

SUBURBAN DIAGNOSTICS - G B ROAD, THANE WEST



Patient Name: PALLAVI MAHESH SAPKAL
Patient ID: 2232500963

Date and Time: 21st Nov 22 10:01 AM

Age **34** **3** **14**
years months days

Gender **Female**

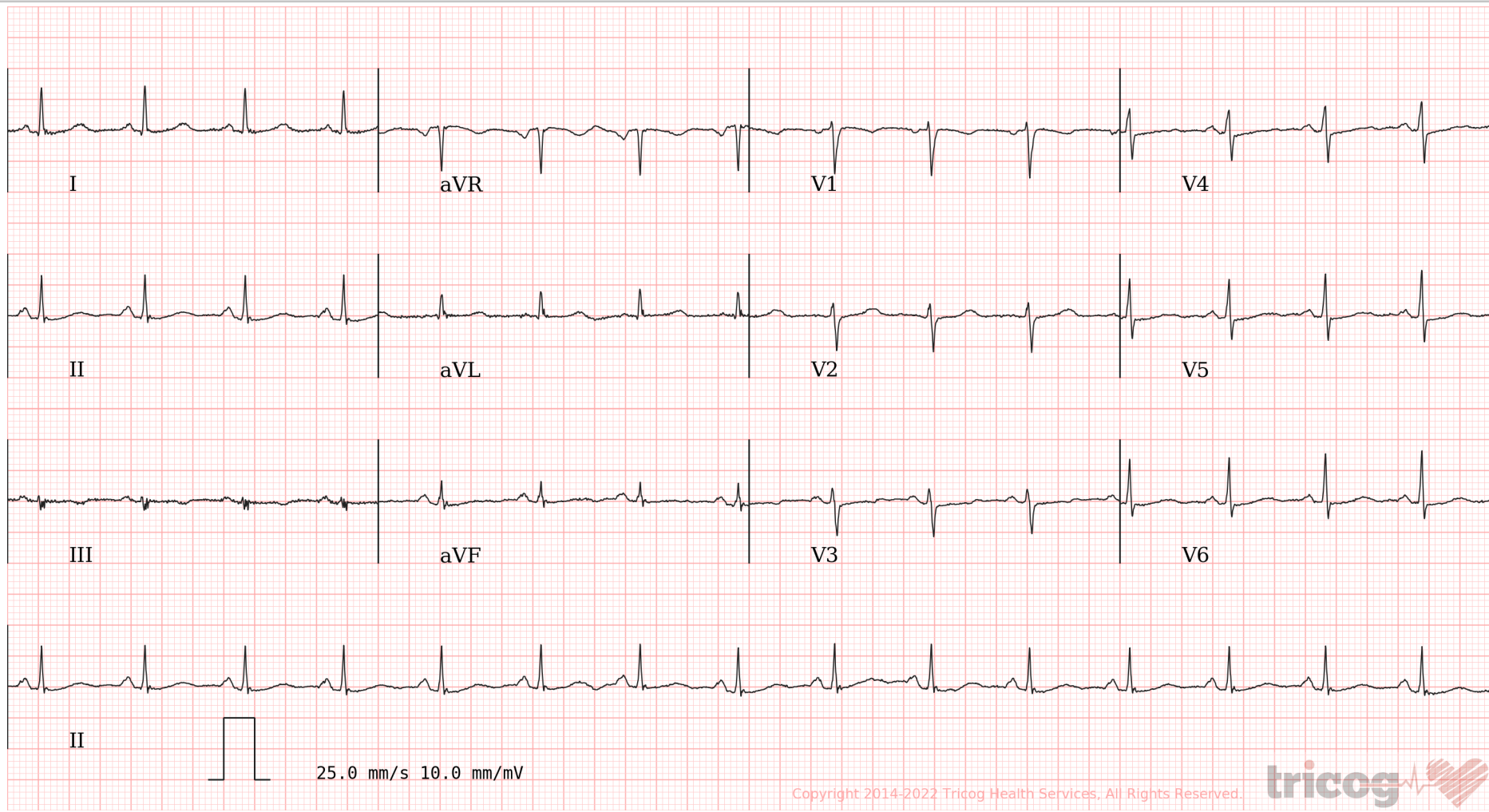
Heart Rate **94bpm**

Patient Vitals

BP: NA
Weight: NA
Height: NA
Pulse: NA
Spo2: NA
Resp: NA
Others: _____

Measurements

QRSD: 66ms
QT: 378ms
QTc: 472ms
PR: 130ms
P-R-T: 56° 27° 20°



Copyright 2014-2022 Tricog Health Services, All Rights Reserved.



Sinus Rhythm, Normal Axis, Nonspecific T wave Abnormality. Please correlate clinically.

REPORTED BY

DR SHAILAJA PILLAI
MBBS, MD Physican
MD Physican
49972

Disclaimer: 1) Analysis in this report is based on ECG alone and should be used as an adjunct to clinical history, symptoms, and results of other invasive and non-invasive tests and must be interpreted by a qualified physician. 2) Patient vitals are as entered by the clinician and not derived from the ECG.



CID : 2232500963
Name : Mrs PALLAVI MAHESH SAPKAL
Age / Sex : 34 Years/Female
Ref. Dr :
Reg. Location : G B Road, Thane West Main Centre

Reg. Date : 21-Nov-2022
Reported : 21-Nov-2022/16:07

USG WHOLE ABDOMEN

LIVER: Liver appears enlarged in size (16.3 cm) and shows increased echoreflectivity. There is no intra-hepatic biliary radical dilatation. No evidence of any focal lesion.

GALL BLADDER: Gall bladder is contracted.

PORTAL VEIN: Portal vein is normal. **CBD:** CBD is normal.

PANCREAS: Pancreas appears normal in echotexture. There is no evidence of any focal lesion or calcification. Pancreatic duct is not dilated.

