

PROCESSED AT :
Thyrocare



Corporate office : Thyrocare Technologies Limited, D-37/3, TTC MIDC, Turbhe, Navi Mumbai - 400 703
☎ 022 - 3090 0000 / 6712 3400 ☎ 9870666333 ✉ wellness@thyrocare.com 🌐 www.thyrocare.com

REPORT

NAME : XXXXXXXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXXXXXXX
TEST ASKED : HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
HbA1c - (HPLC - NGSP Certified)	H.P.L.C	7.2	%

Reference Range :

Reference Range: As per ADA Guidelines	Guidance For Known Diabetics
Below 5.7% : Normal 5.7% - 6.4% : Prediabetic >=6.5% : Diabetic	Below 6.5% : Good Control 6.5% - 7% : Fair Control 7.0% - 8% : Unsatisfactory Control >8% : Poor Control

Method : Fully Automated H.P.L.C method

AVERAGE BLOOD GLUCOSE (ABG)	CALCULATED	160	mg/dL
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Reference Range :

90 - 120 mg/dl : Good Control 121 - 150 mg/dl : Fair Control 151 - 180 mg/dl : Unsatisfactory Control > 180 mg/dl : Poor Control

Method : Derived from HBA1c values

Please correlate with clinical conditions.

Sample Collected on (SCT) : Sample collection time
Sample Received on (SRT) : Sample receiving time at Lab
Report Released on (RRT) : Report release time
Sample Type : EDTA
Labcode :
Barcode :

Doctor 1 Sign Doctor 2 Sign

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TEST NAME	VALUE	UNITS	REFERENCE RANGE
TOTAL LEUCOCYTES COUNT (WBC)	11.87	X 10³ / μL	4.0 - 10.0
NEUTROPHILS	73.4	%	40-80
LYMPHOCYTE PERCENTAGE	21.1	%	20-40
MONOCYTES	3	%	2-10
EOSINOPHILS	1.8	%	1-6
BASOPHILS	0.4	%	0-2
IMMATURE GRANULOCYTE PERCENTAGE(IG%)	0.3	%	0.0-0.4
NEUTROPHILS - ABSOLUTE COUNT	8.71	X 10³ / μL	2.0-7.0
LYMPHOCYTES - ABSOLUTE COUNT	2.5	X 10 ³ / μL	1.0-3.0
MONOCYTES - ABSOLUTE COUNT	0.36	X 10 ³ / μL	0.2 - 1.0
BASOPHILS - ABSOLUTE COUNT	0.05	X 10 ³ / μL	0.02 - 0.1
EOSINOPHILS - ABSOLUTE COUNT	0.21	X 10 ³ / μL	0.02 - 0.5
IMMATURE GRANULOCYTES(IG)	0.04	X 10 ³ / μL	0.0-0.3
TOTAL RBC	4.83	X 10⁶/μL	3.8-4.8
NUCLEATED RED BLOOD CELLS	0.01	X 10 ³ / μL	<0.01
NUCLEATED RED BLOOD CELLS %	0.01	%	<0.01
HEMOGLOBIN	12.9	g/dL	12.0-15.0
HEMATOCRIT(PCV)	45.4	%	36.0-46.0
MEAN CORPUSCULAR VOLUME(MCV)	94	fL	83.0-101.0
MEAN CORPUSCULAR HEMOGLOBIN(MCH)	26.7	pq	27.0-32.0
MEAN CORP.HEMO.CONC(MCHC)	28.4	g/dL	31.5-34.5
RED CELL DISTRIBUTION WIDTH - SD(RDW-SD)	52.7	fL	39.0-46.0
RED CELL DISTRIBUTION WIDTH (RDW-CV)	15.2	%	11.6-14.0
PLATELET DISTRIBUTION WIDTH(PDW)	11.7	fL	9.6-15.2
MEAN PLATELET VOLUME(MPV)	10.6	fL	6.5-12
PLATELET COUNT	345	X 10 ³ / μL	150-410
PLATELET TO LARGE CELL RATIO(PLCR)	28.4	%	19.7-42.4
PLATELETCRIT(PCT)	0.37	%	0.19-0.39

Remarks : Alert!!! RBCs:Mild anisopoikilocytosis. Predominantly normocytic normochromic with ovalocytes. Platelets:Appear adequate in smear.

Please Correlate with clinical conditions.

