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REPORT

NAME : XXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
HOMOCYSTEINE	PHOTOMETRY	17.2	µmol/L

Reference Range :-

Normal: < 30 µmol/L

Clinical Significance:
Homocysteine is linked to increased risk of premature coronary artery disease, stroke and thromboembolism. Moreover, alzheimers disease, osteoporosis, venous thrombosis, schizophrenia, cognitive deficiency and pregnancy complications also elevates Homocysteine levels.

High Values:
Elevated homocysteine levels might be due to increasing age, genetic traits, drugs, renal dysfunction and dietary deficiency of vitamins or smoking. To lower your homocysteine, eat more green vegetables, stop smoking, alcohol. Folic acid helps lowering elevated levels.

Specifications:
Precision %CV :- Intra assay %CV- 4.5 % , Inter assay %CV-5.87 % Sensitivity : 0.4 umol/L

Kit Validation Reference:
Eikelboom JW, et al Ann Intern Med 131 : 363-75 (1999)

Please correlate with clinical conditions.
Method:- ENZYMATIC ASSAY

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

NAME : XXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
CYSTATIN C	IMMUNOTURBIDIMETRY	1.48	mg/L

Reference Range :-

<= 60 years: <= 1.03 mg/L
> 60 years : < 1.50 mg/L

Clinical significance

Cystatin c, is a small 13-kda protein and is a member of the cysteine proteinase inhibitor family, it is produced at a constant rate by all nucleated cells. Due to its small size it is freely filtered by the glomerulus and is not secreted but is fully reabsorbed and broken down by the renal tubules. This means that the primary determinate of blood Cystatin c levels is the rate at which it is filtered at the glomerulus making it an excellent gfr marker. Cystatin c is also a marker of inflammation and like many other markers of inflammation; its serum concentration may be higher in patients with decreased renal clearance. There is mounting evidence, however, that Cystatin c may be a predictor of adverse outcomes independent of renal function with its higher sensitivity to detect a reduced GFR than Creatinine determination, also in the so-called "Creatinine-blind" range. Thus, Cystatin c is suggested to be a better marker for GFR than the ubiquitous serum Creatinine.

Reference

1. Barrett aj, Davies me, Grubb a. the place of human gamma-trace (Cystatin c) among the cysteine proteinase inhibitors. Biochem biophys res common 1984; 120: 631-6.

2. Grubb a. diagnostic value of analysis of Cystatin c and protein HC in biological fluids. Clin Nephrol 1992; 38: S20-7.

Please correlate with clinical conditions.
Method:- LATEX ENHANCED IMMUNOTURBIDIMETRY

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

REPORT

NAME : XXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
25-OH VITAMIN D (TOTAL)	**E.C.L.I.A**	**18.3**	**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. Vtamin 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 Compitive Immunoassay

VITAMIN B-12	E.C.L.I.A	213	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 Compitive Immunoassay

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 : SERUM
Labcode :
Barcode :

Doctor 1 Sign Doctor 2 Sign

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
APOLIPOPROTEIN - A1 (APO-A1)	IMMUNOTURBIDIMETRY	124	mg/dL
Reference Range : MALE : 86 - 152 FEMALE : 94 - 162 **Method :** FULLY AUTOMATED RATE IMMUNOTURBIDIMETRY – BECKMAN COULTER			
APOLIPOPROTEIN - B (APO-B)	IMMUNOTURBIDIMETRY	94	mg/dL
Reference Range : MALE : 56 - 145 FEMALE : 53 - 138 **Method :** FULLY AUTOMATED RATE IMMUNOTURBIDIMETRY – BECKMAN COULTER			
APO B / APO A1 RATIO (APO B/A1)	CALCULATED	0.8	Ratio
Reference Range : MALE : 0.40 - 1.26 FEMALE : 0.38 - 1.14 **Method :** DERIVED FROM SERUM APO A1 AND APO B 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 : SERUM
Labcode :
Barcode :

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
HIGH SENSITIVITY C-REACTIVE PROTEIN (HS-CRP)	**IMMUNOTURBIDIMETRY**	**4.7**	**mg/L**

Reference Range :-

< 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:
1.Clinical management of laboratory date in medical practice 2003-3004, 207(2003).
2.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

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 :

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REF. BY : XXXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
Lipoprotein (a) [Lp(a)]	IMMUNOTURBIDIMETRY	26.1	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

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 :

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
SERUM COPPER	PHOTOMETRY	121.77	µg/dL

Reference Range :-

Male : 63.5 - 150
Female : 80 - 155

Clinical significance:
Copper is an important trace element and a component of numerous enzymes and proteins involved in energy production, connective tissue formation, melanin synthesis, iron metabolism, development of central nervous system, angiogenesis as well as an antioxidant. Deficiency can cause- Malnourishment, cardiovascular disease, anemia & neuropathy, toxicity may be manifested as acute renal failure, gastroenteritis & chronic liver disease.

