



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Miss. MUSKAN			
AGE/ GENDER	: 22 YRS/FEMALE	1	PATIENT ID	: 1541584
COLLECTED BY	:]	REG. NO./LAB NO.	: 012407080017
REFERRED BY	:]	REGISTRATION DATE	: 08/Jul/2024 08:49 AM
BARCODE NO.	: 01512725		COLLECTION DATE	:08/Jul/202408:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	1	REPORTING DATE	: 08/Jul/2024 09:27AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAFMA	ATOLOGY	
	CON		OD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		12.9	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL (RE	3C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.16	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV)		39.8	%	37.0 - 50.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)		95.6	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		i L	
	R HAEMOGLOBIN (MCH)	30.9	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	32.3	g/dL	32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER ION WIDTH (RDW-CV)	14.3	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER	14.3	70	11.00 - 18.00
	TON WIDTH (RDW-SD)	51.1	fL	35.0 - 56.0
MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	22.98	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	32.75	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCOLATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE C		8410	/cmm	4000 - 11000
by FLOW CYTOMETRY NUCLEATED RED BLO	Y BY SF CUBE & MICROSCOPY	NIL		0.00 - 20.00
	UTOMATED HEMATOLOGY ANALYZER &			0.00 - 20.00
	DOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A MICROSCOPY	UTOMATED HEMATOLOGY ANALYZER &			



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

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	51	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4289	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2859	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	757 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	505 RS.	/cmm	80 - 880
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	378000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.37 ^H	%	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	86000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	22.7	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.5	%	15.0 - 17.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY	ROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINE		1.321	ng/mL	0.35 - 1.93
THYROXINE (T4): SER	ESCENT MICROPARTICLE IMMUNOASSA RUM ESCENT MICROPARTICLE IMMUNOASSA	8.44	µgm/dL	4.87 - 12.60
	NG HORMONE (TSH): SERUM escent microparticle immunoassa rasensitive	3.722 Y)	μlU/mL	0.35 - 5.50

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
 Increased (Significantly)

 Subclinical Hypothyroidism:
 Normal or Low Normal
 High

CLINICAL CONDITION	13	14	130
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.

TRIIODOTH	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	Valu	e Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference interva
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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	SNANCY (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



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		nsultant Pathologist CEC) & Consultant	t Pathologist
NAME	: Miss. MUSKAN		_	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	Л	MUNOPATHOLOGY/S	EROLOGY	
		C-REACTIVE PROTEIN	(CRP)	
SERUM by NEPHLOMETRY	N (CRP) QUANTITATIVE:	2.76	mg/L	0.0 - 6.0
 CRP levels can incr proliferation. CRP levels (Quanti rejection, and to mor 4. As compared to ES and the recovery being 	tative) has been used to assess hitor these inflammatory proces R, CRP shows an earlier rise in i	more) after severe trauma, bac activity of inflammatory disease ses. nflammatory disorders which b CRP levels are not influenced by	terial infectio e, to detect in egins in 4-6 h	n, inflammation, surgery, or neoplastic fections after surgery, to detect transplant rs, the intensity of the rise being higher than E conditions like Anemia, Polycythemia etc.,

NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history. 2. Oral contraceptives may increase CRP levels.

*** End Of Report ***





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