



FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL # MOHALI,

MOHALI 160062 7087030817 ACCESSION NO: **0006WB022557**PATIENT ID: FH.12316166

CLIENT PATIENT ID: UID:12316166

ABHA NO

AGE/SEX :41 Years Male
DRAWN :25/02/2023 08:48:00
RECEIVED :25/02/2023 14:09:45
REPORTED :25/02/2023 16:25:09

# **CLINICAL INFORMATION:**

UID:12316166 REQNO-1377027

CORP-OPD

BILLNO-10021230PCS002735 BILLNO-10021230PCS002735

Test Report Status	<u>Final</u>	Results	Biological Reference Interval	Units

HAEMATOLOGY - CBC				
CBC-5, EDTA WHOLE BLOOD				
BLOOD COUNTS, EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)  METHOD: SLS- HEMOGLOBIN DETECTION METHOD	16.1	13.0 - 17.0	g/dL	
RED BLOOD CELL (RBC) COUNT METHOD: HYDRODYNAMIC FOCUSING	5.43	4.5 - 5.5	mil/μL	
WHITE BLOOD CELL (WBC) COUNT METHOD: FLOWCYTOMETRY	7.12	4.0 - 10.0	thou/µL	
PLATELET COUNT  METHOD: HYDRO DYNAMIC FOCUSING METHOD / MICROSCOPY	205	150 - 410	thou/µL	
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV) METHOD: HYDRODYNAMIC FOCUSING	51.0 High	40.0 - 50.0	%	
MEAN CORPUSCULAR VOLUME (MCV) METHOD: CALCULATED PARAMETER	93.9	83.0 - 101.0	fL	
MEAN CORPUSCULAR HEMOGLOBIN (MCH)  METHOD: CALCULATED PARAMETER	29.7	27.0 - 32.0	pg	
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION(MCHC) METHOD: CALCULATED PARAMETER	31.6	31.5 - 34.5	g/dL	
RED CELL DISTRIBUTION WIDTH (RDW)  METHOD: CALCULATED PARAMETER	13.4	11.6 - 14.0	%	
MENTZER INDEX METHOD: CALCULATED PARAMETER	17.3			
MEAN PLATELET VOLUME (MPV)  METHOD: CALCULATED PARAMETER	13.1 High	6.8 - 10.9	fL	
WBC DIFFERENTIAL COUNT				
NEUTROPHILS  METHOD: FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY	58	40.0 - 80.0	%	
LYMPHOCYTES	29	20.0 - 40.0	%	

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ILLNO-10021230PC5002735				
Results	Biological Reference I	nterval Units		
10	2.0 - 10.0	%		
03	1 - 6	%		
00	0 - 2	%		
4.13	2.0 - 7.0	thou/µL		
2.06	1.0 - 3.0	thou/µL		
0.71	0.2 - 1.0	thou/µL		
0.21	0.02 - 0.50	thou/µL		
2.0				
	10 03 00 4.13 2.06 0.71 0.21	10		

Interpretation(s)

RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13) from Beta thalassaemia trait

(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.

WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504 This ratio element is a calculated parameter and out of NABL scope.

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# **HAEMATOLOGY**

# **ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD**

0 - 14mm at 1 hr E.S.R

METHOD: WESTERGREN METHOD

#### Interpretation(s)

ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD-TEST DESCRIPTION :-

Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an results and response it is a non-specific less that may be elevated in a number or different conditions. It pr inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change. **TEST INTERPRETATION** 

Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging

Finding a very accelerated ESR(>100 mm/hour) in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis). In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.

Decreased in: Polycythermia vera, Sickle cell anemia

False elevated ESR: Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia False Decreased: Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine, salicylates)

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition; 2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin; 3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th edition.