Specifications:
Precision: Intra assay (%CV): 1.17, Inter assay (%CV): 2.32.

Kit validation references:
Thomas L. Clinical Laboratory Diagnostics. 1st ed. Frankfurt: TH-Books Verlagsgesellschaft; 1998. p. 337-8

Please correlate with clinical conditions.
Method:- 3,5-DIBR-PAESA

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 :

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
SERUM ZINC	PHOTOMETRY	60.61	µg/dL

Reference Range :-

52 - 286

Clinical Significance:
Zinc is one of the essential trace elements in the body. Its metalloenzymes play a key rple in protein and nucleic acid synthesis, gene expression, wound healing, as an antioxidant, etc. Deficiency can cause- Poor wound healing, gastroenteritis, impaired spermatogenesis, Alzheimer's disease, etc. Toxicity may be manifested as pancreatitis, gastric ulcer, anemia, pulmonary fibrosis.

Specifications:
Precision: Intra assay (%CV): 2.02, Inter assay (%CV): 2.22.

Kit Validation References:
Thomas L. Clinical Laboratory Diagnostics. 1st ed. Frankfurt: TH-Books Verlagsgesellschaft; 1998. p. 347-9

Please correlate with clinical conditions.

Method:- NITRO - PAPS

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 :

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
TESTOSTERONE	E.C.L.I.A	6.23	ng/dL

Reference Range :-

Males
20-49 yrs: 249-836 ng/dL
>=50 yrs : 193-740 ng/dL
Females
20-49 yrs : 8.4 - 48.1 ng/dL
>=50 yrs : 2.9 - 40.8 ng/dL

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 Hyperprolactinema, Hypopituitarism some types of liver and kidney diseases and critical illness.

Specifications: Precision: Intra assay (%CV): 11.50 %, Inter assay (%CV): 5.70%; Sensitivity: 7 ng/dL.

Kit Validation Reference: Wilson JD Foster DW (Eds) Williams Textbook of Endocrinology 8th Edition WB Saunders Piladelphia Pennsylvania .

Please correlate with clinical conditions.

Method:- Fully Automated Electrochemiluminescence Compititive Immunoassay

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

REPORT

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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
IRON	PHOTOMETRY	52.4	µg/dL
Reference Range : Male : 65 - 175 Female : 50 - 170 **Method :** FERROZINE METHOD WITHOUT DEPROTEINIZATION			
TOTAL IRON BINDING CAPACITY (TIBC)	PHOTOMETRY	344.3	µg/dL
Reference Range : Male: 225 - 535 µg/dl Female: 215 - 535 µg/dl **Method :** SPECTROPHOTOMETRIC ASSAY			
% TRANSFERRIN SATURATION	CALCULATED	15.22	%
Reference Range : 13 - 45 **Method :** DERIVED FROM IRON AND TIBC VALUES			
UNSAT.IRON-BINDING CAPACITY(UIBC)	PHOTOMETRY	291.9	µg/dL
Reference Range : 162 - 368 **Method :** SPECTROPHOTOMETRIC ASSAY			

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 : SERUM
Labcode :
Barcode :

Doctor 1 Sign Doctor 2 Sign

NAME : XXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
TOTAL CHOLESTEROL	PHOTOMETRY	151	mg/dL	< 200
HDL CHOLESTEROL - DIRECT	**PHOTOMETRY**	**39**	**mg/dL**	**40-60**
TRIG / HDL RATIO	**CALCULATED**	**4.01**	**Ratio**	**< 3.12**
TRIGLYCERIDES	**PHOTOMETRY**	**155**	**mg/dL**	**< 150**
HDL / LDL RATIO	CALCULATED	0.43	Ratio	> 0.40
LDL CHOLESTEROL - DIRECT	PHOTOMETRY	91	mg/dL	< 100
TC/ HDL CHOLESTEROL RATIO	CALCULATED	3.9	Ratio	3 - 5
LDL / HDL RATIO	CALCULATED	2.3	Ratio	1.5-3.5
VLDL CHOLESTEROL	CALCULATED	30.96	mg/dL	5 - 40
NON-HDL CHOLESTEROL	CALCULATED	112.6	mg/dL	< 160

Please correlate with clinical conditions.

Method :

CHOL - Cholesterol Oxidase, Esterase, Peroxidase
HCHO - Direct Enzymatic Colorimetric
TRI/H - Derived from TRIG and HDL Values
TRIG - Enzymatic, End Point
HD/LD - Derived from HDL and LDL values.
LDL - Direct Measure
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.

