

BML506789

Laboratory Investigation Report

Name	: Mr. LIWAA BOU GHADER	Ref No.	: 45362
DOB	: 02/09/1996	Sample No.	: 2412519149
Age / Gender	: 28 Y 3 M / Male	Collected	: 29/12/2024 10:33
Referred by	: CITI CARE	Registered	: 29/12/2024 15:50
Centre	: CITICARE MEDICAL CENTER	Reported	: 29/12/2024 16:22

CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
STOOL ANALYSIS (ROUTINE)					
MACROSCOPIC EXAMINATION					
COLOR	Brown			-	Visual
CONSISTENCY	Semi-formed			-	Visual
BLOOD	Absent			Absent	Visual
MUCUS	Absent			Absent	Visual
MICROSCOPIC EXAMINATION					
LEUCOCYTES	0-1		/HPF	Absent	Microscopy
ERYTHROCYTES	0-1			0 - 2	Microscopy
OVA	Absent			Absent	Microscopy and Micrometry
CYST	Absent		/HPF	Absent	Microscopy and Micrometry
ENTAMOEBA	Absent		/HPF	Absent	Microscopy
YEAST CELLS	Absent		/HPF	Absent	Microscopy
UNDIGESTED FOOD PARTICLES	Present	H	/HPF	Absent	Microscopy
OTHERS	Absent		/HPF	Absent	Microscopy

Sample Type : Stool

End of Report

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

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

Jillian Joy Garcia
Laboratory Technologist

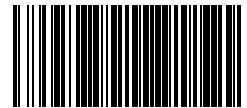
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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
# E3, unconjugated Estriol	Below 0.07		ng/mL	Refer Interpretation	CLIA

Comments : Sample is rechecked. Kindly correlate clinically.

INTERPRETATION NOTES :

Weeks post LMP	Reference range as per Kit Insert
14	0.13 to 0.65
15	0.22 to 0.99
16	0.34 to 1.24
17	0.49 to 1.59
18	0.70 to 2.31
19	0.94 to 3.23
27	2.3 to 6.4
28	2.3 to 7.0
29	2.3 to 7.7
30	2.4 to 8.6
31	2.6 to 9.9
32	2.8 to 11.4
33	3.0 to >12
34	3.3 to >12
35	3.9 to >12
36	4.7 to >12
37	5.6 to >12
38	6.6 to >12
39	7.3 to >12
40	7.6 to >12
20 to 26 wks:	Reference range under validation

This test is performed in an accredited referral laboratory.

ESTRADIOL (E2)	6.5	L	pg/mL	11.3 - 43.2	ECLIA
				Please note update.	
				Source: Roche	

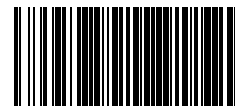
INTERPRETATION NOTES :

Refer to Interpretation Table for Female Reference Range:

FEMALE	REFERENCE RANGE (pg/mL)
 Dr. Vyoma V Shah M.D (Pathology) Clinical Pathologist	 HARSHAD MANIKANDAN Laboratory Technician
Dr. Adley Mark Fernandes M.D (Pathology) Pathologist	
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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
Tanner Stage I (>14 days and prepubertal) (Mean Age: 7.1 years)				Undetectable - 20	
Tanner Stage II (Mean Age: 10.5 years)				Undetectable - 24	
Tanner Stage III (Mean Age: 11.6 years)				Undetectable - 60	
Tanner Stage IV (Mean Age: 12.3 years)				15 - 85	
Tanner Stage V (Mean Age: 14.5 years)				15 - 350	
Follicular Phase				20.5 - 233	
Mid Cycle				60.4 - 602	
Luteal Phase				51.1 - 222	
First Trimester				154 - 3243	
Second Trimester				1561 - 21280	
Third Trimester				8525 - > 30000	
Post Menopause				< 5	
Please note update in reference range. Source: Roche; Mayo Clinic Laboratories for Tanner Stage					

Refer to Interpretation Table for Male Reference Range:

1 to 14 days: Estradiol levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

TANNER STAGE MALE	REFERENCE RANGE (pg/mL)
Stage I (>14 days and prepubertal)(Mean Age: 7.1 years)	Undetectable - 13
Stage II (Mean Age: 12.1 years)	Undetectable - 16
Stage III (Mean Age: 13.6 years)	Undetectable - 26
Stage IV (Mean Age: 15.1 years)	Undetectable - 38
Stage V (Mean Age: 18 years)	10 - 40

Increased level is seen in early puberty, tumors in the ovaries or testes, gynecomastia, hyperthyroidism, cirrhosis of liver.
Decreased level is seen in menopause, Turner syndrome, ovarian failure, polycystic ovarian syndrome (PCOS), depleted estrogen production, which can be caused by low body fat, hypopituitarism, hypogonadism.

TESTOSTERONE (TOTAL)	> 46.93	H	nmol/L	8.64 - 29	ECLIA
Please note change in method and reference range.					
Source: Roche IFU.					

Comments : Rechecked. Please correlate clinically.

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

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

HARSHAD MANIKANDAN
Laboratory Technician

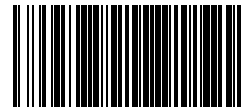
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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
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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

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).

Sample Type : Serum

End of Report

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

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

Harshad Manikandan
HARSHAD MANIKANDAN
Laboratory Technician

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