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REPORT

NAME : NAYANA SURTI (61Y/F)
REF. BY : SELF
TEST ASKED : AAROGYAM C

SAMPLE COLLECTED AT :
(5600250846),RELAX HEALTHCARE SERVICES INDIA PVT LTD,NO 25/2,NORRIS ROAD, RICHMOND TOWN,BENGALURU, KARNATAKA 560025, INDIA,560025

TEST NAME	TECHNOLOGY	VALUE	UNITS
HIGH SENSITIVITY C-REACTIVE PROTEIN (HS-CRP)	IMMUNOTURBIDIMETRY	2.9	mg/L

Reference Range :-

Adult : <=3.0 mg/L

Interpretation:

High sensitivity C-reactive protein, when used in conjunction with other clinical laboratory evaluation of acute coronary syndromes, may be useful as an independent marker of prognosis for recurrent events, in patients with stable coronary disease or acute coronary syndromes. hsCRP levels should not be substituted for assessment of traditional cardiovascular risk factors. Patients with persistently unexplained, marked evaluation of hsCRP after repeated testing should be evaluated for non - cardiovascular etiologies

Clinical significance:

hsCRP measurements may be used as an independent risk marker for the identification of individuals at risk for future cardiovascular disease. Elevated CRP values may be indicative of prognosis of individuals with acute coronary syndromes, and may be useful in the management of such individuals.

Specifications: Precision: Within run %CV has been recorded <=5%.

References:
1. Chenillot O, Henny J, Steinmez J, et al. High sensitivity C-reactive protein: biological variations and reference limits. Clin Chem Lab Med 2000;38:1003-11.
2. Hind CRH, Pepys MB. The role of serum C-reactive protein measurements in clinical practice. Int Med 1984;5:112-51.

Please correlate with clinical conditions.
Method:- FULLY AUTOMATED LATEX AGGLUTINATION – BECKMAN COULTER

Sample Collected on (SCT) : 04 Mar 2021 13:25
Sample Received on (SRT) : 04 Mar 2021 16:11
Report Released on (RRT) : 05 Mar 2021 06:03
Sample Type : SERUM
Labcode : 0403042289/PU190
Barcode : P8767524

Dr Arjun CP MD(Path)

Dr.Caesar Sengupta MD(Micro)

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TEST NAME	TECHNOLOGY	VALUE	UNITS
APOLIPOPROTEIN - A1 (APO-A1)	IMMUNOTURBIDIMETRY	158	mg/dL

Reference Range :
Male : 86 - 152
Female : 94 - 162
Method : FULLY AUTOMATED RATE IMMUNOTURBIDIMETRY – BECKMAN COULTER

APOLIPOPROTEIN - B (APO-B)	IMMUNOTURBIDIMETRY	89	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	0.6	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.

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TEST NAME	TECHNOLOGY	VALUE	UNITS
25-OH VITAMIN D (TOTAL)	C.L.I.A	31.2	ng/ml

Reference Range :
DEFICIENCY : <20 ng/ml
INSUFFICIENCY : 20-<30 ng/ml
SUFFICIENCY : 30-100 ng/ml
TOXICITY : >100 ng/ml

Vitamin D Total test is analyzed on Siemens ADVIA Centaur, standardized against ID-LC/MS/MS, as per Vitamin D Standardization Program (VDSP).

Specifications: Intra assay (%CV):5.3%, Inter assay (%CV):11.9% ; Sensitivity:3.2 ng/ml
Method : FULLY AUTOMATED CHEMI LUMINESCENT IMMUNO ASSAY

VITAMIN B-12	**C.L.I.A**	**> 2000**	**pg/ml**

Reference Range :
Normal : 211 - 911 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):5.0%, Inter assay (%CV):9.2 %;Sensitivity:45 pg/ml

External quality control program participation:
College of American pathologists: ligand assay (general) survey; CAP number: 7193855-01

Kit validation references:
Chen IW,Sperling MI,Heminger IA.Vitamin B12.In:Pesce AJ,Kalpan LA,editors.Methods in clinical chemistry. St.Louis:CV Mosby,1987.P.569-73.
Method : FULLY AUTOMATED BIDIRECTIONALLY INTERFACED CHEMI LUMINESCENT IMMUNO ASSAY

Please correlate with clinical conditions.

