PID No.
 :
 MED111867277
 Register On
 :
 28/09/2023 8:49 AM

 SID No.
 :
 423060435
 Collection On
 :
 28/09/2023 9:40 AM

 Age / Sex
 :
 47 Year(s) / Male
 Report On
 :
 28/09/2023 3:53 PM

 Type
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 OP
 Printed On
 :
 29/09/2023 9:44 AM

Ref. Dr : MediWheel

| Investigation HAEMATOLOGY | Observed Value | <u>Unit</u> | <u>Biological</u> <u>Reference Interval</u> |
|---------------------------------------------------------------|-------------------|-------------|------------------------------------------------|
| HAEMATOLOGY | | | |
| Complete Blood Count With - ESR | | | |
| Haemoglobin (EDTA Blood/Spectrophotometry) | 9.5 | g/dL | 13.5 - 18.0 |
| Packed Cell Volume(PCV)/Haematocrit (EDTA Blood) | 32.2 | % | 42 - 52 |
| RBC Count (EDTA Blood) | 5.59 | mill/cu.mm | 4.7 - 6.0 |
| Mean Corpuscular Volume(MCV) (EDTA Blood) | 57.6 | fL | 78 - 100 |
| Mean Corpuscular Haemoglobin(MCH) (EDTA Blood) | 17.0 | pg | 27 - 32 |
| Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood) | 29.6 | g/dL | 32 - 36 |
| RDW-CV (EDTA Blood) | 18.6 | % | 11.5 - 16.0 |
| RDW-SD (EDTA Blood) | 37.50 | fL | 39 - 46 |
| Total Leukocyte Count (TC) (EDTA Blood) | 6200 | cells/cu.mm | 4000 - 11000 |
| Neutrophils (EDTA Blood) | 62.8 | % | 40 - 75 |
| Lymphocytes (EDTA Blood) | 24.1 | % | 20 - 45 |
| Eosinophils (EDTA Blood) | 3.3 | % | 01 - 06 |
| Monocytes (EDTA Blood) | 9.4 | % | 01 - 10 |





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|-------------------------------------------------------|---------------------------------|----------------------|------------------------------------------------|
| Basophils (Blood) | 0.4 | % | 00 - 02 |
| INTERPRETATION: Tests done on Automated Five | Part cell counter. All | abnormal results are | e reviewed and confirmed microscopically. |
| Absolute Neutrophil count (EDTA Blood) | 3.89 | 10^3 / μl | 1.5 - 6.6 |
| Absolute Lymphocyte Count (EDTA Blood) | 1.49 | 10^3 / μl | 1.5 - 3.5 |
| Absolute Eosinophil Count (AEC) (EDTA Blood) | 0.20 | 10^3 / μl | 0.04 - 0.44 |
| Absolute Monocyte Count (EDTA Blood) | 0.58 | 10^3 / μl | < 1.0 |
| Absolute Basophil count (EDTA Blood) | 0.02 | 10^3 / μl | < 0.2 |
| Platelet Count (EDTA Blood) | 295 | 10^3 / μl | 150 - 450 |
| MPV (EDTA Blood) | 8.7 | fL | 7.9 - 13.7 |
| PCT (EDTA Blood/Automated Blood cell Counter) | 0.26 | % | 0.18 - 0.28 |
| ESR (Erythrocyte Sedimentation Rate) (Citrated Blood) | 6 | mm/hr | < 15 |





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|----------------------------------------------------------------|-------------------|-------------|------------------------------------------------|
| BIOCHEMISTRY | | | |
| Liver Function Test | | | |
| Bilirubin(Total) (Serum/DCA with ATCS) | 0.53 | mg/dL | 0.1 - 1.2 |
| Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid) | 0.19 | mg/dL | 0.0 - 0.3 |
| Bilirubin(Indirect) (Serum/Derived) | 0.34 | mg/dL | 0.1 - 1.0 |
| SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC) | 10.42 | U/L | 5 - 40 |
| SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC) | 10.60 | U/L | 5 - 41 |
| GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic) | 47.94 | U/L | < 55 |
| Alkaline Phosphatase (SAP) (Serum/Modified IFCC) | 100.5 | U/L | 53 - 128 |
| Total Protein (Serum/Biuret) | 7.42 | gm/dl | 6.0 - 8.0 |
| Albumin (Serum/Bromocresol green) | 4.68 | gm/dl | 3.5 - 5.2 |
| Globulin (Serum/Derived) | 2.74 | gm/dL | 2.3 - 3.6 |
| A: GRATIO (Serum/Derived) | 1.71 | | 1.1 - 2.2 |





