

REPORT

Name	: Miss. BHARGAVI ARUN KUMAR	Sample ID	: A0590070
Age/Gender	: 17 Years/Female	Reg. No	: 0312406290087
Referred by	: Dr. T DIVYA SUDARSHAN	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 29-Jun-2024 06: 58 PM
Primary Sample	: Whole Blood	Received On	: 29-Jun-2024 10: 55 PM
Sample Tested In	: Serum	Reported On	: 30-Jun-2024 12: 42 AM
Client Address	: Kimtee colony ,Gokul Nagar, Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
PRL(Prolactin)	15.89	ng/mL	Refer Table	CLIA

Interpretation:

Age	Reference Range: Male (ng/mL)	Reference Range: Female(ng/mL)
Puberty Tanner Stage		
1	< 10.0	3.6-12.0
2-3	< 6.1	2.6-18.0
4-5	2.8-11.0	3.2-20.0
Adult	2.1-17.7	Nonpregnant :2.8-29.2 Pregnant :9.7-208.5 Postmenopausal :1.8-20.3

- Prolactin is a 23kD sized hormone produced by the lactotroph cells of the pituitary gland, a grape-sized organ found at the base of the brain. Normally present in low amounts in men and non-pregnant women, prolactin's main role is to promote lactation (breast milk production).
- Breast milk production that is not related to childbirth (galactorrhea)
- Erection problems in men
- Irregular or no menstrual periods (amenorrhea)



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CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
Testosterone Total	44.26	ng/dL	Refer Table	CLIA

Interpretation: (Testosterone Reference Ranges)

Age	Reference Range Male(ng/dL)	Reference Range Female(ng/dL)
Newborn(1-15days)	75-400	20-64
1-5 Months	1-177	1-5
6-11 Months	2-7	2-5
Children:		
1-5 Year	2-25	2-10
6-9 Year	3-30	2-20
Puberty Tanner Stage		
1	2-23	2-10
2	5-70	5-30
3	15-280	10-30
4	105-545	15-40
5	265-800	10-40
Adult	241-827	14-76

- Testosterone is a steroid hormone (androgen) made by the testes in males. Its production is stimulated and controlled by luteinising hormone (LH), which is manufactured in the pituitary gland. In males, testosterone stimulates development of secondary sex characteristics, including enlargement of the penis, growth of body hair and muscle, and a deepening voice. It is present in large amounts in males during puberty and in adult males to regulate the sex drive and maintain muscle mass. Testosterone is also produced by the adrenal glands in both males and females and, in small amounts, by the ovaries in females. The body can convert testosterone to oestradiol, the main sex hormone in females. There is great variability in testosterone levels between men and it is normal for testosterone levels to decline as men get older. Hypogonadism in a male refers to a reduction in sperm and/or testosterone production.



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Test Name	Results	Units	Ref. Range	Method
LH (Leutinizing Hormone)	11.71	mIU/mL	Refer Table	CLIA

Interpretation:

Age	Reference Range: Male (mIU/mL)	Reference Range: Female(mIU/mL)
Pre Puberty Child		
2-11 Months	0.02-8.0	0.02-8.0
1-10 Years	0.04-3.6	0.03-3.9
Puberty Tanner Stage		
1	0.04-3.6	0.03-3.0
2	0.26-4.8	0.10-4.1
3	0.56-6.3	0.20-9.1
4-5	0.56-7.8	0.50-15.0
Adult	20-70 years:1.5-9.3 > 70 years:3.1-34.6	
Follicular Phase	----	1.9-12.5
Midcycle Peak	----	8.7-76.3
Luteal Phase	----	0.5-16.9
Postmenopausal	----	15.9-54.0
Pregnant	----	< 0.1-1.5
Contraceptives	----	0.7-5.6

Increased Values Of LH Seen In:

- Menopause,ovarian dysgenesis. (Turner syndrome),Testicular dysgenesis (Klinefelter syndrome).
- Precocious puberty

Decreased Values Of LH Seen In:

- Pituitary failure. Both LH/ FSH are low.
- hypothalamic failure will also lead to low LH and FSH level.



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Test Name	Results	Units	Ref. Range	Method
FSH (Follicle Stimulating Hormone)	8.31	mIU/mL	Refer Table	CLIA

Interpretation:

Age	Reference Range: Male (mIU/mL)	Reference Range: Female(mIU/mL)
Pre Puberty Child		
2-11 Months	0.19-11.3	0.10-11.3
1-10 Years	0.3-4.6	0.68-6.7
Puberty Tanner Stage		
1-2	0.30-4.6	0.68-6.7
3-4	1.24-15.4	1.0-7.4
5	1.53-6.8	1.0-9.2
Adult	1.42-18.4	
Follicular Phase	----	2.5-10.2
Midcycle Peak	----	3.4-33.4
Luteal Phase	----	1.5-9.1
Postmenopausal	----	23.0-116.3
Pregnant	----	< 0.3

The follicle stimulating hormone (FSH) blood test measures the level of FSH in blood. FSH is a hormone released by the pituitary gland, located on the underside of the brain.

Low FSH levels in women may be present due to:

- Being very underweight or having had recent rapid weight loss
- Not producing eggs (not ovulating)
- Parts of the brain (the pituitary gland or hypothalamus) not producing normal amounts of some or all of its hormones
- Pregnancy

High FSH levels in men may mean the testicles are not functioning correctly due to:

- Advancing age (male menopause)
- Damage to testicles caused by alcohol abuse, chemotherapy, or radiation
- Certain tumors in the pituitary gland

Correlate Clinically.

Laboratory is NABL Accredited

*** End Of Report ***



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