



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant P			Pathology)
NAME	: Mrs. GYATRI SHARMA			
AGE/ GENDER	: 74 YRS/FEMALE		PATIENT ID	: 1813595
COLLECTED BY	:		REG. NO./LAB NO.	: 012504010008
REFERRED BY	:		REGISTRATION DATE	: 01/Apr/2025 07:58 AM
BARCODE NO.	: 01528122		COLLECTION DATE	: 01/Apr/2025 08:40AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBAL/	A CANTT	REPORTING DATE	: 01/Apr/2025 09:17AM
Test Name	V	alue	Unit	Biological Reference interval
	SWASTHY	A WE	LLNESS PANEL: G	Т
	COMPLE	ETE BL	OOD COUNT (CBC)	
RED BLOOD CELL	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HI	3)	11.9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	4.23	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOL	DCUSING, ELECTRICAL IMPEDENCE	38.1	%	37.0 - 50.0
	JTOMATED HEMATOLOGY ANALYZER	56.1	70	57.0 - 50.0
	AR VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	90.2	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	28.2	pg	27.0 - 34.0
-	JTOMATED HEMATOLOGY ANALYZER LAR HEMOGLOBIN CONC. (MCHC)	31.2 ^L	g/dL	32.0 - 36.0
-	JTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-CV)	14.5	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER			11.00 - 10.00
	BUTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	49	fL	35.0 - 56.0
MENTZERS INDEX		21.32	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
		00.14		>13.0
GREEN & KING INI by CALCULATED	JEX	99.14	RATIO	BETA THALASSEMIA TRAIT: <= 65.0
				IRON DEFICIENCY ANEMIA: >
WHITE BLOOD CE	TLLS (WRCS)			65.0
IOTAL LEUCOCYT		7850	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		,	
	BLOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED F	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
13222210			1	



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 & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. GYATRI SHARMA **AGE/ GENDER** : 74 YRS/FEMALE **PATIENT ID** :1813595 **COLLECTED BY** :012504010008 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :01/Apr/2025 07:58 AM **BARCODE NO.** :01528122 **COLLECTION DATE** :01/Apr/2025 08:40AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :01/Apr/2025 09:17AM **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** 50 - 70 72^H % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 20 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 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 5652 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1570 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 236 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 392 /cmm 80 - 880 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) /cmm 150000 - 450000 136000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.21 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 15^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 84000 /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 61.9^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.8 % 15.0 - 17.0



