



		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. ARUNA ARORA			
AGE/ GENDER	: 60 YRS/FEMALE	PATI	ENT ID	: 1647629
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012410190026
REFERRED BY	:	REGI	STRATION DATE	: 19/Oct/2024 10:22 AM
BARCODE NO.	:01519171	COLL	ECTION DATE	: 19/Oct/2024 10:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 19/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO.	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMOGLOB		12.0.14.0
HAEMOGLOBIN (HB)	13	gm/dL	12.0 - 16.0
by CALORIMETRIC INTERPRETATION:-				
Hemoglobin is the pr	otein molecule in red blood o	cells that carries oxygen fro	m the lungs to the b	odys tissues and returns carbon dioxide from the
tissues back to the lu A low hemoglobin lev	ings. /el is referred to as ANEMIA c	r low red blood count.		
ANEMIA (DECRESED	HAEMOGLOBIN):		- ulaan)	
2) Nutritional deficie	imatic injury, surgery, bleedi ncy (iron, vitamin B12, folate	2)	i ulcer)	
 Bone marrow prob Suppression by reg 	lems (replacement of bone n d blood cell synthesis by cher	narrow by cancer)		
5) Kidney failure	5	15 0		
6) Abnormal hemogle POLYCYTHEMIA (INCE	obin structure (sickle cell ane REASED HAEMOGLOBIN):	emia or thalassemia).		
1) People in higher a	Ititudes (Physiological)			
2) Smoking (Seconda 3) Dehydration produ	uces a falsely rise in hemoglo	bin due to increased haem	oconcentration	
4) Advanced lung dise5) Certain tumors	ease (for example, emphysen	na)		
6) A disorder of the b	one marrow known as polycy	ythemia rubra vera,		
7) Abuse of the drug	erythropoetin (Epogen) by at e production of red blood ce	hletes for blood doping pur	poses (increasing the	e amount of oxygen available to the body by

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

V 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.





	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 19/Oct/2024 03:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLYCC MOGLOBIN (HbA1c):	OSYLATED HAEM	DGLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAG	ORMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ORMANCE LIQUID CHROMATOGRAPHY)	168.55 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIATIO	N (ADA):	
	AS PER AMERICAN DI. REFERENCE GROUP		N (ADA): SYLATED HEMOGLOGIB	(HBAIC) in %
Non di	REFERENCE GROUP abetic Adults >= 18 years			(HBAIC) in %
Non di	REFERENCE GROUP		SYLATED HEMOGLOGIB <5.7 5.7 – 6.4	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years		SYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOS	<pre>SYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years</pre>	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCOS Goals of Th	SYLATED HEMOGLOGIB <5.7	< 7.0
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOS	SYLATED HEMOGLOGIB <5.7	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCOS Goals of Th	SYLATED HEMOGLOGIB <5.7	< 7.0

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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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 ROAL	AD, AMBALA CANTT		
		Mahua	11	
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUN			Biological Reference interval
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH)	
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH) μIU/mL	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN iescent microparticle immunc rasensitive	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH)	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN iescent microparticle immund rasensitive AGE	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY G HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY 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	0.35 - 5.50
THYROID STIMULAT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY 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	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRIN (ROID STIMULATIN 1 3.062 (ASSAY)	OLOGY 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	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15 > 20 Years (Adults)	ENDOCRIN (ROID STIMULATIN 1 3.062	OLOGY 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	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNC RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRIN (ROID STIMULATIN 1 3.062 (ASSAY)	OLOGY 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	0.35 - 5.50

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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, 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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Page 3 of

oid harmo g Thyroid pothalm





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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.

*** End Of Report **?



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