



BML458217

Laboratory Investigation Report

Name	: Ms. SHAHZADI GHULAM	Ref No.	: 39121
DOB	: 01/01/1994	Sample No.	: 2408468323
Age / Gender	: 30 Y 7 M / Female	Collected	: 27/08/2024 13:33
Referred by	: DR HUMAIRA	Registered	: 27/08/2024 22:13
Centre	: CITICARE MEDICAL CENTER	Reported	: 28/08/2024 00:31

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
GLYCATED HEMOGLOBIN (HbA1C) ^					
HbA1C	5.4		%	Non- diabetic: 4.0 - 5.6 Prediabetes (Increased risk): 5.7 - 6.4 Diabetes: = or > 6.5	Capillary electrophoresis
eAG (estimated Average Glucose)	108		mg/dL	-	Calculation

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Thahsina Anees
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Laboratory Technologist
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Ref No. : 39121
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Collected : 27/08/2024 13:33
Registered : 27/08/2024 22:13
Reported : 27/08/2024 23:49

HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	10.6	L	g/dL	12 - 15.5	Photometric
RBC COUNT	4.5		10 ⁶ /μL	3.9 - 5	Electrical Impedance
HEMATOCRIT	33.3	L	%	35 - 45	Calculation
MCV	74	L	fL	82 - 98	Calculation
MCH	23.5	L	pg	27 - 32	Calculation
MCHC	31.8	L	g/dL	32 - 37	Calculation
RDW	16.2	H	%	11.9 - 15.5	Calculation
RDW-SD	43.3		fL		Calculation
MPV	10.7		fL	7.6 - 10.8	Calculation
PLATELET COUNT	184		10 ³ /uL	150 - 450	Electrical Impedance
PCT	0.2		%	0.01 - 9.99	Calculation
PDW	17.3		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC) [^]	0.1		/100 WBC		VCS 360 Technology
ABSOLUTE NRBC COUNT [^]	0.01		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC) [^]	0.5		%		VCS 360 Technology
ABSOLUTE EGC [^]	0.0		10 ³ /uL		Calculation
WBC COUNT	6.1		10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	51		%	40 - 75	VCS 360 Technology
LYMPHOCYTES	42		%	30 - 60	VCS 360 Technology
EOSINOPHILS	2		%	0 - 6	VCS 360 Technology
MONOCYTES	5		%	1 - 6	VCS 360 Technology
BASOPHILS	0		%	0 - 1	VCS 360 Technology
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	3.1		10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	2.6		10 ³ /uL	1.2 - 6.6	Calculation
ABSOLUTE MONOCYTE COUNT	0.2		10 ³ /uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.1		10 ³ /uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.0		10 ³ /uL	0 - 0.11	Calculation

Comments : Please correlate clinically.

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HEMATOLOGY

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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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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
FOLLICLE STIMULATING HORMONE (FSH)	8.0		mIU/mL	Follicular phase: 2.5 - 10.2 Midcycle Peak: 3.4 - 33.4 Luteal Phase: 1.5 - 9.1 Postmenopausal: 23 - 116.3 Pregnant: < 0.3	ECLIA

INTERPRETATION NOTES :

Increased level of FSH and LH are found in hypogonadism, anorchia, gonadal failure, complete testicular feminization syndrome, menopause, Klinefelter syndrome, alcoholism, and castration.
Decreased level is seen in pituitary or hypothalamic failure

LUTEINISING HORMONE (LH)	7.8		IU/L	Follicular Phase: 1.9 - 12.5 Mid Cycle Peak : 8.7 - 76.3 Luteal phase : 0.5 - 16.9 Post Menopausal : 15.9 - 54.0 Pregnant: < 0.1 - 1.5 Contraceptives: 0.7 - 5.6	ECLIA
TESTOSTERONE (TOTAL)	0.55		nmol/L	0.29 - 1.67 Please note change in method and reference range. Source: Roche IFU.	ECLIA

INTERPRETATION NOTES :

Tanner Stage Interpretation Table (Source:Roche IFU):

Tanner Stage	Reference Ranges (Male)	Reference Ranges (Female)
Tanner Stage I (> 14 days):	Undetectable - 0.087	Undetectable - 0.21
Tanner Stage II (11.5 years):	Undetectable - 14.99	Undetectable - 0.36
Tanner Stage III (13.6 years):	2.25 - 27.00	Undetectable - 0.82
Tanner Stage IV (15.1 years):	6.24 - 26.45	Undetectable - 0.92
Tanner Stage V (18.0 years):	6.51 - 30.50	0.16 - 1.32

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Bhavya Thendankandy
BHAVYA THENDANKANDY
Biochemistry Technologist

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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
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High amounts of testosterone in the body can lead to a lower sperm count.

Low testosterone concentrations can be caused by testicular failure (primary hypogonadism) or inadequate stimulation by pituitary gonadotropins (secondary hypogonadism).

THYROID STIMULATING HORMONE (TSH)	1.62		uIU/mL	0.27 - 4.2	ECLIA
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Reference Range for
Pregnant:
First Trimester: 0.24 – 2.99
Second Trimester:
0.46 – 2.95
Third Trimester: 0.43 – 2.78

Sample Type : Serum

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