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

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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REFERRED BY		RFC	GISTRATION DATE	: 01/Apr/2025 07:58 Al	М
BARCODE NO.	: 01528122		LECTION DATE	: 01/Apr/2025 08:40AM	
				•	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 01/Apr/2025 10:11AM	4
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Ro	eference interval
WHOLE BLOOD	AEMOGLOBIN (HbA1c):	8 ^H	%	4.0 - 6.4	
ESTIMATED AVERA	AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	182.9 ^H	mg/dL	60.00 - 140.00)
INTERPRETATION:					
		DIABETES ASSOCIATIO		(110 410) :	
	REFERENCE GROUP abetic Adults >= 18 years	GLYCO	SYLATED HEMOGLOGIB <5.7	(HBAIC) in %	
	t Risk (Prediabetes)		<5.7 5.7 – 6.4		
	iagnosing Diabetes		>= 6.5		
	3		Age > 19 Years		
		Goals of T	herapy:	< 7.0	
Therapeut	ic goals for glycemic control	Actions Sug		>8.0	
			Age < 19 Years		
		Goal of th		<7.5	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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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	MD	: Vinay Chopra D (Pathology & Microt airman & Consultant I			r. Yugam (MD (F Consultant P	athology)		
NAME	: Mrs. GYATRI S	HARMA						
AGE/ GENDER	: 74 YRS/FEMALI	Ξ		PATIENT ID		: 1813595		
COLLECTED BY	:			REG. NO./LAB	NO.	:0125040	010008	
REFERRED BY	:			REGISTRATION	N DATE	:01/Apr/2	025 07:58 A	AM
BARCODE NO.	:01528122			COLLECTION D	ATE	-	025 08:40A	
CLIENT CODE.	: KOS DIAGNOST	IC LAB		REPORTING D A	ATE	•	025 09:52A	
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBAL	A CANTT					
Test Name		1	/alue		Unit	В	iological R	Reference interval
		ERYTHROCYT	E SEDI	MENTATION	N RATE (1	ESR)		
ERYTHROCYTE SE by RED CELL AGGREG INTERPRETATION:			38 ^H		mm/1st hr	0	- 20	
 ESR is a non-specific immune disease, but of 2. An ESR can be affect as C-reactive protein This test may also bisystemic lupus erythe CONDITION WITH LOW A low ESR can be seen (polycythaemia), signit as sickle cells in sickle NOTE: ESR and C - reactive Generally, ESR does CRP is not affected I If the ESR is elevate Drugs such as dextraspirin, cortisone, and 	does not tell the he ted by other condi- matosus / ESR n with conditions th ficantly high white cell anaemia) also protein (C-RP) are to change as rap by as many other fa d, it is typically a r e a higher ESR, and an, methyldopa, o	ealth practitioner exa itions besides inflam disease activity and hat inhibit the norma e blood cell count (le o lower the ESR. both markers of infl oidly as does CRP, eiti actors as is ESR, maki esult of two types of d menstruation and p oral contraceptives, p	actly wher mation. For response al sedimer ucocytosi ammation her at the proteins, pregnancy	te the inflammation or this reason, the to therapy in both tation of red blo s), and some pro- s, start of inflamm tter marker of inf globulins or fibri can cause tempo	on is in the t e ESR is typic th of the abo od cells, suc otein abnorn ation or as i lammation . nogen. orary elevatio	body or wha cally used in ove diseases th as a high r nalities. Som t resolves.	t is causing conjunction as well as s red blood ce ne changes i	it. n with other test such some others, such as ell count in red cell shape (such

