

CONFIDENTIAL LABORATORY REPORT

Patient Name : **Mr. FOUAD SAID HELMY**
Age / Sex : 40 Y / Male
DOB : **17/09/1984**
Referral Doctor :
Referrer : CITICARE MEDICAL CENTER L.L.C
SID.No. : **FD019787**
Patient No : **FCL019882**

Request Date : 17/04/2025 17:22
Collected Date : 17/04/2025 17:21
Acceptance Date : 17/04/2025 18:22
Report Date : 18/04/2025 06:43
Report Status : **Final Report**
External Visit Id : **45450**

INVESTIGATION / SPECIMEN	RESULT	UNIT	REFERENCE RANGE	METHOD
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HAEMATOLOGY

**CITICARE PULSEFIT PACKAGE
COMPLETE BLOOD COUNT (CBC)**

EDTA Whole Blood

HEMOGLOBIN	14.5	g/dL	13.5 - 17.5	Colorimetric
RBC COUNT	5.12	10 ⁶ /uL	3.5 - 5.5	EI
HEMATOCRIT	43	%	37 - 54	Calculation
MCV	83.9	fL	80 - 100	Calculation
MCH	28.3	pg	27 - 34	Calculation
MCHC	33.7	g/dL	32 - 36	Calculation
RDW	14.2	%	11 - 16	Calculation
MPV	10	fL	8 - 12	Calculation
PLATELET COUNT	228	10 ³ /uL	140 - 450	EI
WBC COUNT	6.42	10 ³ /uL	4 - 10	EI

DIFFERENTIAL COUNT (DC)

EDTA Whole Blood

NEUTROPHILS	54.2	%	50 - 70	Flow Cytometry
LYMPHOCYTES	34.6	%	20 - 40	Flow Cytometry
EOSINOPHILS	4.2	%	0.5 - 5	Flow Cytometry
MONOCYTES	6.7	%	3 - 12	Flow Cytometry
BASOPHILS	0.3	%	0 - 1	Flow Cytometry
ABSOLUTE NEUTROPHIL COUNT	3.48	10 ³ cells/uL	2 - 7	
ABSOLUTE LYMPHOCYTE COUNT	2.22	10 ³ cells/uL	0.8 - 4	
ABSOLUTE MONOCYTE COUNT	0.43	10 ³ cells/uL	0.12 - 1.2	
ABSOLUTE EOSINOPHIL COUNT	0.27	10 ³ cells/uL	0.02 - 0.5	
ABSOLUTE BASOPHIL COUNT	0.02	10 ³ cells/uL	0 - 0.1	

Prepared By



Gopika

Medical Laboratory Technologist
26832642



Approved By



Dr Anjum Nawshehri
Laboratory Director
DHA-00208333-004

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CLINICAL BIOCHEMISTRY				
CITICARE PULSEFIT PACKAGE				
GLUCOSE (RANDOM) Fluoride Plasma	92.2	mg/dL	< 200	GOD - POD
GLYCATED HEMOGLOBIN (HbA1C) ^ EDTA Whole Blood				
HBA1C	5.6	%	Normal:4.6-5.6 Prediabetes: 5.7- 6.4 Diabetes: >6.5	HPLC
eAG (estimated Average Glucose)	114	%		Calculation
BLOOD UREA NITROGEN (SERUM)				
Serum				
UREA	60.2	mg/dL	16.87 - 43.37	Urease-glutamate Dehydrogenase, UV method
BUN	28.0	mg/dL	7 - 18	Calculation
CREATININE	1.31	mg/dL	0.6 - 1.3	Sarcosine Oxidase
Serum				
BUN/CREATININE RATIO	21	NULL	Prerenal: > 20:1 Normal or Postrenal: 10-20:1 Intrarenal: < 10:1	Calculation
Serum				
URIC ACID	6.55	mg/dL	2.5 - 8	Uricase - POD
Serum				
IRON	82.5	ug/dL	45 - 158	Ferrozine
Serum				
CHOLESTEROL (TOTAL)	202.1	mg/dL	Desirable: < 200 Borderline High: 200 - 239 High: > 239	CHOD-POD
Serum				
NON-HDL CHOLESTEROL	94.3	mg/dL	< 140	Calculation
Serum				

