



		MD (Pathology & Mi	Dr. Vinay Chopra 1D (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam MD & Consultant		
NAME	: Mrs. KAM	NI					
AGE/ GENDER	R : 48 YRS/FEMALE			PATIENT ID		: 1664337	
COLLECTED BY	LECTED BY :			REG. NO./LAB NO.		: 012411070053	
REFERRED BY	REFERRED BY		REGISTRATION DATE		: 07/Nov/2024 02:14 PM		
BARCODE NO.	:01520310		COLLECTION DATE		:07/Nov/202402:19PM		
CLIENT CODE.	: KOS DIAGN	OSTIC LAB	REPORTING DATE		: 07/Nov/2024 04:50PM		
CLIENT ADDRESS							
Test Name			Value		Unit		Biological Reference interval
GLYCOS GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		YLATED HA 8.8 ^H 205.86 ^H	AEMOGLOE	BIN (HBA1C % % mg/dL)	4.0 - 6.4 60.00 - 140.00	
		AS PER AMERICAN DIA					
	REFERENCE GRO				HEMOGLOGIB	(HBAIC) in	%
	abetic Adults >=				<5.7		
	t Risk (Prediabe		_		5.7 - 6.4		
U	Diagnosing Diabo	etes	-	Δι	>= 6.5 ge > 19 Years		
			Goals	s of Therapy:		< 7.0	
Therapeutic goals for glycemic control		Actions Suggested:		>8.0			
		Age < 19 Years Goal of therapy:		<7.5			
2.Since Hb1c reflects to concentration of HbAl 3.Target goals of < 7.0 patients with significan appropiate. 4.High HbA1c (>9.0 -9	ong term fluctua lc. Converse is tr) % may be bene nt complications 9.5 %) is strongly	tions in blood glucose of ue for a diabetic previou ficial in patients with sh of diabetes, limited life	onitoring dom concentration, usly under goo nort duration o e expectancy of of developmer	e to assess cor a diabetic patie d control but n f diabetes, long r extensive co-r nt and rapid pr	ent who has rec ow poorly contr g life expectanc norbid conditio ogression of m	erapeutic ently unde rolled. y and no s ns, targett nicrovascu	regimen in diabetic patients. er good control may still have high ignificant cardiovascular disease. In ing a goal of < 7.0% may not be lar and nerve complications

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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		onsultant Pathologist	CEO & Consultant	Pathologist
NAME	: Mrs. KAMINI			
AGE/ GENDER	: 48 YRS/FEMALE	PATI	ENT ID	: 1664337
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BARCODE NO.	:01520310	COLL	ECTION DATE	:07/Nov/202402:19PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 07/Nov/2024 03:37PM
	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAI		RTING DATE	: 07/Nov/2024 03:37PM
CLIENT ADDRESS			RTING DATE Unit	: 07/Nov/2024 03:37PM Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT	Unit	Biological Reference interval
CLIENT CODE. CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAI), AMBALA CANTT Value	Unit /BIOCHEMIST	Biological Reference interval

(after consumption of 75 gms of glucose) is recommended for all such patients. 3. A random glucose level of above 200 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.





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NAME	: Mrs. KAMI	NI						
AGE/ GENDER	: 48 YRS/FEM	IALE		PATIENT ID	: 16643	37		
COLLECTED BY			REG. NO./LAB NO.		:0124	:012411070053		
REFERRED BY				REGISTRATION DAT	FE • 07/Nc	v/2024 02:14 PM		
BARCODE NO.	:01520310			COLLECTION DATE		v/2024 02:19PM		
CLIENT CODE.	: KOS DIAGN			REPORTING DATE		v/2024 03:58PM		
CLIENT CODE.		CHOLSON ROAD, AMBA	A CANTT	REPORTING DATE	:07/NC	V/2024 03:58PM		
	. 00 107 1,111							
Test Name			Value	Unit	7	Biological Reference interva		
THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to c	IESCENT MICROF SERUM IESCENT MICROF ATING HORMC IESCENT MICROF RASENSITIVE circadian variation	ARTICLE IMMUNOASSAY) ARTICLE IMMUNOASSAY) DNE (TSH): SERUM ARTICLE IMMUNOASSAY) . reaching peak levels betwe			/dL mL -10 pm. The varia:	0.35 - 1.93 4.87 - 12.60 0.35 - 5.50		
overproduction(hyperthy			lamic-pituitar					
CLINICAL CONDITION Primary Hypothyroidisr	m:	T3 Reduced		T4 Reduced	TSH Increased (Sig			
Subclinical Hypothyroid		Normal or Low Norma	al	Normal or Low Normal	Hig			
5. 5				Increased	Ŷ	imes undetectable)		
Primary Hyperthyroidism: Increased Subclinical Hyperthyroidism: Normal or High Normal			Increased Normal or High Normal					

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 (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	YRONINE (T3)	THYROX	(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	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name			Value	Unit		Biological Reference interva
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	MMENDATIONS 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, 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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