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







NAME : Mrs. GYATRI SHARMA NGE/ GENDER : 74 YRS/FEMALE PATIENT ID : 1813595 COLLECTED BY :			irman & Consul	rtant i atriologis	t CEO & Consultant	
COLLECTED BY : REG. NO./LAB NO. : 012504010008 REFEREED BY : REGISTRATION DATE : 01/Apr/2025 07:58 AM SARCODE NO. : 01528122 COLLECTION DATE : 01/Apr/2025 08:40AM SARCODE NO. : 01528122 COLLECTION DATE : 01/Apr/2025 08:40AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 01/Apr/2025 11:56AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : : Fest Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F): : : SILUCOSE FASTING (F): PLASMA 124.07H mg/dL NORMAL: < 100.0 by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) 124.07H mg/dL NORMAL: < 100.0 NORMACE with AMERICAN DIABETES ASSOCIATION GUIDELINES: . A fasting plasma glucose level below 100 mg/dl is considered normal. 1. A fasting plasma glucose level below 100 mg/dl is considered normal. . . . 2. A fasting plasma glucose level below 100 mg/dl is considered normal. . . . 3. A fasting plasma glucose level below 100 mg/dl is considered normal. . . .	NAME					1010202
EFFERRED BY :: REGISTRATION DATE : 01/Apr/2025 07:58 AM EARCODE NO. : 01528122 COLLECTION DATE : 01/Apr/2025 08:40AM ELIENT CODE. :: KOS DIAGNOSTIC LAB REPORTING DATE : 01/Apr/2025 11:56AM ELIENT ADDRESS :: :: :: :: Fest Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F): SILUCOSE FASTING (F): CLINICAL CHEMISTRY/BIOCHEMISTRY Biological Reference interval DIADETIC: 100.0 PEROXIDASE (GOD-POD) Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY Biological Reference interval BIOLOCOSE FASTING (F): PLASMA biological Reference interval BIOLOCOSE FASTING (F): PLASMA biological Reference interval BIOLOCOSE OX/DASE - PEROX/DASE (GOD-POD) Biological Reference interval N ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: A fasting pl		: 74 YRS/FEMALE				
ARCODE NO. : 01528122 COLLECTION DATE : 01/Apr/2025 08:40AM LIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 01/Apr/2025 11:56AM LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Fest Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F): PLASMA [GOD-POD] GLUCOSE FASTING (F): PLASMA [GOD-POD] SLUCOSE FASTING (F): PLASMA [GOD-POD]		:				
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LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Fest Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY Biological Reference interval CLUNICAL CHEMISTRY/BIOCHEMISTRY Biological Reference interval CLUCOSE FASTING (F): Display and the state of the s			CIAD			-
Test Name Value Unit Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F): MICOSE OXIDASE - PEROXIDASE (GOD-POD) MICON NORMAL: < 100.0 NTERPRETATION NTERPRETATION N ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level of above 125 mg/dl is onsidered as glucose intolerant or prediabetic. A fasting and post-prandial blood est (after consumption of 75 gms of glucose) is recommended for all such patients. 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.				ΙΒΛΙ Λ ΓΛΝΤΤ		. 01/ Api/ 2023 11.36AM
CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F) SLUCOSE FASTING (F): PLASMA by GLUCOSE FASTING (F): SLUCOSE FASTING (F): PLASMA by GLUCOSE FASTING (F): SLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) MEDIABETIC: 100.0 - 125.0 DIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 MERPRETATION NACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level below 100 mg/dl is considered normal. A fasting plasma glucose level between 100 - 125 mg/dl is considered normal. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood est (after consumption of 75 gms of glucose) is recommended for all such patients. 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.		. 0040/ 1, Menor	SON ROAD, AN	IDALA CANTI		
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	by GLUCOSE OXIDAS <u>NTERPRETATION</u> N ACCORDANCE WIT . A fasting plasma g	E - PEROXIDASE (GOD H AMERICAN DIABET	ES ASSOCIATIO 00 mg/dl is cor	nsidered norm	al.	DIABETIC: $> 0R = 126.0$
	by GLUCOSE OXIDAS <u>VTERPRETATION</u> N ACCORDANCE WIT A fasting plasma g est (after consumpt A fasting plasma g	H AMERICAN DIABET llucose level below 1 llucose level betweet ion of 75 gms of gluc llucose level of above	ES ASSOCIATIO 00 mg/dl is cor n 100 - 125 mg, ose) is recomm a 125 mg/dl is h	nsidered norm /dl is consider hended for all s highly suggesti	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a
	by GLUCOSE OXIDAS ITERPRETATION I ACCORDANCE WIT A fasting plasma g st (after consumpt A fasting plasma g	H AMERICAN DIABET llucose level below 1 llucose level betweet ion of 75 gms of gluc llucose level of above	ES ASSOCIATIO 00 mg/dl is cor n 100 - 125 mg, ose) is recomm a 125 mg/dl is h	nsidered norm /dl is consider hended for all s highly suggesti	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a
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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OXIE		137.07	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SE by GLYCEROL PHOSPH	ERUM ATE OXIDASE (ENZYMATIC)	109.78	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 INHIBITIO		44.62	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPEC		70.49	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, SPEC		92.45	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 CHOLESTERO		21.96	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPEC		383.92	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPEC	L RATIO: SERUM	3.07	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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25.1





