

KOS Diagnostic Lab

(A Unit of KOS Healthcare)



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME : Mr. SAHIL

AGE/ GENDER : 30 YRS/MALE **PATIENT ID** : 1806705

COLLECTED BY :012503260014 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 26/Mar/2025 08:52 AM BARCODE NO. :01527774 **COLLECTION DATE** : 26/Mar/2025 08:53AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 26/Mar/2025 04:18PM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Value Unit Test Name **Biological Reference interval**

ENDOCRINOLOGY

FOLLICLE STIMULATING HORMONE (FSH)

FOLLICLE STIMULATING HORMONE (FSH): SERUM 15.24 mIU/mL FEMALE FOLLICULAR PHASE:

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY) 2.0 - 15.0

FEAMLE LUTEAL PHASE: 2.0 -

12.0

FEMALE OVULATORY PHASE:

2.0 - 25.0

MENOPAUSAL: >40.0 PREGNANCY: 0.0 - 12.0

PRIMARY OVARIAN FAILURE:

40.0 - 150.0 MALE: 2.0 - 15.0

- 1. Gonadotropin-releasing hormone from the hypothalamus controls the secretion of the gonadotropins, follicle-stimulating hormone (FSH) and luteinizing hormone (LH) from the anterior pituitary.

 2. 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:

 1. An adjunct in the evaluation of menstrual irregularities.
- 2. Evaluating patients with suspected hypogonadism.
- 3. Predicting ovulation4. 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. Complété testicular feminization syndrome.
- 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 females6. 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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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

: 26/Mar/2025 12:03PM

NAME : Mr. SAHIL

AGE/ GENDER : 30 YRS/MALE **PATIENT ID** : 1806705

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REPORTING DATE

TESTOSTERONE: TOTAL

TESTOSTERONE - TOTAL: SERUM 2.27 0.47 - 9.80ng/mL

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

CLIENT CODE.

1.Testosterone is secreted in females by the ovary and formed indirectly from androstenedione in adrenal glands.
2.In males it is secreted by the testes. It circulates in blood bound largely to sex hormone binding globulin (SHBG). Less than 1% of the total testosterone is in the free form.

3. The bioavailable fraction includes the free form and that "weakly bound" to albumin (40% of the total in men and 20% of the total in women) and bound to cortisol binding globulin (CBG). It is the most potent circulating androgenic hormone.

4. The total testosterone bound to SHBG fluctuates since SHBG levels are affected by medication, disease, sex steroids and insulin.

CLINIC USE:

1. Assesment of testicular functions in males 2. Management of hirsutism and virilization in females

INCREAŠED LEVELS:

- 1.Precocious puberty (Males) 2.Androgen resistance
- 3.Testoxicosis
- 4. Congenital Adrenal Hyperplasia
- 5. Polycystic ovarian disease
- 7. Ovarian tumors

DECREASED LEVELS:

- 1.Delayed puberty (Males) 2.Gonadotropin deficiency
- 3. Testicular defects
- 4. Systemic diseases

End Of Report ***



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