

PKR JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

■ 0171-2532620, 8222896961 ■ pkrjainhealthcare@gmail.com

NAME : Mrs. MADHU

AGE/ GENDER : 37 YRS/FEMALE **PATIENT ID** : 1601865

COLLECTED BY : 122409040013 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 04/Sep/2024 02:12 PM BARCODE NO. : 12504491 **COLLECTION DATE** : 04/Sep/2024 02:19PM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 04/Sep/2024 04:47PM

CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

Test Name Value Unit **Biological Reference interval**

HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB)	12.2	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	3.98	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	34.7 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	87.2	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	30.6	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	35.1	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	12.6	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	42.2	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	21.91	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	27.56	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9680	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER DIFFERENTIAL LEUCOCYTE COUNT (DLC)	NIL	%	< 10 %
NEUTROPHILS	59	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		· ·	



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)





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Test Name	Value	Unit	Biological Reference interval
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	36	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5711	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3485 ^L	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	194	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKEI	290 RS .	/cmm	80 - 880
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	190000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by Hydro dynamic focusing, electrical impedence	14 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	108000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	56.7 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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Value Unit Test Name **Biological Reference interval**

ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR)

30H

mm/1st hr

0 - 20

: 04/Sep/2024 05:07PM

by MODIFIED WESTERGREN AUTOMATED METHOD

INTERPRETATION:

1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such

as C-reactive protein

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

- 1. ESR and C reactive protein (C-RP) are both markers of inflammation.

- CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while assignment and quining may decrease it. aspirin, cortisone, and quinine may decrease it



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Test Name Value Unit **Biological Reference interval**

CLINICAL CHEMISTRY/BIOCHEMISTRY **GLUCOSE RANDOM (R)**

95.57 GLUCOSE RANDOM (R): PLASMA mg/dL NORMAL: < 140.00

by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 140.0 - 200.0 DIABETIC: > OR = 200.0

CLIENT CODE.

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A random plasma glucose level below 140 mg/dl is considered normal.

2. A random glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prnadial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A random glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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Test Name	Value	Unit	Biological Reference interval		
	LIPID PROFILE : BASIC				
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	195.75	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0		
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)	168 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0		
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	64.62	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0		
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	97.53	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0		
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	131.13 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0		
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	33.6	mg/dL	0.00 - 45.00		
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	559.5	mg/dL	350.00 - 700.00		
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.03	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0		
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.51	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0		



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Test Name Value Unit **Biological Reference interval**

TRIGLYCERIDES/HDL RATIO: SERUM **RATIO** 3.00 - 5.002.6^L by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.

4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co-primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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SGOT/SGPT PROFILE

SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.39	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	35.64	U/L	0.00 - 49.00
SGOT/SGPT RATIO by CALCULATED, SPECTROPHOTOMETRY	0.74		

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:-

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)

DECREASED:-

- 1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
- 2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE.

I NOONOSTIO SIGNII IOANOE:	
NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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NAME : Mrs. MADHU

by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)

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Test Name Value Unit **Biological Reference interval**

UREA

REPORTING DATE

UREA: SERUM 27.34 mg/dL 10.00 - 50.00



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Test Name Value Unit **Biological Reference interval**

ENDOCRINOLOGY

THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM 1.36 μIU/mL 0.35 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

3rd GENERATION, ULTRASENSITIVE

INTERPRETATION:

AGE	REFFERENCE RANGE (μIU/mL)
0 – 5 DAYS	0.70 – 15.20
6 Days – 2 Months	0.70 - 11.00
3 – 11 Months	0.70 - 8.40
1 – 5 Years	0.70 - 7.00
6 – 10 Years	0.60 - 5.50
11 - 15	0.50 - 5.50
> 20 Years (Adults)	0.27 – 5.50
PRI	EGNANCY
1st Trimester	0.10 - 3.00
2nd Trimester	0.20 - 3.00
3rd Trimester	0.30 - 4.10

NOTE:-TSH levels are subjected to circardian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50 %. Hence time of the day has influence on the measured serum TSH concentration.

USE:- TSH 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.

- 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.



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)



440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)





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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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BETA HCG - TOTAL (QUANTITATIVE): MATERNAL

REPORTING DATE

BETA HCG TOTAL, PREGNANCY MATERNAL: < 1.20 mIU/mL < 5.0

CLIENT CODE.