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	BIOCHEMISTRY		
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL  METHOD: DIAZONIUM ION, BLANKED (ROCHE)	0.63	UPTO 1.2	mg/dL
BILIRUBIN, DIRECT  METHOD: DIAZOTIZATION	0.24	0.00 - 0.30	mg/dL
BILIRUBIN, INDIRECT  METHOD: CALCULATED PARAMETER	0.39	0.00 - 0.60	mg/dL
TOTAL PROTEIN  METHOD: BIURET	7.6	6.6 - 8.7	g/dL
ALBUMIN METHOD: BROMOCRESOL GREEN	4.1	3.97 - 4.94	g/dL
GLOBULIN	3.5	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
METHOD: CALCULATED PARAMETER			
ALBUMIN/GLOBULIN RATIO  METHOD: CALCULATED PARAMETER	1.2	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	25	0 - 40	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)  METHOD: UV WITHOUT PYRIDOXAL-5 PHOSPHATE	25	0 - 41	U/L
ALKALINE PHOSPHATASE  METHOD: PNPP - AMP BUFFER	60	40 - 129	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)  METHOD: GAMMA GLUTAMYLCARBOXY 4NITROANILIDE	33	8 - 61	U/L
LACTATE DEHYDROGENASE  METHOD: LACTATE -PYRUVATE UV	165	135 - 225	U/L
GLUCOSE FASTING, FLUORIDE PLASMA			
FBS (FASTING BLOOD SUGAR) METHOD: HEXOKINASE	95	74 - 106	mg/dL

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BLOOD UREA NITROGEN (BUN), S	<u>SERUM</u>		
BLOOD UREA NITROGEN	9	6 - 20	mg/dL
METHOD : UREASE - UV			
URIC ACID, SERUM			
URIC ACID  METHOD: URICASE, COLORIMETRIC	6.1	3.4 - 7.0	mg/dL
GLYCOSYLATED HEMOGLOBIN(HI	BA1C), EDTA WHOLE BLOOD		
HBA1C	5.9 High	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 Therapeutic goals: < 7.0 Action suggested: > 8.0 (ADA Guideline 2021)	%
METHOD : HPLC			
ESTIMATED AVERAGE GLUCOSE METHOD: CALCULATED PARAMETER	(EAG) <b>122.6 High</b>	< 116.0	mg/dL
<u>CREATININE EGFR</u>			
CREATININE  METHOD: ALKALINE PICRATE-KINETIC	0.80	0.70 - 1.20	mg/dL
AGE	41		years
GLOMERULAR FILTRATION RATE	(MALE) 107	GFR of +90 normal or minimal kidney damage with normal GFR 89- 60 mild decrease 59-30 moderate decrease 29-15 severe decrease < 15 kidney failure (units: mL/min/1.73mSq.)	

**GLUCOSE POST-PRANDIAL, PLASMA** 

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PPBS(POST PRANDIAL BLOOD SUGAR)

102

Non-Diabetes 70 - 140

mg/dL

METHOD: HEXOKINASE

# Interpretation(s)

LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice. Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver, liver cancer, kidney failure, hemolytic anemia, pancreatitis, hemochromatosis. AST levels may also increase after a heart attack or strenuous activity. ALT test measures the amount of this enzyme in the blood. ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas. It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis, sometimes due to a viral infection, is chemia to the liver, chronic

hepatitis, obstruction of bile ducts, cirrhosis.

ALP is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts and bone. Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget"""'s disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson"""'s disease.GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity. Serum GGT has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver, biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-inducing drugs etc. Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom''''''s disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc GLUCOSE FASTING,FLUORIDE PLASMA-**TEST DESCRIPTION** 

Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and sothat no glucose is excreted in the urine

# Increased in

Diabetes mellitus, Cushing's syndrome (10 - 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides.

Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency, hypopituitarism,diffuse liver disease, malignancy (adrenocortical, stomach,fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases(e.g., galactosemia),Drugs- insulin, ethanol, propranolol; sulfonylureas,tolbutamide, and other oral hypoglycemic agents.

**NOTE:** While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within individuals. Thus, glycosylated hemoglobin(HbA1c) levels are favored to monitor glycemic control.

High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic

index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.

BLOOD UREA NITROGEN (BUN), SERUM-Causes of Increased levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)

Causes of decreased level include Liver disease, SIADH.

