NAME	: Miss. SALONI			
AGE/ GENDER	: 22 YRS/FEMALE		PATIENT ID	: 1826653
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<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 11/Apr/2025 11:00 AM
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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		<b>REPORTING DATE</b>	: 11/Apr/2025 01:49PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA (	CITY - HA	ARYANA	
Test Name	V	alue	Unit	<b>Biological Reference interval</b>
	H	IAEM	ATOLOGY	
	COMPLE	TE BL	LOOD COUNT (CBC)	
RED BLOOD CEL	LS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	IB)	9.6 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL	L (RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	3.49 <sup>L</sup>	Millions/	2cmm 3.50 - 5.00
PACKED CELL VO	LUME (PCV) AUTOMATED HEMATOLOGY ANALYZER	28.3 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCU	LAR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	80.9	fL	80.0 - 100.0
MEAN CORPUSCU	LAR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	27.5	pg	27.0 - 34.0
MEAN CORPUSCU	ILAR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	34.1	g/dL	32.0 - 36.0
RED CELL DISTRI	BUTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	15.2	%	11.00 - 16.00
RED CELL DISTRI	BUTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	48.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		23.18	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN by CALCULATED	NDEX	103.63	8 RATIO	BETA THALASSEMIA TRAIT: <= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD C				
	Y BY SF CUBE & MICROSCOPY	12830 <sup>1</sup>	H /cmm	4000 - 11000
DIFFERENTIAL L	EUCOCYTE COUNT (DLC)			



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Test Name		Value	Unit	<b>Biological Reference interval</b>
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	77 <sup>H</sup>	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	16 <sup>L</sup>	%	20 - 40
-	Y BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	%	1 - 6
-	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
-	Y BY SF CUBE & MICROSCOPY OCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTH	ROPHIL COUNT y by sf cube & microscopy	9879 <sup>H</sup>	/cmm	2000 - 7500
ABSOLUTE LYMPI	HOCYTE COUNT y by sf cube & microscopy	2053 <sup>L</sup>	/cmm	800 - 4900
ABSOLUTE EOSIN by FLOW CYTOMETR	OPHIL COUNT y by sf cube & microscopy	0 <sup>L</sup>	/cmm	40 - 440
ABSOLUTE MONO	CYTE COUNT y by sf cube & microscopy	898 <sup>H</sup>	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTIV	<u>E MARKERS.</u>		
PLATELET COUN	Γ (PLT) FOCUSING, ELECTRICAL IMPEDENCE	389000	/cmm	150000 - 450000
•	OCUSING, ELECTRICAL IMPEDENCE	0.38 <sup>H</sup>	%	0.10 - 0.36
•	OCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
by HYDRO DYNAMIC F	E CELL COUNT (P-LCC) Focusing, electrical impedence	103000 <sup>H</sup>	/cmm	30000 - 90000
by HYDRO DYNAMIC F	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	26.5	%	11.0 - 45.0
by HYDRO DYNAMIC F	IBUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0



NAME

: Miss. SALONI

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Test Name	Value	Unit	<b>Biological Reference interval</b>



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**ERYTHROCYTE SEDIMENTATION RATE (ESR)** 

Unit

THROCYTE SEDIMENTATION RATE (ESR)	88 <sup>H</sup>	mm/1st hr
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## **INTERPRETATION:**

1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

as C-reactive protein

systemic lupus erythematosus CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

Value

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

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.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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**Biological Reference interval** 

0 - 20

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

ERY

Test Name

by RED CELL AGGREGATION BY CAPILLARY PHOTOMETRY

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as

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Test Name

alue
alue

# ENDOCRINOLOGY

Unit

 $\mu IU/mL$ 

## THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM	1.67

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

### **3rd GENERATION, ULTRASENSITIVE** INTERPRETATION:

AGE	REFFERENCE RANGE (µIU/mL)
0 – 5 DAYS	0.70 - 15.20
6 Days – 2 Months	0.70 - 11.00
3 – 11 Months	0.70 - 8.40
1 – 5 Years	0.70 - 7.00
6 – 10 Years	0.60 - 5.50
11 - 15	0.50 – 5.50
> 20 Years (Adults)	0.27 – 5.50
PRE	GNANCY
1st Trimester	0.10 - 3.00
2nd Trimester	0.20 - 3.00
3rd Trimester	0.30 - 4.10

NOTE:-TSH levels are subjected to circardian 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 concentration.

USE:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early 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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**Biological Reference interval** 

0.35 - 5.50

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Unit

Test Name

Value

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.

\*\*\* End Of Report \*\*\*



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**Biological Reference interval**