



	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. NEHA KANSAL			
AGE/ GENDER	: 39 YRS/FEMALE	PA	ATIENT ID	: 1567274
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012408010017
<b>REFERRED BY</b>	:	RI	EGISTRATION DATE	: 01/Aug/2024 10:30 AM
BARCODE NO.	: 01514233		DLLECTION DATE	: 01/Aug/2024 10:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 01/Aug/2024 03:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	DGLOBIN (HbA1c):	5.6	MOGLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION:	'LASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE			
REFERENCE GROUP		GLYCOSYLATED HEMOGLOGIB (HBAIC)		n %
	etic Adults >= 18 years	<5.7		
	lisk (Prediabetes)	5.7 - 6.4 >= 6.5		
Dia			>= 0.0 Age > 19 Years	
		Goals of Therapy: < 7.		
Therapeutic goals for glycemic control		Actions Suggeste		
Therapeutic	merapeutic goals for gryceniic control		Age < 19 Years	
Therapeutic			Age < 19 reals	

2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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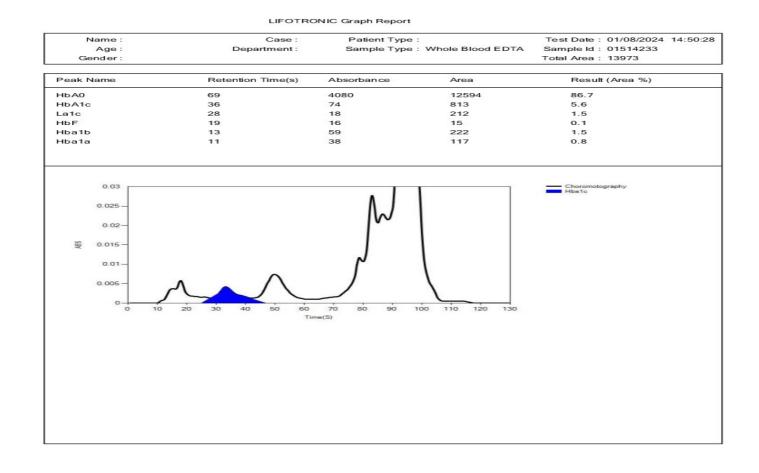
KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







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LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
			NG HORMONE (TSH)	
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM	YROID STIMULATI		0.35 - 5.50
	ING HORMONE (TSH): SERUM vescent microparticle immunc rasensitive	YROID STIMULATI	<b>NG HORMONE (TSH)</b> μIU/mL	
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNC TRASENSITIVE AGE	YROID STIMULATI	NG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ	
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS	YROID STIMULATI	NG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20	
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	YROID STIMULATI	NG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00	
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	YROID STIMULATI	NG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	
by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	YROID STIMULATI	NG 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 Brd GENERATION, ULT	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	YROID STIMULATI	NG 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 Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	YROID STIMULATI	NG 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 and GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO TRASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	YROID STIMULATI	NG 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 Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNO RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	YROID STIMULATI	NG 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 Brd GENERATION, ULT	ING HORMONE (TSH): SERUM VESCENT 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 STIMULATI	NG HORMONE (TSH) μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 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)

**USE**:- ISH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **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, lodine 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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Test Name		Value	Unit	Biological Reference interval

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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Test Name		Value	Unit	Biological Reference interval
				LUTEAL PHASE: 0.56 - 14.0 POST MENOPAUSAL WITHOUT HRT: 5.16 - 61.99
normone from the hy	pothalamus controls the secretion females, LH is essential for reprode e and a luteal phase.	n of the gonadotrop luction. In females,	pins, FSH and LH, from th the menstrual cycle is d	nits (alpha and beta). Gonadotropin-releasing e anterior pituitary. ivided by a mid cycle surge of both LH and FSH iversion of the residual follicle into a corpus

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- 1.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.

- 6. Polycystic ovary disease in females 7. Primary hypogonadism in males LH IS DECREASED IN:

- 1. Primary ovarian hyper function in females
- 2. Primary hypergonadism in males
- NOTE





	MD (Pathology & M	MD (Pathology & Microbiology)		<b>r. Yugam Chopra</b> MD (Pathology) Consultant Pathologist	
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Test Name		Value	Unit	Biological Reference interval	
	FOLLIC	LE STIMULAT	ING HORMONE (FSH)		
	NG HORMONE (FSH): SERUM ESCENCE IMMUNOASSAY)	6.87	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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Test Name	Value	Unit	Biological Reference interval
	PR	OLACTIN	
PROLACTIN: SERUM	29.07 <sup>H</sup>	ng/mL	3 - 25
<ol> <li>Physiological function bysiologic stimuli supervisiologic stimuli supervision infant.</li> <li>INCREASED (HYPERPR 1. Prolactin-secreting 2. Functional and orga 2. Functional and orga 3. Primary hypothyroid 4. Section compression 5. Chest wall lesions a 6. Ectopic tumors.</li> <li>DRUGS:- Anti-Dopa receptors, or seroton Opiates, High doses SIGNIFICANCE:</li> <li>In loss of libido, gal 2. Loss of libido, impo from decreased musci 3. In males, prolactin 4. Mild to moderately adenoma is present, CAUTION:</li> </ol>	pituitary adenoma (prolactinoma, which is 5 tim anic disease of the hypothalamus. idism. n of the pituitary stalk.	ction. In normal individuals, intercourse, hypoglycemia, hes more frequent in female bea/antiemetic drugs, Drugs of derivatives, some illegal of alporic acid), anti-tuberculou ults enorrhea or amenorrhe ostmenopausal and premen <i>mia.</i> <i>d postpartum lactation are in</i> <i>n</i> patients with serum prolace eliable guide for determining ated with a prolactin-secreti roprolactin (prolactin bounc	the prolactin level rises in response to postpartum period, and also is elevated in the s than males). that affect CNS serotonin metabolism, serotonin drugs such as cannabis), Antihypertensive drugs us medications (Isoniazid). a, and infertility in premenopausal females. opausal women, as well as men, can also suffer edicative of hyperprolactinemia. ctin levels <100 ng/mL. g whether a prolactin-producing pituitary ng tumor.
5	*** End Of R		
	CONSULTANT PATHOLOGIST CONS	JGAM CHOPRA ULTANT PATHOLOGIST 5, MD (PATHOLOGY)	



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.