Barcode No	**13895981**	Lab No	00012508101353
Patient Name	**Mr.SAAD**	Reg Date	10/Aug/2025 02:47PM
Age/Sex	15 YRS/Male	Sample Coll. Date	10/Aug/2025 01:55 PM
Refered By	DR. SUDHIR JAIN	Sample Rec.Date	10/Aug/2025 02:50 PM
Client Code/Name	AP010003 A.S.P.C.		
Ref. Lab/Hosp		Report Date	10/Aug/2025 03:14PM
Panel Address	WASIM SAIFI (9654617487)		

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HAEMATOLOGY

Test Name With Methodology	Result	Unit	Biological Ref.Interval
Complete Blood Count (CBC EXT)			
Haemoglobin Whole Blood EDTA, Cyanide free	**12.7**	gm/dl	13.0-17.0
TLC (Total Leucocyte Count) /(WBC) Whole Blood EDTA, Flow Cytometry	5.51	th/cumm	4.0-10.0
DIFFERENTIAL LEUCOCYTE COUNT			
Polymorphs Whole Blood EDTA Flowcytometry	58.3	%	40-80
Lymphocytes Flowcytometry	34.7	%	20-40
Eosinophils Flowcytometry	2.1	%	1-6
Monocytes Whole Blood EDTA Flowcytometry	4.6	%	2-10
Basophils Whole Blood EDTA Flowcytometry	0.3	%	0-1
Absolute Neutrophil Count Whole Blood EDTA, Flowcytometry	3,212	/cumm	2000-7000
Absolute Lymphocyte Count. Whole Blood EDTA, Flowcytometry	1,912	/µL	1000.0 - 3000.0
Absolute Eosinophil Count Whole Blood EDTA, Flowcytometry	116	/cumm	20-500
Absolute Monocyte Count Whole Blood EDTA, Flowcytometry	253	/cumm	20-1000
Absolute Basophils Count Whole Blood EDTA, Flowcytometry	**17**	/cumm	20-100
RBC Whole Blood EDTA, Impedance	**4.24**	millions/cmm	4.5-5.5
HCT Whole Blood EDTA, Calculated	**37.8**	%	40-50
MCV Whole Blood EDTA, Calculated	89.15	fl	83-101
MCH	29.95	pg	27-32

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(Consultant Pathologist)

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Whole Blood EDTA, Calculated			
MCHC	33.6	g/dl	31.5-34.5
Whole Blood EDTA, Calculated			
Platelet Count	**130**	thou/µL	150-410
Whole Blood EDTA, Impedance			
MPV	**12.8**	fl	7.4-10.4
Calculated			
RDW- CV	**19.5**	%	11.6-14.0
CALCULATED			
Whole Blood EDTA, Flowcytometry			
RDW- SD	**61.7**	fl	35-56
CALCULATED			
Whole Blood EDTA, Flowcytometry			
PCT	0.150	%	0.10-0.28
Whole Blood EDTA, Flow Cytometry			
PDW	16.9	fl	9.0-17.0
CALCULATED			
Whole Blood EDTA, Calculated			
Mentzer Index	21.03	Ratio	
Calculated			
RDWI	410.01		
Microscopic			
Green and King	122.03		
Microscopic			
Neutrophil - Lymphocyte Ratio (NLR)	1.68	Ratio	
Calculated			
Lymphocyte - Monocyte Ratio (LMR)	7.54	Ratio	
Calculated			
Platelet - Lymphocyte Ratio (PLR)	67.99	Ratio	
Calculated			
ESR [Westergren]	**32**	mm/ 1 hr	0 -15
Modified Westergren			

Kindly correlate clinically. Advise for recheck from fresh sample in case, it is not correlation clinically, to rule out any pre-analytical error.

Referrance range according to Practical Haematology, Dacie & Lewis, 12th edition, 2012.

