

CID	: 2132923960
Name	: MS.ARCHANA A SAVE
Age / Gender	: 44 Years / Female
Consulting Dr.	:-
Reg. Location	: J B Nagar, Andheri East (Main Centre)

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Use a QR Code Scanner Application To Scan the Code Collected :25-Nov-2021 / 19:57 :26-Nov-2021 / 12:50

Reported

ARCOFEMI HEALTHCARE- BLOOD TEST

CBC (Complete Blood Count), Blood			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	14.5	12.0-15.0 g/dL	Spectrophotometric
RBC	5.04	3.8-4.8 mil/cmm	Elect. Impedance
PCV	43.9	36-46 %	Measured
MCV	87.0	80-100 fl	Calculated
MCH	28.7	27-32 pg	Calculated
MCHC	33.0	31.5-34.5 g/dL	Calculated
RDW	13.1	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	8190	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND ABS	DLUTE COUNTS		
Lymphocytes	32.4	20-40 %	
Absolute Lymphocytes	2653.6	1000-3000 /cmm	Calculated
Monocytes	5.0	2-10 %	
Absolute Monocytes	409.5	200-1000 /cmm	Calculated
Neutrophils	60.8	40-80 %	
Absolute Neutrophils	4979.5	2000-7000 /cmm	Calculated
Eosinophils	1.1	1-6 %	
Absolute Eosinophils	90.1	20-500 /cmm	Calculated
Basophils	0.7	0.1-2 %	
Absolute Basophils	57.3	20-100 /cmm	Calculated
Immature Leukocytes			

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS			
Platelet Count	299000	150000-400000 /cmm	Elect. Impedance
MPV	10.0	6-11 fl	Calculated
PDW	16.3	11-18 %	Calculated
RBC MORPHOLOGY			
Hypochromia	-		
Microcytosis	-		
Macrocytosis	-		

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Anisocytosis	-
Poikilocytosis	-
Polychromasia	-
Target Cells	-
Basophilic Stippling	-
Normoblasts	-
Others	Normocytic,Normochromic
WBC MORPHOLOGY	-
PLATELET MORPHOLOGY	Platelets aggregates seen on smear, Platelet count may not be representative due to presence of platelet aggregates
COMMENT	-
Advice : Repeat estimation with a	fresh EDTA/Citrate whole blood sample for accurate platelet count.

Specimen: EDTA Whole Blood

ESR, EDTA WB-ESR	6	2-20 mm at 1 hr.	Westergren
*Sample processed at SUBURBA	N DIAGNOSTICS (I	NDIA) PVT. LTD CPL, Andheri West *** End Of Report ***	



John Empla Dr. AMAR DASGUPTA, MD, PhD

Consultant Hematopathologist Director - Medical Services

Anto

Dr.ANUPA DIXIT M.D.(PATH) Pathologist

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ARCOFEMI HEALTHCARE- BLOOD TEST				
PARAMETER	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>	
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	177.5	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase	
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	213.7	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase	
TOTAL PROTEINS, Serum	8.0	6.4-8.3 g/dL	Biuret	
ALBUMIN, Serum	4.9	3.5-5.2 g/dL	BCG	
GLOBULIN, Serum	3.1	2.3-3.5 g/dL	Calculated	
A/G RATIO, Serum	1.6	1 - 2	Calculated	
BLOOD UREA, Serum	15.7	12.8-42.8 mg/dl	Kinetic	
BUN, Serum	7.3	6-20 mg/dl	Calculated	
CREATININE, Serum	0.58	0.51-0.95 mg/dl	Enzymatic	
eGFR, Serum	120	>60 ml/min/1.73sqm	Calculated	
URIC ACID, Serum	2.5	2.4-5.7 mg/dl	Enzymatic	
Urine Sugar (Fasting)	Trace	Absent		
Urine Ketones (Fasting)	Absent	Absent		

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

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ARCOFEMI HEALTHCARE- BLOOD TEST GLYCOSYLATED HEMOGLOBIN (HbA1c)			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	8.2	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	188.6	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:

- 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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Dr.LEENA SALUNKHE M.B.B.S, DPB (PATH) Pathologist

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ARCOFEMI HEALTHCARE- BLOOD TEST URINE EXAMINATION REPORT			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
PHYSICAL EXAMINATION			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	7.0	4.5 - 8.0	Chemical Indicato
Specific Gravity	1.005	1.001-1.030	Chemical Indicato
Transparency	Slight hazy	Clear	-
Volume (ml)	30	-	-
CHEMICAL EXAMINATION			
Proteins	Absent	Absent	pH Indicator
Glucose	Trace	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	N		
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	+++	Less than 20/hpf	
Others	-		

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ARCOFEMI HEALTHCARE- BLOOD TEST BLOOD GROUPING & Rh TYPING

PARAMETER

RESULTS

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
- 2. AABB technical manual

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ARCOFEMI HEALTHCARE- BLOOD TEST			
	LIPID PRC		
PARAMETER	RESULTS	BIOLOGICAL REF RANGE	<u>METHOD</u>
CHOLESTEROL, Serum	205.5	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	56.5	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	74.5	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
NON HDL CHOLESTEROL, Serum	131	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	120.0	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	11.0	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	2.8	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	1.6	0-3.5 Ratio	Calculated
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PARAMETER

Free T3, Serum

Free T4, Serum

sensitiveTSH, Serum

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ARCOFEMI HEALTHCARE- BLOOD TEST THYROID FUNCTION TESTS

BIOLOGICAL REF RANGE

3.5-6.5 pmol/L

11.5-22.7 pmol/L

First Trimester:9.0-24.7 Second Trimester: 6.4-20.59 Third Trimester: 6.4-20.59

0.35-5.5 microIU/ml

First Trimester:0.1-2.5 Second Trimester: 0.2-3.0 Third Trimester:0.3-3.0

RESULTS

4.4

18.0

0.604

METHOD

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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 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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ARCOFEMI HEALTHCARE- BLOOD TEST LIVER FUNCTION TESTS							
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>				
BILIRUBIN (TOTAL), Serum	0.66	0.1-1.2 mg/dl	Colorimetric				
BILIRUBIN (DIRECT), Serum	0.24	0-0.3 mg/dl	Diazo				
BILIRUBIN (INDIRECT), Serum	0.42	0.1-1.0 mg/dl	Calculated				
TOTAL PROTEINS, Serum	8.0	6.4-8.3 g/dL	Biuret				
ALBUMIN, Serum	4.9	3.5-5.2 g/dL	BCG				
GLOBULIN, Serum	3.1	2.3-3.5 g/dL	Calculated				
A/G RATIO, Serum	1.6	1 - 2	Calculated				
SGOT (AST), Serum	15.0	5-32 U/L	NADH (w/o P-5-P)				
SGPT (ALT), Serum	12.4	5-33 U/L	NADH (w/o P-5-P)				
GAMMA GT, Serum	15.2	3-40 U/L	Enzymatic				
ALKALINE PHOSPHATASE, Serum	40.4	35-105 U/L	Colorimetric				

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



Anto

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