

CID	: 2307900406
Name	: MR.AMJAD AHMED
Age / Gender	:43 Years / Male
Consulting Dr.	: -
Reg. Location	: Borivali West (Main Centre)



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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO

\_ \_ \_

CBC (Complete Blood Count), Blood			
PARAMETER	<u>RESULTS</u>	<b>BIOLOGICAL REF RANGE</b>	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	14.3	13.0-17.0 g/dL	Spectrophotometric
RBC	4.60	4.5-5.5 mil/cmm	Elect. Impedance
PCV	44.8	40-50 %	Measured
MCV	97.4	80-100 fl	Calculated
MCH	31.0	27-32 pg	Calculated
MCHC	31.8	31.5-34.5 g/dL	Calculated
RDW	15.9	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	10540	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND A	BSOLUTE COUNTS		
Lymphocytes	34.9	20-40 %	
Absolute Lymphocytes	3678.5	1000-3000 /cmm	Calculated
Monocytes	6.8	2-10 %	
Absolute Monocytes	716.7	200-1000 /cmm	Calculated
Neutrophils	45.2	40-80 %	
Absolute Neutrophils	4764.1	2000-7000 /cmm	Calculated
Eosinophils	12.5	1-6 %	
Absolute Eosinophils	1317.5	20-500 /cmm	Calculated
Basophils	0.6	0.1-2 %	
Absolute Basophils	63.2	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

# PLATELET PARAMETERS

Platelet Count	289000	150000-400000 /cmm	Elect. Impedance
MPV	10.8	6-11 fl	Calculated
PDW	18.9	11-18 %	Calculated
RBC MORPHOLOGY			

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Normoblasts

WBC MORPHOLOGY

Others

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CID Name Age / Gender	: 2307900406 : MR.AMJAD A : 43 Years / M			Use a QR Code Scanner	O R
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Hypochro	omia	-			
Microcyte	osis	-			
Macrocy	tosis	-			
Anisocyt	osis				
Poikilocy	rtosis				
Polychro	masia				
Target C	ells				
Basophil	ic Stippling				

PLATELET MORPHOLOGY COMMENT Leukocytosis with Eosinophilia Advice: 1)Stool examination for parasites 2)Allergy testing Result rechecked. Kindly correlate clinically. Specimen: EDTA Whole Blood ESR, EDTA WB-ESR 16 2-15 mm at 1 hr.

Normocytic, Normochromic

Sedimentation

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



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

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### MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO PARAMETER RESULTS **BIOLOGICAL REF RANGE** METHOD

GLUCOSE (SUGAR) FASTING, 91.1 Fluoride Plasma

GLUCOSE (SUGAR) PP, Fluoride 138.9 Plasma PP/R

Non-Diabetic: < 100 mg/dl Hexokinase Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl

Non-Diabetic: < 140 mg/dl Hexokinase Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl

Urine Sugar (Fasting)	
Urine Ketones (Fasting)	

Absent Absent

Absent

Absent

Urine Sugar (PP) Urine Ketones (PP)

Absent Absent

Absent

Absent

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

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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO KIDNEY FUNCTION TESTS

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
BLOOD UREA, Serum	18.1	12.8-42.8 mg/dl	Kinetic
BUN, Serum	8.5	6-20 mg/dl	Calculated
CREATININE, Serum	0.90	0.67-1.17 mg/dl	Enzymatic
eGFR, Serum	98	>60 ml/min/1.73sqm	Calculated
TOTAL PROTEINS, Serum	7.4	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.5	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.9	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.6	1 - 2	Calculated
URIC ACID, Serum	6.9	3.5-7.2 mg/dl	Enzymatic
PHOSPHORUS, Serum	3.5	2.7-4.5 mg/dl	Molybdate UV
CALCIUM, Serum	9.3	8.6-10.0 mg/dl	N-BAPTA
SODIUM, Serum	139	135-148 mmol/l	ISE
POTASSIUM, Serum	4.2	3.5-5.3 mmol/l	ISE
CHLORIDE, Serum	103	98-107 mmol/l	ISE

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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO GLYCOSYLATED HEMOGLOBIN (HbA1c) RESULTS

# PARAMETER

**Glycosylated Hemoglobin** 5.8 (HbA1c), EDTA WB - CC Estimated Average Glucose 119.8

**BIOLOGICAL REF RANGE** METHOD HPLC Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 % 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:** 

(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.

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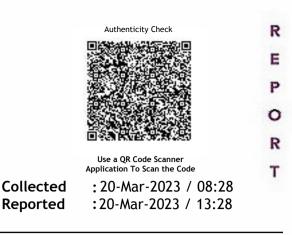


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CLIA

# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO PROSTATE SPECIFIC ANTIGEN (PSA) PARAMETER RESULTS BIOLOGICAL REF RANGE METHOD

TOTAL PSA, Serum

<4.0 ng/ml

Clinical Significance:

• PSA is detected in the serum of males with normal, benign hyper-plastic, and malignant prostate tissue.