Method : Fully automated bidirectional analyser (6 Part Differential SYSMEX XN-1000)

(This device performs hematology analyses according to the Hydrodynamic Focussing (DC method), Flow Cytometry Method (using a semiconductor laser), and SLS- hemoglobin method)

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NAME : XXXXXXXXXXXXXXXXXXXXXXXX
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TEST ASKED : AAROGYAM C WITH UTSH

SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
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25-OH VITAMIN D (TOTAL) E.C.L.I.A 20.3 ng/mL

Reference Range :
Deficiency : <=20 ng/ml || Insufficiency : 21-29 ng/ml
Sufficiency : >= 30 ng/ml || Toxicity : >100 ng/ml

Clinical Significance:
Vitamin D is a fat soluble vitamin that has been known to help the body absorb and retain calcium and phosphorous; both are critical for building bone health.
Decrease in vitamin D total levels indicate inadequate exposure of sunlight, dietary deficiency, nephrotic syndrome.
Increase in vitamin D total levels indicate Vitamin D intoxication.

Specifications: Precision: Intra assay (%CV):9.20%, Inter assay (%CV):8.50%
Kit Validation Reference : Holick M. Vitamin D the underappreciated D-Lightful hormone that is important for Skeletal and cellular health Curr Opin Endocrinol Diabetes 2002;9(1)87-98.

Method : Fully Automated Electrochemiluminescence Competitive Immunoassay

VITAMIN B-12 E.C.L.I.A 461 pg/mL

Reference Range :
Normal: 197-771 pg/ml

Clinical significance :
Vitamin B12 or cyanocobalamin, is a complex corrinoid compound found exclusively from animal dietary sources, such as meat, eggs and milk. It is critical in normal DNA synthesis, which in turn affects erythrocyte maturation and in the formation of myelin sheath. Vitamin-B12 is used to find out neurological abnormalities and impaired DNA synthesis associated with macrocytic anemias. For diagnostic purpose, results should always be assessed in conjunction with the patients medical history, clinical examination and other findings.

Specifications: Intra assay (%CV):2.6%, Inter assay (%CV):2.3 %

Kit Validation Reference : Thomas L.Clinical laborator Diagnostics : Use and Assessment of Clinical laboratory Results 1st Edition,TH Books-Verl-Ges,1998:424-431

Method : Fully Automated Electrochemiluminescence Competitive Immunoassay

Please correlate with clinical conditions.

Sample Collected on (SCT) : Sample collection time

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Report Released on (RRT) : Report release time

Sample Type : SERUM

Labcode :

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TEST NAME	TECHNOLOGY	VALUE	UNITS
APOLIPOPROTEIN - A1 (APO-A1) Reference Range : Male : 86 - 152 Female : 94 - 162 Method : FULLY AUTOMATED RATE IMMUNOTURBIDIMETRY - BECKMAN COULTER	IMMUNOTURBIDIMETRY	115	mg/dL
APOLIPOPROTEIN - B (APO-B) Reference Range : Male : 56 - 145 Female : 53 - 138 Method : FULLY AUTOMATED RATE IMMUNOTURBIDIMETRY - BECKMAN COULTER	IMMUNOTURBIDIMETRY	85	mg/dL
APO B / APO A1 RATIO (APO B/A1) Reference Range : Male : 0.40 - 1.26 Female : 0.38 - 1.14 Method : DERIVED FROM SERUM APO A1 AND APO B VALUES	CALCULATED	0.7	Ratio

Please correlate with clinical conditions.

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Labcode :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
HIGH SENSITIVITY C-REACTIVE PROTEIN (HS-CRP) Reference Range :-	IMMUNOTURBIDIMETRY	6.73	mg/L

- < 1.00 - Low Risk
- 1.00 - 3.00 - Average Risk
- >3.00 - 10.00 - High Risk
- > 10.00 - Possibly due to Non-Cardiac Inflammation

Disclaimer: Persistent unexplained elevation of HSCRP >10 should be evaluated for non-cardiovascular etiologies such as infection , active arthritis or concurrent illness.

Clinical significance:

High sensitivity C- reactive Protein (HSCRP) can be used as an independent risk marker for the identification of Individuals at risk for future cardiovascular Disease. A coronary artery disease risk assessment should be based on the average of two hs-CRP tests, ideally taken two weeks apart.

Kit Validation Reference:

- Clinical management of laboratory data in medical practice 2003-3004, 207(2003).
- Tietz : Textbook of Clinical Chemistry and Molecular diagnostics :Second edition :Chapter 47:Page no.1507- 1508.

Please correlate with clinical conditions.

