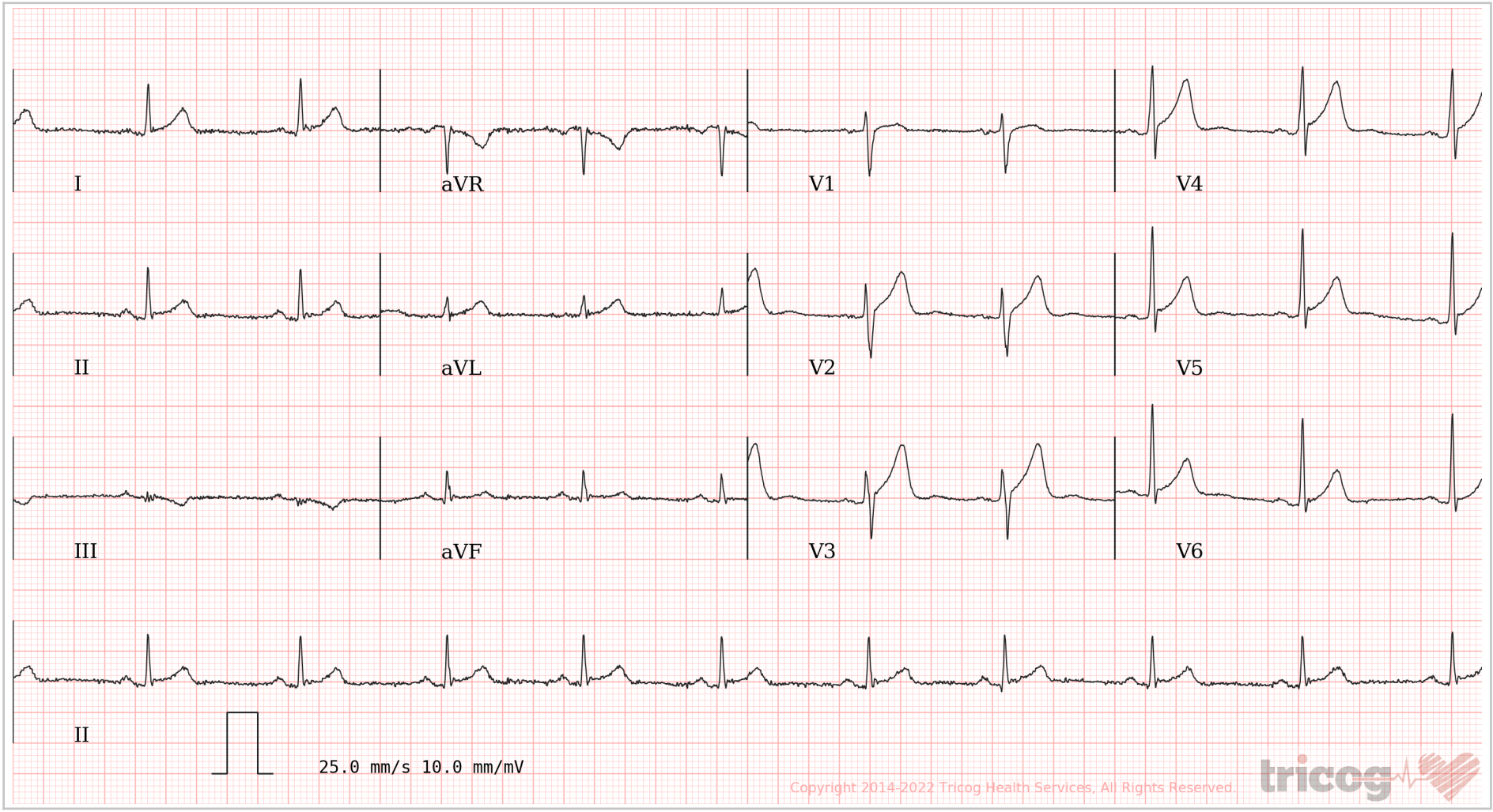
SUBURBAN DIAGNOSTICS - KALINA, SANTACRUZ EAST

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Patient Name: FEROZ AHMAD
Patient ID: 2203801538

Date and Time: 7th Feb 22 10:46 AM



Age 34 years 4 months 28 days

Gender Male

Heart Rate 63 bpm

Patient Vitals

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

Measurements

QSRD:	74 ms
QT:	362 ms
QTc:	370 ms
PR:	148 ms
P-R-T:	65° 30° 18°

ECG Within Normal Limits: Sinus Rhythm, Normal Axis.Please correlate clinically.

REPORTED BY

DR SONALI HONRAO
MD (General Medicine)
Physician
2001/04/1882

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

R E P O R T

CID	: 2203801538		
Name	: Mr FEROZ AHMAD		
Age / Sex	: 34 Years/Male		
Ref. Dr	:	**Reg. Date**	: 07-Feb-2022 / 10:31
Reg. Location	: Kalina, Santacruz East Main Centre	**Reported**	: 07-Feb-2022 / 12:31

USG WHOLE ABDOMEN

LIVER:
The liver is normal in size, shape and smooth margins. **It shows bright parenchymal echo pattern**.The intra hepatic biliary and portal radical appear normal. No evidence of any intra hepatic cystic or solid lesion seen.The main portal vein and CBD appears normal.

