0.35 - 1.93
by CMIA (CHEMILUMINE THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASS	(ROID FUNCTION 0.95 SAY) 9.35	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMINE THYROXINE (T4): S by CMIA (CHEMILUMINE THYROID STIMULA	IE (T3): SERUM escent microparticle immunoas: ERUM	(ROID FUNCTION 0.95 5AY) 9.35 5AY) M 1.46	TEST: TOTAL ng/mL	
by CMIA (CHEMILUMINE THYROXINE (T4): S by CMIA (CHEMILUMINE THYROID STIMULA by CMIA (CHEMILUMINE Brd GENERATION, ULTE	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASS ERUM ESCENT MICROPARTICLE IMMUNOASS TING HORMONE (TSH): SERUI ESCENT MICROPARTICLE IMMUNOASS	(ROID FUNCTION 0.95 5AY) 9.35 5AY) M 1.46	TEST: TOTAL ng/mL μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMINE THYROXINE (T4): S by CMIA (CHEMILUMINE THYROID STIMULA by CMIA (CHEMILUMINE ord GENERATION, ULTE INTERPRETATION: TSH levels are subject to ci day has influence on the n	IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASS ERUM ESCENT MICROPARTICLE IMMUNOASS TING HORMONE (TSH): SERUI ESCENT MICROPARTICLE IMMUNOASS RASENSITIVE Incadian variation, reaching peak levels b neasured serum TSH concentrations. TSH ure at any level of regulation of the hyp	(ROID FUNCTION 0.95 SAY) 9.35 SAY) M 1.46 SAY) Petween 2-4 a.m and at a n 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 time of th</i> etabolically active hormones, thyroxine (T4)and

CLINICAL CONDITION	Т3	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 (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.

TRIIODOTHYRONINE (T3)		THYROXINE (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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Dr. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. TAVINDER KAUR DUGGAL AGE/ GENDER : 82 YRS/FEMALE **PATIENT ID** :1781780 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012503070040 **REFERRED BY REGISTRATION DATE** :07/Mar/2025 10:58 AM : **BARCODE NO.** :01526629 **COLLECTION DATE** :07/Mar/2025 11:19AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Mar/2025 02:13PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name		Value Unit		it Biological Reference in		
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	
	RECON	IMENDATIONS OF TSH LI	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.

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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







	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mrs. TAVINDER KAUR DUG	GAL		
AGE/ GENDER	: 82 YRS/FEMALE		PATIENT ID	: 1781780
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
			DLOGY/SEROLOGY HCV) ANTIBODY: TO	
			5 (20	
	BODY (HCV) TOTAL: SERUM	0.12 SSAY)	S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00
by CMIA (CHEMILUMI) HEPATITIS C ANTI RESULT by CMIA (CHEMILUMI)		SSAY) NON - RE		
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNOAS BODY (HCV) TOTAL NESCENT MICROPARTICLE IMMUNOAS	SSAY) NON - RE	ACTIVE	
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNOAS BODY (HCV) TOTAL	SSAY) NON - RE		POSITIVE: > 1.00

1. Indicator of past or present infection, but does not differentiate between Acute/ Chronic/Resolved Infection. 2. Routine screening of low and high prevelance population including blood donors.

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NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNĂ PCR recommended in all reactive results to differentiate between past and present infection.





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	Dr. Vinay Ch MD (Pathology & Chairman & Cor	& Microbiology)	Dr. Yugan MD & Consultan	(Pathology)	
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CLIENT CODE.	. KOS DIAGNOSTIC LAD	KLI UKIII (Torrinari Adad Carrorni	
	: 6349/1, NICHOLSON ROAD,				
CLIENT ADDRESS			Unit	Biological Reference interval	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value	Unit		
CLIENT ADDRESS Test Name ANTI HUI HIV 1/2 AND P24 J	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value CY VIRUS (HIV) DUO UL 0.11	Unit	Biological Reference interva	
CLIENT ADDRESS Test Name ANTI HU HIV 1/2 AND P24 . by CMIA (CHEMILUMI HIV 1/2 AND P24 .	: 6349/1, NICHOLSON ROAD, MAN IMMUNODEFICIEN(ANTIGEN: SERUM VESCENT MICROPARTICLE IMMUNOA	AMBALA CANTT Value CY VIRUS (HIV) DUO UL 0.11 NON - REACTIVE	Unit TRA WITI	Biological Reference interval H (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00	
CLIENT ADDRESS Test Name ANTI HUI HIV 1/2 AND P24 . by CMIA (CHEMILUMII HIV 1/2 AND P24 . by CMIA (CHEMILUMII INTERPRETATION:-	: 6349/1, NICHOLSON ROAD, MAN IMMUNODEFICIENC ANTIGEN: SERUM VESCENT MICROPARTICLE IMMUNOA ANTIGEN RESULT VESCENT MICROPARTICLE IMMUNOA	AMBALA CANTT Value CY VIRUS (HIV) DUO UL 0.11 (SSAY) NON - REACTIVE	Unit TRA WITI S/CO	Biological Reference interval H (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00	
HIV 1/2 AND P24 . by CMIA (CHEMILUMII HIV 1/2 AND P24 . by CMIA (CHEMILUMII <u>INTERPRETATION:-</u> RESU	: 6349/1, NICHOLSON ROAD, MAN IMMUNODEFICIEN(ANTIGEN: SERUM Vescent Microparticle IMMUNOA ANTIGEN RESULT	AMBALA CANTT Value CY VIRUS (HIV) DUO UL 0.11 NON - REACTIVE	Unit TRA WITI S/CO	Biological Reference interval H (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00	

