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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. DYALO DEVI					
AGE/ GENDER : 70 YRS/FEMALE		PATIENT ID		: 1630857		
COLLECTED BY	:	REG. NO./LAB NO.		: 122410010006 : 01/Oct/2024 09:05 AM		
REFERRED BY	D BY REGISTRATION DATE		STRATION DATE			
BARCODE NO.	: 12505008	COLI	LECTION DATE	: 01/Oct/2024 09:57AM : 01/Oct/2024 11:33AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE REP	DRTING DATE			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYAN	A			
Test Name		Value	Unit	Biological Reference interval		
		НАЕМАТО	LOGY			
		HAEMOGLOE				
HAEMOGLOBIN (HB)		11.3 ^L	gm/dL	12.0 - 16.0		
by CALORIMETRIC						
<u>INTERPRETATION:-</u> Hemoglobin is the pro-	otein molecule in red blood cells tha	t carries oxygen fro	om the lunas to the ba	odys tissues and returns carbon dioxide from		
tissues back to the lu	ings.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	g			
A low hemoglobin lev	vel is referred to as ANEMIA or low re	d blood count.				
ANEMIA (DECRESED I	HAEMOGLOBIN): Imatic injury, surgery, bleeding, colo	n cancer or stomad	bulcer)			
2) Nutritional deficie	ncy (iron, vitamin B12, folate)					
3) Bone marrow prob	lems (replacement of bone marrow l	oy cancer)				
	d blood cell synthesis by chemothera	ipy drugs				
5) Kidney failure	obin structure (sickle cell anemia or	thalassomia)				
POLYCYTHEMIA (INCE	REASED HAEMOGLOBIN):	tilalassellila).				
1) People in higher a	Ititudes (Physiological)					
2) Smoking (Seconda	ry Polycythemia)					
3) Dehydration produ	uces a falsely rise in hemoglobin due	to increased haem	oconcentration			
 Advanced lung dise Certain tumors 	ease (for example, emphysema)					
	one marrow known as polycythemia	rubra vera.				
			poses (increasing the	e amount of oxygen available to the body by		

chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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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 ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						
Test Name		Value	Unit	Biological Reference interval		
		ENDOCRINO	LOGY			
	ТНҮК	ROID FUNCTION	TEST: TOTAL			
TRIIODOTHYRONINI	E (T3): SERUM vescent microparticle immunoassay)	1.24	ng/mL	0.35 - 1.93		
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		5.58	µgm/dL	4.87 - 12.60		
	TING HORMONE (TSH): SERUM	7.95 ^H	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 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)		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	





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Test Name		Value Unit		Biological Reference interv		
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	
	RECC	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, 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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