



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)	(Pathology) Pathologist	
NAME	: Mrs. SUMAN DEVI			
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1575453
COLLECTED BY	:		REG. NO./LAB NO.	: 012408090026
REFERRED BY	:		REGISTRATION DATE	: 09/Aug/2024 11:16 AM
BARCODE NO.	: 01514774		COLLECTION DATE	:09/Aug/2024 11:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Aug/2024 11:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEM	ATOLOGY	
	COM	API FTF BI C	OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		6.2 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL (RB	C) COUNT	4.28	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM	IE (PCV)	23.2 ^L	%	37.0 - 50.0
by CALCULATED BY A MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	54.1 ^L	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	R HAEMOGLOBIN (MCH)	14.4 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	26.6 ^L	g/dL	32.0 - 36.0
	NUTOMATED HEMATOLOGY ANALYZER	20.3 ^H	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			11.00 - 10.00
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	40.9	fL	35.0 - 56.0
MENTZERS INDEX		12.64	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	25.51	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	S (WBCS)			IKON DEI IGIENGT ANEIVIA. > 05.0
TOTAL LEUCOCYTE C		7990	/cmm	4000 - 11000
	Y BY SF CUBE & MICROSCOPY	1770	/ drift	
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) UTOMATED HEMATOLOGY ANALYZER &	NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZER</i> &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	62	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^H	%	0 - 1
IMMATURE GRANULOCTE (IG) % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 5.0
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4954	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2237	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	160	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	639	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIVE MARKEI	<u> 25.</u>		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	344000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.32	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	99000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	31.2	%	11.0 - 45.0





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Test Name		Value	Unit	Biological Reference interval
	TION WIDTH (PDW)	15.2	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED

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349/1, NICHOLSON ROAD, AMBAI	LA CANTT		
I I I I I I I I I I I I I I I I I I I	Value	Unit	Biological Reference interval
	ENDOCRI	NOLOGY	
THYRC	DID FUNCTI	ON TEST: TOTAL	
,	0.975	ng/mL	0.35 - 1.93
	8.14	μgm/dL	4.87 - 12.60
HORMONE (TSH): SERUM	4.102	µIU/mL	0.35 - 5.50
	THYRC): SERUM ENT MICROPARTICLE IMMUNOASSAY) ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM ENT MICROPARTICLE IMMUNOASSAY) ENSITIVE	11514774 CC COS DIAGNOSTIC LAB RI 3349/1, NICHOLSON ROAD, AMBALA CANTT Value Value ENDOCRI THYROID FUNCTI): SERUM 0.975 ENT MICROPARTICLE IMMUNOASSAY) I 8.14 ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM 4.102 ENT MICROPARTICLE IMMUNOASSAY) ENSITIVE	AGOS DIAGNOSTIC LAB REPORTING DATE 3349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL): SERUM 0.975 ng/mL ENT MICROPARTICLE IMMUNOASSAY) 1 8.14 µgm/dL ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM 4.102 µIU/mL

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)		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	:	Biological 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	
	RECO	VIMENDATIONS OF TSH L	EVELS 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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