







COMPLETE BLOOD COUNT (CBC with E.S.R).

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : Blood Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 13:54

Hospital/NH : **Print Date** 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
HEMOGLOBIN, Blood(SLS Hemoglobin)	13.7	12.00 - 15.00	g/dl
PACKED CELL VOLUME, Blood(Impedence)	40.9	36 - 46	%
TLC, Blood (Flow cytometry)	7750.00	4000 - 11000	/cumm
D.L.C., Blood (Flow Cytometry)			
POLYMORPHS	58.0	44.00 - 68.00	%
LYMPHOCYTES	36.0	25.00 - 44.00	%
EOSINOPHILS	1.00	0.00 - 4.00	%
MONOCYTES	5.0	0.00 - 7.00	%
ABSOLUTE NEUTROPHIL COUNT(Blood,	4495.00	2000 - 7000	/Cu mm
Calculated). ABSOLUTE LYMPHOCYTE COUNT(Blood,	2790.00	1000 - 3000	/Cu mm
Calculated). ABSOLUTE EOSINOPHIL COUNT BLOOD,	77.50	20 - 500	/Cu mm
(Calculated) PLATELET COUNT, Blood (Impedence)	338.00	150 - 410	1000/Cumm
E.S.R, Blood(Capillary Photometry)	3.00	0.00 - 20.00	1st hour
R B C COUNT, Blood (Impedence)	4.46	3.8 - 4.8	10^12/L
MCV, Blood(Calculated)	91.70	83 - 101	fl
MCH, Blood(Calculated)	30.72	27.00 - 32.60	Pg
MCHC, Blood(Calculated)	33.50	31.50 - 34.50	gm/dl
RDW, Blood (Calculated)	12.6	11.6 - 14.0	%
COMMENTS ON PERIPHERAL SMEAR:	The red blood cells are normocytic and normochromic. The white		

COMMENTS ON PERIPHERAL SMEAR: The red blood cells are normocytic and normochromic. The w (Microscopy, Leishman stain) cells are normal. The platelets are adequate.

*Test performed by SYSMEX XN-550.

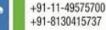
Absolute Neutrophil Count (ANC) <1000 - Markedly increased susceptibility of infectious diseases.

- Absolute Neutrophil Count (ANC) <500 control of endogenous microbial flora impaired.
- Absolute Neutrophil Count (ANC) <200 absent inflammatory processes.

Comments:

*** END OF REPORT ***



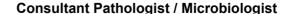




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REPORT

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : FLUORIDE Received :

PLASMA

Ref. Doctor : SELF **Reported** : 02/02/2021 14:12

Hospital/NH : Print Date 02/02/2021 15:33

InvestigationResultBiological Reference
IntervalUnitsFASTING GLUCOSE, Plasma(Hexokinase)77.060 - 100mg/dlComments:BLOOD GLUCOSE PP,Plasma,(Hexokinase)95.760.00 - 140.00mg/dl

Post 75 gms oral glucose: <140 = Normal, 140-199 = Impaired glucose tolerance, 200 or more = Diabetes.

Conditions in which the post prandial sugar is less than the fasting sugar:

1). Excessive increase in insulin. (2). Rapid gastric emptying. (3). Brisk glucose absorption.

The probable causes are:

1). Early type II diabetes. (2). Drugs like Salicylates, Beta Blockers, Pentamidine, Alcohol etc.(3). Foods with higher glycaemic index (4). Exercise in between samples. (5). Family history of diabetes. (6). Partial or total gastrectomy.

Comments:

*** END OF REPORT ***







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Consultant Pathologist / Microbiologist



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HbA1c

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : Blood Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:53

Hospital/NH : **Print Date** 02/02/2021 15:33

InvestigationResultUnitsGLYCOSYLATED HEMOGLOBIN (HbA1c)4.9%

Immunoturbidimetry

REFERENCE RANGE:

4.00 - 5.60 % Normal

5.70 - 6.40 % Prediabetes (The values should be co-related with Glucose levels)

 $\begin{array}{lll} 6.10 - 7.00 \ \% & \text{HbA1C indicates very good control in diabetes} \\ 7.10 - 8.00 \ \% & \text{HbA1C indicates adequate control in diabetes} \\ 8.10 - 9.00 \ \% & \text{HbA1C indicates suboptimal control in diabetes} \end{array}$

>9.00% HbA1C indicates poor control in diabetes

HbA1c (%) Average Glucose mg/dl

5	97
6	126
7	154
8	183
9	212
10	240
11	269
12	298

Note:

An estimated average glucose (eAG) can be calculated from the HbA1c values. The A1c test is also used to monitor the glucose control of diabetics over time. This helps to minimize the complications caused by chronically elevated glucose levels, such as progressive damage to kidneys, eyes, cardiovascular system, and nerves.

