

CID#

: 2305622369

Name

: MR NEERAJ KUMAR DAYAL

Age / Gender : 31 Years/Male

Consulting Dr. :

Reg.Location : Kandivali East (Main Centre)

Collected

: 25-Feb-2023 / 09:49

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Reported

: 26-Feb-2023 / 10:37

PHYSICAL EXAMINATION REPORT

History and Complaints:

Right knee it pain 4-6 month.

EXAMINATION FINDINGS:

Height (cms):

164 cms

Weight (kg):

80 kgs

Temp (0c):

Afebrile

Skin:

Normal

Blood Pressure (mm/hg): 110/80

Nails:

Normal

Pulse:

72/min

Lymph Node:

Not palpable

Systems

Cardiovascular: Normal

Respiratory:

Normal

Genitourinary:

Normal

GI System:

Normal

CNS.

Normal

IMPRESSION:

- 459 - faty line

ADVICE:

law fatty dut



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CHIEF COMPLAINTS:

1)	Hypertension:	No
2)	IHD	No
3)	Arrhythmia	No
4)	Diabetes Mellitus	No
5)	Tuberculosis	No
6)	Asthama	No
7)	Pulmonary Disease	No
8)	Thyroid/ Endocrine disorders	No
9)	Nervous disorders	No
10)	GI system	No
11)	Genital urinary disorder	No
12)	Rheumatic joint diseases or symptoms	No
13)	Blood disease or disorder	No
14)	Cancer/lump growth/cyst	No
15)	Congenital disease	No
16)	Surgeries	umbilical hernia 7 yrs ago

PERSONAL HISTORY:

17) Musculoskeletal System

1)	Alcohol	Occasionaly
2)	Smoking	Occasionaly
3)	Diet	Mixed
4)	Medication	No

*** End Of Report ***

No



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: 31 Years/Male

Ref. Dr

: Kandivali East Main Centre

Reg. Date

: 25-Feb-2023

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Reported : 25-Feb-2023 / 13:46

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

REGD. OFFICE: Suburban Diagnostics (India) Pvt. Ltd., Aston, 2" Floor, Sundervan Complex, Above Mercedes Showroom, Anchage Vno, Mohibi - 400053. CENTRAL REFERENCE LABORATORY: Shop No. 9, 101 to 105, Skyline Wealth Space Building, Near Dmart, Premier Road, Vidyavihar (W), Mumbai - 400086.



R E

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Date: 25/2/23

CID: 2305-622369

Name: Mr. Neerej kumer Dayal

Sex/Age: m 2

EYE CHECK UP

Chief complaints: Porting chil

Systemic Diseases: NO HO Sh

NO HO Orulas extenjusy

Unaided Vision:

6/6

6/6

Aided Vision:

Refraction:

Forms! Nosmal

(Right Eve)

(Left Eve) Cyl Axis Vn Vn Sph Axis Sph 616 6/6 - Plano Distance - Dlamo N3 6 4/04 Near

Colour Vision: Normal / Abnormal

Remark: VM within normal limit

OPTOMETRIST

SUBURGAL DIAGNOSTICS (INDIA) PVT. LTD. Row House No. 3, Aaagan, Thakur Village, Kandivali (2552), Mumbal - 409101.

Tel: 61700\$00



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CID

: 2305622369

Name

: Mr NEERAJ KUMAR DAYAL

Age / Sex

Reg. Location

: 31 Years/Male

Ref. Dr

: Kandivali East Main Centre

Reg. Date Reported Application To Scan the Code

: 25-Feb-2023 / 11:49

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: 25-Feb-2023

USG WHOLE ABDOMEN

LIVER:

The liver is normal in size (13.5 cm) 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 measures 10 mm and CBD appears measures 3.7 mm. 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 visualized and appears normal. No evidence of solid or cystic mass lesion.

KIDNEYS:

Right kidney measures 11.5 x 5.8 cm. Left kidney measures 10.1 x 3.2 cm.

Left kidney is not seen in left renal fossa and seen in the pelvis region suggestive of ectopic kidney.

Both the kidneys are normal in size shape and echotexture.

No evidence of any calculus, hydronephrosis or mass lesion seen.

