



Laboratory Investigation Report

Name	: Mr. FREDERICK GEORGE	Ref No.	: 46035
DOB	: 10/09/1972	Sample No.	: 2503546356
Age / Gender	: 52 Y / Male	Collected	: 03/03/2025 22:17
Referred by	: Dr. AMAIZAH	Registered	: 03/03/2025 22:18
Centre	: CITICARE MEDICAL CENTER	Reported	: 04/03/2025 00:17

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
GLUCOSE (RANDOM)	92		mg/dL	< 200 Please note change. Source: The American Diabetes Association (ADA)	Hexokinase

Sample Type : Fluoride Plasma

End of Report



Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

Vyoma V. Shah
Dr. Vyoma V Shah
M.D (Pathology)
Clinical Pathologist

Harshad Manikandan
HARSHAD MANIKANDAN
Laboratory Technician

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
LIPID PROFILE TEST					
CHOLESTEROL (TOTAL)	259	H	mg/dl	Desirable: < 200 Borderline High: 200 - 239 High: ≥ 240 Please note change. Source: Roche IFU.	Enzymatic colorimetric assay
HDL CHOLESTEROL	47		mg/dl	40 - 60 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
LDL CHOLESTEROL DIRECT	177	H	mg/dl	Optimal: < 100 Near/Above Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: ≥ 190 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
VLDL CHOLESTEROL	48	H	mg/dL	< 30	Calculation
NON-HDL CHOLESTEROL	225	H	mg/dL	< 140	Calculation
TRIGLYCERIDES	239	H	mg/dl	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: > 500 Source: Roche IFU.	Enzymatic colorimetric assay
TOTAL CHOLESTEROL / HDL RATIO	5.5	H		< 4.5	Calculation
LDL / HDL RATIO	3.8	H		< 3.5	Calculation

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
ELECTROLYTES (Na,K,Cl)					
SODIUM (NA)	138		mmol/L	136 - 145 Please note change. Source: Roche IFU.	ISE (Indirect)
POTASSIUM (K)	5.5	H	mmol/L	3.5 - 5.1 Please note change. Source: Roche IFU.	ISE (Indirect)
CHLORIDE (CL)	102		mmol/L	98 - 107 Please note change. Source: Roche IFU.	ISE (Indirect)

INTERPRETATION NOTES :

Sodium (NA)

Hypernatremia will be seen in dehydration, Cushing syndrome, central or nephrogenic diabetes insipidus with insufficient fluids, primary aldosteronism, lactic acidosis, azotemia, weight loss, nonketotic hyperosmolar coma. Hyponatremia occurs with nephrotic syndrome, cachexia, hypoproteinemia, intravenous glucose infusion, in congestive heart failure, and other clinical entities. Serum sodium is a predictor of cardiovascular mortality in patients in severe congestive heart failure. Addison disease, hypopituitarism, cirrhosis, hypertriglyceridemia, and psychogenic polydipsia.

Chloride (CL)

Increased level is seen in dehydration, with ammonium chloride administration, with renal tubular acidosis (hyperchloremic metabolic acidosis), and with an excessive infusion of normal saline, hyperparathyroidism. Decreased level with overhydration, congestive failure, syndrome of inappropriate secretion of ADH, vomiting, gastric suction, chronic respiratory acidosis, Addison disease, salt-losing nephritis, burns, metabolic alkalosis, and in some instances of diuretic therapy.

Sample Type : Serum

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	14.1		g/dL	13.5 - 17.5	Photometric
RBC COUNT	4.3		10 ⁶ /μL	4.3 - 5.7	Electrical Impedance
HEMATOCRIT	39.7		%	38 - 50	Calculation
MCV	92.5		fL	82 - 98	Calculation
MCH	32.8	H	pg	27 - 32	Calculation
MCHC	35.4		g/dL	32 - 37	Calculation
RDW	13.3		%	11.8 - 15.6	Calculation
RDW-SD	42.9		fL		Calculation
MPV	9.5		fL	7.6 - 10.8	Calculation
PLATELET COUNT	264		10 ³ /uL	150 - 450	Electrical Impedance
PCT	0.3		%	0.01 - 9.99	Calculation
PDW	17.1		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC)^	0.4		/100 WBC		VCS 360 Technology
ABSOLUTE NRBC COUNT^	0.03		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC)^	0.1		%		VCS 360 Technology
ABSOLUTE EGC^	0		10 ³ /uL		Calculation
WBC COUNT	9		10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	54		%	40 - 75	VCS 360 Technology
LYMPHOCYTES	40		%	20 - 45	VCS 360 Technology
EOSINOPHILS	2		%	0 - 6	VCS 360 Technology
MONOCYTES	4		%	1 - 6	VCS 360 Technology
BASOPHILS	0		%	0 - 1	VCS 360 Technology
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	4.3		10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	3.6		10 ³ /uL	0.8 - 4.95	Calculation
ABSOLUTE MONOCYTE COUNT	0.4		10 ³ /uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.2		10 ³ /uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.1		10 ³ /uL	0 - 0.11	Calculation

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
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COMPLETE BLOOD COUNT (CBC)

INTERPRETATION NOTES :

Please note update on CBC report format, reference ranges and method(Beckman Coulter).

Sample Type : EDTA Whole Blood

End of Report

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