



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)	Dr. Yugam (MD (Pa CEO & Consultant Pa	athology)
NAME	: Mrs. USHA GARG			
AGE/ GENDER	: 74 YRS/FEMALE	PA	TIENT ID	: 1648856
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	:012410210043
REFERRED BY	:	RE	GISTRATION DATE	: 21/Oct/2024 10:51 AM
BARCODE NO.	: 01519289		DLLECTION DATE	: 21/Oct/2024 10:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 21/Oct/2024 11:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	3ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMAT	OLOGY	
	CON	MPLETE BLOO	D COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.2	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RB		4.93	Millions/cm	m 3.50 - 5.00
	OCUSING, ELECTRICAL IMPEDENCE	4.73		11 3.50 - 5.00
PACKED CELL VOLUM	E (PCV) JTOMATED HEMATOLOGY ANALYZER	39	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	79.1 ^L	fL	80.0 - 100.0
-	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)		50	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	24.7 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV)	14.3	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER ON WIDTH (RDW-SD)	42.3	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	72.3		
MENTZERS INDEX		16.04	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDEX	X	22.9	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED			in the	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CO		6790	/cmm	4000 - 11000
NUCLEATED RED BLO	BY SF CUBE & MICROSCOPY IOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAR	T HEMATOLOGY ANALYZER		A	
NUCLEATED RED BLO by CALCULATED BY AU	OD CELLS (nRBCS) % JTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCO				
NEUTROPHILS		61	%	50 - 70
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			





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

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 care@koshealthcare.com

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LYMPHOCYTES		27	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	5	%	1 - 6
	RY BY SF CUBE & MICROSCOPY	5	70	1-0
MONOCYTES		7	%	2 - 12
by FLOW CYTOMETH BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
,	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO	OPHIL COUNT	4142	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHO		1833	/cmm	800 - 4900
ABSOLUTE EOSINO	RY BY SF CUBE & MICROSCOPY PHIL COLINT	340	/cmm	40 - 440
	RY BY SF CUBE & MICROSCOPY	340	7 CITIITI	
ABSOLUTE MONOC		475	/cmm	80 - 880
by FLOW CYTOMETI ABSOLUTE BASOPH	RY BY SF CUBE & MICROSCOPY	0	lamm	0 - 110
	11L COUNT RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OT	THER PLATELET PREDICTIVE MARKE	<u>RS.</u>		
PLATELET COUNT (342000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT) C FOCUSING, ELECTRICAL IMPEDENCE	0.4 ^H	%	0.10 - 0.36
MEAN PLATELET V		12	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CI	ELL COUNT (P-LCC) C FOCUSING, ELECTRICAL IMPEDENCE	129000 ^H	/cmm	30000 - 90000
PLATELET LARGE C	ELL RATIO (P-LCR)	37.8	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	1		45.0.47.0
	JTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16	%	15.0 - 17.0
	UCTED ON EDTA WHOLE BLOOD			



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Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	OCYTE SEDIMENTATIO	N RATE (ESR)	
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	48 ^H	mm/1st hr	0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigr	does not tell the health practitioner cted by other conditions besides infl be used to monitor disease activity a ematosus W ESR In with conditions that inhibit the no	exactly where the inflamr ammation. For this reason and response to therapy in rmal sedimentation of red	nation is in the bo n, the ESR is typica n both of the abov I blood cells, such	ally used in conjunction with other test such we diseases as well as some others, such as

NOTE:

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

 ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while service contract of each of the start of t aspirin, cortisone, and quinine may decrease it





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	9, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	NICAL CHEMISTRY	BIOCHEMISTRY	1
		CREATIN	NE	
CREATININE: SERUM		0.62	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC	TROPHOTOMETRY			
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		(he -		
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理》(1944年)	U. C.			
	DR.VINAY CHOPRA	DR.YUGAM CH		
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OS Central Lab: 6349/1	, Nicholson Road, Ambala Cantt - I 3	3 001, Haryana		







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		Value	1114	
Test Name THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY)	TH ING HORMONE (TSH): SERU NESCENT MICROPARTICLE	ENDOCRII IYROID STIMULATIN		Biological Reference interval
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Brd GENERATION, ULT	ING HORMONE (TSH): SERU nescent microparticle rasensitive	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	ING HORMONE (TSH): SERU Nescent microparticle Rasensitive AGE	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) µIU/mL REFFERENCE RANGE (µ	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) µIU/mL REFFERENCE RANGE (µ 0.70 – 15.20	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) rd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) µIU/mL REFFERENCE RANGE (µ 0.70 – 15.20 0.70 – 11.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Brd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Brd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Brd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (μ</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15	ENDOCRII IYROID STIMULATIN	NOLOGY IG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI MMUNOASSAY) Frd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	ENDOCRIN HYROID STIMULATIN M 0.132 ^L	NOLOGY IG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.27 – 5.50	0.35 - 5.50
THYROID STIMULAT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ENDOCRIN HYROID STIMULATIN M 0.132 ^L	NOLOGY IG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	0.35 - 5.50

or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS**:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED 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.



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7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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IMUNOPATHOLOGY/SEROLOGY	Biological Reference interval
C-REACTIVE PROTEIN (CRP)	
0.87 mg/L e acute-phase reactants for inflammation.	0.0 - 6.0
nore) after severe trauma, bacterial infectio	on, inflammation, surgery, or neoplastic
	0.87 mg/L

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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