Method:- FULLY AUTOMATED LATEX AGGLUTINATION – BECKMAN COULTER

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SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
Lipoprotein (a) [Lp(a)]	IMMUNOTURBIDIMETRY	22.5	mg/dL

Reference Range :-

Adults : < 30.0 mg/dl

Clinical Significance:

Determination of LPA may be useful to guide management of individuals with a family history of CHD or with existing disease. The levels of LPA in the blood depends on genetic factors; The range of variation in a population is relatively large and hence for diagnostic purpose, results should always be assessed in conjunction with the patient's medical history, clinical examination and other findings.

Specifications:

Precision %CV :- Intra assay %CV- 4.55% , Inter assay %CV-0.86 %

Kit Validation Reference:

Tietz NW, Clinical Guide to Laboratory Tests Philadelphia WB. Saunders 1995 : 442-444

Please correlate with clinical conditions.

Method:- LATEX ENHANCED IMMUNOTURBIDIMETRY

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TEST NAME	TECHNOLOGY	VALUE	UNITS
TESTOSTERONE	C.L.I.A	22.61	ng/dL

Reference Range :-

Adult Male
21 - 49 Yrs : 164.94 - 753.38 || 50 - 89 Yrs : 86.49 - 788.22
Adult Female
Pre-Menopause : 12.09 - 59.46 || Post-Menopause: < 7.00 - 48.93
Boys
2-10 Years : < 7.00 - 25.91
11 Years : < 7.00 - 341.53
12 Years : < 7.00 - 562.59
13 Years : 9.34 - 562.93
14 Years : 23.28 - 742.46
15 Years : 144.15 - 841.44
16-21 Years : 118.22 - 948.56
Girls
2-10 Years : < 7.00 - 108.30
11-15 Years : < 7.00 - 48.40
16-21 Years : 17.55 - 50.41

Clinical Significance: Clinical evaluation of serum testosterone, along with serum LH, assists in evaluation of Hypogonadal males. Major causes of lowered testosterone in males include Hypogonadotropic hypogonadism, testicular failure Hyperprolactinemia, Hypopituitarism some types of liver and kidney diseases and critical illness.

Specifications: Precision: Intra assay (%CV): 8.5 %, Inter assay (%CV): 12.6%; Sensitivity: 7 ng/dL.

Kit Validation Reference: Kicklighter EJ, Norman RJ. The gonads. In: Kaplan LA, Pesce AJ, eds. Clinical Chemistry: Theory, Analysis, Correlation. 2nd ed. St. Louis: CV Mosby; 1989:657-662.

Please correlate with clinical conditions.

Method:- COMPETITIVE CHEMI LUMINESCENT IMMUNO ASSAY

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TEST NAME	TECHNOLOGY	VALUE	UNITS
IRON Reference Range : Male : 65 - 175 Female : 50 - 170 Method : FERROZINE METHOD WITHOUT DEPROTEINIZATION	PHOTOMETRY	55.7	µg/dL
TOTAL IRON BINDING CAPACITY (TIBC) Reference Range : Male: 225 - 535 µg/dl Female: 215 - 535 µg/dl Method : SPECTROPHOTOMETRIC ASSAY	PHOTOMETRY	305.2	µg/dL
% TRANSFERRIN SATURATION Reference Range : 13 - 45 Method : DERIVED FROM IRON AND TIBC VALUES	CALCULATED	18.25	%
UNSAT.IRON-BINDING CAPACITY(UIBC) Reference Range : 162 - 368 Method : SPECTROPHOTOMETRIC ASSAY	PHOTOMETRY	249.5	µg/dL

Please correlate with clinical conditions.

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TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
TOTAL CHOLESTEROL	PHOTOMETRY	162	mg/dL	< 200
HDL CHOLESTEROL - DIRECT	PHOTOMETRY	44	mg/dL	40-60
HDL / LDL RATIO	CALCULATED	0.42	Ratio	> 0.40
LDL CHOLESTEROL - DIRECT	PHOTOMETRY	105	mg/dL	< 100
TRIG / HDL RATIO	CALCULATED	2.16	Ratio	< 3.12
TRIGLYCERIDES	PHOTOMETRY	95	mg/dL	< 150
TC/ HDL CHOLESTEROL RATIO	CALCULATED	3.7	Ratio	3 - 5
LDL / HDL RATIO	CALCULATED	2.4	Ratio	1.5-3.5
VLDL CHOLESTEROL	CALCULATED	18.95	mg/dL	5 - 40
NON-HDL CHOLESTEROL	CALCULATED	118.2	mg/dL	< 160

Please correlate with clinical conditions.

