



	MD (Patholo	Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. PARVEEN GULATI			
AGE/ GENDER	: 64 YRS/FEMALE	PAT	IENT ID	: 1589916
COLLECTED BY	: SURJESH	REG	NO./LAB NO.	: 012408240049
REFERRED BY	:	REG	<b>STRATION DATE</b>	: 24/Aug/2024 12:36 PM
BARCODE NO.	: 01515635	COL	LECTION DATE	: 24/Aug/2024 12:41PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 24/Aug/2024 01:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by CALORIMETRIC		cells that carries oxygen fro	om the lungs to the be	odys tissues and returns carbon dioxide from

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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 Cho MD (Pathology & I Chairman & Const	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 24/Aug/2024 04:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		0
Test Name		Value	Unit	Biological Reference interval
	GLYC	OSYLATED HAEMOO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEI WHOLE BLOOD	MOGLOBIN (HbA1c):	6.5 <sup>H</sup>	%	4.0 - 6.4
	E PLASMA GLUCOSE	139.85	mg/dL	60.00 - 140.00
	RMANCE LIQUID CHROMATOGRAPHY)		, and the second s	
by HPLC (HIGH PERFO		DIABETES ASSOCIATION (		
by HPLC (HIGH PERFO INTERPRETATION:	AS PER AMERICAN I		ADA): LATED HEMOGLOGIB	(HBAIC) in %
by HPLC (HIGH PERFOR INTERPRETATION: I Non dia	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years		ADA): LATED HEMOGLOGIB <5.7	(HBAIC) in %
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4	(HBAIC) in %
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years		ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOSYI	ADA): ATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	
by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCOSYI	ADA): ATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years rapy:	< 7.0
by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	AS PER AMERICAN I REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOSYI	ADA): ATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years rapy:	

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

## COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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

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

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

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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 24/Aug/2024 02:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CL	INICAL CHEMISTR CHOLESTERC		Y
CHOLESTEROL TOTA by CHOLESTEROL O		205.79 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
INTERPRETATION:				

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

## NOTE:

NOTE:
 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.
 As per National Lipid association - 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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT



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Test Name		Value	Unit	Biological Reference interval
		URI	C ACID	
JRIC ACID: SERUM				2.50 - 6.80
2.Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary	high levels of Uric Acid in the ble product of purine metabolism . I crobial degradation. D PRODUCTION:- gout.	6.65 ood cause crystals Uric acid is excrete	mg/dL to form & accumulate ard	2.50 - 6.80 ound a joint. e kidneys and to a smaller degree in the
by URICASE - OXIDAS INTERPRETATION:- 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary 2.Excessive dietary pu 3.Cytolytic treatment 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 (le 5.Diabetic ketoacidos 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY E	high levels of Uric Acid in the ble product of purine metabolism . I crobial degradation. D PRODUCTION:- gout. urines (organ meats,legumes,and t of malignancies especially leuke & myeloid metaplasia. etc. D EXCREATION (BY KIDNEYS) ess than 2 grams per day ). sis or starvation. o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease.	6.65 ood cause crystals Uric acid is excrete thovies, etc).	mg/dL to form & accumulate are ed to a large degree by the	ound a joint.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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	. 00407 1, MICHOLSON ROAL	, AMDALA CAN'I I			
Test Name		Value	Unit	Biological Reference interval	
	ING HORMONE (TSH): SERUN		IOLOGY G HORMONE (TSH) µIU/mL	0.35 - 5.50	
	TING HORMONE (TSH): SERUN	ROID STIMULATIN	G HORMONE (TSH)	0.35 - 5.50	
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN	ROID STIMULATIN	G HORMONE (TSH)		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS	ROID STIMULATIN	G HORMONE (TSH) µIU/mL REFFERENCE RANGE (µ 0.70 – 15.20		
by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ROID STIMULATIN	G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ROID STIMULATIN	G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40		
by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ROID STIMULATIN	G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μl</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULATIN	G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μl</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ROID STIMULATIN	G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μl</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	TING HORMONE (TSH): SERUN INESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULATIN	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μl 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50		
by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	YROID STIMULATIN	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00		
by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	YROID STIMULATIN	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50		

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**USE**:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS**:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

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

DECREASED 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.



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7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

## LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.

\*\*\* End Of Report \*\*?



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