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

A PIONEER DIAGNOSTIC CENTRE

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

	: Mrs. PRINKA RANI					
AGE/ GENDER	: 30 YRS/FEMALE PATIENT ID		: 1	: 1566125		
COLLECTED BY	Y : REG. NO./LAB NO.		0. :1	22407310003		
REFERRED BY	:	REGISTRATION	DATE : 3	: 31/Jul/2024 08:54 AM		
BARCODE NO.	: 12503905	COLLECTION DA	TE : 3	1/Jul/2024 09:58AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE REPORTING DA	TE : 3	: 31/Jul/2024 01:13PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - HARYANA				
Test Name		Value	Jnit	Biological Reference interval		
		HAEMATOLOGY				
		HAEMOGLOBIN (HB)				
HAEMOGLOBIN (HB)		10.6 ^L	jm/dL	12.0 - 16.0		
by CALORIMETRIC						
	otein molecule in red blood cells that	carries oxygen from the lungs	to the bodys	issues and returns carbon dioxide from		
Hemoglobin is the protection of the lu	ings.	30	to the bodys t	issues and returns carbon dioxide from		
Hemoglobin is the protection of the protection of the second seco	ings. /el is referred to as ANEMIA or low rec	30	to the bodys t	issues and returns carbon dioxide from		
Hemoglobin is the protection of the protection of the luke of the luke and the luke of the	ngs. /el is referred to as ANEMIA or low rec HAEMOGLOBIN): Imatic injury, surgery, bleeding, color	d blood count.	to the bodys t	issues and returns carbon dioxide from t		
Hemoglobin is the pritissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie	ngs. /el is referred to as ANEMIA or low rec H AEMOGLOBIN): Imatic injury, surgery, bleeding, color ncy (iron, vitamin B12, folate)	d blood count.	to the bodys	issues and returns carbon dioxide from		
Hemoglobin is the pritissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob	ngs. /el is referred to as ANEMIA or low red HAEMOGLOBIN): Imatic injury, surgery, bleeding, color ncy (iron, vitamin B12, folate) Ilems (replacement of bone marrow b	d blood count. a cancer or stomach ulcer) y cancer)	to the bodys t	tissues and returns carbon dioxide from		
Hemoglobin is the pri- tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure	ngs. vel is referred to as ANEMIA or low red HAEMOGLOBIN): Imatic injury, surgery, bleeding, color ncy (iron, vitamin B12, folate) Ilems (replacement of bone marrow b d blood cell synthesis by chemotherap	d blood count. n cancer or stomach ulcer) y cancer) by drugs	to the bodys	issues and returns carbon dioxide from		
Hemoglobin is the pri- tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo	ngs. vel is referred to as ANEMIA or low red HAEMOGLOBIN): Imatic injury, surgery, bleeding, color ncy (iron, vitamin B12, folate) Ilems (replacement of bone marrow b d blood cell synthesis by chemotherap obin structure (sickle cell anemia or t	d blood count. n cancer or stomach ulcer) y cancer) by drugs	to the bodys	tissues and returns carbon dioxide from		
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Hemoglobin is the pri- tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficien 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo POLYCYTHEMIA (INCF 1) People in higher a 2) Smoking (Secondan 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors 6) A disorder of the b	ings. vel is referred to as ANEMIA or low red HAEMOGLOBIN): Imatic injury, surgery, bleeding, color ncy (iron, vitamin B12, folate) lems (replacement of bone marrow b d blood cell synthesis by chemotheral obin structure (sickle cell anemia or t REASED HAEMOGLOBIN): Ititudes (Physiological) ry Polycythemia) uces a falsely rise in hemoglobin due ease (for example, emphysema) wone marrow known as polycythemia	d blood count. n cancer or stomach ulcer) y cancer) by drugs halassemia). to increased haemoconcentra	tion	tissues and returns carbon dioxide from		

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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.	CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE		PORTING DATE	: 31/Jul/2024 04:48PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - HARYA	ANA			
Test Name		Value	Unit	Biological Reference interval		
		ENDOCRIN	NOLOGY			
	ТНҮ	ROID FUNCTIO	ON TEST: TOTAL			
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM iescent microparticle immunoassay;	1.322	ng/mL	0.35 - 1.93		
THYROXINE (T4): SE	RUM iescent microparticle immunoassay;	11.05	μgm/dL	4.87 - 12.60		
	ING HORMONE (TSH): SERUM iescent microparticle immunoassay;	3.087	µIU/mL	0.35 - 5.50		
3rd GENERATION, ULT	RASENSITIVE					

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	

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 levies 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		t Bioloç		ological 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		
	RECON	IMENDATIONS OF TSH LE	VELS DURING PREC	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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