SPLEEN:

The spleen is normal in size (10.9 cm) 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 and measures 4.1 x 2.8 x 2.6 cm and volume is 16.2 cc.

Click here to view images << ImageLink>>



Authenticity Check << QRCode>>

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Name

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: 31 Years/Male

Ref. Dr

Reg. Location

: Kandivali East Main Centre

Reg. Date

: 25-Feb-2023

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Reported

: 25-Feb-2023 / 11:49

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IMPRESSION:

GRADE I FATTY LIVER.

LEFT ECTOPIC KIDNEY IN PELVIC REGION.

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

This report is prepared and physically checked by Dr Akash Chhari before dispatch.

DR. Akash Chhari

MBBS. MD. Radio-Diagnosis Mumbai MMC REG NO - 2011/08/2862

Click here to view images << ImageLink>>





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PATIENT NAME	: MR NEERAJ KUMAR DAYAL	SEX : MALE O
REFERRED BY	:	AGE : 31YEARS
CID NO	: 2305622369	DATE: 25/02/2023

Т

2D & M-MODE ECHOCARDIOGRAM REPORT

MITRAL VALVE: has thin leaflets with normal subvalvar motion. No mitral regurgitation .

AORTIC VALVE: has three thin leaflets with normal opening No aortic regurgitation.

LEFT VENTRICLE: is normal, has normal wall thickness, No regional wall motion abnormality.

Normal LV systolic contractions, EF - 60%.

LEFT ATRIUM: is normal.

RIGHT ATRIUM & RIGHT VENTRICLE: normal in size.

TRICUSPID VALVE & PULMONARY VALVES: normal. NO TR / PH.

No pericardial effusion.

IMP:

Normal LV systolic function, EF-60%.

Normal other chambers and valves,

No regional wall motion abnormality/ scar.

No clot / vegetation / thrombus / pericardial effusion.

M- MODE :

30
22
40
28
11
11
60%
1.2

DR AKHIL PARULEKAR

DNB CARDIOLOGIST

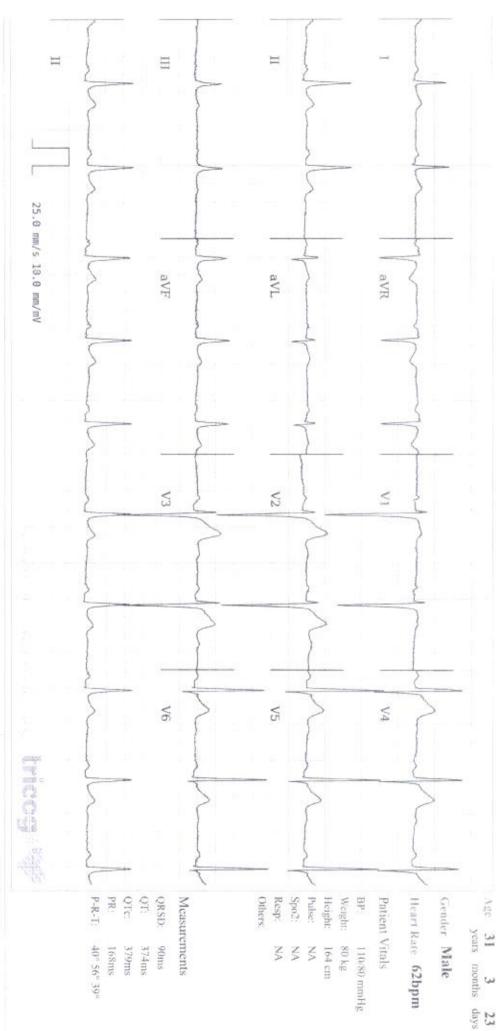
REG. NO 2012082483

SUBURBAN DIAGNOSTICS - KANDIVALI EAST

SUBURBAN.

Patient Name: NEERAJ KUMAR DAYAL Patient ID: 2305622369

Date and Time: 25th Feb 23 1:31 PM



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

SUBURGAL TICHOSTICS (MDIA) PVI. LTD.
Row Ithings Ith, 3, Aprilan,
Thaker Visage, Itandi zati (past),
Mumbai - 408101.
Tel: 61790800

REPORTED BY

REPORTED BY

PRACTICAL PARTILENAN

DR AKHIL PARTILENAN

Cardiologist
S012002483

Discharger: 1) Analysis in the export is based on ECG atoms and should be used as an adoms to efficient basery, symptoms and results physician 2) Partiers (100) are as entered by the distributional new derived from the ECG.



Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. : -

Reg. Location

: Kandivali East (Main Centre)

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: 25-Feb-2023 / 10:04 : 25-Feb-2023 / 15:33

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

Collected

Reported

			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	15.7	13.0-17.0 g/dL	Spectrophotometric
RBC	5.47	4.5-5.5 mil/cmm	Elect. Impedance
PCV	47.5	40-50 %	Measured
MCV	87	80-100 fl	Calculated
MCH	28.7	27-32 pg	Calculated
MCHC	33.0	31.5-34.5 g/dL	Calculated
RDW	14.8	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	4170	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND A	ABSOLUTE COUNTS		
Lymphocytes	36.6	20-40 %	
Absolute Lymphocytes	1526.2	1000-3000 /cmm	Calculated
Monocytes	12.2	2-10 %	
Absolute Monocytes	508.7	200-1000 /cmm	Calculated
Neutrophils	48.2	40-80 %	
Absolute Neutrophils	2009.9	2000-7000 /cmm	Calculated
	2 (4.40/	

Absolute Lymphocytes	1526.2	1000-3000 /cmm	Calculated
Monocytes	12.2	2-10 %	
Absolute Monocytes	508.7	200-1000 /cmm	Calculated
Neutrophils	48.2	40-80 %	
Absolute Neutrophils	2009.9	2000-7000 /cmm	Calculated
Eosinophils	2.6	1-6 %	
Absolute Eosinophils	108.4	20-500 /cmm	Calculated
Basophils	0.4	0.1-2 %	
Absolute Basophils	16.7	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS

Platelet Count	164000	150000-400000 /cmm	Elect. Impedance
MPV	11.8	6-11 fl	Calculated
PDW	25.6	11-18 %	Calculated

RBC MORPHOLOGY



CID : 2305622369

Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. Collected Reported

: Kandivali East (Main Centre) Reg. Location



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:25-Feb-2023 / 10:04 :25-Feb-2023 / 15:01

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-ESR 6 2-15 mm at 1 hr. Sedimentation

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West *** End Of Report **







BMhaskar Dr.KETAKI MHASKAR M.D. (PATH) **Pathologist**

Page 2 of 11



Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

CREATININE, Serum

Consulting Dr. :

Reg. Location

: Kandivali East (Main Centre)

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Application To Scan the Code : 25-Feb-2023 / 10:04

Reported :25-Feb-2023 / 15:11

Collected

0.60-1.10 mg/dl

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE				
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>	
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	88.2	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase	
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	97.3	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase	
BILIRUBIN (TOTAL), Serum	0.92	0.3-1.2 mg/dl	Vanadate oxidation	
BILIRUBIN (DIRECT), Serum	0.35	0-0.3 mg/dl	Vanadate oxidation	
BILIRUBIN (INDIRECT), Serum	0.57	<1.2 mg/dl	Calculated	
TOTAL PROTEINS, Serum	7.6	5.7-8.2 g/dL	Biuret	
ALBUMIN, Serum	4.6	3.2-4.8 g/dL	BCG	
GLOBULIN, Serum	3	2.3-3.5 g/dL	Calculated	
A/G RATIO, Serum	1.5	1 - 2	Calculated	
SGOT (AST), Serum	28.6	<34 U/L	Modified IFCC	
SGPT (ALT), Serum	39.8	10-49 U/L	Modified IFCC	
GAMMA GT, Serum	15.0	<73 U/L	Modified IFCC	
ALKALINE PHOSPHATASE, Serum	97.6	46-116 U/L	Modified IFCC	
BLOOD UREA, Serum	19.8	19.29-49.28 mg/dl	Calculated	
BUN, Serum	9.2	9.0-23.0 mg/dl	Urease with GLDH	

Enzymatic

0.98



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Age / Gender : 31 Years / Male

Consulting Dr. :

Reg. Location: Kandivali East (Main Centre)

