

Name : MR.MARABATTULA SARAT CHANDRA

: 29 Years / Male Age / Gender

Consulting Dr. Collected : -

Reported Reg. Location : Mahavir Nagar, Kandivali West (Main Centre)

Authenticity Check

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: 28-Aug-2021 / 11:08

:28-Aug-2021 / 15:42

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	14.9	13.0-17.0 g/dL	Spectrophotometric
RBC	5.48	4.5-5.5 mil/cmm	Elect. Impedance
PCV	44.7	40-50 %	Measured
MCV	82	80-100 fl	Calculated
MCH	27.3	27-32 pg	Calculated
MCHC	33.4	31.5-34.5 g/dL	Calculated
RDW	15.4	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	7910	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND ABSOLUTE COUNTS			
Lymphocytes	38.8	20-40 %	
Absolute Lymphocytes	3069.1	1000-3000 /cmm	Calculated
Monocytes	8.5	2-10 %	
Absolute Monocytes	672.4	200-1000 /cmm	Calculated
Neutrophils	50.3	40-80 %	
Absolute Neutrophils	3978.7	2000-7000 /cmm	Calculated
Eosinophils	2.0	1-6 %	
Absolute Eosinophils	158.2	20-500 /cmm	Calculated
Basophils	0.4	0.1-2 %	
Absolute Basophils	31.6	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS

Platelet Count	279000	150000-400000 /cmm	Elect. Impedance
MPV	8.4	6-11 fl	Calculated
PDW	14.2	11-18 %	Calculated

RBC MORPHOLOGY

Hypochromia	-
Microcytosis	-
Macrocytosis	-

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Reg. Location: Mahavir Nagar, Kandivali West (Main Centre) Reported: 28-Aug-2021 / 13:33

Anisocytosis -

Poikilocytosis -

Polychromasia -

Target Cells -

Basophilic Stippling -

Normoblasts -

Others Normocytic, Normochromic

WBC MORPHOLOGY -

PLATELET MORPHOLOGY -

COMMENT -

Specimen: EDTA Whole Blood

ESR, EDTA WB-ESR 3 2-15 mm at 1 hr. Westergren

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West
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Dr.Nami Shah M.B.B.S, DCP (PATHOLOGY) Manager - Medical Services(Pathology)

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Name : MR.MARABATTULA SARAT CHANDRA

Age / Gender : 29 Years / Male

Collected Consulting Dr. :28-Aug-2021 / 11:08

:28-Aug-2021 / 17:06 : Mahavir Nagar, Kandivali West (Main Centre) Reported Reg. Location



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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE PARAMETER RESULTS BIOLOGICAL REF RANGE METHOD GLUCOSE (SUGAR) FASTING, 87.0 Non-Diabetic: < 100 mg/dl Hexokinase Fluoride Plasma Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl GLUCOSE (SUGAR) PP, Fluoride 88.4 Non-Diabetic: < 140 mg/dl Hexokinase Plasma - PP/R Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl BILIRUBIN (TOTAL), Serum 0.84 0.1-1.2 mg/dl Colorimetric BILIRUBIN (DIRECT), Serum 0.29 0-0.3 mg/dl Diazo BILIRUBIN (INDIRECT), Serum 0.55 0.1-1.0 mg/dl Calculated SGOT (AST), Serum 18.0 5-40 U/L NADH (w/o P-5-P) SGPT (ALT), Serum 25.3 5-45 U/L NADH (w/o P-5-P) ALKALINE PHOSPHATASE, 80.1 40-130 U/L Colorimetric Serum BLOOD UREA, Serum 23.9 12.8-42.8 mg/dl Kinetic BUN, Serum 6-20 mg/dl Calculated 11.2 CREATININE, Serum 0.94 0.67-1.17 mg/dl Enzymatic eGFR, Serum 101 >60 ml/min/1.73sgm Calculated

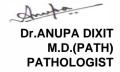
5.7





URIC ACID, Serum





Enzymatic

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3.5-7.2 mg/dl

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Age / Gender : 29 Years / Male

Consulting Dr. : - **Collected :** 28-Aug-2021 / 11:08

Reg. Location: Mahavir Nagar, Kandivali West (Main Centre) Reported: 28-Aug-2021 / 18:21

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

GLYCOSYLATED HEMOGLOBIN (HbA1c)

PARAMETER RESULTS BIOLOGICAL REF RANGE METHOD

Glycosylated Hemoglobin 5.3 Non-Diabetic Level: < 5.7 %

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

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HPLC

Estimated Average Glucose 105.4 mg/dl Calculated

(eAG), EDTA WB - CC

(HbA1c), 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.LEENA SALUNKHE M.B.B.S, DPB (PATH) PATHOLOGIST

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Name : MR.MARABATTULA SARAT CHANDRA

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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

ColourBrownBrownForm and ConsistencySolidSemi SolidMucusAbsentAbsentBloodAbsentAbsent

CHEMICAL EXAMINATION

Reaction (pH) Acidic (5.0) -

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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Name : MR.MARABATTULA SARAT CHANDRA

: 29 Years / Male Age / Gender

Consulting Dr. Collected : -: 28-Aug-2021 / 11:08

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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	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)	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	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 Bacteria / hpf

Absent Absent 2-3 Less than 20/hpf

Others

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N.D. Steak Dr.Nami Shah M.B.B.S, DCP (PATHOLOGY) Manager - Medical Services(Pathology)

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Name : MR.MARABATTULA SARAT CHANDRA

Age / Gender : 29 Years / Male

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:28-Aug-2021 / 11:06

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE ENT BASIC CHECK UP

RESULTS BIOLOGICAL REF RANGE **PARAMETER METHOD**

> Dr.Ajita Bhosale **PHYSICIAN**

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• 78-Aug-2021 / 11:08

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

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

ABO GROUP AB

Rh TYPING POSITIVE

NOTE: Test performed by automated column agglutination technology (CAT) 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
- AABB technical manual

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Dr. Vrushali Shroff M.D.(PATH) PATHOLOGIST

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Name : MR.MARABATTULA SARAT CHANDRA

: 29 Years / Male Age / Gender

Consulting Dr. Collected :28-Aug-2021 / 11:08

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE LIPID PROFILE

<u>PARAMETER</u>	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	202.6	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	158.7	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	41.5	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
NON HDL CHOLESTEROL, Serum	161.1	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	129.0	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	32.1	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.9	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 CPL, Andheri West *** End Of Report ***







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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

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PARAMETER	RESUL 13	BIOLOGICAL REF RANGE	ME I HOD
Free T3, Serum	5.4	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	16.6	11.5-22.7 pmol/L	ECLIA
sensitiveTSH, Serum	2.80	0.35-5.5 microIU/ml	ECLIA

Interpretation:

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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