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|-------------------------------------------------|---------------------------------|-------------|---------------------------------------------------------------------------------|
| <u>Lipid Profile</u> | | | |
| Cholesterol Total (Serum/CHOD-PAP with ATCS) | 135.66 | mg/dL | Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240 |
| Triglycerides (Serum/GPO-PAP with ATCS) | 144.95 | mg/dL | Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500 |

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the õusualö"circulating level of triglycerides during most part of the day.

| HDL Cholesterol (Serum/Immunoinhibition) | 32.83 | mg/dL | Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40 |
|-------------------------------------------|-------|-------|------------------------------------------------------------------------------------------------------------------|
| LDL Cholesterol (Serum/Calculated) | 73.8 | mg/dL | Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190 |
| VLDL Cholesterol (Serum/Calculated) | 29 | mg/dL | < 30 |
| Non HDL Cholesterol (Serum/Calculated) | 102.8 | mg/dL | Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220 |

INTERPRETATION: 1. Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2. It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.





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|----------------------------------------------------------------|---------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------|
| Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated) | 4.1 | | Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0 |
| Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated) | 4.4 | | Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0 |
| LDL/HDL Cholesterol Ratio (Serum/Calculated) | 2.2 | | Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0 |





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Clycosylated Haemoglobin (HbA1c)

HbA1C
(Whole Blood/HPLC)

Normal: 4.5 - 5.6
Prediabetes: 5.7 - 6.4

INTERPRETATION: If Diabetes - Good control: 6.1 - 7.0 %, Fair control: 7.1 - 8.0 %, Poor control >= 8.1 %

Estimated Average Glucose 246.04 mg/dL

(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency,

hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbAlc.





Diabetic: >= 6.5

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Printed On

Ref. Dr : MediWheel

<u>Investigation</u> Observed Unit <u>Biological</u> Value Reference Interval

: 29/09/2023 9:44 AM

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 0.994 0.7 - 2.04ng/ml

(Serum/ECLIA)

INTERPRETATION:

Comment:

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total 6.21 μg/dl 4.2 - 12.0

(Serum/ECLIA)

INTERPRETATION:

Comment:

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

 $\mu IU/mL$ 0.35 - 5.50TSH (Thyroid Stimulating Hormone) 4.51

(Serum/ECLIA)

INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5 2 nd trimester 0.2-3.0 3 rd trimester: 0.3-3.0

(Indian Thyroid Society Guidelines)

Comment:

- 1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.
- 2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM. The variation can be of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.
- 3. Values&lt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.





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InvestigationObservedUnitBiologicalValueReference Interval

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING

(EDTA Blood/Agglutination)

'O' 'Positive'





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|-----------------------------------------------|---------------------------------|-------------|--------------------------------------------------------------|
| BIOCHEMISTRY | | | |
| BUN / Creatinine Ratio | 18.3 | | 6.0 - 22.0 |
| Glucose Fasting (FBS) (Plasma - F/GOD-PAP) | 219.45 | mg/dL | Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126 |

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Glucose, Fasting (Urine)
(Urine - F/GOD - POD)

Glucose Postprandial (PPBS)

Negative

Megative

70 - 140

(Plasma - PP/GOD-PAP)

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

Blood Urea Nitrogen (BUN) 11.2 mg/dL 7.0 - 21 (Serum/Urease UV / derived)
Creatinine 0.61 mg/dL 0.9 - 1.3 (Serum/Modified Jaffe)

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists,N-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid 3.95 mg/dL 3.5 - 7.2

(Serum/Enzymatic)





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<u>Value</u> Reference Interval

IMMUNOASSAY

Prostate specific antigen - Total(PSA) 0.467 ng/ml Normal: 0.0 - 4.0

(Serum/Manometric method)

Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0
Suspicious of Malignant disease of

Prostate: > 10.0

INTERPRETATION: Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH).

Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.

PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

ÉIn the early detection of Prostate cancer.

ÉAs an aid in discriminating between Prostate cancer and Benign Prostatic disease.

ÉTo detect cancer recurrence or disease progression.





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-- End of Report --

Mahesh Mob:8618385220 9901569756



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SPECTACLE PRESCRIPTION

| Name: Manigandan | No. 3707 |
|------------------|------------------|
| Mobil No: | Date: 20 /a hom. |

Mobil No: Date: 28/9/2013

| | RIGHT EYE | | | | | LE | FT EYE | |
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Patient Datails Print Page

CLUMAX DIAGNOSTICS MEDALL HEALTHCARE PVT LTD CUSTOMER CHECKLIST

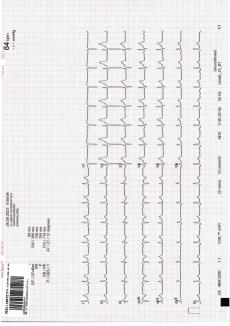


Customer Name : MR.A MANIGANDAN Ref Dr Name MediWheel MED111867277 Visit ID 423060435 Customer Id 8310433480 Age 47Y/MALE Phone No DOB 19 Sep 1976 Visit Date 28/09/2023

| Company Name | MediWhee |
|--------------|----------|
| | |

| S.No | Modality | Study | AccessionNo | Time | Signature |
|------|----------|--------------------------------------------|-----------------------------------------|------|-------------------------------------------|
| 1 | LAB | BLOOD UREA NITROGEN (BUN) | | | |
| 2 | LAB | CREATININE | (0.10) | | C. 17 77 77 77 77 77 77 77 77 77 77 77 77 |
| 3 | LAB | GLUCOSE - FASTING | | | |
| 4 | LAB | GLUCOSE - POSTPRANDIAL (2 HRS) | | | |
| 5 | LAB | GLYCOSYLATED HAEMOGLOBIN (HbA1c) | | | |
| 6 | LAB | URIC ACID | 11.00 | | |
| 7 | LAB | LIPID PROFILE | 47.0 | | |
| 8 | LAB | LIVER FUNCTION TEST (LFT) | | | |
| 9 | LAB | TOTAL PROSTATE SPECIFIC ANTIGEN- | 1 | | |
| 10 | LAB | THYROID PROFILE/ TFT(T3, T4, T9H) | 100000000000000000000000000000000000000 | - | |
| 11 | LAB | URINE GLUCOSE - FASTING- | | | |
| 12 | LAB | URINE GLUCOSE - POSTPRANDIAL (2- Hrs) | | | 102.00 |
| 13 | LAB | COMPLETE BLOOD COUNT WITH ESR | 200 | | |
| 14 | LAB | STOOL ANALYSIS - ROUTINE | | | 11 |
| 15 | LAB | URINE ROUTINE | | | |
| 16 | LAB | BUN/CREATININE RATIO | | | 44 |
| 17 | LAB | BLOOD GROUP & RH TYPE (Forward Reverse) | b 1 28 | | |
| 18 | ECG | ECG \ | IND14226761138 | | |
| 19 | OTHERS | Troodmill / 2D Echo | IND142267614690 | _ | -do |
| 20 | OTHERS | physical examination | IND142267615279 | _ | - |
| -21 | US | ULTRASOUND ABDOMEN | IND142267615292 | _ | 8 |
| 22 | OTHERS | Dental Consultation | IND142267616289 | 100 | ALC: UNK |
| 23 | OTHERS | EYE CHECKUP | IND142267617756 | | |
| 24 | X-RAY | X RAY CHEST | IND142267618659 | _ | |
| 25 | OTHERS | Consultation Physician | IND142267618736 | | |

HF -16 LF - 66.9 BB - 109/75 PUL - 82



| Name | MR.A MANIGANDAN | ID | MED111867277 |
|-----------------|-----------------|------------|--------------|
| Age & Gender | 47Y/MALE | Visit Date | 28 Sep 2023 |
| Ref Doctor Name | MediWheel | | |

