PROCESSED AT :
Thyrocare
D-37/1,TTC MIDC,Turbhe,
Navi Mumbai-400 703

Thyrocare
Tests you can trust

NAME : ANITA RAJ KARN (50Y/F)
REF. BY : SELF
TEST ASKED : HEALTH CHECKUP B

SAMPLE COLLECTED AT :
AYUSH HEALTH CENTRE BHARUCH

TEST NAME	TECHNOLOGY	VALUE	UNITS	Bio. Ref. Interval.
TOTAL CHOLESTEROL	PHOTOMETRY	189	mg/dL	< 200
HDL CHOLESTEROL - DIRECT	PHOTOMETRY	48	mg/dL	40-60
HDL / LDL RATIO	**CALCULATED**	**0.39**	**Ratio**	**> 0.40**
LDL CHOLESTEROL - DIRECT	**PHOTOMETRY**	**123**	**mg/dL**	**< 100**
TRIG / HDL RATIO	**CALCULATED**	**3.28**	**Ratio**	**< 3.12**
TRIGLYCERIDES	**PHOTOMETRY**	**156**	**mg/dL**	**< 150**
TC/ HDL CHOLESTEROL RATIO	CALCULATED	4	Ratio	3 - 5
LDL / HDL RATIO	CALCULATED	2.6	Ratio	1.5-3.5
VLDL CHOLESTEROL	CALCULATED	31.26	mg/dL	5 - 40
NON-HDL CHOLESTEROL	CALCULATED	141.6	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.

Sample Collected on (SCT) : 25 Feb 2024 12:31
Sample Received on (SRT) : 25 Feb 2024 18:19
Report Released on (RRT) : 25 Feb 2024 21:37
Sample Type : SERUM
Labcode : 2502097417/A3833
Barcode : BC506467

Dr Sachin Patil MD(Path)

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TEST NAME	TECHNOLOGY	VALUE	UNITS	Bio. Ref. Interval.
ALKALINE PHOSPHATASE	PHOTOMETRY	94.4	U/L	45-129
BILIRUBIN - TOTAL	PHOTOMETRY	0.3	mg/dL	0.3-1.2
BILIRUBIN -DIRECT	PHOTOMETRY	0.1	mg/dL	< 0.3
BILIRUBIN (INDIRECT)	CALCULATED	0.2	mg/dL	0-0.9
GAMMA GLUTAMYL TRANSFERASE (GGT)	PHOTOMETRY	21.5	U/L	< 38
SGOT / SGPT RATIO	CALCULATED	1.36	Ratio	< 2
ASPARTATE AMINOTRANSFERASE (SGOT)	**PHOTOMETRY**	**72.5**	**U/L**	**< 31**
ALANINE TRANSAMINASE (SGPT)	**PHOTOMETRY**	**53.3**	**U/L**	**< 34**
PROTEIN - TOTAL	**PHOTOMETRY**	**8.48**	**gm/dL**	**5.7-8.2**
ALBUMIN - SERUM	PHOTOMETRY	4.41	gm/dL	3.2-4.8
SERUM GLOBULIN	**CALCULATED**	**4.07**	**gm/dL**	**2.5-3.4**
SERUM ALB/GLOBULIN RATIO	CALCULATED	1.08	Ratio	0.9 - 2

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 Bcg[1]method (Colorimetric Assay Endpoint)
SEGB - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES
A/GR - Derived from serum Albumin and Protein values

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TEST ASKED : HEALTH CHECKUP B

SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS
IRON	PHOTOMETRY	112.8	µg/dL

Bio. Ref. Interval. :
Male : 65 - 175
Female : 50 - 170
Method : Ferrozine method without deproteinization

Please correlate with clinical conditions.

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TEST NAME	TECHNOLOGY	VALUE	UNITS	Bio. Ref. Interval.
UREA (CALCULATED)	CALCULATED	19.75	mg/dL	Adult : 17-43
BLOOD UREA NITROGEN (BUN)	PHOTOMETRY	9.23	mg/dL	7.94 - 20.07
UREA / SR.CREATININE RATIO	CALCULATED	37.98	Ratio	< 52
CREATININE - SERUM	**PHOTOMETRY**	**0.52**	**mg/dL**	**0.55-1.02**
BUN / SR.CREATININE RATIO	CALCULATED	17.75	Ratio	9:1-23:1
CALCIUM	PHOTOMETRY	9.15	mg/dL	8.8-10.6
URIC ACID	PHOTOMETRY	5.21	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

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REF. BY : SELF
TEST ASKED : HEALTH CHECKUP B

SAMPLE COLLECTED AT :
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TEST NAME	TECHNOLOGY	VALUE	UNITS	Bio. Ref. Interval.
TOTAL TRIIODOTHYRONINE (T3)	C.L.I.A	115	ng/dL	60-200
TOTAL THYROXINE (T4)	C.L.I.A	8.7	µg/dL	4.5-12
THYROID STIMULATING HORMONE (TSH)	C.L.I.A	2.58	µIU/mL	0.3-5.5

Comments : SUGGESTING THYRONORMALCY

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

Method :