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CLINICAL BIOCHEMISTRY				
CITICARE PULSEFIT PACKAGE				
TRIGLYCERIDES	183.8	mg/dl	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: > 499	GPO-POD
Serum HDL CHOLESTEROL	43	mg/dL	Optimum>60 Borderline : 50-59 High risk : <50	Direct
Serum LDL CHOLESTEROL	155.4	mg/dl	Optimal: < 100 Near/Above Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: > 189	Direct
Serum VLDL CHOLESTEROL	36.76	mg/dL	0 - 30	Calculation
Serum LDL / HDL RATIO	3.6	--	< 3.5	Calculation
Serum				

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CLINICAL BIOCHEMISTRY

CITICARE PULSEFIT PACKAGE

TOTAL CHOLESTEROL / HDL RATIO	4.7	--	< 4.5	Calculation
Serum				

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CLINICAL BIOCHEMISTRY				
CITICARE PULSEFIT PACKAGE				
BILIRUBIN (TOTAL)	0.35	mg/dL	Up to 1.2	DSA
Serum				
BILIRUBIN (DIRECT)	0.12	mg/dL	0.00 - 0.4	DSA
Serum				
INDIRECT BILIRUBIN	0.23	mg/dL	< or = 0.90	Calculation
Serum				
TOTAL PROTEIN	6.9	g/dL	6 - 8	Biuret
Serum				
ALBUMIN (SERUM)	4.3	g/dL	3.5 - 4.8	Bromcresol green (BCG)
Serum				
GLOBULIN	2.6	g/dL	2.0 - 3.5	Calculation
Serum				
ALBUMIN / GLOBULIN RATIO	1.65	NULL	0.8 - 2.0	Calculation
Serum				
ALT / SGPT	130.8	U/L	10 - 40	IFCC
Serum				
ALP (ALKALINE PHOSPHATASE)	49.2	U/L	30 - 115	IFCC
Serum				
GGT (GAMMA GLUTAMYL TRANSFERASE)	29	U/L	7 - 50	IFCC
Serum				
AST / SGOT	49.2	U/L	10 - 40	IFCC
Serum				

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ENDOCRINOLOGY				
CITICARE PULSEFIT PACKAGE				
TRIIODOTHYRONINE, TOTAL (T3) Serum	1.232	ng/mL	0.8 - 1.9	CLIA
THYROXINE, TOTAL (T4) Serum	7.495	ug/dL	5 - 13	CLIA
THYROID STIMULATING HORMONE (TSH) Serum	3.11	μIU/mL	0.35 - 4.75	CLIA
TESTOSTERONE (TOTAL) Serum	0.487	ng/mL	2.32 - 8.58	CLIA
TESTOSTERONE (FREE) Serum	0.01	ng/mL	0.07-0.3	Calculation
SHBG (SEX HORMONE BINDING GLOBULIN) Serum	25.3	nmol/L	13.3 - 89.5	CLIA
VITAMIN B12 Serum	543.23	pg/mL	180 - 916	CLIA
VITAMIN D, 25-OH (TOTAL) Serum	34.291	ng/mL	Deficient : < 20 Insufficient: 20 - < 30 Sufficient : 30 - 100 Upper Safety Limit:: > 100	CLIA

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INVESTIGATION / SPECIMEN	RESULT	UNIT	REFERENCE RANGE	METHOD
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ENDOCRINOLOGY

CITICARE PULSEFIT PACKAGE

BETA HCG	<2.0	mIU/mL	< 0.5 - 2.2	CLIA
Serum				

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ENDOCRINOLOGY

CITICARE PULSEFIT PACKAGE

PROGESTERONE	0.46	ng/mL	Adult Male: 0.28 - 1.22	CLIA
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Serum

Interpretation Notes : A progesterone test may be used: To help recognize and manage some causes of infertility. Since progesterone levels vary throughout the menstrual cycle, multiple (serial) measurements can be used for this purpose. To determine whether or not a woman has ovulated, when ovulation occurred, or to monitor the success of induced ovulation. In early pregnancy to help diagnose an ectopic or failing pregnancy, along with human chorionic gonadotropin (hCG) testing. To monitor a high-risk pregnancy to help evaluate placenta and fetal health. If a woman is receiving progesterone injections to help support her early pregnancy, to help determine the effectiveness of the replacement treatment. Along with other tests such as an FSH, LH, hCG, thyroid tests, clotting tests, and a complete blood count (CBC) to help determine the cause of abnormal uterine bleeding in non-pregnant women.

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