URIC ACID, SERUM-Causes of Increased levels:-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic

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syndrome

Causes of decreased levels-Low Zinc intake,OCP,Multiple Sclerosis GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-Used For:

- 1.Evaluating the long-term control of blood glucose concentrations in diabetic patients.
- 2.Diagnosing diabetes.
- 3.Identifying patients at increased risk for diabetes (prediabetes).

The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.

1.eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.

- 2. eAG gives an evaluation of blood glucose levels for the last couple of months. 3. eAG is calculated as eAG (mg/dl) = 28.7 \* HbA1c 46.7

**HbA1c Estimation can get affected due to :**I.Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss,hemolytic anemia) will falsely lower HbA1c test results. Fructosamine is recommended in these patients which indicates diabetes control over 15 days II. Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin.

III.Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods, falsely increasing results.

IV.Interference of hemoglobinopathies in HbA1c estimation is seen in

a.Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c. b.Heterozygous state detected (D10 is corrected for HbS & HbC trait.)

C.HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c.Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy

CREATININE EGFR-GFR— Glomerular filtration rate (GFR) is a measure of the function of the kidneys. The GFR is a calculation based on a serum creatinine test. Creatinine

is a muscle waste product that is filtered from the blood by the kidneys and excreted into urine at a relatively steady rate. When kidney function decreases, less creatinine is excreted and concentrations increase in the blood. With the creatinine test, a reasonable estimate of the actual GFR can be determined.

A GFR of 60 or higher is in the normal range. A GFR below 60 may mean kidney disease.

A GFR of 15 or lower may mean kidney failure.

Estimated GFR (eGFR) is the preferred method for identifying people with chronic kidney disease (CKD). In adults, eGFR calculated using the Modification of Diet in Renal Disease (MDRD) Study equation provides a more clinically useful measure of kidney function than serum creatinine alone

This equation takes into account several factors that impact creatinine production, including age, gender, and race. In children, eGFR is calculated using original schwartz equation.

The equation has not been validated in children & will only be reported for patients > 16 years of age. The equation is normalized for an average adult body surface area of 1.73m², weight & height adjustment is not necessary.

The IDMS Traceable MDRD equation has not been validated in children & will only be reported for patients = 18 years of age. The equation is normalized for an average adult body surface area of 1.73m², weight & height adjustment is not necessary. Estimation of GFR in children and adolescence (0- < 18 years) is performed by bedside IDMS- Traceable Schwartz formula

GLUCOSE POST-PRANDIAL, PLASMA-Spectrophotometry Hexokinase

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віс	OCHEMISTRY - LIPID		
LIPID PROFILE, SERUM			
CHOLESTEROL, TOTAL	115	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD: CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE			
TRIGLYCERIDES	96	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/= 500 Very High	mg/dL
METHOD: ENZYMATIC ASSAY		, -	
HDL CHOLESTEROL	29 Low	< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE - PEG			
LDL CHOLESTEROL, DIRECT	70	< 100 Optimal 100 - 129 Near or above optimal 130 - 160 Borderline High 161 - 189 High >/= 190 Very High	mg/dL
METHOD : CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE			
NON HDL CHOLESTEROL	86	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
VERY LOW DENSITY LIPOPROTEIN	19.2	Desirable value : 10 - 35	mg/dL
METHOD: CALCULATED PARAMETER			
CHOL/HDL RATIO	4.0	3.3-4.4 Low Risk 4.5-7.0 Average Risk 7.1-11.0 Moderate Risk > 11.0 High Risk	

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MOHALI, 160062 PUNJAB, INDIA

Patient Ref. No. 6000002959617

Tel: 0172-469-2222 Extn. 6726, 6727), 0172-469-2221 - CIN - L85110DL1996PLC076704





FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL # MOHALI,

MOHALI 160062 7087030817 ACCESSION NO: **0006WB022557**PATIENT ID : FH.12316166

CLIENT PATIENT ID: UID:12316166

ABHA NO :

