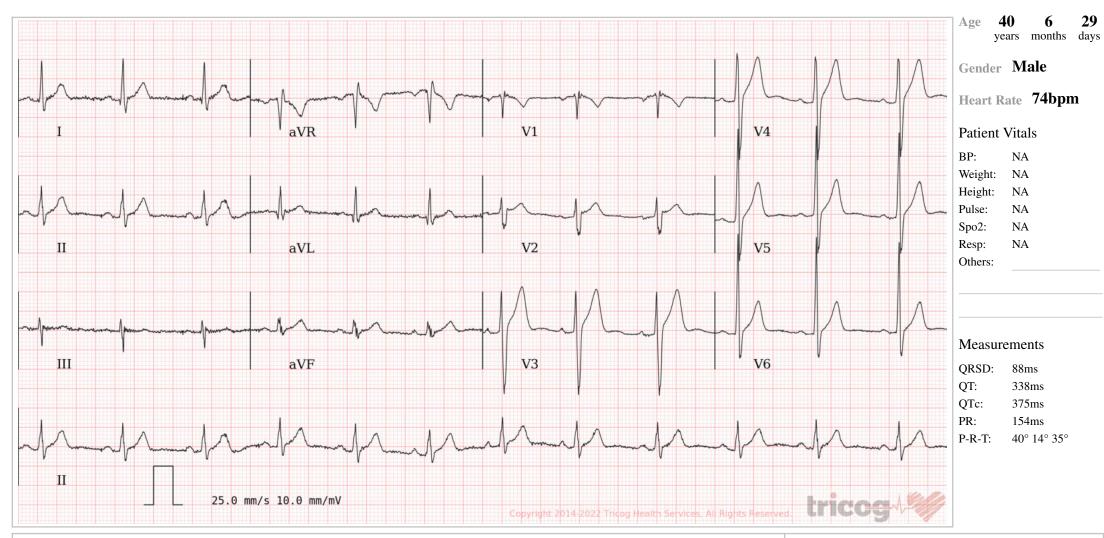
SUBURBAN DIAGNOSTICS - BORIVALI WEST



Patient Name: RAJESH KUMAR

Patient ID: 2225322476

Date and Time: 10th Sep 22 1:55 PM



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

REPORTED BY

Jan.

Dr Nitin Sonavane M.B.B.S.AFLH, D.DIAB,D.CARD Consultant Cardiologist 87714

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.



Name : Mr RAJESH KUMAR

Age / Sex : 40 Years/Male

Ref. Dr :

Reg. Location: Borivali West



R E

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USG WHOLE ABDOMEN

LIVER:

Liver is normal in size, shape and echotexture. There is no intra-hepatic biliary radical dilatation. No evidence of any obvious focal lesion.

GALL BLADDER:

Gall bladder is distended and appears normal. No obvious wall thickening is noted. There is no evidence of any calculus.

PORTAL VEIN: Portal vein is normal (9 mm). CBD: CBD is normal (3.6 mm).

PANCREAS:

Pancreas appears normal in echotexture. There is no evidence of any focal lesion or calcification.

KIDNEYS:

Right kidney measures 10.7 x 5.2 cm. Left kidney measures 10.2 x 4.7 cm.

Both kidneys are normal in 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.

PROSTATE:

Prostate is normal in size and echotexture. Prostate measures 3.2 x 2.7 x 3.0 cm and prostatic weight is 14 gm. No evidence of any obvious focal lesion.

No free fluid or size significant lymphadenopathy is seen.



Name : Mr RAJESH KUMAR

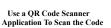
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Reg. Date : 10-Sep-2022

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Opinion:

• No significant abnormality is detected.

For clinical correlation and follow up.

Investigations have their limitations. They only help in diagnosing the disease in correlation to clinical symptoms and other related tests. Please interpret accordingly.

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

This report is prepared and physically checked by DR SUDHANSHU SAXENA before dispatch.

DR.SUDHANSHU SAXENA Consultant Radiologist M.B.B.S DMRE (RadioDiagnosis) RegNo .MMC 2016061376.



Name : Mr RAJESH KUMAR

Age / Sex : 40 Years/Male

Ref. Dr

Reg. Location : Borivali West

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: 10-Sep-2022/10:43 Reported



Name : Mr RAJESH KUMAR

Age / Sex : 40 Years/Male

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Reg. Location: Borivali West



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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.



This report is prepared and physically checked by DR SUDHANSHU SAXENA before dispatch.

DR.SUDHANSHU SAXENA Consultant Radiologist M.B.B.S DMRE (RadioDiagnosis) RegNo .MMC 2016061376.