KIDNEYS: Right kidney measures 9.7 x 4.2 cm. Left kidney measures 10.2 x 5.4 cm. Both kidneys are normal in size, shape and echotexture. Corticomedullary differentiation is maintained. There is no evidence of any hydronephrosis, hydroureter or calculus.

SPLEEN: Spleen is normal in size, shape and echotexture. No focal lesion is seen.

URINARY BLADDER: Urinary bladder is distended and normal. Wall thickness is within normal limits.

UTERUS: Uterus is anteverted and measures 6.8 x 3.8 x 3.4 cm. Uterine myometrium shows homogenous echotexture. Endometrial echo is in midline and measures 7.8 mm. Cervix appears normal.

OVARIES: Both ovaries are normal. Bilateral adnexa are clear.

No free fluid or significant lymphadenopathy is seen.

IMPRESSION:

Click here to view images <http://3.111.232.119/iRISViewer/NeoradViewer?AccessionNo=2022112109401217>



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : Mrs PALLAVI MAHESH SAPKAL
Age / Sex : 34 Years/Female
Ref. Dr :
Reg. Location : G B Road, Thane West Main Centre
Reg. Date : 21-Nov-2022
Reported : 21-Nov-2022/16:07

HEPATOMEGALY WITH GRADE I FATTY INFILTRATION OF LIVER.

Note:Investigations have their limitations. Solitary radiological investigations never confirm the final diagnosis. They only help in diagnosing the disease in correlation to clinical symptoms and other related tests. USG is known to have inter-observer variations. Further/follow-up imaging may be needed in some cases for confirmation / exclusion of diagnosis.

-----End of Report-----

This report is prepared and physically checked by DR GAURAV FARTADE before dispatch.

