



		Chopra y & Microbiology) onsultant Pathologist	Dr. Yugam (MD (P CEO & Consultant Pa	Pathology)
NAME	: Miss. ROHINI GUPTA			
AGE/ GENDER	: 25 YRS/FEMALE	РАТ	IENT ID	: 1567291
COLLECTED BY	:	REG	. NO./LAB NO.	: 012408010023
REFERRED BY			ISTRATION DATE	: 01/Aug/2024 11:11 AM
BARCODE NO.	: 01514239		LECTION DATE	
				: 01/Aug/2024 11:15AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 01/Aug/2024 12:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN YROID STIMULATING	G HORMONE (TSH)	0 35 - 5 50
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN	YROID STIMULATING		0.35 - 5.50
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN	YROID STIMULATING	G HORMONE (TSH)	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUN iescent microparticle immung rasensitive	YROID STIMULATING	G HORMONE (TSH) μIU/mL	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	YROID STIMULATING	G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNG RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	YROID STIMULATING	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	YROID STIMULATING	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	YROID STIMULATING	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	YROID STIMULATING	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	YROID STIMULATING A 1.009 DASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	YROID STIMULATING	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	YROID STIMULATING A 1.009 DASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.27 – 5.50	
	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	YROID STIMULATING A 1.009 DASSAY)	C HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

INCREASED LEVELS:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5.Acute psychiatric illness

6.Severe dehydration.



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	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) M[m Chopra D (Pathology) nt Pathologist
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7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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est Name		Value	Unit	Biological Reference interval
y CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOA	SSAY)		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
<u>VTERPRETATION:</u>	pothalamus controls the secretic	n of the gonadotropi	ns, FSH and LH, from th	nits (alpha and beta). Gonadotropin-releasing e anterior pituitary. ivided by a mid cycle surge of both LH and FSF

Primary ovarian hypo dysfunction in females
 Polycystic ovary disease in females
 Primary hypogonadism in males
 LH IS DECREASED IN:
 Comparison by the set function in females

- 1. Primary ovarian hyper function in females
- 1 .FSH and LH are both decreased in failure of the pituitary or hypothalamus.



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- 2. Primary hypergonadism in males
- NOTE





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Test Name		Value	Unit	Biological Reference interval	
	FOLLIC	LE STIMULATIN	G HORMONE (FSH)		
	ING HORMONE (FSH): SERUM <i>escence immunoassay</i>)	5.44	mIU/mL	FEMALE FOLLICULAR PHASE: 3.03 8.08 FEMALE MID-CYCLE PEAK: 2.55 - 16.69 FEAMLE LUTEAL PHASE: 1.38 -	

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.

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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



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Test Name		Value	Unit	Biological Reference interval
			DLACTIN	
PROLACTIN: SERUM	ESCENT MICROPARTICLE IMMUNOASS	10.67 SAY)	ng/mL	3 - 25
2.Functional and orga 3.Primary hypothyroi 4.Section compressio 5.Chest wall lesions a 6.Ectopic tumors. 7.DRUGS:- Anti-Dopar receptors, or seroton ,Opiates, High doses of SIGNIFICANCE: 1.In loss of libido, impo from decreased musc 3. In males, prolactin lo 4. In women, prolactin 5.Clear symptoms and 4. Mild to moderately adenoma is present, 5 CAUTION: Prolactin values that e	pituitary adenoma (prolactinoma, nic disease of the hypothalamus. dism. n of the pituitary stalk. nd renal failure. ninergic drugs like antipsychotic of in reuptake (anti-depressants of a of estrogen or progesterone, antic actorrhea, oligomHyperprolactine tence, infertility, and hypogonadi le mass and osteoporosis. evels >13 ng/mL are indicative of h levels >27 ng/mL in the absence of d signs of hyperprolactinemia are increased levels of serum prolac 5. Whereas levels >250 ng/mL are	drugs, antinause all classes, ergo convulsants (val emia often resu sm in males. Po yperprolactinem f pregnancy and often absent in tin are not a rel usually associa be due to macr	ea/antiemetic drugs, Drugs t derivatives, some illegal c lporic acid), anti-tuberculou lts enorrhea or amenorrhe ostmenopausal and premen nia. I postpartum lactation are in patients with serum prolac liable guide for determining ted with a prolactin-secreti oprolactin (prolactin bound	that affect CNS serotonin metabolism, seroto rugs such as cannabis), Antihypertensive dru is medications (Isoniazid). a, and infertility in premenopausal females. opausal women, as well as men, can also suff <i>dicative of hyperprolactinemia.</i> tin levels <100 ng/mL. whether a prolactin-producing pituitary ng tumor. to immunoglobulin). Macroprolactin should
	5 1 51 1	* End Of R		





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