

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra y & Microbiology) Consultant Pathologis		(Pathology)
NAME	: Mrs. KAVITA			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1645025
COLLECTED BY	:		REG. NO./LAB NO.	: 012410160045
REFERRED BY	: SHAILJA CLINIC		REGISTRATION DATE	: 16/Oct/2024 02:04 PM
BARCODE NO.	: 01519004		COLLECTION DATE	: 16/Oct/2024 02:06PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 16/Oct/2024 03:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		FERTILIT	Y PANEL: 1.0	
			HORMONE (LH)	
UTEINISING HORM	IONE (LH): SERUM	10.39	mIU/mL	MALES: 0.57 - 12.07
	NESCENT MICROPARTICLE IMMUN	OASSAY)		FOLLICULAR PHASE: 1.80 - 11.78
				MID-CYCLE PEAK: 7.59 - 89.08 LUTEAL PHASE: 0.56 - 14.0
				POST MENOPAUSAL WITHOUT
				HRT: 5.16 - 61.99
2. In both males and	ypothalamus controls the secre females, LH is essential for re	etion of the gonadot production. In femal	ropins, FSH and LH, from th les, the menstrual cycle is c	e anterior pituitary. livided by a mid cycle surge of both LH and FSF
into a follicular phas 3. This "LH surge" tri luteum that, in turn, 4. LH supports theca interstitial cells of Le The test is useful in t 1. An adjunctin the e 2. Evaluating patient 3. Predicting ovulation 4. Diagnosing pituita 5. In both males and levels. FSH AND LH ELEVTED 1. Primary gonadal f 2. Complete testicula 3. Precocious pubert 4. Menopause 5. Primary ovarian h 6. Polycystic ovary d 7. Primary hypogona LH IS DECREASED IN: 1. Primary ovarian h	ggers ovulation thereby not o produces progesterone to pre l cells in the ovary that provid cydig to cause increased synth he following situations: evaluation of menstrual irregu s with suspected hypogonadis on & Evaluating infertility ary disorders females, primary hypogonadi DIN: aillure ar feminization syndrome ty (either idiopathic or second ypo dysfunction in females isease in females adism in males yper function in females	e androgens and ho esis of testosterone larities. m sm results in an ele	rmonal precursors for estr vation of basal follicle-stim	nversion of the residual follicle into a corpus on. adiol production. LH in males acts on testicula ulating hormone and luteinizing hormone
into a follicular phas 3. This "LH surge" tri luteum that, in turn, 4. LH supports theca interstitial cells of Le The test is useful in t 1. An adjunctin the e 2. Evaluating patient 3. Predicting ovulatio 4. Diagnosing pituita 5. In both males and levels. FSH AND LH ELEVTED 1. Primary gonadal f 2. Complete testicula 3. Precocious pubert 4. Menopause 5. Primary ovarian h 6. Polycystic ovary d 7. Primary ovarian h 6. Polycystic ovary d 7. Primary ovarian h 2. Primary hypegon NOTE	ggers ovulation thereby not o produces progesterone to pre l cells in the ovary that provid cydig to cause increased synth he following situations: evaluation of menstrual irregu s with suspected hypogonadis on & Evaluating infertility ary disorders females, primary hypogonadi DIN: aillure ar feminization syndrome ty (either idiopathic or second ypo dysfunction in females isease in females adism in males yper function in females	e androgens and ho esis of testosterone larities. m sm results in an ele ary to a central nerv	rmonal precursors for estr vation of basal follicle-stim	adiol production. LH in males acts on testicula





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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
	FOLLIC		HORMONE (FSH)	
	NG HORMONE (FSH): SERUM ESCENCE IMMUNOASSAY)	3.26	mIU/mL	FEMALE FOLLICULAR PHASE: 3.03 8.08 FEMALE MID-CYCLE PEAK: 2.55 - 16.69 FEAMLE LUTEAL PHASE: 1.38 - 5.47 FEMALE POST-MENOPAUSAL: 26.72 - 133.41 MALE: 0.95 - 11.95

Condotropin-releasing hormone from the hypothalamus controls the secretion of the gonadotropins, follicle-stimulating hormone (FSH) and luteinizing hormone (LH) from the anterior pituitary.
 The menstrual cycle is divided by a midcycle surge of both FSH and LH into a follicular phase and a luteal phase.

3. FSH appears to control gametogenesis in both males and females. The test is useful in the following settings:

An adjunct in the evaluation of menstrual irregularities.
 Evaluating patients with suspected hypogonadism.
 Predicting ovulation

4. Evaluating infertility

5. Diagnosing pituitary disorders

6. In both males and females, primary hypogonadism results in an elevation of basal follicle-stimulating hormone (FSH) and luteinizing hormone (LH) levels

FSH and LH LEVELS ELEVATED IN:

1. Primary gonadal failure

2. Complete testicular feminization syndrome.

3. Precocious puberty (either idiopathic or secondary to a central nervous system lesion)

- 4. Menopause (postmenopausal FSH levels are generally >40 IU/L) 5. Primary ovarian hypofunction in females
- 6. Primary hypogonadism in males
- NOTE:
- 1. Normal or decreased FSH is seen in polycystic ovarian disease in females
- 2. FSH and LH are both decreased in failure of the pituitary or hypothalamus.