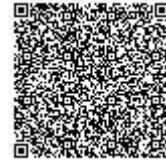
Dr.GAURAV FARTADE
MBBS, DMRE
Reg No -2014/04/1786
Consultant Radiologist



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : Mrs PALLAVI MAHESH SAPKAL
Age / Sex : 34 Years/Female
Ref. Dr :
Reg. Location : G B Road, Thane West Main Centre

Reg. Date : 21-Nov-2022
Reported : 21-Nov-2022/16:07



CID : 2232500963
Name : Mrs PALLAVI MAHESH SAPKAL
Age / Sex : 34 Years/Female
Ref. Dr :
Reg. Location : G B Road, Thane West Main Centre

Reg. Date : 21-Nov-2022
Reported : 21-Nov-2022/10:19

X-RAY CHEST PA VIEW

Both lung fields are clear.

Both costo-phrenic angles are clear.

The cardiac size and shape are within normal limits.

The domes of diaphragm are normal in position and outlines.

The skeleton under review appears normal.

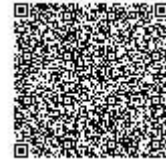
IMPRESSION:

NO SIGNIFICANT ABNORMALITY IS DETECTED.

-----End of Report-----

This report is prepared and physically checked by DR. FAIZUR KHILJI before dispatch.

Dr.FAIZUR KHILJI
MBBS,RADIO DIAGNOSIS
Reg No-74850
Consultant Radiologist



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : Mrs PALLAVI MAHESH SAPKAL
Age / Sex : 34 Years/Female
Ref. Dr :
Reg. Location : G B Road, Thane West Main Centre

Reg. Date : 21-Nov-2022
Reported : 21-Nov-2022/10:19



CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 11:33

Use a QR Code Scanner
Application To Scan the Code

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
<u>RBC PARAMETERS</u>			
Haemoglobin	12.3	12.0-15.0 g/dL	Spectrophotometric
RBC	4.74	3.8-4.8 mil/cmm	Elect. Impedance
PCV	37.4	36-46 %	Measured
MCV	79	80-100 fl	Calculated
MCH	26.0	27-32 pg	Calculated
MCHC	33.0	31.5-34.5 g/dL	Calculated
RDW	12.7	11.6-14.0 %	Calculated
<u>WBC PARAMETERS</u>			
WBC Total Count	11500	4000-10000 /cmm	Elect. Impedance
<u>WBC DIFFERENTIAL AND ABSOLUTE COUNTS</u>			
Lymphocytes	32.1	20-40 %	
Absolute Lymphocytes	3691.5	1000-3000 /cmm	Calculated
Monocytes	9.0	2-10 %	
Absolute Monocytes	1035.0	200-1000 /cmm	Calculated
Neutrophils	55.2	40-80 %	
Absolute Neutrophils	6348.0	2000-7000 /cmm	Calculated
Eosinophils	3.6	1-6 %	
Absolute Eosinophils	414.0	20-500 /cmm	Calculated
Basophils	0.1	0.1-2 %	
Absolute Basophils	11.5	20-100 /cmm	Calculated
Immature Leukocytes	-		
WBC Differential Count by Absorbance & Impedance method/Microscopy.			
<u>PLATELET PARAMETERS</u>			
Platelet Count	438000	150000-400000 /cmm	Elect. Impedance
MPV	9.1	6-11 fl	Calculated
PDW	15.5	11-18 %	Calculated



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 11:24

RBC MORPHOLOGY

Hypochromia	Mild
Microcytosis	Occasional
Macrocytosis	-
Anisocytosis	-
Poikilocytosis	-
Polychromasia	-
Target Cells	-
Basophilic Stippling	-
Normoblasts	-
Others	-
WBC MORPHOLOGY	-
PLATELET MORPHOLOGY	-
COMMENT	-

Specimen: EDTA Whole Blood

ESR, EDTA WB 14 2-20 mm at 1 hr. Westergren

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West
*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 13:09

