

Name : MRS.PORANIA HIMADRI

: 29 Years / Female Age / Gender

Consulting Dr.

Reg. Location : G B Road, Thane West (Main Centre)

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## **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**

CBC (Complete Blood Count), Blood			
<u>PARAMETER</u>	<u>RESULTS</u>	<b>BIOLOGICAL REF RANGE</b>	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	13.6	12.0-15.0 g/dL	Spectrophotometric
RBC	4.25	3.8-4.8 mil/cmm	Elect. Impedance
PCV	39.8	36-46 %	Measured
MCV	94	80-100 fl	Calculated
MCH	32.1	27-32 pg	Calculated
MCHC	34.2	31.5-34.5 g/dL	Calculated
RDW	13.5	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	6000	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND ABSO	LUTE COUNTS		
Lymphocytes	37.7	20-40 %	
Absolute Lymphocytes	2262.0	1000-3000 /cmm	Calculated
Monocytes	4.7	2-10 %	
Absolute Monocytes	282.0	200-1000 /cmm	Calculated
Neutrophils	54.5	40-80 %	
Absolute Neutrophils	3270.0	2000-7000 /cmm	Calculated
Eosinophils	3.1	1-6 %	
Absolute Eosinophils	186.0	20-500 /cmm	Calculated
Basophils	0.0	0.1-2 %	
Absolute Basophils	0.0	20-100 /cmm	Calculated

WBC Differential Count by Absorbance & Impedance method/Microscopy.

## **PLATELET PARAMETERS**

Platelet Count	222000	150000-400000 /cmm	Elect. Impedance
MPV	8.4	6-11 fl	Calculated
PDW	14.8	11-18 %	Calculated

## **RBC MORPHOLOGY**

Immature Leukocytes

Hypochromia	-
Microcytosis	_

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Macrocytosis

Anisocytosis

Poikilocytosis

Polychromasia

**Target Cells** Basophilic Stippling

**Normoblasts** 

Others Normocytic, Normochromic

WBC MORPHOLOGY

PLATELET MORPHOLOGY

COMMENT

Specimen: EDTA Whole Blood

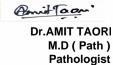
**ESR** 11 2-20 mm at 1 hr. Westergren

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West \*\*\* End Of Report \*\*\*









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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	89.1	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	78.3	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.6	0.1-1.2 mg/dl	Diazo
BILIRUBIN (DIRECT), Serum	0.24	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.36	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	6.8	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.4	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.4	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.8	1 - 2	Calculated
SGOT (AST), Serum	18.3	5-32 U/L	IFCC without pyridoxal phosphate activation
SGPT (ALT), Serum	18.1	5-33 U/L	IFCC without pyridoxal phosphate activation
GAMMA GT, Serum	20.1	3-40 U/L	IFCC
ALKALINE PHOSPHATASE, Serum	72.6	35-105 U/L	PNPP
BLOOD UREA, Serum	19.7	12.8-42.8 mg/dl	Urease & GLDH
BUN, Serum	9.2	6-20 mg/dl	Calculated
CREATININE, Serum	0.76	0.51-0.95 mg/dl	Enzymatic
eGFR, Serum	96	>60 ml/min/1.73sqm	Calculated

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:22-Jan-2022 / 15:13

URIC ACID, Serum 4.7 2.4-5.7 mg/dl Uricase

Urine Sugar (Fasting)AbsentAbsentUrine Ketones (Fasting)AbsentAbsent

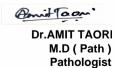
Urine Sugar (PP) Absent Absent
Urine Ketones (PP) Absent Absent

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

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

Glycosylated Hemoglobin 5.2 Non-Diabetic Level: < 5.7 % HPLC (HbA1c), EDTA WB - CC Prediabetic Level: 5.7-6.4 %

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

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Estimated Average Glucose 102.5 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.

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West
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Dr.JYOT THAKKER M.D. (PATH), DPB Pathologist & AVP( Medical Services)

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

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
PHYSICAL EXAMINATION			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	Neutral (7.0)	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.015	1.010-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	50	-	-
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 0-5/hpf 2-3 0-2/hpf Red Blood Cells / hpf Absent

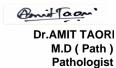
Epithelial Cells / hpf 2-3

Casts Absent Absent Crystals **Absent Absent** Amorphous debris Absent Absent

Bacteria / hpf 3-4 Less than 20/hpf







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

PARAMETER RESULTS

ABO GROUP B

Rh TYPING Positive

NOTE: Test performed by Semi- automated column agglutination technology (CAT)

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:

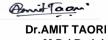
- 1. Denise M Harmening, Modern Blood Banking and Transfusion Practices- 6th Edition 2012. F.A. Davis company. Philadelphia
- 2. AABB technical manual

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M.D ( Path )
Pathologist

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## **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE** LIPID PROFILE

<u>PARAMETER</u>	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	147.6	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	59.1	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	37.0	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Homogeneous enzymatic colorimetric assay
NON HDL CHOLESTEROL, Serum	110.6	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/d High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated l
LDL CHOLESTEROL, Serum	99.0	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	Homogeneous enzymatic colorimetric assay
VLDL CHOLESTEROL, Serum	11.6	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.0	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.7	0-3.5 Ratio	Calculated

<sup>\*</sup>Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD G B Road Lab, Thane West  $^{***}$  End Of Report  $^{***}$ 









Dr.AMIT TAORI M.D (Path) **Pathologist** 

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## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

<u>PARAMETER</u>	<u>RESULTS</u>	<b>BIOLOGICAL REF RANGE</b>	<u>METHOD</u>
Free T3, Serum	4.8	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	19.3	11.5-22.7 pmol/L First Trimester:9.0-24.7 Second Trimester:6.4-20.59 Third Trimester:6.4-20.59	ECLIA
sensitiveTSH, Serum	2.45	0.35-5.5 microIU/ml First Trimester:0.1-2.5 Second Trimester:0.2-3.0 Third Trimester:0.3-3.0	ECLIA



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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 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.

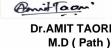
### Reference:

- 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)









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