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: 25-Feb-2023 / 15:03

Reported :25-Feb-2023 / 20:00

Collected

eGFR, Serum 95 >60 ml/min/1.73sqm Calculated

URIC ACID, Serum 6.4 3.7-9.2 mg/dl Uricase/ Peroxidase

Urine Sugar (Fasting)AbsentAbsentUrine Ketones (Fasting)AbsentAbsent

Urine Sugar (PP)AbsentAbsentUrine Ketones (PP)AbsentAbsent

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West
*** End Of Report ***







Dr.KETAKI MHASKAR M.D. (PATH) Pathologist

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Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. : -

Reg. Location: Kandivali East (Main Centre)



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:25-Feb-2023 / 10:04

Reported :25-Feb-2023 / 16:32

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

Collected

PARAMETER	<u>RESUL 15</u>	BIOLOGICAL REF RANGE	<u>ME I HOD</u>
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	5.6	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %	HPLC
Estimated Average Glucose	114.0	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:

(eAG), EDTA WB - CC

- · 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 SDRL, Vidyavihar Lab
*** End Of Report ***





Dr.NAMRATA RAUL M.D (Biochem) Biochemist

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CID : 2305622369

Name : MR.NEERAJ KUMAR DAYAL

Age / Gender :31 Years / Male

Consulting Dr. Reg. Location

: Kandivali East (Main Centre)



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:25-Feb-2023 / 10:04 :25-Feb-2023 / 20:02

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE **URINE EXAMINATION REPORT**

Collected

Reported

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANG	GE <u>METHOD</u>
PHYSICAL EXAMINATION			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	7.0	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.010	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 EXAMINATIO	<u>N</u>		
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	

Interpretation: The concentration values of Chemical analytes corresponding to the grading given in the report are as follows:

- Protein: (1+ ~25 mg/dl, 2+ ~75 mg/dl, 3+ ~ 150 mg/dl, 4+ ~ 500 mg/dl)
- Glucose:(1+ ~ 50 mg/dl, 2+ ~100 mg/dl, 3+ ~300 mg/dl,4+ ~1000 mg/dl)
- Ketone: (1 + ~5 mg/dl, 2 + ~15 mg/dl, 3 + ~50 mg/dl, 4 + ~150 mg/dl)

Reference: Pack insert

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West





Others



M. Jain **Dr.MILLU JAIN** M.D.(PATH) **Pathologist**

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Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. : Reg. Location : Kandivali East (Main Centre)

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*** End Of Report ***

Collected Reported



Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. :
Pog Location : Kandiyali Fact (Main Centre)

Reg. Location: Kandivali East (Main Centre)



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: 25-Feb-2023 / 10:04 : 25-Feb-2023 / 21:27

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

Collected

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<u>PARAMETER</u> <u>RESULTS</u>

ABO GROUP AB

Rh TYPING Negative

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

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab
*** End Of Report ***





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

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Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. :

Reg. Location

: Kandivali East (Main Centre)

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: 25-Feb-2023 / 10:04 : 25-Feb-2023 / 15:40

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
LIPID PROFILE

Collected

Reported

<u>PARAMETER</u>	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	131.5	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	137.2	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic colorimetric
HDL CHOLESTEROL, Serum	25.6	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Elimination/ Catalase
NON HDL CHOLESTEROL, Serum	105.9	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	78.5	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	27.4	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	5.1	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	3.1	0-3.5 Ratio	Calculated

^{*}Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab
*** End Of Report ***







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Name : MR.NEERAJ KUMAR DAYAL

Age / Gender : 31 Years / Male

Consulting Dr. : -

Reg. Location

: Kandivali East (Main Centre)

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:25-Feb-2023 / 10:04

Reported :25-Feb-2023 / 15:40

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

Collected

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
Free T3, Serum	5.1	3.5-6.5 pmol/L	CLIA
Free T4, Serum	13.4	11.5-22.7 pmol/L	CLIA
sensitiveTSH, Serum	1.766	0.55-4.78 microIU/ml	CLIA



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Name : MR.NEERAJ KUMAR DAYAL

:31 Years / Male Age / Gender

Consulting Dr. Collected :25-Feb-2023 / 10:04 Reported :25-Feb-2023 / 15:40 Reg. Location

: Kandivali East (Main Centre)



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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
 - 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 SDRL, Vidyavihar Lab *** End Of Report ***





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