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Client Code/Name	AP010003 A.S.P.C.		
Ref. Lab/Hosp		Report Date	10/Aug/2025 03:59PM
Panel Address	WASIM SAIFI (9654617487)		

Test Name With Methodology	Result	Unit	Biological Ref.Interval

.IMMUNO BIOCHEMISTRY-1

Glucose Fasting (Blood Glucose Fasting)

Blood Sugar Fasting Plasma Fluoride, Hexokinase	88	mg/dL	70-100

COMMENTS:
Fasting Blood Sugar/Glucose test. A blood sample will be taken after an overnight fast. A fasting blood sugar level less than 100 mg/dL is normal. A fasting blood sugar level from 100 to 125 mg/dL is considered prediabetes. If it's 126 mg/dL or higher on two separate tests, you have diabetes. (***American Diabetes Association***)

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Client Code/Name	AP010003 A.S.P.C.		
Ref. Lab/Hosp		Report Date	10/Aug/2025 04:23PM
Panel Address	WASIM SAIFI (9654617487)		

Test Name With Methodology	Result	Unit	Biological Ref.Interval
KIDNEY FUNCTION TEST			
Blood Urea Serum, Urease, GLDH	**10.60**	mg/dL	18-45.0
Serum Creatinine. Serum, Jaffes	**0.51**	mg/dL	0.7-1.2
Uric Acid Enzymatic colorimetry	**7.09**	mg/dL	3.4 - 7.0
Sodium Serum, Ion Selective Electrode	138.00	mmol/L	136-145
Potassium Serum, Ion Selective Electrode	4.36	mmol/L	3.7-5.5
Chloride Serum, Ion Selective Electrode	101.20	mmol/L	98-107
Calcium. Serum, NM-BAPTA	9.37	mg/dL	8.4-10.2
PO4 Serum, Molybdate UV	3.71	mg/dL	2.5-4.5
BUN (Blood Urea Nitrogen) Serum, Calculated	**4.95**	mg/dL	6.0-18.0
BUN/Creatinine Ratio Calculated	**9.71**	Ratio	10-20
Urea/Creatinine Ratio Calculated	20.78	Ratio	
eGFR	233.85		
eGFR (estimated Glomerular Filtration Rate) Calculated	233.85	mL/min/1.73 m2	>60

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Test Name With Methodology	Result	Unit	Biological Ref.Interval
Lipid Profile			
Cholesterol Serum, CHOD-PAP Enzymatic	134.0	mg/dL	<200
Triglyceride Serum, GPO, Colorimetric	109.0	mg/dL	<150
HDL-Cholesterol Serum, Homogeneous Enz.Colorimetric	43.3	mg/dL	40-60
LDL Cholesterol Serum, Calculated	68.9	mg/dl	0-100
VLDL Cholesterol Serum, Calculated	21.8	mg/dl	5 - 40
LDL / HDL Ratio Serum, Calculated	1.59	Ratio	0 - 3.55
HDL / LDL Ratio Serum, Calculated	0.63	Ratio	>0.3
Chol / HDL Ratio Serum, Calculated	3.09	Ratio	0 - 4.97
Non-HDL Cholesterol Serum, Calculated	90.7	mg/dl	<130

Lipids are a group of fats and fat-like substances that are important constituents of cells and sources of energy. The lipid profile is used as part of a cardiac risk assessment to help determine an individual's risk of heart disease. It is recommended that healthy adults with no other risk factors for heart disease be tested with a fasting lipid profile once every four to six years. If other risk factors are present or if previous testing revealed a high cholesterol level in the past, more frequent testing is recommended.

TOTAL CHOLESTEROL	(mg/dl)	HDL	(mg/dl)	LDL	(mg/dl)	TRIGLYCERIDES	(mg/dl)
DESIRABLE	<200	LOW	<40	OPTIMAL	<100	NORMAL	<150
BORDERLINE HIGH	200-239	HIGH	>60	NEAR OPTIMAL	100-129	BORDERLINE HIGH	150-199
HIGH	>240			BORDERLINE HIGH	130-159	HIGH	200-499
				HIGH	160-189	VERY HIGH	>500
				VERY HIGH	>190		

