



	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. REENA			
AGE/ GENDER	: 36 YRS/FEMALE	1	PATIENT ID	: 1547456
COLLECTED BY	:	1	REG. NO./LAB NO.	: 012407130014
REFERRED BY	:	1	REGISTRATION DATE	: 13/Jul/2024 08:39 AM
BARCODE NO.	:01513026		COLLECTION DATE	: 13/Jul/2024 08:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Jul/2024 09:04AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMA	TOLOGY	
	C		OD COUNT (CBC)	
RED BLOOD CELLS (I	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		5.8 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RI	BC) COUNT	3.27 ^L	Millions/o	mm 3.50 - 5.00
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN by CALCULATED BY	NE (PUV) AUTOMATED HEMATOLOGY ANALYZEI	21.5 ^L R	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV) automated hematology analyzei	66.9 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	18.2 ^L	pg	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZE IR HEMOGLOBIN CONC. (MCHC)	<i>к</i> 27.1 ^L	g/dL	32.0 - 36.0
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZE	R	-	
	FION WIDTH (RDW-CV) automated hematology analyzei	21.1 ^H R	%	11.00 - 16.00
	TON WIDTH (RDW-SD)	51.9	fL	35.0 - 56.0
MENTZERS INDEX	OT OWATED TIEWATOLOGT AWALYZER	20.46	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	44.29	RATIO	BETA THALASSEMIA TRAIT: < = 65.0
by CALCOLATED				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE C		6650	/cmm	4000 - 11000
by FLOW CYTOMETR	y by sf cube & microscopy DOD CELLS (nRBCS)	NIL		0.00 - 20.00
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZEF			0.00 20.00
MICROSCOPY	DOD CELLS (nRBCS) %	NIL	%	< 10 %
	AUTOMATED HEMATOLOGY ANALYZEF			

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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

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NEUTROPHILS		53	%	50 - 70
by FLOW CYTOMETR LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	20	0/	20, 40
	Y BY SF CUBE & MICROSCOPY	39	%	20 - 40
EOSINOPHILS		2	%	1 - 6
	Y BY SF CUBE & MICROSCOPY			
MONOCYTES		6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0-1
ABSOLUTE LEUKOCY	TES (WBC) COUNT			
ABSOLUTE NEUTRO	PHIL COUNT	3525	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHO		2594	/cmm	800 - 4900
ABSOLUTE EOSINOP	Y BY SF CUBE & MICROSCOPY HIL COUNT	133	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	100	/ chini	10 110
ABSOLUTE MONOCY		399	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY			
	HER PLATELET PREDICTIVE MARKE	_		
PLATELET COUNT (P	LT) FOCUSING, ELECTRICAL IMPEDENCE	290000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.3	%	0.10 - 0.36
,	OCUSING, ELECTRICAL IMPEDENCE	0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.10 0.00
MEAN PLATELET VO		12	fL	6.50 - 12.0
by HYDRO DYNAMIC I	FOCUSING, ELECTRICAL IMPEDENCE	40/000	lomm	20000 00000
	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	106000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE	LL RATIO (P-LCR)	41	%	11.0 - 45.0
		15.0	0/	15.0.17.0
PLATELET DISTRIBU	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.8	%	15.0 - 17.0
ADVICE		KINDLY CORRELA	TE CLINICALLY	

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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Test Name	Value	Unit	Biological Reference interval



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	10349/1, MCHOLSON KOAD,	AMBALA CANTI		
Test Name	. 0343/ 1, NICHOLSON ROAD,		Unit	Biological Reference interval
		Value	BIOCHEMISTRY	

3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval
		SGOT/SGPT I	PROFILE	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	27.39	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	27.78	U/L	0.00 - 49.00
SGOT/SGPT RATIO by CALCULATED, SPE INTERPRETATION	ECTROPHOTOMETRY	0.99		

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:-

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)

DECREASED:-

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:-

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6





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		ENDOCRIN	OLOGY	
L		ENDOCRIN THYROID FUNCTIO		
		THYROID FUNCTIO		0.35 - 1.93
<i>by CMIA (CHEMILUMII</i> THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNC	THYROID FUNCTIO 1.114 (ASSAY) 8.01	N TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUMII THYROID STIMULAT	NESCENT MICROPARTICLE IMMUNC RUM NESCENT MICROPARTICLE IMMUNC TING HORMONE (TSH): SERUN NESCENT MICROPARTICLE IMMUNC	THYROID FUNCTIO 1.114 8.01 MASSAY) 5.427	N TEST: TOTAL ng/mL	

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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 levies 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	Ur	hit 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)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50		
RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL)					
1st Trimester			0.10 - 2.50		
2nd Trimester					
		0.30 - 4.10			
	MMENDATIONS OF TSH LE	MMENDATIONS OF TSH LEVELS DURING PREGN	MMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 0.10 - 2.50 0.20 - 3.00		

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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