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TEST NAME	TECHNOLOGY	VALUE	UNITS
LIPOPROTEIN (A) [LP(A)]	IMMUNOTURBIDIMETRY	17.3	mg/dl

Reference Range :-

Adults : < 30.0 mg/dl

Interpretation:

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: Intra Assay (%CV): 3.4 %, Inter Assay (%CV): 2.0 %; Sensitivity: 0.002 gm/l

External Quality Control Program Participation:

College of American Pathologists: General Chemistry and TDM; CAP Number: 7193855-01

Kit Validation References:

Koschinsky ML, Marcovina SM. Lipoprotein A: Structural Implication for Pathophysiology. Int J Clin Lab Res, 1997; 27: 14-23.

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

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TEST NAME	TECHNOLOGY	VALUE	UNITS
TESTOSTERONE	C.L.I.A	15.07	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 Hyperprolactinema, 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.

External quality control program participation:
College of American pathologists: Ligand assay (special) survey; cap number: 7193855-01

Please correlate with clinical conditions.
Method:- FULLY AUTOMATED BIDIRECTIONALLY INTERFACED CHEMI LUMINESCENT IMMUNO ASSAY

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TEST NAME	TECHNOLOGY	VALUE	UNITS
IRON	**PHOTOMETRY**	**45.1**	**µg/dl**
Reference Range : Male : 65 - 175 Female : 50 - 170 **Method :** FERROZINE METHOD WITHOUT DEPROTEINIZATION			
TOTAL IRON BINDING CAPACITY (TIBC)	PHOTOMETRY	463	µg/dl
Reference Range : Male: 225 - 535 µg/dl Female: 215 - 535 µg/dl **Method :** SPECTROPHOTOMETRIC ASSAY			
% TRANSFERRIN SATURATION	**CALCULATED**	**9.74**	**%**
Reference Range : 13 - 45 **Method :** DERIVED FROM IRON AND TIBC VALUES			

Please correlate with clinical conditions.

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TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
TOTAL CHOLESTEROL	PHOTOMETRY	199	mg/dl	125-200
HDL CHOLESTEROL - DIRECT	PHOTOMETRY	62	mg/dl	35-80
LDL CHOLESTEROL - DIRECT	PHOTOMETRY	115	mg/dl	85-130
TRIGLYCERIDES	PHOTOMETRY	116	mg/dl	25-200
TC/ HDL CHOLESTEROL RATIO	CALCULATED	3.2	Ratio	3 - 5
LDL / HDL RATIO	CALCULATED	1.9	Ratio	1.5-3.5
VLDL CHOLESTEROL	CALCULATED	23.28	mg/dl	5 - 40
NON-HDL CHOLESTEROL	CALCULATED	136.8	mg/dl	< 160

Please correlate with clinical conditions.

Method :