Name : Mr RAJESH KUMAR

Age / Sex : 40 Years/Male

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Name : MR.RAJESH KUMAR

Age / Gender : 40 Years / Male

Consulting Dr. : -

Reg. Location : Borivali West (Main Centre)



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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	14.6	13.0-17.0 g/dL	Spectrophotometric
RBC	4.77	4.5-5.5 mil/cmm	Elect. Impedance
PCV	45.2	40-50 %	Measured
MCV	95	80-100 fl	Calculated
MCH	30.6	27-32 pg	Calculated
MCHC	32.2	31.5-34.5 g/dL	Calculated
RDW	14.9	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	5950	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND A	BSOLUTE COUNTS		
Lymphocytes	30.2	20-40 %	
Absolute Lymphocytes	1796.9	1000-3000 /cmm	Calculated
Monocytes	7.5	2-10 %	
Absolute Monocytes	446.3	200-1000 /cmm	Calculated
Neutrophils	58.2	40-80 %	
Absolute Neutrophils	3462.9	2000-7000 /cmm	Calculated
Eosinophils	3.5	1-6 %	
Absolute Eosinophils	208.3	20-500 /cmm	Calculated
Basophils	0.6	0.1-2 %	
Absolute Basophils	35.7	20-100 /cmm	Calculated

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS

Immature Leukocytes

Platelet Count	153000	150000-400000 /cmm	Elect. Impedance
MPV	13.8	6-11 fl	Calculated
PDW	36.3	11-18 %	Calculated

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Name : MR.RAJESH KUMAR

: 40 Years / Male Age / Gender

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:10-Sep-2022 / 14:18

RBC MORPHOLOGY

Hypochromia

Microcytosis

Macrocytosis

Anisocytosis

Poikilocytosis

Polychromasia

Target Cells

Basophilic Stippling

Normoblasts

Others Normocytic, Normochromic

WBC MORPHOLOGY

PLATELET MORPHOLOGY Megaplatelets seen on smear

COMMENT

Specimen: EDTA Whole Blood

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

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	87.7	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	109.2	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.66	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.28	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.38	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.3	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	5.0	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.3	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	2.2	1 - 2	Calculated
SGOT (AST), Serum	16.9	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	28.8	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	22.3	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	83.3	40-130 U/L	Colorimetric
BLOOD UREA, Serum	17.6	12.8-42.8 mg/dl	Kinetic
BUN, Serum	8.2	6-20 mg/dl	Calculated
CREATININE, Serum	0.86	0.67-1.17 mg/dl	Enzymatic

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Name : MR.RAJESH KUMAR

Age / Gender : 40 Years / Male

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eGFR, Serum 105 >60 ml/min/1.73sqm Calculated

URIC ACID, Serum 5.6 3.5-7.2 mg/dl Enzymatic

Urine Sugar (Fasting)AbsentAbsentUrine Ketones (Fasting)AbsentAbsent

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

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

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Name : MR.RAJESH KUMAR

Age / Gender : 40 Years / Male

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:10-Sep-2022 / 15:59

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

BIOLOGICAL REF RANGE PARAMETER RESULTS METHOD

Glycosylated Hemoglobin **HPLC** 5.4 Non-Diabetic Level: < 5.7 % (HbA1c), EDTA WB - CC

Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %

Estimated Average Glucose 108.3 mg/dl Calculated

(eAG), EDTA WB - CC

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.

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

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Name : MR.RAJESH KUMAR

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE EXAMINATION OF FAECES

<u>PARAMETER</u> <u>RESULTS</u> <u>BIOLOGICAL REF RANGE</u>

PHYSICAL EXAMINATION

ColourYellowBrownForm and ConsistencySemi SolidSemi SolidMucusAbsentAbsentBloodAbsentAbsent

CHEMICAL EXAMINATION

Reaction (pH) Acidic (6.0) -

Occult Blood Absent 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
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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE LIRINE EXAMINATION REPORT

<u>PARAMETER</u>	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
PHYSICAL EXAMINATION			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	8.0	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.005	1.001-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	40	-	-
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 +(>20/hpf) Less than 20/hpf

Others

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Name : MR.RAJESH KUMAR

Age / Gender : 40 Years / Male

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

PARAMETER RESULTS

ABO GROUP A

Rh TYPING Positive

NOTE: Test performed by automated Erythrocytes magnetized technology (EMT) 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

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

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: 10-Sep-2022 / 10:06

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE LIPID PROFILE

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	145.1	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	75.8	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	36.0	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Homogeneous enzymatic colorimetric assay
NON HDL CHOLESTEROL, Serum	109.1	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	94.0	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	15.1	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.0	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.6	0-3.5 Ratio	Calculated

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Name : MR.RAJESH KUMAR

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
Free T3, Serum	5.4	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	16.3	11.5-22.7 pmol/L	ECLIA
sensitiveTSH, Serum	1.58	0.35-5.5 microIU/ml	ECLIA

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Name : MR.RAJESH KUMAR

Age / Gender : 40 Years / Male

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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)

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