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CID : 2122638216
Name : MR.DEVENDRA KUMAR
Age / Gender : 35 Years / Male
Consulting Dr. : -
Reg. Location : Andheri West (Main Centre)

Collected : 14-Aug-2021 / 11:01
Reported : 14-Aug-2021 / 13:29

AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
<u>RBC PARAMETERS</u>			
Haemoglobin	14.6	13.0-17.0 g/dL	Spectrophotometric
RBC	5.01	4.5-5.5 mil/cmm	Elect. Impedance
PCV	44.0	40-50 %	Measured
MCV	87.9	80-100 fl	Calculated
MCH	29.1	27-32 pg	Calculated
MCHC	33.1	31.5-34.5 g/dL	Calculated
RDW	15.0	11.6-14.0 %	Calculated
<u>WBC PARAMETERS</u>			
WBC Total Count	7070	4000-10000 /cmm	Elect. Impedance
<u>WBC DIFFERENTIAL AND ABSOLUTE COUNTS</u>			
Lymphocytes	38.9	20-40 %	
Absolute Lymphocytes	2750.2	1000-3000 /cmm	Calculated
Monocytes	6.5	2-10 %	
Absolute Monocytes	459.6	200-1000 /cmm	Calculated
Neutrophils	45.8	40-80 %	
Absolute Neutrophils	3238.1	2000-7000 /cmm	Calculated
Eosinophils	8.3	1-6 %	
Absolute Eosinophils	586.8	20-500 /cmm	Calculated
Basophils	0.5	0.1-2 %	
Absolute Basophils	35.4	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS

Platelet Count	254000	150000-400000 /cmm	Elect. Impedance
MPV	10.3	6-11 fl	Calculated
PDW	18.6	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 -
COMMENT Eosinophilia

Specimen: EDTA Whole Blood

ESR, Citrate WB 7 2-15 mm at 1 hr. Westergren

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



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HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	87.0	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma - PP/R	96.8	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
CHOLESTEROL, Serum	207.1	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	46.9	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
LDL CHOLESTEROL, Serum	112.0	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
TRIGLYCERIDES, Serum	242.1	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
BILIRUBIN (TOTAL), Serum	0.34	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.19	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.15	0.1-1.0 mg/dl	Calculated
SGOT (AST), Serum	43.5	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	115.7	5-45 U/L	NADH (w/o P-5-P)

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ALKALINE PHOSPHATASE, Serum	115.7	40-130 U/L	Colorimetric
BLOOD UREA, Serum	17.4	12.8-42.8 mg/dl	Kinetic
BUN, Serum	8.1	6-20 mg/dl	Calculated
CREATININE, Serum	1.02	0.67-1.17 mg/dl	Enzymatic
eGFR, Serum	88	>60 ml/min/1.73sqm	Calculated
URIC ACID, Serum	6.6	3.5-7.2 mg/dl	Enzymatic

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
THYROID FUNCTION TEST

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
sensitiveTSH, Serum	1.54	0.35-5.5 microIU/ml	ECLIA

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

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	5.7	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	116.9	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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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
EXAMINATION OF FAECES

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>
<u>PHYSICAL EXAMINATION</u>		
Colour	Brown	Brown
Form and Consistency	Semi Solid	Semi Solid
Mucus	Present	Absent
Blood	Absent	Absent
<u>CHEMICAL EXAMINATION</u>		
Reaction (pH)	Alkaline (8.0)	-
Occult Blood	Absent	Absent
<u>MICROSCOPIC EXAMINATION</u>		
Protozoa	Absent	Absent
Flagellates	Absent	Absent
Ciliates	Absent	Absent
Parasites	Absent	Absent
Macrophages	Absent	Absent
Mucus Strands	Flakes +++	Absent
Fat Globules	Absent	Absent
RBC/hpf	Absent	Absent
WBC/hpf	45-50*	Absent

Large clumps restricted to mucus flakes.

Yeast Cells	Absent	Absent
Undigested Particles	Present ++	-
Concentration Method (for ova)	No ova detected	Absent
Reducing Substances	-	Absent

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
<u>PHYSICAL EXAMINATION</u>			
Color	Yellow	Pale Yellow	-
Reaction (pH)	6.0	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.015	1.001-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	40	-	-
<u>CHEMICAL EXAMINATION</u>			
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
<u>MICROSCOPIC EXAMINATION</u>			
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	2-3	Less than 20/hpf	
Others	-		

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

<u>PARAMETER</u>	<u>RESULTS</u>
ABO GROUP	A
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.

References:

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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LIPID PROFILE

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	207.1	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	242.1	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	46.9	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
NON HDL CHOLESTEROL, Serum	160.2	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	112.0	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	48.2	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.4	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.4	0-3.5 Ratio	Calculated

Note: LDL test is performed by direct measurement.

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