



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD (I CEO & Consultant F	Pathology)
IAME	: Mrs. NITIKA			
AGE/ GENDER	: 33 YRS/FEMALE	PATIE	ENT ID	: 1557545
COLLECTED BY	:	REG. N	NO./LAB NO.	:012407220054
REFERRED BY		RECIS	TRATION DATE	: 22/Jul/2024 07:25 PM
BARCODE NO.	: 01513633		ECTION DATE	: 22/Jul/2024 07:27PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 22/Jul/2024 09:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEMO WHOLE BLOOD		HAEMATOL LYCOSYLATED HAEMOO 5.3		4.0 - 6.4
ESTIMATED AVERAGE F	IANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY)	105.41	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) i		%
	Non diabetic Adults >= 18 years		<5.7	
	At Risk (Prediabetes) Diagnosing Diabetes		5.7 - 6.4	
Dia	gnosing Diabetes	A	>= 0.5 e > 19 Years	
		Goals of Therapy: < 7.0		
Therapeutic	goals for glycemic control	Actions Suggested:	>8.0	
			e < 19 Years	
		Goal of therapy:	<7.5	

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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultan	obiology) ME	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Mrs. NITIKA		
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Test Name		Value Unit	Biological Reference interval

Name : Age : Gender :	Case : Department :	Patient Type Sample Type	: Whole Blood EDTA	Test Date:22/07/2024 20:45:5 Sample Id:01513633 Total Area:12874
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)
HbA0	70	3436	11529	87.5
HbA1c	37	63	697	5.3
La1c	24	44	302	2.3
HbF	19	55	74	0.6
Hba1b Hba1a	12	52 40	138 134	1.0
		40	134	1.0
0.03		1		Choromotography Hba1c
0.025 -		1		
0.02-		N		
¥ 0.015 −		Įv.		
0.01-		N		
0.005 -				
0	10 20 30 40 50 60 Ti	70 80 90 1 me(S)	00 110 120 130	



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM			0.35 - 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM Nescent microparticle immuno, Trasensitive	<b>ROID STIMULATIN</b> 1.761	<b>G HORMONE (TSH)</b> μIU/mL		
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE	<b>ROID STIMULATIN</b> 1.761	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS	<b>ROID STIMULATIN</b> 1.761	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE	<b>ROID STIMULATIN</b> 1.761	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	<b>ROID STIMULATIN</b> 1.761	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	<b>ROID STIMULATIN</b> 1.761	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	<b>ROID STIMULATIN</b> 1.761	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO. TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	(ROID STIMULATING 1.761 ASSAY)	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	<b>ROID STIMULATIN</b> 1.761	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	(ROID STIMULATING 1.761 ASSAY)	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 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 (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO, TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	(ROID STIMULATING 1.761 ASSAY)	<b>C HORMONE (TSH)</b> μIU/mL <b>REFFERENCE RANGE (μ</b> 0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50		

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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, Iodine 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name		Value Unit	Biological Reference interval

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.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	II	MMUNOPATHO	DLOGY/SEROLOGY	
		ANTI PHOSPHOL	IPID ANTIBODY IgG	
ANTI PHOSPHOLIPIE by Elisa (Enzyme Lii INTERPRETATION:-	) ANTIBODY IgG vked immunoassay)	5.09	GPL U/mL	0.00 - 12.00
	OLIPID IgG RESULT	UNIT		VALUE
	GATIVE	GPL U/mL		< 12.00

 POSITIVE
 GPL U/mL
 12 OR >12.00

 1.Antiphospholipid antibody syndrome (commonly called antiphospholipid syndrome or APS) is an autoimmune disease present mostly in young women. 2.Those with APS make abnormal proteins called antiphospholipid autoantibodies in the blood which interact with the negatively charged cell membrane phospholipids including those present on vascular endothelial cells.

3. Various antiphospholipid antibodies are responsible for the development of this disorder, these are anticardiolopin, 2 glycoprotein 1, phosphatidyl-serine-choline-ethanolamine-sphingomyelin and inositol.

4. The presence of these antibodies in the plasma leads to prolongation of PT and APTT in vitro (anticoagulants), however in vivo they are associated with thrombotic tendencies including recurrent venous thrombo-embolism, cerebro-vascular accidents and arterial events.
 5. It is also associated with recurrent abortions, fetal loss and other complications of pregnancy.

This test picks up antibodies belonging to all the above subtypes.





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Test Name		Value	Unit	Biological Reference interval
		ANTI PHOSPHOLIPID A	ANTIBODY IgM	
ANTI PHOSPHOLIPIE by Elisa (Enzyme Lin INTERPRETATION:-		4.21	MPL U/mL	0.00 - 12.00
ANTI PHOSPHO	DLIPID IgM RESULT	UNIT		VALUE
	GATIVE	MPL IU/mL		< 12.00
PO	SITIVE	MPL IU/mL		12 OR >12.00

1. Antiphospholipid antibody syndrome (commonly called antiphospholipid syndrome or APS) is an autoimmune disease present mostly in young women. 2. Those with APS make abnormal proteins called antiphospholipid autoantibodies in the blood which interact with the negatively charged cell membrane phospholipids including those present on vascular endothelial cells.

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Test Name		Value	Unit	Biological Reference interval	
	ANTI NU	CLEAR ANTIBOD	//FACTOR (ANA/A	NF)	
	IBODIES (ANA): SERUM NKED IMMUNOASSAY)	0.52	INDEX VA	NEGATIVE: < 1.0 BORDERLINE: 1.0 - 1.20	

## **INTERPRETATION:-**

1.For diagnostic purposes, ANA value should be used as an adjuvant to other clinical and laboratory data available.

2. Measurement of antinuclear antibodies (ANAs) in serum is the most commonly performed screening test for patients suspected of having a systemic rheumatic disease, also referred to as connective tissue disease.

3.ANAs occur in patients with a variety of autoimmune diseases, both systemic and organ-specific. They are particularly common in the systemic rheumatic diseases, which include lupus erythematosus (LE), discoid LE, drug-induced LE, mixed connective tissue disease, Sjogren syndrome scleroderma (systemic sclerosis), CREST (calcinosis, Raynaud's phenomenon, esophageal dysmotility, sclerodactyly, telangiectasia) syndrome, polymyositis/dermatomyositis, and rheumatoid arthritis. NOTE:

1. The diagnosis of a systemic rheumatic disease is based primarily on the presence of compatible clinical signs and symptoms.

The results of tests for autoantibodies including ANA and specific autoantibodies are ancillary. Additional diagnostic criteria include consistent histopathology or specific radiographic findings. Although individual systemic rheumatic diseases are relatively uncommon, a great many patients present with clinical findings that are compatible with a systemic rheumatic disease ANA screening may be useful for ruling out the disease.

2. Secondary, disease specific auto antibodies maybe ordered for patients who are screen positive as ancillary aids for the diagnosis of specific auto-immune disorders.

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





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