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

NAME : XXXXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
ALKALINE PHOSPHATASE	PHOTOMETRY	84.7	U/L	45-129
BILIRUBIN -DIRECT	PHOTOMETRY	0.07	mg/dL	< 0.3
BILIRUBIN - TOTAL	PHOTOMETRY	0.37	mg/dL	0.3-1.2
BILIRUBIN (INDIRECT)	CALCULATED	0.3	mg/dL	0-0.9
GAMMA GLUTAMYL TRANSFERASE (GGT)	PHOTOMETRY	20.1	U/L	< 38
SGOT / SGPT RATIO	CALCULATED	1.53	Ratio	< 2
ASPARTATE AMINOTRANSFERASE (SGOT)	PHOTOMETRY	20	U/L	< 31
ALANINE TRANSAMINASE (SGPT)	PHOTOMETRY	13.1	U/L	< 34
PROTEIN - TOTAL	PHOTOMETRY	6.68	gm/dL	5.7-8.2
ALBUMIN - SERUM	PHOTOMETRY	3.68	gm/dL	3.2-4.8
SERUM GLOBULIN	CALCULATED	3	gm/dL	2.5-3.4
SERUM ALB/GLOBULIN RATIO	CALCULATED	1.23	Ratio	0.9 - 2

Please correlate with clinical conditions.

Method :

ALKP - Modified IFCC method
BILD - Vanadate Oxidation
BILT - 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 BCG¹METHOD (COLORIMETRIC ASSAY ENDPOINT)
SEGB - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES
A/GR - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES

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

REPORT

NAME : XXXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
UREA (CALCULATED)	CALCULATED	34.03	mg/dL	Adult : 17-43
BLOOD UREA NITROGEN (BUN)	PHOTOMETRY	15.9	mg/dL	7.94 - 20.07
UREA / SR.CREATININE RATIO	CALCULATED	38.23	Ratio	< 52
CREATININE - SERUM	PHOTOMETRY	0.89	mg/dL	0.55-1.02
URIC ACID	**PHOTOMETRY**	**6.4**	**mg/dL**	**3.2 - 6.1**
CALCIUM	PHOTOMETRY	9.03	mg/dL	8.8-10.6
BUN / SR.CREATININE RATIO	CALCULATED	17.87	Ratio	9:1-23:1

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
URIC - Uricase / Peroxidase Method
CALC - ARSENAZO III METHOD, END POINT.
B/CR - DERIVED FROM SERUM BUN AND CREATININE VALUES

Sample Collected on (SCT) : Sample collection time
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REPORT

NAME : XXXXXXXXXXXXXXXXXX
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TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS	REFERENCE RANGE
TOTAL TRIIODOTHYRONINE (T3)	E.C.L.I.A	109	ng/dL	80-200
TOTAL THYROXINE (T4)	E.C.L.I.A	7.7	µg/dL	4.8-12.7
TSH - ULTRASENSITIVE	E.C.L.I.A	2.01	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 Compititive Immunoassay
T4 - Fully Automated Electrochemiluminescence Compititive 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.

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

NAME : XXXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXXX
TEST ASKED : AAROGYAM 1.3 WITH UTSH

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS
EST. GLOMERULAR FILTRATION RATE (eGFR)	**CALCULATED**	**69**	**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

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Report Released on (RRT) : Report release time
Sample Type : SERUM
Labcode :
Barcode :

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REPORT

NAME : XXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXX
TEST ASKED : ELEMENTS 22 (TOXIC AND NUTRIENTS),HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
ARSENIC	ICP-MS	0.38	µg/L	< 5
CADMIUM	ICP-MS	0.61	µg/L	< 1.5
MERCURY	ICP-MS	0.23	µg/L	< 5
LEAD	ICP-MS	36.38	µg/L	< 150
CHROMIUM	ICP-MS	1.76	µg/L	< 30
BARIUM	ICP-MS	1.73	µg/L	< 30
COBALT	ICP-MS	0.22	µg/L	0.10 - 1.50
CAESIUM	ICP-MS	2.23	µg/L	< 5
THALLIUM	ICP-MS	0.03	µg/L	< 1
URANIUM	ICP-MS	0.08	µg/L	< 1
STRONTIUM	ICP-MS	32.13	µg/L	8 - 38
ANTIMONY	ICP-MS	13.32	µg/L	0.10 - 18
TIN	ICP-MS	0.34	µg/L	< 2
MOLYBDENUM	ICP-MS	1.8	µg/L	0.70 - 4.0
SILVER	ICP-MS	0.2	µg/L	< 4
VANADIUM	ICP-MS	0.25	µg/L	< 0.8
BERYLLIUM	**ICP-MS**	**0.03**	**µg/L**	**0.10 - 0.80**
BISMUTH	ICP-MS	0.18	µg/L	0.10 - 0.80
SELENIUM	ICP-MS	103.78	µg/L	60 - 340
ALUMINIUM	ICP-MS	17.43	µg/L	< 30
NICKEL	ICP-MS	3.41	µg/L	< 15
MANGANESE	ICP-MS	16.68	µg/L	7.10 - 20

Please correlate with clinical conditions.