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est Name		Value	Unit	Biological Reference interval	
		PROLACTI	N		
OLACTIN: SERUM		11.88	ng/mL	3 - 25	
The major chemica	d by the anterior pituitary glan controlling prolactin secretion	Id and controlled by the hy n is dopamine, which inhib	oothalamus. its prolactin secret	ion from the pituitary. the prolactin level rises in response to	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Test Name		Value	Unit	Biological Reference interval	
	ANTI MU	JLLERIAN H	IORMONE (AMH) GEN	II	
	ORMONE (AMH) GEN II: SERUM HEMILUMINESCENCE IMMUNOASSAY)	4.202	ng/mL	0.05 - 11.00	
A Correlation of FER	TILITY POTENTIAL and AMH levels are	e:			
C	OVARIAN FERTILITY POTENTIAL		AMH VALU	IES IN (ng/mL)	
	OPTIMAL FERTILITY:		4.00 – 6.80 ng/	/mL	
SATISFACTORY FERTILITY:			2.20 – 4.00 ng/mL		

 LOW FERTILITY:
 0.30 – 2.20 ng/mL

 VERY LOW/UNDETECTABLE:
 0.00 – 0.30 ng/mL

 HIGH LEVEL:
 >6.8 ng/mL (PCOD/GRANULOSA CELL TUMOUR)

Anti Mullerian Hormone (AMH) is also known as Mullerian Inhibiting Substance provided by sertoli cells of the testis in males and by ovarian granulose cells in females upto antral stage in females.

IN MALES:

1. It is used to evaluate testicular presence and function in infants with intersex conditions or ambiguous genitalia, and to distinguish between cryptorchidism and anorchia in males

IN FEMALES:

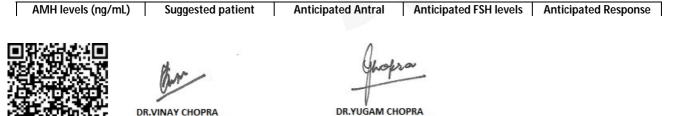
1. During reproductive age, follicular AMH productionbegins during the primary stage, peaks in preantral stage & has influence on follicular sensitivity to FSH which is impoetant in selection for follicular dominance. AMH levels thus represents the pool or number of primordial follicles but not thequality of oocytes. AMH does not vary significantly during menstrual cycle & hence can be measured independently of day of cycle. 2. Polycystic ovarian syndrome can elevate AMH 2 to 5 fold higher than age specific reference range & predict anovulatory, irregular cycles, ovarian tumours like Granulosa cell tumour are often associated with higher AMH levels.

3.Obese women are often associated with diminished ovarian reserve and can have 65% lower mean AMH levels than non-obese women. 4.In females , AMH levels do not change significantly throughout the menstrual cycle and decrease with age.

5.Assess Ovarian Reserve - correlates with the number of antral follicies in the ovaries.

6.Evaluate fertility potential and ovarian response in IVF- Women with low AMG levels are more likely to the poor ovarian responders. 7.Assess the condition of Polycystic Ovary and premature ovarian failure.

A combination of Age, Ultrasound markers-Ovarian Volume and Antral Follicle Count, AMH and FSH levels are useful for optimal assessment of ovarian reserve. Studies in various fertility clinics are ongoing to establish optimal AMH concentretaion for predicting response to invitro fertilization, however, given below is suggested interpretative reference.



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Dr. Vinay Chopra



Dr. Yugam Chopra

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Test Name	Value		Unit	Biological Reference interval	
	Categorization for fertility based on AMH for age group (20 to 45 yrs)	Follicle counts	(day 3)	to IVF/COH cycle	
Below 0.3	Very low	Below 4	Above 20	Negligible/Poor	
0.3 to 2.19	Low	4 - 10	Usually 16 - 20	Reduced	
2.19 t0 4.00	Satisfactory	11 - 25	Within reference range or between 11 - 15	Safe/Normal	
Above 4.00	Optimal	Upto 30 and Above	Within reference range or between 11 – 15 or Above 15	Possibly Excessive	

INCREASED:

1.Polycystic ovarian syndrome (most common)

2. Ovarian Tumour: Granulosa cell tumour

DECREASED:

1. Anorchia, Abnormal or absence of testis in males

2.Pseudohermaphroditism

3.Post Menopause

NOTE:

1.AMH measurement alone is seldom suffcient for diagnosis and results should be interpreted in the light of clinical finding and other relevant test such as ovarian ultrasonography(In fertility applications); abdominal or testicular ultrasound(intersex or testicular function applications); measurement of sex steroids (estradiol,Progesterone,Testosterone),FSH, Inhibin B (For fertility), and Inhibin A and B (for tumour work up). 2.Conversion of AMH grom ng/mL to pmol/L can be performed by using equation 1 ng/mL = 7.14 pmol/L

*** End Of Report ***





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