



MD (		<b>y Chopra</b> logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. KAMLESH GUPT	A			
AGE/ GENDER	: 71 YRS/FEMALE	PAT	IENT ID	: 1755304	
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012502130013	
REFERRED BY	: CENTRAL PHOENIX CL	UB (AMBALA CANTT) <b>REG</b> I	<b>ISTRATION DATE</b>	: 13/Feb/2025 09:34 AM	
BARCODE NO.	:01525419	COLI	LECTION DATE	: 13/Feb/2025 10:12AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 13/Feb/2025 10:44AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
tissues back to the lun A low hemoglobin leve ANEMIA ( DECRESED H	gs. I is referred to as ANEMIA <b>AEMOGLOBIN):</b>	or low red blood count.		odys tissues and returns carbon dioxide from t	
<ol> <li>2) Nutritional deficien</li> <li>3) Bone marrow proble</li> <li>4) Suppression by red</li> <li>5) Kidney failure</li> </ol>	cy (iron, vitamin B12, fola ems (replacement of bone blood cell synthesis by ch	marrow by cancer) emotherapy drugs	h ulcer)		
POLYCYTHEMIA (INCRE 1) People in higher all 2) Smoking (Secondary	Polycythemia)	nemia or thalassemia). Iobin due to increased haem	oconcentration		
<ol> <li>Advanced lung disea</li> <li>Certain tumors</li> </ol>	ase (for example, emphyse ne marrow known as poly	ema)			

## 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.





KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay ( MD (Patholog Chairman & C	Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam C MD (Pat CEO & Consultant Pat	hology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. KAMLESH GUPTA : 71 YRS/FEMALE : SURJESH : CENTRAL PHOENIX CLUB : 01525419 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	REG. 1 8 (AMBALA CANTT) REGIS COLL REPO	NO./LAB NO. : TRATION DATE : ECTION DATE :	1755304 <b>012502130013</b> 13/Feb/2025 09:34 AM 13/Feb/2025 10:12AM 13/Feb/2025 11:56AM
Test Name		Value	Unit	Biological Reference interval
CREATININE: SERI	UM	NICAL CHEMISTRY CREATIN 1.21 <sup>H</sup>		0.40 - 1.20

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	<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam ( MD (P EO & Consultant Pa	D (Pathology)	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 13/Feb/2025 11:46AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interv	
		URIC ACID			
JRIC ACID: SERUM		4.66	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS	E PEROXIDASE		Ũ		
3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia	urines (organ meats,legumes,anch t of malignancies especially leuke & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS)	mais & lymphomas.			
3.Lactic acidosis. 4.Aspirin ingestion (1 5.Diabetic ketoacido 5.Renal failure due to DECREASED:- (A).DUE TO DIETARY 1 1.Dietary deficiency 2.Fanconi syndrome	o any cause etc. <b>DEFICIENCY</b> of Zinc, Iron and molybdenum. & Wilsons disease.				
3.Lactic acidosis. 4.Aspirin ingestion (l 5.Diabetic ketoacido 6.Renal failure due tr <b>DECREASED:-</b> (A).DUE TO DIETARY I 1.Dietary deficiency 2.Fanconi syndrome 3.Multiple sclerosis 4.Syndrome of inapp (B).DUE TO INCREASE	sis or starvation. Dany cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease. ropriate antidiuretic hormone (SIA D EXCREATION			and ACTH, anti-coagulants and estroger	

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Test Name	V	alue	Unit	Biological Reference interva
	F	ENDOCRIN	OLOGY	
	THYROI	D FUNCTIO	N TEST: TOTAL	
	NE (T3): SERUM	0.738	ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASSAY)			
by CMIA (CHEMILUMIN THYROXINE (T4): S	IESCENT MICROPARTICLE IMMUNOASSAY)	8.53	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOASSAY)       SERUM       SERUM	8.53 5.143	μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50
THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA	IESCENT MICROPARTICLE IMMUNOASSAY)       SERUM       SERUM			

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

## LIMITATIONS:-

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.

TRIIODOTHYRONINE (T3)		THYROX	DXINE (T4) THYROID STIMU		LATING 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 Name	Value	TI	<b>Biological Defenses interval</b>

Test Name			Value	Uni	t	Biological Reference interval
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	<b>MMENDATIONS OF TSH L</b>	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





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Test Name		Value	Unit	<b>Biological Reference inter</b>	val	
INTERPRETATION: 1. Carcinoembryonic 2. Increased levels m breast, gastrointestii 3. Serial monitoring (	nal tract, liver, lung, ovarian, pa of CFA should begin prior to init	imary colorectal c ncreatic, and pro- iation of cancer th	cancer or other malignancie static cancers. Derapy to verify post therap	thelium. es including medullary thyroid carcinoma by decrease in concentration and to establ ns after removal of cancerous tissue.		
2. May be usĕful in a <b>NOTE:</b>	ctal cancer and selected other of seessing the effectiveness of che	emotherapy or rad	liation treatment.			
<ol> <li>Carcinoembryonic</li> <li>Grossly elevated c</li> <li>of the presence of ca</li> <li>Most healthy subje</li> <li>After removal of a</li> </ol>	ncer and also suggest metastasi acts (97%) have values < or =3.0	concentrations (> is. ng/mL. A concentration sh	20 ng/mL) in a patient with nould return to normal by 6	compatible symptoms are strongly sugger weeks, unless there is residual tumor.	stive	
		*** End Of R	eport ***			

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