GALL BLADDER:
The gall bladder is physiologically distended and appears normal.No evidence of gall stones or mass lesions seen

PANCREAS:
The pancreas is well visualised and appears normal.No evidence of solid or cystic mass lesion.

KIDNEYS:
Both the kidneys are normal in size shape and echotexture.
No evidence of any calculus, hydronephrosis or mass lesion seen.
Right kidney measures 10.4 x 4.9 cm. Left kidney measures 9.1 x 5.2 cm.

SPLEEN:
The spleen is normal in size and echotexture. No evidence of focal lesion is noted.
There is no evidence of any lymphadenopathy or ascites.

URINARY BLADDER: The urinary bladder is well distended and reveal no intraluminal abnormality.

PROSTATE:
The prostate is normal in size 3.9 x 2.8 x 2.7 cm and volume is 16 cc.

IMPRESSION:
Mild fatty Liver .

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

Dr. Asha Rajendra Dhavan
MBBS, DMRE
Reg No: 2489
Consultant Radiologist

ADDRESS: 2nd Floor, Aston, Sundervan Complex, Above Mercedes Showroom, Andheri West - 400053
HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343
For Feedback - customerservice@suburbandiagnostics.com | www.suburbandiagnostics.com

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

REPORT

CID	: 2203801538		
Name	: Mr FEROZ AHMAD		
Age / Sex	: 34 Years/Male		
Ref. Dr	:	**Reg. Date**	: 07-Feb-2022 / 10:31
Reg. Location	: Kalina, Santacruz East Main Centre	**Reported**	: 07-Feb-2022 / 12:31

Click here to view images http://202.143.96.162/Suburban/Viewer?ViewerType=3&AccessionNo=2022020710081959 **Page 2of 2**

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

R E P O R T

CID	: 2203801538		
Name	: Mr FEROZ AHMAD		
Age / Sex	: 34 Years/Male		
Ref. Dr	:	**Reg. Date**	: 07-Feb-2022 / 10:31
Reg. Location	: Kalina, Santacruz East Main Centre	**Reported**	: 07-Feb-2022 / 12:20

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----------

Dr. Asha Rajendra Dhavan
MBBS, DMRE
Reg No: 2489
Consultant Radiologist

Click here to view images http://202.143.96.162/Suburban/Viewer?ViewerType=3&AccessionNo=2022020710081968

ADDRESS: 2nd Floor, Aston, Sundervan Complex, Above Mercedes Showroom, Andheri West - 400053
HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343
For Feedback - customerservice@suburbandiagnostics.com | www.suburbandiagnostics.com

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

REPORT

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 13:22

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
RBC PARAMETERS			
Haemoglobin	14.9	13.0-17.0 g/dL	Spectrophotometric
RBC	5.06	4.5-5.5 mil/cmm	Elect. Impedance
PCV	46.2	40-50 %	Measured
MCV	91.4	80-100 fl	Calculated
MCH	29.5	27-32 pg	Calculated
MCHC	32.3	31.5-34.5 g/dL	Calculated
RDW	**14.9**	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	6220	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND ABSOLUTE COUNTS			
Lymphocytes	**42.8**	20-40 %	
Absolute Lymphocytes	2650	1000-3000 /cmm	Calculated
Monocytes	5.5	2-10 %	
Absolute Monocytes	340	200-1000 /cmm	Calculated
Neutrophils	49.7	40-80 %	
Absolute Neutrophils	3080	2000-7000 /cmm	Calculated
Eosinophils	1.3	1-6 %	
Absolute Eosinophils	80	20-500 /cmm	Calculated
Basophils	0.7	0.1-2 %	
Absolute Basophils	50	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS			
Platelet Count	180000	150000-400000 /cmm	Elect. Impedance
MPV	**13.1**	6-11 fl	Calculated
PDW	**32.1**	11-18 %	Calculated
RBC MORPHOLOGY			
Hypochromia	-		
Microcytosis	-		

ADDRESS: 2nd Floor, Aston, Sundervan Complex, Above Mercedes Showroom, Andheri West - 400053
HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343
For Feedback - customerservice@suburbandiagnostics.com | www.suburbandiagnostics.com

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 12:54

Macrocytosis	-
Anisocytosis	-
Poikilocytosis	-
Polychromasia	-
Target Cells	-
Basophilic Stippling	-
Normoblasts	-
Others	Normocytic,Normochromic
WBC MORPHOLOGY	-
PLATELET MORPHOLOGY	-
COMMENT	-

Specimen: EDTA Whole Blood

ESR, EDTA WB	5	2-15 mm at 1 hr.	Westergren

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

MC-2111

Dr. AMAR DASGUPTA, MD,PhD
Consultant Hematopathologist
Director - Medical Services

Dr.JYOT THAKKER
M.D. (PATH), DPB
Pathologist & AVP(Medical Services)