The A1c test, however, should not be used for screening for cystic fibrosis-related diabetes, people who have had recent severe bleeding or blood transfusions, those with chronic kidney or liver disease, or people with blood disorders such as iron-deficiency anemia, vitamin B12 deficiency anemia, and some Hemoglobin variants (e.g., patients with sickle cell disease or Thalassemia).

Comments:

*** END OF REPORT ***



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Consultant Pathologist / Microbiologist



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: MISS. MUSKAN CHANANA





0.00 - 1.00



13:09

mg/L



REPORT

EMAIL

Reference No. : 210211213 Reg. Date Age/Sex : 21 Years **FEMALE**

> : 02/02/2021 13:16 Collected

: 02/02/2021

Received Sample Type : Blood

: 02/02/2021 14:12 **Ref. Doctor** : SELF Reported

Hospital/NH **Print Date** 02/02/2021 15:33

Delivery

Result Biological Reference Investigation <u>Units</u>

1.02

Interval

CVD Risk Assessment

Patient

: 0.00 - 1.00 mg/L Low Average: 1.00 - 3.00 mg/L High : More Than 3.00 mg/L

CRP-HS, Serum(Immunoturbidimetry)

Reference Range For :-

Neonates 0.10 - 4.10 mg/L Children 0.10 - 2.80 mg/L

Comments:

*** END OF REPORT ***

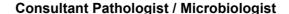






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Dr. Dhruti Manek MBBS, MD (Path)











LIPID PROFILE

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : SERUM Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:12

Hospital/NH : **Print Date** 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
CHOLESTROL, SERUM (Enz. Colorimetry)	116.4	80.00 - 200.00	mg/dl
HDL CHOLESTEROL (Enz.Colorimetry)	59.8	40.00 - 70.00	mg/dl
TRIGLYCERIDES, SERUM (Enz.Colorimetry)	70.35	40.00 - 150.00	mg/dl
VLDL CHOLESTEROL (Calculated)	14.07	24.00 - 45.00	mg/dl
LDL CHOLESTEROL (Enz.Colorimetry)	42.53	30.00 - 100.00	mg/dl
LDL / HDL RATIO (Calculated)	0.71	0.00 - 3.00	
CHOLESTEROL / HDL RATIO(Calculated)	1.95	0.00 - 4.00	

INTERPRETATION:-

Desirable : Less than 200 mg/dl Borderline High Risk : 200 to 239 mg/dl

High Risk : 240 mg/dl and over, on repeated values

Optimal Level for Cardiac Patients : Less than 200 mg/dl

TRIGLYCERIDES REFERECE RANGE > Normal - Less than 150 mg/dL,

> Borderline high - 150 to 199 mg/dL

> Borderline nign - 150 to 199 mg/d

> High - 200 to 499 mg/dL

> Very high - 500 mg/dL or above

HDI -C High HDL has generally been found to be protective, decreasing the risk of coronary Artery disease (CAD) in most people. However, some recent studies have shown that in some people with high HDL, the HDL is not protective and may, in fact result in higher risk for CAD than in people with normal HDL levels. In one study it was shown that people with CAD and high HDL had underlying genetic anomalies in enzymes important in lipid turnover. Another study showed that high levels of abnormally large HDL particles were associated with increased risk of CAD. Factors that elevate HDL concentrations include chronic alcoholism, treatment with oral estrogen replacement therapy, extensive aerobic exercise, and treatment with niacin, statins, or fibrates. Smoking reduces levels of HDL cholesterol, while quitting smoking leads to a rise in the plasma HDL level.