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

INTERPRETATION:

MEN:	mIU/mI	< 2.0	
NON PREGNANT PRE-MENOPAUSAL WOMEN:	mIU/mI	< 5.0	
MENOPAUSAL WOMEN:	mIU/mI	< 7.0	
BETA HCG EXPECTED VALUES IN ACCORDANCE TO WEEKS OF GESTATIONAL AGE			
WEEKS OF GESTATION	Unit	Value	
4-5	mIU/mI	1500 -23000	
5-6	mIU/mI	3400 - 135300	
6-7	mIU/mI	10500 - 161000	
7-8	mIU/mI	18000 - 209000	
8-9	mIU/ml	37500 - 219000	
9-10	mIU/mI	42800 - 218000	
10-11	mIU/mI	33700 - 218700	
11-12	mIU/mI	21800 - 193200	
12-13	mIU/mI	20300 - 166100	
13-14	mIU/mI	15400 - 190000	
2rd TRIMESTER	mIU/mI	2800 - 176100	
3rd TRIMESTER	mIU/mI	2800 - 144400	



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Test Name Value Unit **Biological Reference interval**

1.hCG is a Glycoprotein with alpha and beta chains. Beta subunit is specific to hCG.

2. It is largely secreted by trophoblastic tissue. Small amounts may be secreted by fetal tissues and by the adult ant pituitary. INCREASED:

1.Pregnancy

2.Gestationalsite & Non gestational trophoblastic neoplasia.

3.In mixed germ cell tumors

SIGNIFICANTLY HIGHER THAN EXPECTED LEVEL:

1.Multiple pregnancies & High risk molar pregnancies are usually associated with levels in excess of one lac mIU/ml. 2.Erythroblastosis fetalis & Downs syndrome.

DECREASED:

1. Ectopic pregnancy

2.Intra-uterine fetal death.

NOTE:

1. The test becomes positive 7-9 days after the midcycle surge that precedes ovulation (time of blastocyst implantation). Blood levels rise rapidly after this and double every 1.4 - 2 days.

2. Peak values are usually seen at 60-80 days of LMP. The levels then begin to taper and ebb out around the 20th week. These low levels are then maintained throughout pregnancy.

3. Doubling time: In intra-uterine pregnancy, serum hCG levels increase by approximately 66% every 48 hrs. Inappropriately rising serum hCG levels are suggestive of dying or ectopic pregnancy.

Spuriously high levels (Phantom hCG) may be seen in presence of heterophilic antibodies (found in some normal people). If persistently raised levels are seen in a non-pregnant patient with no evidence of other obvious causes for such an increase a urine hCG assay may help confirm presence of the heterophile antibodies.



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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)



A PIONEER DIAGNOSTIC CENTRE

■ 0171-2532620, 8222896961 **■** pkrjainhealthcare@gmail.com

REPORTING DATE

NAME : Mrs. MADHU

AGE/ GENDER : 37 YRS/FEMALE **PATIENT ID** : 1601865

COLLECTED BY : 122409040013 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 04/Sep/2024 02:12 PM BARCODE NO. : 12504491 **COLLECTION DATE** : 04/Sep/2024 02:19PM

CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

: P.K.R JAIN HEALTHCARE INSTITUTE

Test Name Value Unit **Biological Reference interval**

FOLLICLE STIMULATING HORMONE (FSH)

FOLLICLE STIMULATING HORMONE (FSH): SERUM mIU/mL FEMALE FOLLICULAR PHASE: 3.03 -

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY) FEMALE MID-CYCLE PEAK: 2.55 -

16.69

FEAMLE LUTEAL PHASE: 1.38 -

: 04/Sep/2024 04:59PM

5.47

FEMALE POST-MENOPAUSAL:

26.72 - 133.41 MALE: 0.95 - 11.95

INTERPRETATION:

CLIENT CODE.

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.

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 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:

- Primary gonadal failure
 Complete testicular feminization syndrome.
- 3. Precocious puberty (either idiopathic or secondary to a central nervous system lesion)
- 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**

PROLACTIN

PROLACTIN: SERUM 12.38 ng/mL 3 - 25

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

INTERPRETATION:

1. Prolactin is secreted by the anterior pituitary gland and controlled by the hypothalamus.

The major chemical controlling prolactin secretion is dopamine, which inhibits prolactin secretion from the pituitary

3. Physiological function of prolactin is the stimulation of milk production. In normal individuals, the prolactin level rises in response to physiologic stimuli such as sleep, exercise, nipple stimulation, sexual intercourse, hypoglycemia, postpartum period, and also is elevated in the newborn infant.

