NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

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PKR JAIN HEALTHCARE INSTITUTE

: Miss. HINA				
GENDER : 25 YRS/FEMALE		ATIENT ID	: 1766068	
:	R	EG. NO./LAB NO.	: 122502220018	
:	R	EGISTRATION DATE	: 22/Feb/2025 10:57 AM	
: 12507175	CO	DLLECTION DATE	: 22/Feb/2025 11:17AM	
: P.K.R JAIN HEALTHCARE INSTITU	TUTE REPORTING DATE		: 22/Feb/2025 01:42PM	
: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARY	ANA		
	Value	Unit	Biological Reference interval	
	ENDOCRI	NOLOGY		
THYRO	DID FUNCTI	ON TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		ng/mL	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		µgm/dL	4.87 - 12.60	
TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	3.192	µIU/mL	0.35 - 5.50	
	: 25 YRS/FEMALE : : : 12507175 : P.K.R JAIN HEALTHCARE INSTITU : NASIRPUR, HISSAR ROAD, AMBAL THYRC IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) FING HORMONE (TSH): SERUM	: 25 YRS/FEMALE P/ : 25 YRS/FEMALE RI : 12507175 CG : P.K.R JAIN HEALTHCARE INSTITUTE RI : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARY Value Value ENDOCRI THYROID FUNCTI IE (T3): SERUM 1.253 ESCENT MICROPARTICLE IMMUNOASSAY) ERUM 10.7 ESCENT MICROPARTICLE IMMUNOASSAY) FING HORMONE (TSH): SERUM 3.192	: 25 YRS/FEMALE PATIENT ID : 25 YRS/FEMALE REG. NO./LAB NO. : REG. NO./LAB NO. : 12507175 COLLECTION DATE : 12507175 COLLECTION DATE : 12507175 REPORTING DATE : 12507175 REPORTING DATE : 12507175 REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit ENDOCRINOLOGY THYROUD FUNCTION TEST: TOTAL IC (T3): SERUM 1.253 ng/mL ESCENT MICROPARTICLE IMMUNOASSAY) ERUM 10.7 µgm/dL ESCENT MICROPARTICLE IMMUNOASSAY) ING HORMONE (TSH): SERUM 3.192 µIU/mL	

day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (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 (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)		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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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

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 ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			

Test Name		Value	Unit		Biological Reference interval	
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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