LDL Reference Range : Levels in terms of risk for coronary heart disease :

Adult levels:

Comments:

*** END OF REPORT ***







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L.F.T WITH G.G.T.P

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : SERUM Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:19

Hospital/NH : **Print Date** 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
BILIRUBIN (TOTAL), Serum(Diazo)	0.43	0.00 - 1.20	mg/dl
BILIRUBIN (DIRECT), Serum(Diazo)	0.21	0 - 0.30	mg/dl
BILIRUBIN (INDIRECT), Serum(Calculated)	0.22	0.00 - 0.70	mg/dl
TOTAL PROTEINS Serum(Biuret)	7.0	6.40 - 8.30	gms/dl
ALBUMIN, Serum(BCG)	4.8	3.50 - 5.20	gms/dl
GLOBULIN (Calculated)	2.20	2.00 - 3.50	gms/dl
A:G RATIO (Calculated)	2.18	1.00 - 2.00	
ALKALINE	63.4	35.00 - 105.00	U/L
PHOSPHATASE, Serum (Colorimetry)			
SGOT, Serum(IFCC)	14.5	1.00 - 32.00	U/I
SGPT, Serum(IFCC)	13.3	2.00 - 33.00	U/I
GGTP, Serum(Enz.Colorimetry)	15.3	5.00 - 36.00	U/L
Comments:			

*** END OF REPORT ***







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New Delhi - 110 016









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KIDNEY FUNCTION TEST (KFT)

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

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Ref. Doctor : SELF **Reported** : 02/02/2021 14:12

Hospital/NH : **Print Date** 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
UREA Serum(Urease)	23.77	12.00 - 45.00	mg/dl
UREA NITROGEN(Calculated)	11.11	6.00 - 20.00	mg/dl
CREATININE SERUM(Jaffe)	0.51	0.50 - 0.90	mg/dl
URIC ACID, Serum(Colorimetry)	5.1	2.40 - 5.70	mg/dl
CALCIUM, Serum(BAPTA)	9.42	8.60 - 10.00	mg/dl
PHOSPHATE, Serum(Phosphomolybdate)	4	2.50 - 4.80	mg/dl
SODIUM, Serum(ISE Indirect)	134.1	130.00 - 149.00	meq/L
POTASSIUM, Serum(ISE Indirect)	4.18	3.50 - 5.00	meq/L
CHLORIDE, Serum(ISE Indirect)	98.4	97.0 - 107.0	meq/L
Comments:			

*** END OF REPORT ***



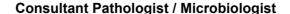




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FOLATE.

Reference No. : 210211213 Age/Sex 21 Years Reg. Date : 02/02/2021 13:09

Patient

: MISS. MUSKAN CHANANA

EMAIL

FEMALE

Collected

: 02/02/2021 13:16

Delivery Sample Type

: Blood

Received Reported

Print Date

: 02/02/2021 14:19

02/02/2021 15:33

Investigation

Ref. Doctor

Hospital/NH

Result

Biological Reference Interval

Units

FOLATE, Serum, (CLIA)

23.1

4.80 - 37.30

ng/ml

Summary and Explanation of the Test

· SFLF

Folates are compounds of pteroylglutamic acid (PGA) that function as coenzymes. Folate, with vitamin B12, is essential for DNA synthesis, which is required for normal red blood cell maturation. Humans obtain folate from dietary sources including fruits, green and leafy vegetables, yeast, and organ meats. Folate is absorbed through the small intestine and stored in the liver Low folate intake, malabsorption as a result of gastrointestinal diseases, pregnancy, and drugs such as phenytoin are causes folate Folate deficiency is also associated with chronic alcoholism. Folate and vitamin B12 deficiency impair DNA deficiency. synthesis, abnormal maturation causing macrocytic anemias. These anemias are characterized by of red blood cell precursors in the marrow, the presence of megaloblasts, and decreased red blood cell survival. Since both folate and vitamin B12 deficiency can cause macrocytic anemia, appropriate treatment depends on the differential diagnosis οf the deficiency. Serum folate measurement provides an early index of folate status. However, folate is much more concentrated in red blood cells than in serum so the red blood cell folate measurement more closely reflects tissue stores.4 Red blood cell folate concentration considered the most reliable indicator of folate status.

Limitations

Hemolysis significantly increases folate values due to the high folate concentrations in red blood cells. Methotrexate and leucovorin interfere with folate measurement because these drugs cross-react with folate binding proteins.

Comments:

*** END OF REPORT ***







H-11, Green Park Extension. New Delhi - 110 016



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Consultant Pathologist / Microbiologist



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Sample Type : SERUM Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:12

Hospital/NH : **Print Date** 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
FT3 Serum, (CLIA)	5.05	3.80 - 6.00	pmol/L
FREE T4, Serum,(CLIA)	12.3	7.00 - 15.96	pmol/L
TSH, Serum,(CLIA)	1.57	0.45 - 5.33	uIU/ml

*Pregnancy

Units First Trimester Second Timester Third Trimester

Free T4 pmol/L 6.00 - 16.28 5.19 - 13.86 5.77 - 15.79

* PHYSIOLOGICAL ALTERATIONS IN THYROID VALUES

* REFERENCE RANGE :-

Pregnancy

Units First Trimester Second Timester Third Trimester H μ IU/mL 0.05 - 3.70 0.31 - 4.35 0.41 - 5.18

*Referenge range has been changed due to change in testing platform.