1.298

- Monitoring patients with a history of prostate cancer as an early indicator of recurrence and response to treatment.
- Prostate cancer screening 4. The percentage of Free PSA (FPSA) in serum is described as being significantly higher in patients with BPH than in patients with prostate cancer. 5. Calculation of % free PSA (ie. FPSA/TPSA x 100), has been suggested as way of improving the differentiation of BPH and Prostate cancer.

### Interpretation:

Increased In- Prostate diseases, Cancer, Prostatitis, Benign prostatic hyperplasia, Prostatic ischemia, Acute urinary retention, Manipulations like Prostatic massage, Cystoscopy, Needle biopsy, Transurethral resection, Digital rectal examination, Radiation therapy, Indwelling catheter, Vigorous bicycle exercise, Drugs (e.g., testosterone), Physiologic fluctuations. Also found in small amounts in other cancers (sweat and salivary glands, breast, colon, lung, ovary) and in Skene glands of female urethra and in term placenta ,Acute renal failure, Acute myocardial infarction,

**Decreased In-** Ejaculation within 24-48 hours, Castration, Antiandrogen drugs (e.g., finasteride), Radiation therapy, Prostatectomy, PSA falls 17% in 3 days after lying in hospital, Artifactual (e.g., improper specimen collection; very high PSA levels). Finasteride (5-α-reductase inhibitor) reduces PSA by 50% after 6 months in men without cancer.

## Reflex Tests: % FREE PSA , USG Prostate

Limitations:

- tPSA values determined on patient samples by different testing procedures cannot be directly compared with one another and could be
  the cause of erroneous medical interpretations. If there is a change in the tPSA assay procedure used while monitoring therapy, then
  the tPSA values obtained upon changing over to the new procedure must be confirmed by parallelmeasurements with both methods.
  Immediate PSA testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization,
  ultrasonography and needle biopsy of prostate is not recommended as they falsely elevate levels.
- Patients who have been regularly exposed to animals or have received immunotherapy or diagnostic procedures utilizing immunoglobulins or immunoglobulin fragments may produce antibodies, e.g. HAMA, that interferes with immunoassays.
- PSA results should be interpreted in light of the total clinical presentation of the patient, including: symptoms, clinical history, data from additional tests, and other appropriate information.
- Serum PSA concentrations should not be interpreted as absolute evidence for the presence or absence of prostate cancer.

### Reference:

- Wallach's Interpretation of diagnostic tests
- Total PSA Pack insert



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

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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO **EXAMINATION OF FAECES**

# PARAMETER

IALCES
BIOLOGICAL REF RANGE
DIOLOGICAL ILLI NAHOL

PHYSICAL EXAMINATION		
Colour	Brown	Brown
Form and Consistency	Semi Solid	Semi Solid
Mucus	Absent	Absent
Blood	Absent	Absent
<b>CHEMICAL EXAMINATION</b>		
Reaction (pH)	Acidic (6.0)	-
Occult Blood	Absent	Absent
<b>MICROSCOPIC EXAMINATION</b>		
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

RESULTS

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BIOLOGICAL REF RANGE

:20-Mar-2023 / 08:28 :20-Mar-2023 / 12:27

METHOD

# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO URINE EXAMINATION REPORT

#### PHYSICAL EXAMINATION Color Pale yellow Pale Yellow Reaction (pH) 6.0 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 Diazonium Salt Absent Absent Urobilinogen Normal Normal Diazonium Salt Nitrite Absent Absent Griess Test **MICROSCOPIC EXAMINATION** Leukocytes(Pus cells)/hpf 2-3 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 8-10 Less than 20/hpf

RESULTS

Others

24. July

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

MC-2111

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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO **BLOOD GROUPING & Rh TYPING**

Reported

# PARAMETER

**Rh TYPING** 

# RESULTS

**ABO GROUP** 

Positive

В

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:**

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

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PARAMETER	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	155.7	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	113.6	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	121.2	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	98.0	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	23.2	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.5	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.8	0-3.5 Ratio	Calculated

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# MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO THYROID FUNCTION TESTS

PARAMETER		RESULTS BIOLOGICAL REF RANGE		METHOD	
	Free T3, Serum	5.3		ECLIA	
			3.5-6.5 pmol/L		
	Free T4, Serum	13.6	11.5-22.7 pmol/L	ECLIA	
	sensitiveTSH, Serum	2.59	0.35-5.5 microIU/ml	ECLIA	

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

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PARAMETER	LIVER FUNCTION	BIOLOGICAL REF RANGE	<u>METHOD</u>
BILIRUBIN (TOTAL), Serum	0.71	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.27	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.44	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.4	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.5	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.9	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.6	1 - 2	Calculated
SGOT (AST), Serum	21.9	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	19.7	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	20.1	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	89.5	40-130 U/L	Colorimetric

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



Bmhaskar

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