Method :

- CHOL - Cholesterol Oxidase, Esterase, Peroxidase
- HCHO - Direct Enzymatic Colorimetric
- HD/LD - Derived from HDL and LDL values.
- LDL - Direct Measure
- TRI/H - Derived from TRIG and HDL Values
- TRIG - Enzymatic, End Point
- TC/H - DERIVED FROM SERUM CHOLESTEROL AND HDL VALUES
- LDL/ - DERIVED FROM SERUM HDL AND LDL VALUES
- VLDL - DERIVED FROM SERUM TRIGLYCERIDE VALUES
- NHDL - DERIVED FROM SERUM CHOLESTEROL AND HDL VALUES

***REFERENCE RANGES AS PER NCEP ATP III GUIDELINES:**

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		

Alert !!! 10-12 hours fasting is mandatory for lipid parameters. If not, values might fluctuate.

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TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
ALKALINE PHOSPHATASE	PHOTOMETRY	76.6	U/L	45-129
BILIRUBIN - TOTAL	PHOTOMETRY	0.52	mg/dL	0.3-1.2
BILIRUBIN -DIRECT	PHOTOMETRY	0.11	mg/dL	< 0.3
BILIRUBIN (INDIRECT)	CALCULATED	0.41	mg/dL	0-0.9
GAMMA GLUTAMYL TRANSFERASE (GGT)	PHOTOMETRY	23.2	U/L	< 38
SGOT / SGPT RATIO	CALCULATED	0.63	Ratio	< 2
ASPARTATE AMINOTRANSFERASE (SGOT)	PHOTOMETRY	18.9	U/L	< 31
ALANINE TRANSAMINASE (SGPT)	PHOTOMETRY	30.1	U/L	< 34
PROTEIN - TOTAL	PHOTOMETRY	7.36	gm/dL	5.7-8.2
ALBUMIN - SERUM	PHOTOMETRY	3.78	gm/dL	3.2-4.8
SERUM ALB/GLOBULIN RATIO	CALCULATED	1.06	Ratio	0.9 - 2
SERUM GLOBULIN	CALCULATED	3.58	gm/dL	2.5-3.4

Please correlate with clinical conditions.

Method :

- ALKP - MODIFIED IFCC METHOD
- BILT - VANADATE OXIDATION
- BILD - VANADATE OXIDATION
- BILI - DERIVED FROM SERUM TOTAL AND DIRECT BILIRUBIN VALUES
- GGT - MODIFIED IFCC METHOD
- OT/PT - Derived from SGOT and SGPT values.
- SGOT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
- SGPT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
- PROT - BIURET METHOD
- SALB - ALBUMIN BCG³METHOD (COLORIMETRIC ASSAY ENDPOINT)
- A/GR - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES
- SEGB - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES

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TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
UREA (CALCULATED)	CALCULATED	12.39	mg/dL	Adult : 17-43
BLOOD UREA NITROGEN (BUN)	PHOTOMETRY	5.79	mg/dL	7.94 - 20.07
UREA / SR.CREATININE RATIO	CALCULATED	21.36	Ratio	< 52
CREATININE - SERUM	PHOTOMETRY	0.58	mg/dL	0.55-1.02
BUN / SR.CREATININE RATIO	CALCULATED	9.98	Ratio	9:1-23:1
CALCIUM	PHOTOMETRY	8.69	mg/dL	8.8-10.6
URIC ACID	PHOTOMETRY	5	mg/dL	3.2 - 6.1

Please correlate with clinical conditions.

Method :

- UREAC - Derived from BUN Value.
- BUN - KINETIC UV ASSAY.
- UR/CR - Derived from UREA and Sr.Creatinine values.
- SCRE - CREATININE ENZYMATIC METHOD
- B/CR - DERIVED FROM SERUM BUN AND CREATININE VALUES
- CALC - ARSENAZO III METHOD, END POINT.
- URIC - URICASE / PEROXIDASE METHOD

Dummy Report

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TEST NAME	TECHNOLOGY	VALUE	UNITS	REFERENCE RANGE
TOTAL TRIIODOTHYRONINE (T3)	E.C.L.I.A	158	ng/dL	80-200
TOTAL THYROXINE (T4)	E.C.L.I.A	10.8	µg/dL	4.8-12.7
TSH - ULTRASENSITIVE	E.C.L.I.A	1.14	µIU/mL	0.54-5.30

Comments : ***

The Biological Reference Ranges is specific to the age group. Kindly correlate clinically.