CHOL - CHOD POD METHOD
HCHO - ENZYME SELECTIVE PROTECTION METHOD
LDL - HOMOGENOUS ENZYMATIC COLORIMETRIC ASSAY
TRIG - ENZYMATIC COLORIMETRIC METHOD (GPO) [HIGHLY INFLUENCED BY LEVEL OF FASTING]
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	91.6	U/L	45 - 129
BILIRUBIN - TOTAL	PHOTOMETRY	0.36	mg/dl	0.3-1.2
BILIRUBIN -DIRECT	PHOTOMETRY	0.11	mg/dl	< 0.3
BILIRUBIN (INDIRECT)	CALCULATED	0.25	mg/dl	0-0.9
GAMMA GLUTAMYL TRANSFERASE (GGT)	PHOTOMETRY	14.4	U/l	< 38
ASPARTATE AMINOTRANSFERASE (SGOT)	PHOTOMETRY	26.5	U/l	< 31
ALANINE TRANSAMINASE (SGPT)	PHOTOMETRY	17.2	U/l	< 34
PROTEIN - TOTAL	PHOTOMETRY	7.33	gm/dl	5.7-8.2
ALBUMIN - SERUM	PHOTOMETRY	4.16	gm/dl	3.2-4.8
SERUM ALB/GLOBULIN RATIO	CALCULATED	1.31	Ratio	0.9 - 2
SERUM GLOBULIN	PHOTOMETRY	3.17	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
SGOT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
SGPT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
PROT - BIURET METHOD
SALB - ALBUMIN BCG¹METHOD (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	REFERENCE RANGE
TOTAL TRIIODOTHYRONINE (T3)	C.L.I.A	145	ng/dl	60-200
TOTAL THYROXINE (T4)	C.L.I.A	11	µg/dl	4.5-12
THYROID STIMULATING HORMONE (TSH)	C.L.I.A	3.65	µIU/ml	0.3-5.5

Comments : SUGGESTING THYRONORMALCY

Please correlate with clinical conditions.

Method :

T3 - COMPETITIVE CHEMI LUMINESCENT IMMUNO ASSAY
T4 - COMPETITIVE CHEMI LUMINESCENT IMMUNO ASSAY
TSH - SANDWICH CHEMI LUMINESCENT IMMUNO ASSAY

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TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
BLOOD UREA NITROGEN (BUN)	PHOTOMETRY	10.5	mg/dl	7 - 25
CREATININE - SERUM	PHOTOMETRY	0.64	mg/dl	0.5-0.8
BUN / SR.CREATININE RATIO	CALCULATED	16.41	Ratio	9:1-23:1
CALCIUM	PHOTOMETRY	9.45	mg/dl	8.8-10.6
URIC ACID	PHOTOMETRY	4.01	mg/dl	3.2 - 6.1

Please correlate with clinical conditions.

Method :

BUN - KINETIC UV ASSAY.
SCRE - CREATININE ENZYMATIC METHOD
B/CR - DERIVED FROM SERUM BUN AND CREATININE VALUES
CALC - ARSENAZO III METHOD, END POINT.
URIC - URICASE / PEROXIDASE METHOD

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TEST NAME	TECHNOLOGY	VALUE	UNITS
EST. GLOMERULAR FILTRATION RATE (eGFR)	CALCULATED	96	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

NAME : NAYANA SURTI (61Y/F)
REF. BY : SELF
TEST ASKED : BLOOD SUGAR (F)

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(5600250846),RELAX HEALTHCARE SERVICES INDIA PVT LTD,NO 25/2,NORRIS ROAD, RICHMOND TOWN,BENGALURU, KARNATAKA 560025, INDIA,560025

TEST NAME	TECHNOLOGY	VALUE	UNITS
FASTING BLOOD SUGAR	**PHOTOMETRY**	**138**	**mg/dL**

Reference Range :-

70-99

Please correlate with clinical conditions.

Method:- GOD-PAP METHOD

Sample Collected on (SCT) : 04 Mar 2021 13:25
Sample Received on (SRT) : 04 Mar 2021 16:12
Report Released on (RRT) : 05 Mar 2021 05:15
Sample Type : FLUORIDE
Labcode : 0403042301/PU190
Barcode : R8230788

Dr Arjun CP MD(Path)

Dr.Caesar Sengupta MD(Micro)

PROCESSED AT :
Thyrocare
Samanvitha Complex, No.12,13
and 14,
Mayura Street,Outer Ring Road,
Hebbal, Bangalore–560095

