TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

## **PKR JAIN HEALTHCARE INSTITUTE** NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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

NAME : Mrs. ANU				
AGE/ GENDER : 27 YRS/FEMA	LE	PATIENT	ID :	1731105
COLLECTED BY :		REG. NO./LAB NO. REGISTRATION DAT		122501220009
REFERRED BY :				22/Jan/2025 09:53 AM
<b>BARCODE NO.</b> : 12506624		COLLECTI	ON DATE :	22/Jan/2025 10:05AM
<b>CLIENT CODE.</b> : P.K.R JAIN HE	ALTHCARE INSTITUTE	REPORTI	NG DATE :	22/Jan/2025 12:13PM
<b>CLIENT ADDRESS</b> : NASIRPUR, H	ISSAR ROAD, AMBALA CI	ГҮ - HARYANA		
Test Name	Val	ue	Unit	Biological Reference interval
	Н	AEMATOLO	GY	
	COMPLET	TE BLOOD COU	J <b>NT (CBC)</b>	
RED BLOOD CELLS (RBCS) COUN	T AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC	12	.5	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTR	4.3 ICAL IMPEDENCE	37	Millions/cm	m 3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMA	37 TOLOGY ANALYZER	.7	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		.4 PKR	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by calculated by automated hematology analyzer		.7	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		.2	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		.2	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	19	.77	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		.19	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)				
TOTAL LEUCOCYTE COUNT (TLC) by flow cytometry by SF cube & Mic DIFFERENTIAL LEUCOCYTE COU	CROSCOPY	000 <sup>H</sup>	/cmm	4000 - 11000
NEUTROPHILS	<u>NI (DLC)</u> 71	н	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MIC	CROSCOPY		/0	50 - 70
LYMPHOCYTES	22		%	20 - 40
สรณหมาย		٨		





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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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To a Marca		X7 - 1	¥1	n:1		
Test Name		Value	Unit	<b>Biological Reference interval</b>		
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	%	1 - 6		
MONOCYTES	RY BY SF CUBE & MICROSCOPY	7	%	2 - 12		
	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1		
ABSOLUTE LEUK	<u>OCYTES (WBC) COUNT</u>					
	RY BY SF CUBE & MICROSCOPY	10650 <sup>H</sup>	/cmm	2000 - 7500		
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		3300 <sup>L</sup>	/cmm	800 - 4900		
ABSOLUTE EOSIN	OPHIL COUNT RY BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	/cmm	40 - 440		
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		1050 <sup>H</sup>	/cmm	80 - 880		
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	/cmm	0 - 110		
PLATELETS AND	OTHER PLATELET PREDICTIVE	MARKERS.				
PLATELET COUNT by HYDRO DYNAMIC	' (PLT) FOCUSING, ELECTRICAL IMPEDENCE	200000	/cmm	150000 - 450000		
PLATELETCRIT (P by HYDRO DYNAMIC	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36		
MEAN PLATELET V by HYDRO DYNAMIC	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	13 <sup>H</sup>	fL	6.50 - 12.0		
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	99000 <sup>H</sup>	/cmm	30000 - 90000		
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	49.6 <sup>H</sup>	%	11.0 - 45.0		
by HYDRO DYNAMIC	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.3	%	15.0 - 17.0		
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD					



NAME

: Mrs. ANU

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Test Name		Value	Unit	<b>Biological Reference interval</b>	
		ENDOCR	INOLOGY		
	THYRO	DID FUNCTI	ION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY)	1.34	ng/mL	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		8.92	µgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN	ATING HORMONE (TSH): SERUM	0.93	µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	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 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	





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Test Name		Value U		nit Biole		<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		
	RECOM	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, 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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