AGE/SEX :41 Years Male
DRAWN :25/02/2023 08:48:00
RECEIVED :25/02/2023 14:09:45
REPORTED :25/02/2023 16:25:09

**CLINICAL INFORMATION:** 

UID:12316166 REQNO-1377027

CORP-OPD

BILLNO-10021230PCS002735 BILLNO-10021230PCS002735

Test Report Status	<u>Final</u>	Results	Biological Reference Interval Units
LDL/HDL RATIO		2.4	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk

METHOD: CALCULATED PARAMETER

Interpretation(s)

Ritu Pankoy

Dr. Ritu Pankaj, MD, PDCC Senior Consultant, 30897 Mong

Ms. Hardeep Kaur, M.Sc. Biochemistry Meenahahi Malhotra

Dr. Meenakshi Malhotra, MD Senior Consultant,48159





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Results **Test Report Status Biological Reference Interval** <u>Final</u>

# **CLINICAL PATH - URINALYSIS**

# **URINALYSIS**

# PHYSICAL EXAMINATION, URINE

YELLOW

METHOD: MANUAL EXAMINATION

**APPEARANCE CLEAR** 

METHOD: MANUAL EXAMINATION

# CHEMICAL EXAMINATION, URINE

4.7 - 7.5 6.0

METHOD: DOUBLE INDICATOR PRINCIPLE

SPECIFIC GRAVITY 1.025 1.003 - 1.035

METHOD: REFLECTANCE PHOTOMETRY (IONIC CONCENTRATION)

NOT DETECTED NOT DETECTED PROTFIN

METHOD: REFLECTION PHOTOMETRY (PROTEIN ERROR INDICATOR)

NOT DETECTED NOT DETECTED GLUCOSE

METHOD: REFLECTANCE PHOTOMETRY (GLUCOSE OXIDASE METHOD)

NOT DETECTED KETONES NOT DETECTED

METHOD: REFLECTION PHOTOMETRY (NITROPRUSSIDE)

NOT DETECTED NOT DETECTED

METHOD: REFLECTANCE PHOTOMETRY (BENZIDINE REACTION)

**BILIRUBIN** NOT DETECTED NOT DETECTED

METHOD: REFLECTANCE SPECTROPHOTOMETRY (DIAZO REACTION)

NORMAL **NORMAL** 

METHOD: REFLECTANCE PHOTOMETRY (EHRLICH'S REACTION)

NOT DETECTED NOT DETECTED

METHOD: REFLECTANCE SPECTROPHOTOMETRY (DIAZO REACTION)

MICROSCOPIC EXAMINATION, URINE

NOT DETECTED /HPF RED BLOOD CELLS NOT DETECTED

METHOD: MICROSCOPY

PUS CELL (WBC'S) /HPF NOT DETECTED 0-5

METHOD: REFLECTANCE PHOTOMETRY & MICROSCOPY

Meenahahi Malhotra

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Dr. Irneet Mundi, MD Associate Consultant, 34080

Dr. Meenakshi Malhotra, MD Senior Consultant, 48159

Dr. Ritu Pankaj, MD, PDCC Senior Consultant, 30897







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BILLNO-1002123OPCS002735				
Test Report Status	<u>Final</u>	Results	Biological Reference Int	erval Units
EPITHELIAL CELLS  METHOD: MICROSCOPY		0-1	0-5	/HPF
CASTS  METHOD: MICROSCOPY		NOT DETECTED		
CRYSTALS  METHOD: MICROSCOPY		NOT DETECTED		
BACTERIA  METHOD: MICROSCOPY		NOT DETECTED	NOT DETECTED	
YEAST		NOT DETECTED	NOT DETECTED	
Interpretation(s)				

Dr. Irneet Mundi, MD **Associate Consultant, 34080**  Meenahshi Malhotra

Dr. Meenakshi Malhotra, MD Senior Consultant, 48159

Dr. Ritu Pankaj, MD, PDCC Senior Consultant, 30897





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Results **Biological Reference Interval Test Report Status** <u>Final</u>