*REFERENCE RANGES AS PER NCEP ATP III GUIDELINES

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Test Name With Methodology	Result	Unit	Biological Ref.Interval
Liver F. Test			
Total Bilirubin. Serum, DCA	0.61	mg/dl	0.0-1.2
Conjugated Bilirubin Serum, DCA	**0.35**	mg/dl	0.0-0.3
UNCONJUGATED BILIRUBIN Serum, Calculated	0.26	mg/dL	0.2-0.7
SGOT (AST) Serum, Optimized UV test with IFCC	24.20	IU/L	0 -40
SGPT (ALT) Serum, Optimized UV test with IFCC	21.70	IU/L	0-41
Alk.Phosphatase Serum, Kinetic, IFCC	152.00	IU/L	116-468
T.Protein Serum, Biuret	7.75	gm/dl	6.4-8.3
Albumin.. Serum, Bromocresol Green	4.40	gm/dL	3.5-5.2
Globulin Calculated	3.35	gm/ dL	2.3 - 3.6
A/G Ratio Serum, Calculated	1.31	Ratio	1.30 - 1.70
GGT Serum, Kinetic with IFCC	11.90	IU/L	<60
SGOT/SGPT Ratio Serum, Calculated	1.12	Ratio	0-5

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MC-2097

Barcode No	**13895981**	Lab No	00012508101353
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Age/Sex	15 YRS/Male	Sample Coll. Date	10/Aug/2025 01:55 PM
Refered By	DR. SUDHIR JAIN	Sample Rec.Date	10/Aug/2025 02:50 PM
Client Code/Name	AP010003 A.S.P.C.		
Ref. Lab/Hosp		Report Date	10/Aug/2025 06:50PM
Panel Address	WASIM SAIFI (9654617487)		

Test Name With Methodology	Result	Unit	Biological Ref.Interval
Thyroid Profile-I [T3,T4,TSH]			
T3 (Triiodothyronine) Serum, Chemi Luminescent Immuno Assay	121.0	ng/dl	91-218
T4 (Thyroxine) Serum, Chemi Luminescent Immuno Assay	**5.04**	ug/dl	5.91-13.2
TSH (Ultrasensitive) Serum, Electro Chemi Luminescent Immuno Assay	2.420	uIU/mL	0.51-6.50

Note: Rechecked Value

Comments:

- Our reference range applies the central 95th interval (2.5th – 97.5th quantile) according to the CLSI/IFCC guidelines EP28-A3c.
- A circadian variation in serum TSH in healthy subjects is well documented. TSH level is reaching peak levels between 2-4 am 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 value of TSH.
- TSH levels between 6.3 and 15.0 may represent subclinical or compensated hypothyroidism or show considerable physiological & seasonal variation, suggest clinical correlation or repeat testing with fresh sample.
- TSH levels may be transiently altered because of non-thyroid illness, like severe infection, renal disease, liver disease, heart disease, severe burns, trauma, surgery etc. Few drugs also altered the TSH values.
- A high TSH result often means an underactive thyroid gland caused by failure of the gland (hypothyroidism). A low TSH result can indicate an overactive thyroid gland (hyperthyroidism) or damage to the pituitary gland that prevents it from producing TSH.
- Resistance to thyroid hormone (RTH) and central hyperthyroidism (TSH-oma) are rare conditions associated with elevated TSH, T4 and T3 levels.

Below mentioned are the guidelines for age reference ranges for T3,T4 and TSH results:

Age	Total T3 (ng/dl)	Total T4 (µg/dl)	TSH (µlU/ml)
1 - 6 days	73 - 288	5.04 - 18.5	0.7 - 15.0
6 days - 3 months	80 - 275	5.41 - 17.0	0.72 - 11.0
4 - 12 months	86 - 265	5.67 - 16.0	0.73 - 8.35
1 - 6 years	92 - 248	5.95 - 14.7	0.70 - 5.97
7 - 11 years	93 - 231	5.99 - 13.8	0.60 - 5.84
12 - 20 years	91 - 218	5.91 - 13.2	0.51 - 6.50
>20 years	80 - 200	5.10 - 14.1	0.13 - 6.33

TSH Level in pregnancy

First Trimester	0.10 – 2.5 µlU/ml
Second Trimester	0.20 – 3.0 µlU/ml
Third Trimester	0.30 – 3.0 µlU

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MC-2097

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- In case of insufficient quantity or poor quality of specimen test will not be performed. In such cases it is expected that fresh specimen is sent for reporting of the same parameter.
- There may be circumstances beyond our control that can delay results, e.g., invalid assay run.
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- The report is to be interpreted and used by medical personnel only.
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