



		h opra & Microbiology) nsultant Pathologist	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mr. PARV			
AGE/ GENDER	: 36 YRS/MALE	PATI	ENT ID	: 1458927
COLLECTED BY	:	REG.	NO./LAB NO.	: 042503030001
REFERRED BY	:	REGI	STRATION DATE	: 03/Mar/2025 10:00 AM
BARCODE NO.	: A1260602	COLL	ECTION DATE	: 03/Mar/2025 03:48PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI	REPC	RTING DATE	: 03/Mar/2025 04:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	/BIOCHEMISTI	RY
		GLUCOSE FAS	ΓING (F)	

A fasting plasma glucose level below 100 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

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.





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO	FAL: SERUM	117.13	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		111.10	ing, di	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: S		111.13	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSF	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO	L (DIRECT): SERUM	29.87 ^L	mg/dL	LOW HDL: < 30.0
by SELECTIVE IN IIBIT				BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI by CALCULATED, SPE		65.03	mg/dL	OPTIMAL: < 100.0
by CALCOLATED, SPE	CIROFIIOTOMETRI			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES	FEROL: SERUM	87.26	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE			8	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
VLDL CHOLESTER(by CALCULATED, SPE		22.23	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	UM	345.39 ^L	mg/dL	350.00 - 700.00
by CALCULATED, SPE				I OW DICK. 2 20 4 40
CHOLESTEROL/HE by CALCULATED, SPE		3.92	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



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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 ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
LDL/HDL RATIO: S by CALCULATED, SPE		2.18	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	
TRIGLYCERIDES/H	IDL RATIO: SERUM	3.72	RATIO	3.00 - 5.00	

by CALCULATED, SPECTROPHOTOMETRY

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





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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		URIC	ACID	
URIC ACID: SERUM				3.60 - 7.70
2.Uric Acid is the end	E PEROXIDASE high levels of Uric Acid in the product of purine metabolism icrobial degradation. D PRODUCTION:-	6.97 e blood cause crystals t	mg/dL o form & accumulate ard	3.60 - 7.70 ound a joint. e kidneys and to a smaller degree in the
by URICASE - OXIDAS INTERPRETATION:- 1.GOUT occurs wher 2.Uric Acid is the enc intestinal tract by m INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary 2.Excessive dietary p 3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia (B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (l 5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I	The PEROXIDASE high levels of Uric Acid in the product of purine metabolism icrobial degradation. D PRODUCTION:- gout. urines (organ meats, legumes, t of malignancies especially le & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS) ess than 2 grams per day). sis or starvation. b any cause etc. DEFICIENCY of Zinc, Iron and molybdenum & Wilsons disease.	6.97 e blood cause crystals t m . Uric acid is excreted anchovies, etc). eukemais & lymphomas	mg/dL o form & accumulate ard to a large degree by the	ound a joint.





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY) KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Refe	rence interval
		ENDO	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUI	0.984	ng/mL	0.35 - 1.93	
THYROXINE (T4): S		6.61	μgm/d	L 4.87 - 12.60	
	TING HORMONE (TSH): S		µIU/m	L 0.35 - 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	IESCENT MICROPARTICLE IMMUI RASENSITIVE	VOASSAY)			
INTERPRETATION; CEL					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentration	s. TSH stimulates the	production and secretion of the) pm. The variation is of the order of 50 metabolically active hormones, thyre ther underproduction (hypothyroidist	oxine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis		ed	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or	Low Normal	Normal or Low Normal	High	

111	<i>ι</i> ιτΔ	TIO	NS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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) THYROXIN		(INE (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	

Increased

Normal or High Normal





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Test Name		Value	Unit	t	Biological Reference interv	
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 LE	VELS 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, 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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