Method :

ICP - MASS SPECTROMETRY
Note:Reference range has been obtained after considering 95% population as cutoff.

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

PROCESSED AT :
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022 - 3090 0000 / 6712 3400 9870666333 wellness@thyrocare.com www.thyrocare.com

REPORT

NAME : XXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXX
TEST ASKED : ELEMENTS 22 (TOXIC AND NUTRIENTS),HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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**

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
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REPORT

NAME : XXXXXXXXXXXXXXXXXXX
REF. BY : XXXXXXXXXXXXXXXXXXX
TEST ASKED : ELEMENTS 22 (TOXIC AND NUTRIENTS),HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TEST NAME	VALUE	UNITS	REFERENCE RANGE
TOTAL LEUCOCYTES COUNT (WBC)	7.27	X 10³ / µL	4.0 - 10.0
NEUTROPHILS	57.2	%	40-80
LYMPHOCYTE PERCENTAGE	33.8	%	20-40
MONOCYTES	3.7	%	2-10
EOSINOPHILS	4.8	%	1-6
BASOPHILS	0.2	%	0-2
IMMATURE GRANULOCYTE PERCENTAGE(IG%)	0.3	%	0.0-0.4
NEUTROPHILS - ABSOLUTE COUNT	4.16	X 10³ / µL	2.0-7.0
LYMPHOCYTES - ABSOLUTE COUNT	2.46	X 10³ / µL	1.0-3.0
MONOCYTES - ABSOLUTE COUNT	0.27	X 10³ / µL	0.2 - 1.0
BASOPHILS - ABSOLUTE COUNT	**0.01**	**X 10³ / µL**	**0.02 - 0.1**
EOSINOPHILS - ABSOLUTE COUNT	0.35	X 10³ / µL	0.02 - 0.5
IMMATURE GRANULOCYTES(IG)	0.02	X 10³ / µL	0.0-0.3
TOTAL RBC	4.3	X 10^6/µL	3.8-4.8
NUCLEATED RED BLOOD CELLS	0.01	X 10³ / µL	<0.01
NUCLEATED RED BLOOD CELLS %	0.01	%	<0.01
HEMOGLOBIN	**10.5**	**g/dL**	**12.0-15.0**
HEMATOCRIT(PCV)	39.1	%	36.0-46.0
MEAN CORPUSCULAR VOLUME(MCV)	90.9	fL	83.0-101.0
MEAN CORPUSCULAR HEMOGLOBIN(MCH)	**24.4**	**pq**	**27.0-32.0**
MEAN CORP.HEMO.CONC(MCHC)	**26.9**	**g/dL**	**31.5-34.5**
RED CELL DISTRIBUTION WIDTH - SD(RDW-SD)	**50.9**	**fL**	**39.0-46.0**
RED CELL DISTRIBUTION WIDTH (RDW-CV)	**15.2**	**%**	**11.6-14.0**
PLATELET DISTRIBUTION WIDTH(PDW)	11.4	fL	9.6-15.2
MEAN PLATELET VOLUME(MPV)	10.1	fL	6.5-12
PLATELET COUNT	289	X 10³ / µL	150-410
PLATELET TO LARGE CELL RATIO(PLCR)	25.7	%	19.7-42.4
PLATELETCRIT(PCT)	0.29	%	0.19-0.39

Remarks : Alert!!! RBCs:Mild anisopoikilocytosis. Predominantly normocytic normochromic with microcytes & 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)

~~ End of report ~~

Sample Collected on (SCT) : Sample collection time
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Report Released on (RRT) : Report release time
Sample Type : EDTA
Labcode :
Barcode :

Doctor 1 Sign Doctor 2 Sign

CUSTOMER DETAILS

As declared in our data base

Name: XXXXXXXXXXXXX **Age:** XXX **Sex:** XX **Customer Mobile No:** XXXXXXXXXX

Barcodes/Sample_Type	:	
Labcode	:	
Ref By	:	XXXXXXX
Sample_Type/Tests	:	EDTA:HBA , HEMOGRAM - 6 PART (DIFF) , ELEMENTS 22 (TOXIC AND NUTRIENTS) SERUM:AAROGYAM 1.3 WITH UTSH
Sample Collected At	:	
Sample Collected on (SCT)	:	Sample collection time
Report Released on (RRT)	:	Report release time

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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**