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	164.1	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	357.5	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.25	0.1-1.2 mg/dl	Diazo
BILIRUBIN (DIRECT), Serum	0.11	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.14	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	6.7	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.2	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.5	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.7	1 - 2	Calculated
SGOT (AST), Serum	11.2	5-32 U/L	IFCC without pyridoxal phosphate activation
SGPT (ALT), Serum	7.2	5-33 U/L	IFCC without pyridoxal phosphate activation
GAMMA GT, Serum	14.5	3-40 U/L	IFCC
ALKALINE PHOSPHATASE, Serum	57.7	35-105 U/L	PNPP
BLOOD UREA, Serum	11.8	12.8-42.8 mg/dl	Urease & GLDH
BUN, Serum	5.5	6-20 mg/dl	Calculated



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 12:34
Reported : 21-Nov-2022 / 15:22

CREATININE, Serum	0.56	0.51-0.95 mg/dl	Enzymatic
eGFR, Serum	132	>60 ml/min/1.73sqm	Calculated
URIC ACID, Serum	4.2	2.4-5.7 mg/dl	Uricase
Urine Sugar (Fasting)	Absent	Absent	
Urine Ketones (Fasting)	Absent	Absent	
Urine Sugar (PP)	++	Absent	
Urine Ketones (PP)	Absent	Absent	

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West
*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



CID : 2232500963
 Name : MRS.PALLAVI MAHESH SAPKAL
 Age / Gender : 34 Years / Female
 Consulting Dr. : -
 Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
 Reported : 21-Nov-2022 / 11:54

Use a QR Code Scanner
 Application To Scan the Code

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
GLYCOSYLATED HEMOGLOBIN (HbA1c)

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	7.2	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	159.9	mg/dl	Calculated

Kindly correlate clinically.



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 11:54

Intended use:

- In patients who are meeting treatment goals, HbA1c test should be performed at least 2 times a year
- In patients whose therapy has changed or who are not meeting glycemic goals, it should be performed quarterly
- For microvascular disease prevention, the HbA1C goal for non pregnant adults in general is Less than 7%.

Clinical Significance:

- HbA1c, Glycosylated hemoglobin or glycated hemoglobin, is hemoglobin with glucose molecule attached to it.
- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of glycosylated hemoglobin in the blood.

Test Interpretation:

- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of Glycosylated hemoglobin in the blood.
- HbA1c test may be used to screen for and diagnose diabetes or risk of developing diabetes.
- To monitor compliance and long term blood glucose level control in patients with diabetes.
- Index of diabetic control, predicting development and progression of diabetic micro vascular complications.

Factors affecting HbA1c results:

Increased in: High fetal hemoglobin, Chronic renal failure, Iron deficiency anemia, Splenectomy, Increased serum triglycerides, Alcohol ingestion, Lead/opiate poisoning and Salicylate treatment.

Decreased in: Shortened RBC lifespan (Hemolytic anemia, blood loss), following transfusions, pregnancy, ingestion of large amount of Vitamin E or Vitamin C and Hemoglobinopathies

Reflex tests: Blood glucose levels, CGM (Continuous Glucose monitoring)

References: ADA recommendations, AACC, Wallach's interpretation of diagnostic tests 10th edition.

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West

*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 12:59

Use a QR Code Scanner
Application To Scan the Code

**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
EXAMINATION OF FAECES**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>
<u>PHYSICAL EXAMINATION</u>		
Colour	Brown	Brown
Form and Consistency	Semi Solid	Semi Solid
Mucus	Absent	Absent
Blood	Absent	Absent
<u>CHEMICAL EXAMINATION</u>		
Reaction (pH)	Acidic (6.0)	-
Occult Blood	Absent	Absent
<u>MICROSCOPIC EXAMINATION</u>		
Protozoa	Absent	Absent
Flagellates	Absent	Absent
Ciliates	Absent	Absent
Parasites	Absent	Absent
Macrophages	Absent	Absent
Mucus Strands	Absent	Absent
Fat Globules	Absent	Absent
RBC/hpf	Absent	Absent
WBC/hpf	Absent	Absent
Yeast Cells	Absent	Absent
Undigested Particles	Present +	-
Concentration Method (for ova)	No ova detected	Absent
Reducing Substances	-	Absent