- INCREASED (HYPERPROLACTEMIA):

 1. Prolactin-secreting pituitary adenoma (prolactinoma, which is 5 times more frequent in females than males).
- 2. Functional and organic disease of the hypothalamus.
- 3. Primary hypothyroidism.
- 4. Section compression of the pituitary stalk.
- 5. Chest wall lesions and renal failure.
- 6. Ectopic tumors
- 7.DRUGS:- Anti-Dopaminergic drugs like antipsychotic drugs, antinausea/antiemetic drugs, Drugs that affect CNS serotonin metabolism, serotonin receptors, or serotonin reuptake (anti-depressants of all classes, ergot derivatives, some illegal drugs such as cannabis), Antihypertensive drugs, Opiates, High doses of estrogen or progesterone, anticonvulsants (valporic acid), anti-tuberculous medications (Isoniazid).
- 1. In loss of libido, galactorrhea, oligomHyperprolactinemia often results enorrhea or amenorrhea, and infertility in premenopausal females. 2.Loss of libido, impotence, infertility, and hypogonadism in males. Postmenopausal and premenopausal women, as well as men, can also suffer from decreased muscle mass and osteoporosis.
- 3. In males, prolactin levels >13 ng/mL are indicative of hyperprolactinemia.
- 4. In women, prolactin levels >27 ng/mL in the absence of pregnancy and postpartum lactation are indicative of hyperprolactinemia.
- 5.Clear symptoms and signs of hyperprolactinemia are often absent in patients with serum prolactin levels < 100 ng/mL.
- 4. Mild to moderately increased levels of serum prolactin are not a reliable guide for determining whether a prolactin-producing pituitary adenoma is present, 5. Whereas levels >250 ng/mL are usually associated with a prolactin-secreting tumor.

CAUTION:

Prolactin values that exceed the reference values may be due to macroprolactin (prolactin bound to immunoglobulin). Macroprolactin should be evaluated if signs and symptoms of hyperprolactinemia are absent, or pituitary imaging studies are not informative.



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0.0 - 35.0

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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

Value Unit Test Name **Biological Reference interval**

TUMOUR MARKER

CANCER ANTIGEN 125 (CA 125): OVARIAN CANCER MARKER

CANCER ANTIGEN (CA) -125: SERUM

14.8 U/mL

by CMIA (CHEMILUMINESCENCE MICROPARTICLE IMMUNOASSAY)

INTERPRETATION:

1. Cancer antigen 125 (CA 125) is a glycoprotein antigen normally expressed in tissues derived from coelomic epithelia (ovary, fallopian tube,

peritoneum, pleura, pericardium, colon, kidney, stomach).
2. Serum CA 125 is elevated in approximately 80% of women with advanced epithelial ovarian cancer, but assay sensitivity is suboptimal in early

disease stages. The average reported sensitivities are 50% for stage I and 90% for stage II or greater.

3. Elevated serum CA 125 levels have been reported in individuals with a variety of nonovarian malignancies including cervical, liver, pancreatic, lung, colon, stomach, biliary tract, uterine, fallopian tube, breast, and endometrial carcinomas.

SIGNIFICANCE:

1. Evaluating patients' response to cancer therapy, especially for ovarian carcinoma
2. Predicting recurrent ovarian cancer or intra-peritoneal tumor.In monitoring studies, elevations of cancer antigen 125 (CA 125) >35 U/mL after de-bulking surgery and chemotherapy indicate that residual disease is likely (>95% accuracy). However, normal levels do not rule-out recurrence.

3. A persistently rising CA 125 value suggests progressive malignant disease and poor therapeutic response.

- 4. Physiologic half-life of CA 125 is approximately 5 days.
 5. In patients with advanced disease who have undergone cyto-reductive surgery and are on chemotherapy, a prolonged half-life (>20 days) may be associated with a shortened disease-free survival. NOTE:
 - 1. CA 125 levels. Hence this assay, regardless of level, should not be interpreted as absolute evidence for the presence or absence of malignant disease. The assay value should be used in conjunction with findings from clinical evaluation and other diagnostic procedures It is not recommended to use this test for the initial diagnosis of ovarian cancer.
 - 2. Falsely Elevated serum CA 125 levels have been reported in individuals with a variety of nonmalignant conditions including: cirrhosis, hepatitis, endometriosis, first trimester pregnancy, ovarian cysts, and pelvic inflammatory disease. Elevated levels during the menstrual cycle also have been reported.

*** End Of Report ***



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