T3 - Competitive Chemi Luminescent Immuno Assay
T4 - Competitive Chemi Luminescent Immuno Assay
TSH - Sandwich Chemi Luminescent Immuno Assay

Pregnancy reference ranges for TSH/USTSH :
Trimester || T3 (ng/dl) || T4 (µg/dl) || TSH/USTSH (µIU/ml)
1st || 83.9-196.6 || 4.4-11.5 || 0.1-2.5
2nd || 86.1-217.4 || 4.9-12.2 || 0.2-3.0
3rd || 79.9-186 || 5.1-13.2 || 0.3-3.5

References :

1. Carol Devilia, C I Parhon. First Trimester Pregnancy ranges for Serum TSH and Thyroid Tumor reclassified as Benign. Acta Endocrinol. 2016; 12(2) : 242 - 243
2. Kulhari K, Negi R, Kalra DK et al. Establishing Trimester specific Reference ranges for thyroid hormones in Indian women with normal pregnancy : New light through old window. Indian Journal of Contemporary medical research. 2019; 6(4)

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	111	mL/min/1.73 m2

Bio. Ref. Interval. :-

> = 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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*9 out of 10 Doctors Trust that Thyrocare Reports are **Accurate & Reliable***

NAME : ANITA RAJ KARN (50Y/F)
REF. BY : SELF
TEST ASKED : HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
AYUSH HEALTH CENTRE BHARUCH

TEST NAME	TECHNOLOGY	VALUE	UNITS
HbA1c - (HPLC)			
	H.P.L.C	**5.8**	**%**

Bio. Ref. Interval. :

Bio. Ref. Interval.: 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	120	mg/dL

Bio. Ref. Interval. :

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) : 25 Feb 2024 12:31
Sample Received on (SRT) : 25 Feb 2024 18:18
Report Released on (RRT) : 25 Feb 2024 19:25
Sample Type : EDTA
Labcode : 2502097385/A3833
Barcode : BU874834

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NAME : ANITA RAJ KARN (50Y/F)
REF. BY : SELF
TEST ASKED : HbA1c,HEMOGRAM

SAMPLE COLLECTED AT :
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TEST NAME	VALUE	UNITS	Bio. Ref. Interval.
TOTAL LEUCOCYTES COUNT (WBC)	5.89	X 10³ / µL	4.0 - 10.0
NEUTROPHILS	46.6	%	40-80
LYMPHOCYTE	**46.5**	**%**	**20-40**
MONOCYTES	3.4	%	2-10
EOSINOPHILS	2.9	%	1-6
BASOPHILS	0.3	%	0-2
IMMATURE GRANULOCYTE PERCENTAGE(IG%)	0.3	%	0.0-0.4
NEUTROPHILS - ABSOLUTE COUNT	2.74	X 10³ / µL	2.0-7.0
LYMPHOCYTES - ABSOLUTE COUNT	2.74	X 10³ / µL	1.0-3.0
MONOCYTES - ABSOLUTE COUNT	0.2	X 10³ / µL	0.2 - 1.0
BASOPHILS - ABSOLUTE COUNT	0.02	X 10³ / µL	0.02 - 0.1
EOSINOPHILS - ABSOLUTE COUNT	0.17	X 10³ / µL	0.02 - 0.5
IMMATURE GRANULOCYTES(IG)	0.02	X 10³ / µL	0.0-0.3
TOTAL RBC	**3.72**	**X 10^6/µL**	**3.8-4.8**
NUCLEATED RED BLOOD CELLS	0.01	X 10³ / µL	0.0-0.5
NUCLEATED RED BLOOD CELLS %	0.01	%	0.0-5.0
HEMOGLOBIN	12.3	g/dL	12.0-15.0
HEMATOCRIT(PCV)	42.3	%	36.0-46.0
MEAN CORPUSCULAR VOLUME(MCV)	**113.7**	**fL**	**83.0-101.0**
MEAN CORPUSCULAR HEMOGLOBIN(MCH)	**33.1**	**pq**	**27.0-32.0**
MEAN CORP.HEMO.CONC(MCHC)	**29.1**	**g/dL**	**31.5-34.5**
RED CELL DISTRIBUTION WIDTH - SD(RDW-SD)	**61.8**	**fL**	**39.0-46.0**
RED CELL DISTRIBUTION WIDTH (RDW-CV)	**14.8**	**%**	**11.6-14.0**
PLATELET DISTRIBUTION WIDTH(PDW)	**16.9**	**fL**	**9.6-15.2**
MEAN PLATELET VOLUME(MPV)	**12.7**	**fL**	**6.5-12**
PLATELET COUNT	219	X 10³ / µL	150-410
PLATELET TO LARGE CELL RATIO(PLCR)	**46.2**	**%**	**19.7-42.4**
PLATELETCRIT(PCT)	0.28	%	0.19-0.39

Remarks : Alert!!! Predominantly macrocytic normochromic with macroovalocytes. 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 ~~

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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**

*As per a survey on doctors' perception of laboratory diagnostics (IJARIIT,2023)