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West

*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 12:09

Use a QR Code Scanner
Application To Scan the Code

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
URINE EXAMINATION REPORT

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
<u>PHYSICAL EXAMINATION</u>			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	Acidic (6.0)	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.015	1.010-1.030	Chemical Indicator
Transparency	Slight hazy	Clear	-
Volume (ml)	20	-	-
<u>CHEMICAL EXAMINATION</u>			
Proteins	Absent	Absent	pH Indicator
Glucose	Absent	Absent	GOD-POD
Ketones	Absent	Absent	Legals Test
Blood	Absent	Absent	Peroxidase
Bilirubin	Absent	Absent	Diazonium Salt
Urobilinogen	Normal	Normal	Diazonium Salt
Nitrite	Absent	Absent	Griess Test
<u>MICROSCOPIC EXAMINATION</u>			
Leukocytes(Pus cells)/hpf	2-3	0-5/hpf	
Red Blood Cells / hpf	Absent	0-2/hpf	
Epithelial Cells / hpf	10-12		
Casts	Absent	Absent	
Crystals	Absent	Absent	
Amorphous debris	Absent	Absent	
Bacteria / hpf	4-5	Less than 20/hpf	

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West
*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



Use a QR Code Scanner
Application To Scan the Code

CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 13:09

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
BLOOD GROUPING & Rh TYPING

<u>PARAMETER</u>	<u>RESULTS</u>
ABO GROUP	A
Rh TYPING	Positive

NOTE: Test performed by Semi- automated column agglutination technology (CAT)

Specimen: EDTA Whole Blood and/or serum

Clinical significance:

ABO system is most important of all blood group in transfusion medicine

Limitations:

- ABO blood group of new born is performed only by cell (forward) grouping because allo antibodies in cord blood are of maternal origin.
- Since A & B antigens are not fully developed at birth, both Anti-A & Anti-B antibodies appear after the first 4 to 6 months of life. As a result, weaker reactions may occur with red cells of newborns than of adults.
- Confirmation of newborn's blood group is indicated when A & B antigen expression and the isoagglutinins are fully developed at 2 to 4 years of age & remains constant throughout life.
- Cord blood is contaminated with Wharton's jelly that causes red cell aggregation leading to false positive result
- The Hh blood group also known as Oh or Bombay blood group is rare blood group type. The term Bombay is used to refer the phenotype that lacks normal expression of ABH antigens because of inheritance of hh genotype.

References:

1. Denise M Harmening, Modern Blood Banking and Transfusion Practices- 6th Edition 2012. F.A. Davis company. Philadelphia
2. AABB technical manual

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West

*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 13:41

Use a QR Code Scanner
Application To Scan the Code

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
LIPID PROFILE

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	171.8	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	217.0	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	GPO-POD
HDL CHOLESTEROL, Serum	34.5	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Homogeneous enzymatic colorimetric assay
NON HDL CHOLESTEROL, Serum	137.3	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	110.5	Optimal: <100 mg/dl Near Optimal: 100 - 129 mg/dl Borderline High: 130 - 159 mg/dl High: 160 - 189 mg/dl Very High: >/= 190 mg/dl	Calculated
VLDL CHOLESTEROL, Serum	26.8	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	5.0	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	3.2	0-3.5 Ratio	Calculated

Note : LDL test is performed by direct measurement.