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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 : NAYANA SURTI (61Y/F)
REF. BY : SELF
TEST ASKED : HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
(5600250846),RELAX HEALTHCARE SERVICES INDIA PVT LTD,NO 25/2,NORRIS ROAD, RICHMOND TOWN,BENGALURU, KARNATAKA 560025, INDIA,560025

TEST NAME	TECHNOLOGY	VALUE	UNITS
HbA1c - (HPLC)			
	H.P.L.C	**7.7**	**%**

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. using Biorad Variant II Turbo

AVERAGE BLOOD GLUCOSE (ABG)	**CALCULATED**	**174**	**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) :04 Mar 2021 13:25
Sample Received on (SRT) : 04 Mar 2021 16:11
Report Released on (RRT) :04 Mar 2021 19:24
Sample Type : EDTA
Labcode : 0403042285/PU190
Barcode : R8230789

Dr Arjun CP MD(Path)

Dr.Caesar Sengupta MD(Micro)

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REPORT

NAME : NAYANA SURTI (61Y/F)
REF. BY : SELF
TEST ASKED : HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
(5600250846),RELAX HEALTHCARE SERVICES INDIA PVT LTD,NO 25/2,NORRIS ROAD, RICHMOND TOWN,BENGALURU, KARNATAKA 560025, INDIA,560025

TEST NAME	VALUE	UNITS	REFERENCE RANGE
TOTAL LEUCOCYTES COUNT	7.34	X 10³ / µL	4.0-10.0
NEUTROPHILS	64.1	%	40-80
LYMPHOCYTE PERCENTAGE	27	%	20.0-40.0
MONOCYTES	3.5	%	0.0-10.0
EOSINOPHILS	4.1	%	0.0-6.0
BASOPHILS	1	%	<2
IMMATURE GRANULOCYTE PERCENTAGE(IG%)	0.3	%	0.0-0.4
NEUTROPHILS - ABSOLUTE COUNT	4.7	X 10³ / µL	2.0-7.0
LYMPHOCYTES - ABSOLUTE COUNT	1.98	X 10³ / µL	1.0-3.0
MONOCYTES - ABSOLUTE COUNT	0.26	X 10³ / µL	0.2-1.0
BASOPHILS - ABSOLUTE COUNT	0.07	X 10³ / µL	0.02-0.1
EOSINOPHILS - ABSOLUTE COUNT	0.3	X 10³ / µL	0.02-0.5
IMMATURE GRANULOCYTES(IG)	0.02	X 10³ / µL	0.0-0.3
TOTAL RBC	4.55	X 10^6/µL	3.9-4.8
NUCLEATED RED BLOOD CELLS	Nil	X 10³ / µL	<0.01
NUCLEATED RED BLOOD CELLS %	Nil	%	<0.01
HEMOGLOBIN	12	g/dL	12.0-15.0
HEMATOCRIT(PCV)	37.1	%	36.0-46.0
MEAN CORPUSCULAR VOLUME(MCV)	**81.5**	**fL**	**83.0-101.0**
MEAN CORPUSCULAR HEMOGLOBIN(MCH)	**26.4**	**pg**	**27.0-32.0**
MEAN CORP.HEMO.CONC(MCHC)	32.3	g/dL	31.5-34.5
RED CELL DISTRIBUTION WIDTH - SD(RDW-SD)	44.5	fL	39.0-46.0
RED CELL DISTRIBUTION WIDTH (RDW-CV)	**14.9**	**%**	**11.6-14.0**
PLATELET DISTRIBUTION WIDTH(PDW)	10.9	fL	9.6-15.2
MEAN PLATELET VOLUME(MPV)	10.3	fL	6.5-12
PLATELET COUNT	378	X 10³ / µL	150-400
PLATELET TO LARGE CELL RATIO(PLCR)	26.9	%	19.7-42.4
PLATELETCRIT(PCT)	0.39	%	0.19-0.39

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) : 04 Mar 2021 13:25
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