		Chopra y & Microbiology) consultant Pathologi		(Pathology)
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COLLECTED BY	:		REG. NO./LAB NO.	: 012504010008
REFERRED BY	:		REGISTRATION DATE	: 01/Apr/2025 07:58 AM
BARCODE NO.	:01528122		COLLECTION DATE	: 01/Apr/2025 08:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:01/Apr/2025 11:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT	Г	
Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE	-	1.58	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	2.46 ^L	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. Vinay Chopra MD (Pathology & Micr Chairman & Consultar		(Pathology)				
NAME	: Mrs. GYATRI SHARMA						
AGE/ GENDER	: 74 YRS/FEMALE		PATIENT ID	: 1813595			
COLLECTED BY	:		REG. NO./LAB NO.	: 012504010008			
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Test Name		Value	Unit	Biological Reference interval			
	LIVER FUNCTION TEST (COMPLETE)						
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY		0.37	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20			
	Г (CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40			
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00			
SGOT/AST: SERUM	1 RIDOXAL PHOSPHATE	11.1	U/L	7.00 - 45.00			
SGPT/ALT: SERUM	[RIDOXAL PHOSPHATE	14.7	U/L	0.00 - 49.00			
AST/ALT RATIO: S by CALCULATED, SPE	-	0.76	RATIO	0.00 - 46.00			
ALKALINE PHOSPH by Para Nitrophen Propanol	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	170.4 ^H	U/L	40.0 - 130.0			
GAMMA GLUTAM by SZASZ, SPECTROP	YL TRANSFERASE (GGT): SERUN PHTOMETRY	1 31.42	U/L	0.00 - 55.0			
TOTAL PROTEINS: by BIURET, SPECTROI		6.77	gm/dL	6.20 - 8.00			
ALBUMIN: SERUM by BROMOCRESOL GI		4.02	gm/dL	3.50 - 5.50			
GLOBULIN: SERUN by CALCULATED, SPE	1	2.75	gm/dL	2.30 - 3.50			
A : G RATIO: SERU by CALCULATED, SPE	М	1.46	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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam C MD (Pa & Consultant Pa	ithology)
NAME	: Mrs. GYATRI SHARMA			
AGE/ GENDER	: 74 YRS/FEMALE	PATIENT ID		: 1813595
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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3	3 (Slightly Increa	ised)

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	2		
Test Name		Value	Unit	Biological Reference interva	
	KIDNEY	Y FUNCTIO	ON TEST (COMPLET)	E)	
UREA: SERUM		35.72	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)	00112	ing of		
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		1.24 ^H	mg/dL	0.40 - 1.20	
BLOOD UREA NITROGEN (BUN): SERUM		16.69	mg/dL	7.0 - 25.0	
by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE		13.46	RATIO	10.0 - 20.0	
RATIO: SERUM	ROOEN (BOIN)/CREATININE	15.40	KAHO	10.0 - 20.0	
by CALCULATED, SPE					
UREA/CREATININI by CALCULATED, SPE		28.81	RATIO		
URIC ACID: SERUN		2.81	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS	E PEROXIDASE				
CALCIUM: SERUM by ARSENAZO III, SPE		8.62	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SH	ERUM	2.65	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBD ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
SODIUM: SERUM		144.6	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV	E ELECTRODE)	144.0	mmol/L	155.0 - 150.0	
POTASSIUM: SERU	JM	4.59	mmol/L	3.50 - 5.00	
CHLORIDE: SERUN by ISE (ION SELECTIV	1	108.45	mmol/L	90.0 - 110.0	
	MERULAR FILTERATION RAT	<u>E</u>			
ESTIMATED GLON (eGFR): SERUM by CALCULATED INTERPRETATION:	MERULAR FILTERATION RATE				