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antibodies. Hence a Non Reactive result does not exclude the possibility of exposure or infection with HIV 1/2. **RECOMMENDATIONS:** 1. Results to be clinically correlated 2. Rarely falsenegativity/positivity may occur.



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CLIENI ADDRESS	: 0349/1, NICHOLSON ROAD, A.	MBALA CANTI			
Test Name	: 6349/ I, NICHOLSON KOAD, A	Value Unit	Biological Reference interval		
Test Name HEPATITIS B SURI SERUM		Value Unit S B SURFACE ANTIGEN (HBsAg) 0.29			
Test Name HEPATITIS B SURI SERUM by CMIA (CHEMILUMII HEPATITIS B SURI RESULT	HEPATITIS FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOASS FACE ANTIGEN (HBsAg)	Value Unit S B SURFACE ANTIGEN (HBsAg) 0.29 SAY) NON REACTIVE) ULTRA NEGATIVE: < 1.0		
Test Name HEPATITIS B SURI SERUM by CMIA (CHEMILUMII HEPATITIS B SURI RESULT by CMIA (CHEMILUMII	HEPATITIS FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOASS	Value Unit S B SURFACE ANTIGEN (HBsAg) 0.29 SAY) NON REACTIVE) ULTRA NEGATIVE: < 1.0		
Test Name HEPATITIS B SURI SERUM by CMIA (CHEMILUMII HEPATITIS B SURI RESULT by CMIA (CHEMILUMII <u>INTERPRETATION:</u> RESU	HEPATITIS FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOASS FACE ANTIGEN (HBsAg)	Value Unit S B SURFACE ANTIGEN (HBsAg) 0.29 SAY) NON REACTIVE) ULTRA NEGATIVE: < 1.0 POSITIVE: > 1.0		

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Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



BIQS BIQS ISO 9001 : 2008 CERT		DS Healthcare)	THCARE & DIAGNOSTICS
	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)	gam Chopra MD (Pathology) Iltant Pathologist
NAME	: Mrs. TAVINDER KAUR DUGG	AL	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value Unit	Biological Reference interval
		VDRL	
2. <i>High titer</i> (>1:16) - a 3. <i>Low titer</i> (>1:8) - <i>bio</i> 4.Treatment of prima 5.Rising titer (4X) indi 6.May benonreactive 7.Reactive and weakl SHORTTERM FALSE PO 1.Acute viral illnesses 2.M. pneumoniae; Ch 3.Some immunization 4.Pregnancy (rare) LONGTERM FALSE PO 1.Serious underlying 2.Intravenous drug us 3.Rheumatoid arthrit 4.<10 % of patients of	ositive until 7 - 10 days after appe active disease. ological falsepositive test in 90% c. rry syphillis causes progressive de- icates relapse, reinfection, or treat in early primary, late latent, and by reactive tests should always be c OSITIVE TEST RESULTS (<6 MONTHS is (e.g., hepatitis, measles, infection hamydia; Malaria infection. is SITIVE TEST RESULTS (>6 MONTHS disease e.g., collagen vascular dis sers. is, thyroiditis, AIDS, Sjogren's synce	ases or due to late or late latent syphili cline tonegative VDRL within 2 years. ment failure and need for retreatment late syphillis (approx. 25% ofcases). confirmedwith FTA-ABS (fluorescent trees DURATION) MAY OCCURIN: bus mononucleosis) DURATION) MAY OCCUR IN: seases, leprosy ,malignancy.	
5	5.	** End Of Report ***	
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROB	DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)	

