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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SUBHKAMINI				
AGE/ GENDER	: 22 YRS/FEMALE	PATIENT	ID	: 1602730	
COLLECTED BY	:	REG. NO./	LAB NO.	: 122409050017	
REFERRED BY	:	REGISTRA	ATION DATE	: 05/Sep/2024 11:56 AM	
BARCODE NO.	: 12504509	COLLECTI	ON DATE	: 05/Sep/2024 11:59AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUT	E REPORTI	NG DATE	: 05/Sep/2024 01:30PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	JR, HISSAR ROAD, AMBALA CITY - HARYANA		-	
Test Name		Value	Unit	Biological Reference interval	
		HAEMATOLOG	iΥ		
		HAEMOGLOBIN (I			
HAEMOGLOBIN (HB		12.7	gm/dL	12.0 - 16.0	
by CALORIMETRIC					
<u>INTERPRETATION:-</u> Hemoglobin is the pr	otein molecule in red blood cells that ca	arries oxygen from the	e lunas to the b	oodys tissues and returns carbon dioxide fror	
tissues back to the lu	ings.	30	in inge te the t		
A low hemoglobin lev ANEMIA (DECRESED	vel is referred to as ANEMIA or low red b	blood count.			
1) Loss of blood (trau	imatic injury, surgery, bleeding, colon c	ancer or stomach ulc	er)		
2) Nutritional deficie	ncy (iron, vitamin B12, folate)				
4) Suppression by re	lems (replacement of bone marrow by d blood cell synthesis by chemotherapy	drugs			
5) Kidney failure	5 5 15	ů			
	obin structure (sickle cell anemia or tha REASED HAEMOGLOBIN):	alassemia).			
	Ititudes (Physiological)				
2) Smoking (Seconda	ry Polycythemia)				
	uces a falsely rise in hemoglobin due to	increased haemocon	centration		
5) Certain tumors	ease (for example, emphysema)				
6) A disorder of the b	oone marrow known as polycythemia ru				
7) Abuse of the drug	erythropoetin (Epogen) by athletes for b	blood doping purpose:	s (increasing the	e amount of oxygen available to the body by	

7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available to the body by chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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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Test Name		Value	Unit	Biological Reference interval	
	CL	INICAL CHEMISTRY	/BIOCHEMISTR	Y	
		URIC AC	CID		
URIC ACID: SERUM		4.14	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS	E PEROXIDASE				
INTERPRETATION:- 1. GOUT occurs when 2. Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1. Idiopathic primary 2. Excessive dietary pt 3. Cytolytic treatment 4. Polycythemai vera	crobial degradation.	n . Uric acid is excreted to anchovies, etc).	orm & accumulate arc a large degree by the	ound a joint. kidneys and to a smaller degree in the	
INTERPRETATION:- 1. GOUT occurs when 2. Uric Acid is the end intestinal tract by mi INCREASED:- (A).DUE TO INCREASE 1. Idiopathic primary 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 (Id 5. Diabetic ketoacidosis. 6. Renal failure due to DECREASED:- (A).DUE TO DIETARY E 1. Dietary deficiency of	product of purine metabolisr crobial degradation. D PRODUCTION:- gout. of malignancies especially le & myeloid metaplasia. etc. D EXCREATION (BY KIDNEYS) ess than 2 grams per day). sis or starvation. any cause etc. DEFICIENCY of Zinc, Iron and molybdenum	n . Uric acid is excreted to anchovies, etc). eukemais & lymphomas.	orm & accumulate arc a large degree by the	bund a joint. kidneys and to a smaller degree in the	
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NOT VALID FOR MEDICO LEGAL PURPOSE

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Test Name Unit		1114	Biological Reference interval		
Test Name		Value	Unit	Biological Reference Interval	
Test Name					
Test Name	THYR		OGY		
TRIIODOTHYRONINE		ENDOCRINOL COID FUNCTION 1 1.34	OGY	0.35 - 1.93	
TRIIODOTHYRONINE by cmia (chemilumin Thyroxine (T4): sef	(T3): SERUM escent microparticle immunoassay)	ENDOCRINOL COID FUNCTION 1 1.34 9.88	OGY TEST: TOTAL		

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

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 (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.

TRIIODOTHYRONINE (T3)		THYROXINE (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	



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Test Name		Value	Unit		Biological Reference interval		
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		
	RECOMI	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY (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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