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West

*** End Of Report ***



Amit Taori

Dr. AMIT TAORI
M.D (Path)
Pathologist



CID : 2232500963
 Name : MRS.PALLAVI MAHESH SAPKAL
 Age / Gender : 34 Years / Female
 Consulting Dr. : -
 Reg. Location : G B Road, Thane West (Main Centre)

Collected : 21-Nov-2022 / 09:40
 Reported : 21-Nov-2022 / 12:54

Use a QR Code Scanner
 Application To Scan the Code

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
THYROID FUNCTION TESTS

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
Free T3, Serum	3.5	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	15.2	11.5-22.7 pmol/L First Trimester:9.0-24.7 Second Trimester:6.4-20.59 Third Trimester:6.4-20.59	ECLIA
sensitiveTSH, Serum	1.64	0.35-5.5 microIU/ml First Trimester:0.1-2.5 Second Trimester:0.2-3.0 Third Trimester:0.3-3.0	ECLIA



CID : 2232500963
Name : MRS.PALLAVI MAHESH SAPKAL
Age / Gender : 34 Years / Female
Consulting Dr. : -
Reg. Location : G B Road, Thane West (Main Centre)

Use a QR Code Scanner Application To Scan the Code
Collected : 21-Nov-2022 / 09:40
Reported : 21-Nov-2022 / 12:54

Interpretation:

A thyroid panel is used to evaluate thyroid function and/or help diagnose various thyroid disorders.

Clinical Significance:

- 1)TSH Values between high abnormal upto15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors can give falsely high TSH.
- 2)TSH values may be trasiently altered becuase of non thyroidal illness like severe infections,liver disease, renal and heart severe burns, trauma and surgery etc.

TSH	FT4 / T4	FT3 / T3	Interpretation
High	Normal	Normal	Subclinical hypothyroidism, poor compliance with thyroxine, drugs like amiodarone, Recovery phase of non-thyroidal illness, TSH Resistance.
High	Low	Low	Hypothyroidism, Autoimmune thyroiditis, post radio iodine Rx, post thyroidectomy, Anti thyroid drugs, tyrosine kinase inhibitors & amiodarone, amyloid deposits in thyroid, thyroid tumors & congenital hypothyroidism.
Low	High	High	Hyperthyroidism, Graves disease, toxic multinodular goiter, toxic adenoma, excess iodine or thyroxine intake, pregnancy related (hyperemesis gravidarum, hydatiform mole)
Low	Normal	Normal	Subclinical Hyperthyroidism, recent Rx for Hyperthyroidism, drugs like steroids & dopamine), Non thyroidal illness.
Low	Low	Low	Central Hypothyroidism, Non Thyroidal Illness, Recent Rx for Hyperthyroidism.
High	High	High	Interfering anti TPO antibodies, Drug interference: Amiodarone, Heparin, Beta Blockers, steroids & anti epileptics.

Diurnal Variation:TSH follows a diurnal rhythm and is at maximum between 2 am and 4 am , and is at a minimum between 6 pm and 10 pm. The variation is on the order of 50 to 206%. Biological variation:19.7%(with in subject variation)

Reflex Tests:Anti thyroid Antibodies,USG Thyroid ,TSH receptor Antibody. Thyroglobulin, Calcitonin

Limitations:

1. Samples should not be taken from patients receiving therapy with high biotin doses (i.e. >5 mg/day) until atleast 8 hours following the last biotin administration.
2. Patient samples may contain heterophilic antibodies that could react in immunoassays to give falsely elevated or depressed results. this assay is designed to minimize interference from heterophilic antibodies.

Reference:

- 1.O.koulouri et al. / Best Practice and Research clinical Endocrinology and Metabolism 27(2013)
- 2.Interpretation of the thyroid function tests, Dayan et al. THE LANCET . Vol 357
- 3.Tietz ,Text Book of Clinical Chemistry and Molecular Biology -5th Edition
- 4.Biological Variation:From principles to Practice-Callum G Fraser (AACC Press)

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West
*** End Of Report ***



Amit Taori

Dr.AMIT TAORI
M.D (Path)
Pathologist