Comments:

*** END OF REPORT ***







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Consultant Pathologist / Microbiologist



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Sample Type : Blood Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:53

Hospital/NH : Print Date 02/02/2021 15:33

Investigation	Result	Biological Reference	<u>Units</u>
		<u>Interval</u>	
INSULIN FASTING, Serum,(CLIA)	10.97	2.60 - 24.90	uU/ml
Comments:			
INSULIN PP, Serum,(CLIA)	27.37	4.00 - 56.00	mU/L

Summary and Explanation of the Test

Insulin is a protein hormone that is synthesized, stored, and secreted by the beta cells located in the islets of Langerhans in the pancreas. Insulin is responsible for regulating glucose concentrations in the blood. Initially in the beta cells, insulin exists as a large molecule (MW ~12000) called preproinsulin.

Insulin is released in response to the presence of glucose in the blood typically after the ingestion of a meal. A normal healthy individual produces 40 to 50 units of insulin each day. The half-life of insulin in serum or plasma is 5 to 10 minutes. Approximately 50% of the insulin released into the portal circulation is cleared by the liver. Insulin binds to receptor cells located on cell membranes of target tissues. The target tissues are primarily liver, fat, and muscle tissue. Insulin lowers glucose concentrations in the blood by stimulating glycogenolysis in the liver, triglyceride synthesis in adipose tissue, and protein synthesis in muscle. Recent studies have indicated that insulin and insulin receptors may play a role in learning and memory. The interruption of insulin production and insulin receptor activity may lead to deficits in learning and memory formation. Increased insulin production is common in the development of cancers. If insulin production is not stimulated, blood glucose levels will not be lowered and hyperglycemia results. Fasting hyperglycemia supports the diagnosis of diabetes mellitus.

There are two types of diabetes mellitus: type I or insulin-dependent diabetes mellitus (IDDM) and type II or non-insulin-dependent diabetes mellitus (NIDDM). Insulin therapy is used for insulin-dependent diabetes mellitus (IDDM) patients and many non-insulin-dependent diabetes mellitus (NIDDM) patients. In type I diabetes (IDDM) there is a deficiency of insulin. This can be the result of autoimmune destruction of the beta cells or the presence of autoantibodies to insulin. Many factors can play a role in the development of Type II diabetes (NIDDM). Type II diabetes (NIDDM) can result if there is a decreased biological response to circulating insulin (insulin resistance) or if there is decreased or diminished insulin secretion due to beta cell failure. Insulin levels are not typically used in the diagnosis or management of diabetic patients. Insulin levels can be useful in evaluating patients with fasting hypoglycemia, in determining insulin resistance in the general population, and in assessing abnormalities in beta cell secretory function. Insulin levels are used in studying the pathophysiology of diabetes.

Limitations

Heterophilic antibodies in human serum can react with reagent immunoglobulins, interfering with in vitro immunoassays. Patients routinely exposed to animals or to animal serum roducts can be prone to this interference and anomalous values may be observed. Additional information may be required for diagnosis. Insulin autoantibodies in human serum may interfere and cause discordant results.

Comments:

*** END OF REPORT ***



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13:09



VITAMIN B12.

Reference No. : 210211213

Age/Sex : 21 Years

Reg. Date **FEMALE**

: 02/02/2021

Patient

Ref. Doctor

: MISS. MUSKAN CHANANA

Delivery EMAIL Collected

: 02/02/2021 13:16

Sample Type

: SERUM

Received

Reported

: 02/02/2021 14:53

Hospital/NH

· SFLF

Print Date

02/02/2021 15:33

Investigation

Result

Biological Reference

Units

VITAMIN B12, Serum, (ECLIA)

486.00

Interval

pg/ml

Category Range (pg/mL)