# **CLINICAL PATH - STOOL ANALYSIS**

# **STOOL: OVA & PARASITE**

# PHYSICAL EXAMINATION, STOOL

**COLOUR BROWN** 

CONSISTENCY WELL FORMED

NOT DETECTED NOT DETECTED **MUCUS** 

METHOD: MICROSCOPIC EXAMINATION

VISIBLE BLOOD **ABSENT ABSENT** 

NOT DETECTED ADULT PARASITE

METHOD: MANUAL

# MICROSCOPIC EXAMINATION, STOOL

**PUS CELLS** NOT DETECTED /hpf /HPF NOT DETECTED NOT DETECTED RED BLOOD CELLS

NOT DETECTED

METHOD: MICROSCOPIC EXAMINATION

NOT DETECTED **CYSTS** NOT DETECTED

METHOD: MICROSCOPIC EXAMINATION

OVA

METHOD: MICROSCOPIC EXAMINATION

NOT DETECTED NOT DETECTED

METHOD: MICROSCOPIC EXAMINATION

TROPHOZOITES NOT DETECTED NOT DETECTED

METHOD: MICROSCOPIC EXAMINATION

Interpretation(s)

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Test Report Status <u>Final</u> Results Biological Reference Interval Units		Test Report Status	<u>Final</u>	Results	<b>Biological Reference Interval</b>	Units
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SPECIALISED CHEMISTRY - HORMONE					
THYROID PANEL, SERUM					
T3 METHOD: SANDWICH (ECLIA)	133.3	80.00 - 200.00	ng/dL		
T4  METHOD: SANDWICH (ECLIA)	8.36	5.10 - 14.10	μg/dL		
TSH (ULTRASENSITIVE) METHOD: SANDWICH (ECLIA)	3.950	0.270 - 4.200	μIU/mL		

Interpretation(s)

Meenahshi Malhotra

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**REF. DOCTOR: SELF PATIENT NAME: SAMRAT DEEP** 

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**Test Report Status** Results **Biological Reference Interval** Units <u>Final</u>

# **SPECIALISED CHEMISTRY - TUMOR MARKER**

# **PROSTATE SPECIFIC ANTIGEN, SERUM**

PROSTATE SPECIFIC ANTIGEN

0.760

0.0 - 2.0

ng/mL

METHOD: SANDWICH (ECLIA)

#### Interpretation(s)

PROSTATE SPECIFIC ANTIGEN, SERUM-- PSA is detected in the male patients with normal, benign hyperplastic and malignant prostate tissue and in patients with prostatitis. - PSA is not detected (or detected at very low levels) in the patients without prostate tissue ( because of radical prostatectomy or cystoprostatectomy) and also in the female patient.

- It a suitable marker for monitoring of patients with Prostate Cancer and it is better to be used in conjunction with other diagnostic procedures
- Serial PSA levels can help determine the success of prostatectomy and the need for further treatment, such as radiation, endocrine or chemotherapy and useful in detecting residual disease and early recurrence of tumor.
- Elevated levels of PSA can be also observed in the patients with non-malignant diseases like Prostatitis and Benign Prostatic Hyperplasia.
- Specimens for total PSA assay should be obtained before biopsy, prostatectomy or prostatic massage, since manipulation of the prostate gland may lead to elevated PSA (false positive) levels persisting up to 3 weeks.
- As per American urological guidelines, PSA screening is recommended for early detection of Prostate cancer above the age of 40 years. Following Age specific reference range can be used as a guide lines-

Age of male Reference range (ng/ml)

0-2.5 0-3.5 40-49 years

50-59 years

60-69 years 70-79 years 0-6.5

(\* conventional reference level (< 4 ng/ml) is already mentioned in report, which covers all agegroup with 95% prediction interval)

References- Teitz ,textbook of clinical chemiistry, 4th edition) 2. Wallach's Interpretation of Diagnostic Tests

\*\*End Of Report\*\*

Please visit www.srlworld.com for related Test Information for this accession

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