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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CLIENT ADDRESS	:6349/1, NI	CHOLSON ROAD, AM	BALA CANTT				
Test Name			Value	Unit	:	Biological Reference	e interval
5. Excess protein intal ourns, surgery, cache: 7. Urine reabsorption 3. Reduced muscle ma 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELEV (BUN rises dis superimposed). lostomy) Il creatinine productio lucocorticoids) /ATED CREATININE LE proportionately more on renal disease.	on) VELS:	on, GI bleeding, thyro ne) (e.g. obstructive u		s, Cushing's syndrome, high pro /).	otein diet,
5. Excess protein intal burns, surgery, cache: 7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of dec 5. Repeated dialysis (i 6. Inherited hyperami 7. SIADH (syndrome o 3. Pregnancy. DECREASED RATIO (<1	ke or producti kia, high fever (e.g. ureter cc ass (subnorma tetracycline, g D:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. creased urea s urea rather th nonemias (uro f inappropiate 0:1) WITH INC). lostomy) Il creatinine productio lucocorticoids) /ATED CREATININE LE proportionately more on renal disease. REASED BUN : an creatinine diffuses a is virtually absent is antidiuretic harmone REASED CREATININE:	on) VELS: e than creatin s out of extrac n blood). e) due to tubu	ine) (e.g. obstructive u ellular fluid). lar secretion of urea.			otein diet,
5. Excess protein intal ourns, surgery, cache: 7. Urine reabsorption 8. Reduced muscle m. 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of dec 5. Repeated dialysis (i 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (i 6. Muscular patients of	e or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. creased urea s urea rather th nonemias (uro f inappropiate 0:1) WITH INC oy (accelerate eleases muscle who develop r). lostomy) il creatinine productio lucocorticoids) /ATED CREATININE LE proportionately more on renal disease. REASED BUN : an creatinine diffuses ea is virtually absent is antidiuretic harmone REASED CREATININE: s conversion of creati e creatinine).	on) VELS: e than creatin s out of extrac n blood). e) due to tubu	ine) (e.g. obstructive u ellular fluid). lar secretion of urea.			otein diet,
5. Excess protein intal burns, surgery, cache: 7. Urine reabsorption 3. Reduced muscle m. 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of dec 5. Repeated dialysis (i 6. Inherited hyperami 7. SIADH (syndrome o 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (i 6. Muscular patients v	ke or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. treased urea s urea rather th nonemias (uro f inappropiate 0:1) WITH INC oy (accelerate eleases muscle who develop r). lostomy) il creatinine productio lucocorticoids) /ATED CREATININE LE proportionately more on renal disease. REASED BUN : ynthesis. an creatinine diffuses a is virtually absent i antidiuretic harmone REASED CREATININE: s conversion of creati e creatinine). enal failure.	on) VELS: e than creatin s out of extrac n blood). e) due to tubu ne to creatinin	ine) (e.g. obstructive u eellular fluid). lar secretion of urea. ne).	uropathy).	
5. Excess protein intal purns, surgery, cache: 7. Urine reabsorption 8. Reduced muscle m. 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Prerenal azotemia 4. Acute tubular necro 5. Low protein diet an 6. Severe liver disease 4. Other causes of der 5. Repeated dialysis (re 5. Repeated dialysis (re 6. Inherited hyperamia 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide therap 2. Rhabdomyolysis (re 3. Muscular patients of 1. Diabetic ketoacidos should produce an ind 2. Cephalosporin ther	e or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELEV (BUN rises dis superimposed D:1) WITH DEC osis. d starvation. treased urea s urea rather th nonemias (uru f inappropiate D:1) WITH INC oy (accelerate eleases muscle who develop r sis (acetoaceta treased BUN/o apy (interferes). lostomy) il creatinine productio lucocorticoids) /ATED CREATININE LE proportionately more on renal disease. REASED BUN : ynthesis. an creatinine diffuses ea is virtually absent i antidiuretic harmone REASED CREATININE: s conversion of creati e creatinine). enal failure. ate causes false increation s with creatinine meas	on) VELS: e than creatini s out of extrac n blood). e) due to tubu ne to creatini ase in creatini	ine) (e.g. obstructive u eellular fluid). lar secretion of urea. ne).	uropathy		
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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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NAME	: Mrs. GYATRI SHARMA		
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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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		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD (CEO & Consultant	Pathology)	
NAME	: Mrs. GYATRI SHARMA				
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Test Name		Value	Unit	Biological Refe	rence interval
	T	ENDOCRING			
TDUODOTUVDON				0.25 1.02	
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (13): SERUNI IESCENT MICROPARTICLE IMMUNI	0.925 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4):		9.62	μgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): S		µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the t triiodothyronine (T3).Fai	circadian variation, reaching peak lev measured serum TSH concentrations. lure at any level of regulation of the rroidism) of T4 and/or T3.	TSH stimulates the production	and secretion of the me	tabolically active hormones, thyro	oxine (T4)and
CLINICAL CONDITION	T3	T4		TSH	
Primary Hypothyroidis	m: Reduced	Red	uced In	creased (Significantly)	

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

LIMITATIONS:-

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

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

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

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

TRIIODOTH	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		





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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	
	RECON	IMENDATIONS OF TSH LI	EVELS DURING PREC	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic hypothyroidism

5.Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester

*** End Of Report *





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