Method :

T3 - Fully Automated Electrochemiluminescence Compitative Immunoassay
T4 - Fully Automated Electrochemiluminescence Compitative Immunoassay
USTSH - Fully Automated Electrochemiluminescence Sandwich Immunoassay

Disclaimer : Results should always be interpreted using the reference range provided by the laboratory that performed the test. Different laboratories do tests using different technologies, methods and using different reagents which may cause difference. In reference ranges and hence it is recommended to interpret result with assay specific reference ranges provided in the reports. To diagnose and monitor therapy doses, it is recommended to get tested every time at the same Laboratory.

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TEST NAME	TECHNOLOGY	VALUE	UNITS
EST. GLOMERULAR FILTRATION RATE (eGFR)	CALCULATED	106	mL/min/1.73 m2

Reference Range :-

- > = 90 : Normal
- 60 - 89 : Mild Decrease
- 45 - 59 : Mild to Moderate Decrease
- 30 - 44 : Moderate to Severe Decrease
- 15 - 29 : Severe Decrease

Clinical Significance

The normal serum creatinine reference interval does not necessarily reflect a normal GFR for a patient. Because mild and moderate kidney injury is poorly inferred from serum creatinine alone. Thus, it is recommended for clinical laboratories to routinely estimate glomerular filtration rate (eGFR), a "gold standard" measurement for assessment of renal function, and report the value when serum creatinine is measured for patients 18 and older, when appropriate and feasible. It cannot be measured easily in clinical practice, instead, GFR is estimated from equations using serum creatinine, age, race and sex. This provides easy to interpret information for the doctor and patient on the degree of renal impairment since it approximately equates to the percentage of kidney function remaining. Application of CKD-EPI equation together with the other diagnostic tools in renal medicine will further improve the detection and management of patients with CKD.

Reference

Levey AS, Stevens LA, Schmid CH, Zhang YL, Castro AF, 3rd, Feldman HI, et al. A new equation to estimate glomerular filtration rate. Ann Intern Med. 2009;150(9):604-12.

Please correlate with clinical conditions.

Method:- CKD-EPI Creatinine Equation

~~ End of report ~~

Sample Collected on (SCT) : Sample collection time
Sample Received on (SRT) : Sample receiving time at Lab
Report Released on (RRT) : Report release time
Sample Type : SERUM
Labcode :
Barcode :

Doctor 1 Sign

Doctor 2 Sign

CONDITIONS OF REPORTING

- ✓ The reported results are for information and interpretation of the referring doctor only.
- ✓ It is presumed that the tests performed on the specimen belong to the patient; named or identified.
- ✓ Results of tests may vary from laboratory to laboratory and also in some parameters from time to time for the same patient.
- ✓ Should the results indicate an unexpected abnormality, the same should be reconfirmed.
- ✓ Only such medical professionals who understand reporting units, reference ranges and limitations of technologies should interpret results.
- ✓ This report is not valid for medico-legal purpose.
- ✓ Neither Thyrocare, nor its employees/representatives assume any liability, responsibility for any loss or damage that may be incurred by any person as a result of presuming the meaning or contents of the report.
- ✓ Thyrocare Discovery video link :- <https://youtu.be/nbdYeRgYyQc>
- ✓ For clinical support please contact @8450950852,8450950853,8450950854 between 10:00 to 18:00

EXPLANATIONS

- ✓ Majority of the specimen processed in the laboratory are collected by Pathologists and Hospitals we call them as "Clients".
- ✓ **Name** - The name is as declared by the client and recored by the personnel who collected the specimen.
- ✓ **Ref.Dr** - The name of the doctor who has recommended testing as declared by the client.
- ✓ **Labcode** - This is the accession number in our laboratory and it helps us in archiving and retrieving the data.
- ✓ **Barcode** - This is the specimen identity number and it states that the results are for the specimen bearing the barcode (irrespective of the name).
- ✓ **SCP** - Specimen Collection Point - This is the location where the blood or specimen was collected as declared by the client.
- ✓ **SCT** - Specimen Collection Time - The time when specimen was collected as declared by the client.
- ✓ **SRT** - Specimen Receiving Time - This time when the specimen reached our laboratory.
- ✓ **RRT** - Report Releasing Time - The time when our pathologist has released the values for Reporting.
- ✓ **Reference Range** - Means the range of values in which 95% of the normal population would fall.

SUGGESTIONS

- ✓ Values out of reference range requires reconfirmation before starting any medical treatment.
- ✓ Retesting is needed if you suspect any quality shortcomings.
- ✓ Testing or retesting should be done in accredited laboratories.
- ✓ For suggestions, complaints or feedback, write to us at info@thyrocare.com or call us on **022-3090 0000 / 6712 3400**
- ✓ SMS:<Labcode No.> to **9870666333**

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