2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA : 3.5cms

LEFT ATRIUM : 3.7cms

AVS :----

LEFT VENTRICLE (DIASTOLE) : 4.4cms

(SYSTOLE) : 3.0cms

VENTRICULAR SEPTUM (DIASTOLE) : 0.9cms

(SYSTOLE) : 1.3cms

POSTERIOR WALL (DIASTOLE) : 1.2cms

(SYSTOLE) : 1.7cms

EDV : 87ml
ESV : 34ml
FRACTIONAL SHORTENING : 32%
EJECTION FRACTION : 60%
EPSS : ---

RVID : 1.9cms

DOPPLER MEASUREMENTS:

MITRAL VALVE : E' 0.84 m/s A' 0.66 m/s NO MR

AORTIC VALVE : 1.30 m/s NO AR

TRICUSPID VALVE : E' - m/s A' - m/s NO TR

PULMONARY VALVE : 0.96 m/s NO PR

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2D ECHOCARDIOGRAPHY FINDINGS:

Left ventricle : Normal size, Normal systolic function.

No regional wall motion abnormalities.

Left Atrium : Normal.

Right Ventricle : Normal.

Right Atrium : Normal.

Mitral valve : Normal, No mitral valve prolapsed.

Aortic valve : Normal, Trileaflet.

Tricuspid valve : Normal.

Pulmonary valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No pericardial effusion.

IMPRESSION:

- > NORMAL SIZED CARDIAC CHAMBERS.
- > NORMAL LV SYSTOLIC FUNCTION. EF:60 %.
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- > NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

DR. K.S. SUBRAMANI. MBBS, MD, DM (CARDIOLOGY) FESC SENIOR CONSULTANT INTERVENTIONAL CARDIOLOGIST SRI JAYADEVA INSTITUTE OF CARDIOLOGY, BANGALORE Kss/da

Note:

^{*} Report to be interpreted by qualified medical professional.

^{*} To be correlated with other clinical findings.

| Name | MR.A MANIGANDAN | ID | MED111867277 |
|-----------------|-----------------|------------|--------------|
| Age & Gender | 47Y/MALE | Visit Date | 28 Sep 2023 |
| Ref Doctor Name | MediWheel | - | |

^{*} Parameters may be subjected to inter and intra observer variations.
*Any discrepancy in reports due to typing errors should be corrected as soon as possible.

| Name | MR.A MANIGANDAN | ID | MED111867277 |
|-----------------|-----------------|------------|--------------|
| Age & Gender | 47Y/MALE | Visit Date | 28 Sep 2023 |
| Ref Doctor Name | MediWheel | - | |

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in size and shows diffuse fatty changes. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER shows normal shape and has clear contents. Gall bladder wall is of normal thickness. CBD is of normal calibre.

PANCREAS has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

SPLEEN shows normal shape, size and echopattern.

No demonstrable Para -aortic lymphadenopathy.

KIDNEYS move well with respiration and have normal shape, size and echopattern. Cortico- medullary differentiations are well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

| · · | Bipolar length (cms) | Parenchymal thickness (cms) |
|--------------|----------------------|-----------------------------|
| Right Kidney | 9.9 | 1.5 |
| Left Kidney | 11.1 | 1.5 |

URINARY BLADDER shows normal shape and wall thickness. It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size and echopattern. It measures 2.9 x 2.8 x 3.2cms (Vol:14cc).

No evidence of ascites / pleural effusion.

IMPRESSION:

- > FATTY LIVER.
- > NO OTHER SIGNIFICANT ABNORMALITY DETECTED.

DR. APARNA CONSULTANT RADIOLOGIST

A/vp

| Name | Mr. A MANIGANDAN | Customer ID | MED111867277 |
|--------------|------------------|-------------|--------------------|
| Age & Gender | 47Y/M | Visit Date | Sep 28 2023 8:48AM |
| Ref Doctor | MediWheel | - | |

X - RAY CHEST PA VIEW

FINDINGS:

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

IMPRESSION:

No significant abnormality detected.

Dr.Nitash Prakash MBBS.,MD Consultant Radiologist