



		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD (CEO & Consultant I	Pathology)
NAME	: Mrs. ILA			
AGE/ GENDER	: 33 YRS/FEMALE	PATI	ENT ID	: 1590847
COLLECTED BY	:	REG.	NO./LAB NO.	: 012408250034
REFERRED BY	:	REGI	STRATION DATE	: 25/Aug/2024 10:01 AM
BARCODE NO.	:01515682	COLL	ECTION DATE	: 25/Aug/2024 10:03AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Aug/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB by Calorimetric		11.2 ^L	gm/dL	12.0 - 16.0
tissues back to the lu A low hemoglobin le ANEMIA (DECRESED 1) Loss of blood (trai 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by re 5) Kidney failure 6) Abnormal hemogl POLYCYTHEMIA (INCI 1) People in higher 2) Smoking (Seconda 3) Dehydration prod 4) Advanced lung dis 5) Certain tumors 6) A disorder of the b	ungs. vel is referred to as ANEMIA of HAEMOGLOBIN): umatic injury, surgery, bleedi ency (iron, vitamin B12, folate blems (replacement of bone n d blood cell synthesis by che obin structure (sickle cell and REASED HAEMOGLOBIN): altitudes (Physiological) ry Polycythemia) uces a falsely rise in hemoglo ease (for example, emphysen bone marrow known as polyc	or low red blood count. Ing, colon cancer or stomacle) narrow by cancer) motherapy drugs emia or thalassemia). bbin due to increased haemona) ythemia rubra vera,	n ulcer) oconcentration	dys tissues and returns carbon dioxide fro

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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



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LIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 25/Aug/2024 11:29AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		LIPID PROFILE	: BASIC	
HOLESTEROL TOTA by CHOLESTEROL OX		243.58 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	107.67	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
IDL CHOLESTEROL (I by SELECTIVE INHIBITI		55.01	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: S by CALCULATED, SPE		167.04 ^H	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
ION HDL CHOLESTE by CALCULATED, SPE		188.57 ^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
LDL CHOLESTEROL:		21.53	mg/dL	0.00 - 45.00
by CALCULATED, SPE DTAL LIPIDS: SERUN by CALCULATED, SPE	Л	594.83	mg/dL	350.00 - 700.00
HOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	4.43 ^H	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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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist						
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
LDL/HDL RATIO: SEF by CALCULATED, SPI		3.04 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0		
TRIGLYCERIDES/HD		1.96 ^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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 25/Aug/2024 11:47AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
Test Name		Value ENDOCRINC		Biological Reference interval	
Test Name	Т		DLOGY	Biological Reference interval	
TRIIODOTHYRONIN	E (T3): SERUM	ENDOCRINC HYROID FUNCTION 0.665	DLOGY	Biological Reference interval 0.35 - 1.93	
TRIIODOTHYRONIN <i>by cmia (chemilumi</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	ENDOCRINC HYROID FUNCTION 0.665 SAY) 10.4	DLOGY I TEST: TOTAL		
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE by cmia (chemilumi THYROID STIMULA ⁻	E (T3): SERUM <i>nescent microparticle immunoas</i> RUM	ENDOCRINC HYROID FUNCTION 0.665 SAY) 10.4 SAY) 2.163	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93	

overproduction(hyperthyroidism) of T4 and/or T3.

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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.

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 interva
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	
	RECO	OMMENDATIONS OF TSH L	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.

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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