CAP ACCREDITED
COLLEGE of AMERICAN PATHOLOGISTS

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 12:45

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	89.0	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	65.3	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.36	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.12	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.24	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.4	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.8	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.6	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.8	1 - 2	Calculated
SGOT (AST), Serum	21.5	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	30.7	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	18.5	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	94.8	40-130 U/L	Colorimetric
BLOOD UREA, Serum	23.4	12.8-42.8 mg/dl	Kinetic
BUN, Serum	10.9	6-20 mg/dl	Calculated
CREATININE, Serum	1.11	0.67-1.17 mg/dl	Enzymatic
eGFR, Serum	81	>60 ml/min/1.73sqm	Calculated
URIC ACID, Serum	6.1	3.5-7.2 mg/dl	Enzymatic

ADDRESS: 2nd Floor, Aston, Sundervan Complex, Above Mercedes Showroom, Andheri West - 400053
HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343
For Feedback - customerservice@suburbandiagnostics.com | www.suburbandiagnostics.com

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 14:06
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 17:37

Urine Sugar (Fasting)	Absent	Absent
Urine Ketones (Fasting)	Absent	Absent
Urine Sugar (PP)	Absent	Absent
Urine Ketones (PP)	Absent	Absent

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

ilac-MRA

MC-2111

Dr.ANUPA DIXIT
M.D.(PATH)
Consultant Pathologist & Lab Director

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

REPORT

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 14:18

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

GLYCOSYLATED HEMOGLOBIN (HbA1c)

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	5.2	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	102.5	mg/dl	Calculated

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 CPL, Andheri West

*** End Of Report ***

ilac-MRA

MC-2111

Dr.VRUSHALI SHROFF
M.D.(PATH)
Pathologist

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 19:05

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

EXAMINATION OF FAECES

PARAMETER	RESULTS	BIOLOGICAL REF RANGE
PHYSICAL EXAMINATION		
Colour	Brown	Brown
Form and Consistency	Semi Solid	Semi Solid
Mucus	Absent	Absent
Blood	Absent	Absent
CHEMICAL EXAMINATION		
Reaction (pH)	Acidic (6.5)	-
Occult Blood	**Present**	Absent
MICROSCOPIC EXAMINATION		
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 CPL, Andheri West

*** End Of Report ***

MC-2111

Dr.VRUSHALI SHROFF
M.D.(PATH)
Pathologist

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 16:35

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

URINE EXAMINATION REPORT

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
PHYSICAL EXAMINATION			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	5.0	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.015	1.001-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	30	-	-
CHEMICAL EXAMINATION			
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
MICROSCOPIC EXAMINATION			
Leukocytes(Pus cells)/hpf	1-2	0-5/hpf	
Red Blood Cells / hpf	Absent	0-2/hpf	
Epithelial Cells / hpf	0-1		
Casts	Absent	Absent	
Crystals	Absent	Absent	
Amorphous debris	Absent	Absent	
Bacteria / hpf	2-3	Less than 20/hpf	
Others	-		

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

ilac-MRA

MC-2111

Dr.SHASHIKANT DIGHADE
M.D. (PATH)
Pathologist

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 13:32

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

PARAMETER	RESULTS
ABO GROUP	A
Rh TYPING	POSITIVE

NOTE: Test performed by automated column agglutination technology (CAT) which is more sensitive than conventional methods.

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.

Refernces:

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 CPL, Andheri West

*** End Of Report ***

MC-2111

Dr.JYOT THAKKER
M.D. (PATH), DPB
Pathologist & AVP(Medical Services)

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

REPORT

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 13:04

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

LIPID PROFILE

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	145.1	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	**192.7**	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	**31.2**	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
NON HDL CHOLESTEROL, Serum	113.9	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	75.0	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	**38.9**	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	**4.7**	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.4	0-3.5 Ratio	Calculated

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

MC-2111

M.Sharma

Dr.MEGHA SHARMA
M.D. (PATH), DNB (PATH)
Pathologist

SUBURBAN DIAGNOSTICS
PRECISE TESTING · HEALTHIER LIVING

Authenticity Check

Use a QR Code Scanner Application To Scan the Code

REPORT

CID	: 2203801538		
Name	: MR.FEROZ AHMAD		
Age / Gender	: 34 Years / Male		
Consulting Dr.	: -	**Collected**	: 07-Feb-2022 / 10:07
Reg. Location	: Kalina, Santacruz East (Main Centre)	**Reported**	: 07-Feb-2022 / 12:45

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
THYROID FUNCTION TESTS

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
Free T3, Serum	5.4	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	16.1	11.5-22.7 pmol/L	ECLIA
sensitiveTSH, Serum	2.04	0.35-5.5 microIU/ml	ECLIA

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

Clinical Significance:
1)TSH Values between 5.5 to 15 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: 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.

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 CPL, Andheri West

*** End Of Report ***

ilac-MRA

MC-2111

Dr.ANUPA DIXIT
M.D.(PATH)
Consultant Pathologist & Lab Director