



# MEDI PATH LAB

**Shubh Hotel Complex, Fafadil Chowk, Raipur (C.G.)**

Phone No:-0771-3581095, 4004019 Whatsapp:-9399897501

Booking ID	: 317775	Sample Collected On	: 12/07/2025
Receipt No.	: MP/244388	Report Released On	: 13/07/2025
Patient Name	: Mrs. Malini Dixit	Patient ID	: 20251271570010
Age	: 45 Y / F	Lab No	: 247
Referred By	: Dr. Veronica Yuel MD, DNB	Collected At	: Medi Path Lab

## ENZYMES

Investigation	Observed Value	Unit	Biological Reference Interval
<b>LDH ( Lactate Dehydrogenase )</b>			
LDH ( Lactate Dehydrogenase ) (IFCC UV Kinetic Method) Test Done By Fully Automated OPTIMA-2	283	U/L	230 - 460

## TUMOR/CANCER MARKERS

Investigation	Observed Value	Unit	Biological Reference Interval
<b>AFP (Alpha-fetoprotein)</b>			
AFP (Alpha-fetoprotein)	3.53	ng/ML	* Non-Pregnant: Upto 10 Pregnancy Wks. 16 -18 Wks.: < 71 19 -21 Wks.: 21 - 96 22 - 24 Wks. : 51 - 150
<i>Method: Enzymometric Immunoassay Test Done By Fully Automated AIA-360</i>			

Apha-fetoprotein (AFP) is a fetal globulin synthesized by the fetal liver, gastrointestinal tract and yolk sac. AFP is a glycoprotein containing 4.3% carbohydrate, of which approximately 20% is sialic acid. Within a year after birth, AFP concentration in a normal serum decreases to a barely detectable level. Elevated levels may also observe in some patients with nonseminomatous testicular caecinoma which is of purely seminoma origin. In both nonseminomatous testicular carcinoma and primary hepatocellular carcinoma in which AFP elevations were observed, the levels frequently decline during successful therapy. A few other common cancers, usually with hepatic metastases, increase AFP levels; these include carcinoma of: Stomach, Gallbladder, Prostate, Bronchi  
Increased AFP levels have also been reported in non-malignant disease including: Ataxia telangiectasia, Hereditary tyrosinemia, Neonatal hepatitis, Atresia of the biliary tract, Tumor of other tissue as well as in pregnant women.

### **CA-125 (Carbohydrate antigen 125) CLIA**

CA-125	6.03	U/ml	< 37
<i>Method: CLIA</i>			

CA-125 (cancer antigen 125, carcinoma antigen 125, or carbohydrate antigen 125) also known as mucin 16 or MUC16 is a protein in humans is encoded by the MUC16 gene. In the tandem repeat domain of MUC16 there is also small cysteine ring region on which are thought to be present the epitopes for known anti-CA125 antibodies. CA-125 is the most frequently used biomarker for ovarian cancer detection. Medical societies including American Congress of Obstetrician and Gynecologist recommended against women with risk of ovarian cancer having routein CA125 screening or other screening for this cancer.

Monitoring CA-125 blood serum levels is also useful for determining how ovarian cancer is responding to treatment ( with the duration of disease -free survival correlating with the rate of fall CA-125) and for predicting a patient's prognosis after treatment. This is because the persistence of high levels of CA-125 during therapy is associated with poor survival rates in patient.

### **CA-19-9 (Pancreatic Cancer Marker)**

CA-19-9	21.56	U/mL	< 37 U/ml
<i>Method: Enzymometric Immunoassay Test Done By Fully Automated AIA-360</i>			

Carbohydrate Antigen 19-9 (CA 19-9) is a digestive cancer associated antigen. CA 19-9 exists in the blood in the form of a mucinous glycoprotein. CA 19-9 is found in not only tumor tissue, but also in the pancreas, gallbladder, meconium and saliva. The level of serum CA 19-9 is elevated in pancreatic cancer, biliary cancer, colon cancer and liver cancer. Since false positive rate is less for benign diseases, measurement of CA 19-9 is widely used as an effective test for diagnosis of malignant tumors of pancreas and biliary and as an efective tool to make a decision of medical treatment effectiveness and to do follow-ups.

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*Ali*

**Dr. A. Lirani**  
**MBBS, DCP, CTM**

**Reg No. C.G.M.C. 4903/2013**

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**CEA (Carcino Embryonic Antigen)**

CEA	0.99	ng/ml	* Smoker <10
			* Non Smoker < 7

Test Done By Fully Automated AIA-360

Carcinoembryonic antigen (CEA), is normally present at very low concentration in the blood of healthy adults. The level of serum CEA is elevated in many gastrointestinal cancers, such as, colon cancer, pancreatic cancer and gastric cancer, and there have been some positive cases of lung cancer, uterine cancer, ovarian cancer and embryonic carcinoma. Since the positive rate is low in benign diseases, CEA assay is widely used as an effective clinical test for diagnosing, assessing therapeutic effects and monitoring these malignancies. Preoperative CEA levels may be of prognostic value since the level of elevation is correlated with body burden of tumor.

**TUMOR/FERTILITY HORMONES**

Investigation	Observed Value	Unit	Biological Reference Interval
<b>Beta Human Chorionic Gonadotropin Hormone</b>			
<b>HCG/BHCG</b>			
Method: Chemiluminescence Immunoassay	0.17	mIU/ml	* Non Pregnant : < 10
Test Done By Fully Automated MAGLUMI 2000			
* Pregnancy Weeks:			
2 - 3 : 90 - 4590 mIU/ml			
3 - 4 : 462 - 10940 mIU/ml			
4 - 5 : 1065 - 68245 mIU/ml			
5 - 6 : 7458 - 118515 mIU/ml			
6 - 7 : 14223 - 175638 mIU/ml			
7 - 8 : 31510 - 184628 mIU/ml			
8 - 12 : 28639 - 224919 mIU/ml			
12 - 16 : 9870 - 106917 mIU/ml			
16 - 18 : 7924 - 56882 mIU/ml			

Human chorionic gonadotropin, produced by the placenta after implantation, is a glycoprotein composed of 237 amino acids with a molecular mass TSH & Beta Sub Unit is unique to hCG.

HCG interacts with the LHCG receptor of the ovary and promotes the maintenance of the corpus luteum during the beginning of pregnancy. This allows the corpus luteum to secrete the hormone progesterone during the first trimester.

The presence of hCG is detected in some pregnancy test. Some cancerous tumors produce this hormone. Therefore, elevated levels measured when the patient is not pregnant can lead to a cancer diagnosis and, if high enough, paraneoplastic syndromes. hCG-Positive indicates an implanted blastocyst and mammalian embryogenesis. These can be done to diagnose and monitor germ cell tumors and gestational trophoblastic disease.

--- End Of Report ---

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