PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mrs. POOJA				
AGE/ GENDER : 42 YRS/FEMALE		PATIENT ID		: 1390887	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 122409200008	
REFERRED BY	:	R	EGISTRATION DATE	: 20/Sep/2024 08:47 AM	
BARCODE NO.	: 12504814	C	OLLECTION DATE	: 20/Sep/2024 08:50AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE I	NSTITUTE R I	EPORTING DATE	: 20/Sep/2024 10:53AM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,	AMBALA CITY - HARY	ANA		
Test Name		Value	Unit	Biological Reference interval	
	CLI	NICAL CHEMIST	RY/BIOCHEMISTR	Y	
		URIC	ACID		
URIC ACID: SERUM		4.55	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS INTERPRETATION:-	E PEROXIDASE				
2.Excessive dietary pu 3.Cytolytic treatment	urines (organ meats, legumes, a of malignancies especially leg	anchovies, etc). ukemais & lymphomas			
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 D 1.Dietary deficiency o 2.Fanconi syndrome 3.Multiple sclerosis.	gout. urines (organ meats,legumes,a t of malignancies especially ler & 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.	ukemais & lymphomas			
 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 (lefs. 5.Diabetic ketoacidosis 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY D 1.Dietary deficiency of 2.Fanconi syndrome 3.Multiple sclerosis. 4.Syndrome of inappr (B).DUE TO INCREASEI 	gout. urines (organ meats,legumes,a of malignancies especially ler & 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. ropriate antidiuretic hormone D EXCREATION	(SIADH) secretion & lo	w purine diet etc.	ds and ACTH, anti-coagulants and estrogens	



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE REP	ORTING DATE	: 20/Sep/2024 04:26PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYAN	JA			
Test Name		Value	Unit	Biological Reference interval		
		ENDOCRIN	OLOGY			
	ТНҮ	ROID FUNCTIO	N TEST: TOTAL			
TRIIODOTHYRONIN	E (T3): SERUM	0.92	ng/mL	0.35 - 1.93		
	ESCENT MICROPARTICLE IMMUNOASSAY	1	3			
THYROXINE (T4): SE		3.49 ^L	µgm/dL	4.87 - 12.60		
by CMIA (CHEMILUMI IMMUNOASSAY)	NESCENT MICROPARTICLE					
	ING HORMONE (TSH): SERUM	72.11 ^H	μlU/mL	0.35 - 5.50		
by CMIA (CHEMILUMI IMMUNOASSAY)	NESCENT MICROPARTICLE					
3rd GENERATION, ULT	DASENSITIVE					

INTERPRETATION:

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations.TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	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	

I IMITATIONS-

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

Ī	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Ī	Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)

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





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Test Name		Value Unit	t Biological Reference inter			
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	
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 LI	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, idonie 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 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.

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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