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

A PIONEER DIAGNOSTIC CENTRE

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

REFERRED BY         :         REGISTRATION DATE         : 05/Dec           BARCODE NO.         : 12506009         COLLECTION DATE         : 05/Dec	38 2050012 c/2024 11:36 AM c/2024 11:56AM c/2024 01:29PM Biological Reference interval
REFERRED BY       :       REGISTRATION DATE       : 05/Dec         BARCODE NO.       : 12506009       COLLECTION DATE       : 05/Dec         CLIENT CODE.       : P.K.R JAIN HEALTHCARE INSTITUTE       REPORTING DATE       : 05/Dec         CLIENT ADDRESS       : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA       : 05/Dec         Test Name       Value       Unit         HAEMATOLOGY       HAEMOGLOBIN (HB)       : 05/Dec         by CALORIMETRIC       12.2       gm/dL         INTERPRETATION:-       Hemoglobin is the protein molecule in red blood cells that carries oxygen from the lungs to the bodys tissues tissues back to the lungs.       A low hemoglobin level is referred to as ANEMIA or low red blood count.	c/2024 11:36 AM c/2024 11:56AM c/2024 01:29PM
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1) Loss of blood (traumatic injury surgery bleeding colon cancer or stomach ulcer)	
1) Loss of blood (traumatic injury, surgery, bleeding, colon cancer or stomach ulcer) 2) Nutritional deficiency (iron, vitamin B12, folate)	
3) Bone marrow problems (replacement of bone marrow by cancer)	
4) Suppression by red blood cell synthesis by chemotherapy drugs	
5) Kidney failure	
6) Abnormal hemoglobin structure (sickle cell anemia or thalassemia). POLYCYTHEMIA (INCREASED HAEMOGLOBIN):	
1) People in higher altitudes (Physiological)	
2) Smoking (Secondary Polycythemia)	
3) Dehydration produces a falsely rise in hemoglobin due to increased haemoconcentration	
4) Advanced lung disease (for example, emphysema)	
5) Certain tumors	
6) A disorder of the bone marrow known as polycythemia rubra vera, 7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of	anneae anaileala ta tha h-shi bir

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) 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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NAME	: Mr. NEERAJ					
GE/ GENDER         : 60 YRS/MALE         PATIENT ID           OLLECTED BY         :         REG. NO./LAB NO.		TIENT ID	: 1691338			
		G. NO./LAB NO.	. : 122412050012			
REFERRED BY	:	RE	GISTRATION DATE	: 05/Dec/2024 11:36 AM		
BARCODE NO.	: 12506009	<b>COLLECTION DATE</b> : 05/Dec/2024 11:		:05/Dec/2024 11:56AM		
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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						
Test Name		Value	Unit	Biological Reference interval		
				0		
		ENDOCRI	NOLOGY			
	THYRO		NOLOGY ON TEST: TOTAL			
TRIIODOTHYRONII by CMIA (CHEMILUMIN				0.35 - 1.93		
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTI	ON TEST: TOTAL	0.35 - 1.93 4.87 - 12.60		
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM iescent microparticle immunoassay) SERUM	DID FUNCTION 1.24	<b>ON TEST: TOTAL</b> ng/mL			
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) SERUM ESCENT MICROPARTICLE IMMUNOASSAY) TTING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	<b>1D FUNCTIO</b> 1.24 7.72	<b>DN TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60		

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 (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	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	
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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<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Dec/2024 11:36 AM		
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Test Name			Value Un		t	<b>Biological Reference interval</b>
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, 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

\*\*\* End Of Report \*\*\*





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