Range (pg/mL) 197-771

Deficient

Normal

<197.00

Summary and Explanation of the Test

Vitamin B12, or cyanocobalamin, is a complex corrinoid compound containing four pyrrole rings that surround a single cobalt atom. Humans obtain vitamin B12 exclusively from animal dietary sources, such as meat, eggs, and milk. Vitamin B12 requires intrinsic factor, a protein secreted by the parietal cells in the gastric mucosa, for absorption. Vitamin B12 and intrinsic factor form a complex that attaches to receptors in the ileal mucosa, where proteins known as trans-cobalamins transport the vitamin B12 from the mucosal cells to the blood and tissues. Most vitamin B12 is stored in the liver as well as in the bone marrow and other tissues. Vitamin B12 and folate are critical to normal DNA synthesis, which in turn affects erythrocyte maturation. Vitamin B12 is for myelin sheath formation and maintenance. The body uses B12 stores economically, also necessary its verv vitamin B12 from the ileum and returning it to the liver so that very little is excreted.

abnormalities, and laboratory findings for B12 deficiency include neurological decreased serum B12 levels, and increased The impaired DNA synthesis associated with vitamin B12 deficiency causes excretion of methylmalonic acid. macrocytic These anemias are characterized by abnormal maturation of erythrocyte precursors in the bone marrow, which results in the presence of megaloblasts and in decreased erythrocyte survival. Pernicious anemia is a macrocytic anemia caused by vitamin B12 to lack of intrinsic factor. Low vitamin B12 intake, gastrectomy, deficiency that is due diseases of the small malabsorption, and trans-cobalamin deficiency can also cause vitamin B12 deficiency.

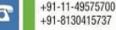
Limitations

* kindly Correlate Clinically

Comments:

*** END OF REPORT ***







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Dr. Dhruti Manek MBBS, MD (Path)











VITAMIN D, 25 - HYDROXY

Reference No. : 210211213

Age/Sex

: 21 Years **FEMALE** Reg. Date

: 02/02/2021

13:09

Patient

Ref. Doctor

: MISS. MUSKAN CHANANA

Delivery EMAIL

Sample Type

Collected

: 02/02/2021 13:16

: SERUM

Received

: 02/02/2021 14:53

Hospital/NH

: SELF

Reported **Print Date**

02/02/2021 15:33

Investigation

Result

Biological Reference Interval

<u>Units</u>

VITAMIN D, 25-HYDROXY, Serum,(CLIA)

66.4

75.00 - 250.00

nmol/L

INTERPRETATION

Deficient Insufficient <50.0

nmol/L

50.0 to <75.0 nmol/L

Sufficient Upper Safety Limit 75.0 - 250.0

nmol/L

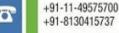
>250.0

nmol/L

Comments:

*** END OF REPORT ***







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Consultant Pathologist / Microbiologist



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COVID-19 ANTIBODY IgG.

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : Blood Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:19

Hospital/NH : Print Date 02/02/2021 15:33

<u>Investigation</u> <u>Result</u> <u>Biological Reference</u> <u>Units</u>

COVID-19 ANTIBODY IgG, (CLIA) SERUM

0.02^Non-Reactive

0.00 - 0.80

S/CO

0.00 To </= 0.80 NON REACTIVE >0.80 To <1.00 EQUIVOCAL

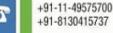
>/= 1.00 REACTIVE

Comments:

Interpretation

*** END OF REPORT ***















Dr. Asha Bhatnagar MBBS, Lab Director, Quality Incharge

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Dr. Sagar Tapas MD (Path)HOD, Biochemistry & Immunoassay Dr. Meenu Beri MD (Path) HOD, Haematology, Cytopathology & Clinical Path Dr. Dhruti Manek MBBS, MD (Path)







Interval



DHEA-S

Patient : MISS. MUSKAN CHANANA Delivery : EMAIL Collected : 02/02/2021 13:16

Sample Type : Blood Received :

Ref. Doctor : SELF **Reported** : 02/02/2021 14:12

Hospital/NH : Print Date 02/02/2021 15:33

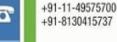
<u>Investigation</u> <u>Result</u> <u>Biological Reference</u> <u>Units</u>

DHEA-S 373.7 18.00 - 391.00 μg/dL

Comments:

*** END OF REPORT ***







H-11, Green Park Extension,

New Delhi - 110 016

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Dr. Angeli Misra MD(Path)Lab, Director HOD, Histopathology Dr. Asha Bhatnagar MBBS, Lab Director, Quality Incharge Dr. Sagar Tapas MD (Path)HOD, Biochemistry & Immunoassay **Dr. Meenu Beri** MD (Path) HOD, Haematology, Cytopathology & Clinical Path **Dr. Dhruti Manek** MBBS, MD (Path)