



Name : **MR. G.MAHESH**  
 Age/Gender : **34YEARS/MALE**  
 Sample Type : **WB EDTA**  
 Ref By : **DR.P.GIRI**  
 TypedBy : Md Masud Ansari

Bill Number : **M2294**  
 Bill Date : 16-Jun-2024 08:19 AM  
 Sample Collection : 16-Jun-2024 08:30 AM  
 Sample Received : 16-Jun-2024 08:31 AM  
 Reporting Date : 16-Jun-2024 06:22 PM

### COMPLETE BLOOD PICTURE ( CBP )

INVESTIGATION	RESULT	UNITS	NORMAL RANGE
<b>HAEMOGRAM</b>			
HAEMOGLOBIN (Method: Cell Counter)	14.5	gm/dL	13 - 18
RBC Count (Method: Cell Counter)	<b>5.3</b>	Millions/Cumm	3.8 - 4.8
WBC Count (Method: Cell Counter)	8,300	Cells/Cumm	4,000 - 11,000
RDW	12.0	%	11.0 - 16.0
<b>DIFFERENTIAL COUNT</b>			
NEUTROPHILS (Method: Cell Counter)	59	%	40 - 75
LYMPHOCYTES (Method: Cell Counter)	34	%	20 - 40
EOSINOPHILS (Method: Cell Counter)	03	%	01 - 06
MONOCYTES (Method: Cell Counter)	04	%	02 - 10
BASOPHILS (Method: Cell Counter)	00	%	00 - 00
PCV (Haematocrit) (Method: Cell Counter)	43	%	35 - 45
MCV (Method: Cell Counter)	86	FL	83 - 101
MCH (Method: Cell Counter)	29	PG	27 - 32
MCHC (Method: Cell Counter)	35	%	32 - 35
PLATELET COUNT (Method: Cell Counter)	2.39	Lakhs/Cumm	1.5 - 4.5
<b>PERIPHERAL SMEAR</b>			
RBCs	NORMOCYTIC NORMOCHROMIC		
WBCs	WITHIN NORMAL LIMITS		



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PLATELETS

ADEQUATE

Sugessted Clinical Correlation If necesarry Kindly Discuss.

-----End of the Report-----

Authorized Signatory



  
LAB INCHARGE



Name : **MR. G.MAHESH**  
Age/Gender : **34YEARS/MALE**  
Sample Type : **Citrate Blood**  
Reff By : **DR.P.GIRI**  
TypedBy : **Md Masud Ansari**

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**ERYTHROCYTE SEDIMENTATION RATE(ESR)**

**INVESTIGATION**

FIRST HOUR  
(Method: Westergrens)

**RESULT**

**19**

**UNITS**

mm/hr

**NORMAL RANGE**

1 - 50 YRS < 10 mm/hr  
51 - 60 YRS < 12 mm/hr  
61 - 70 yrs < 14 mm/hr  
> 70 yrs < 30 mm/hr

**Method:** Westergren

-----End of the Report-----

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### **BLOOD GROUPING & Rh TYPING**

#### **INVESTIGATION**

BLOOD GROUPING  
(Method: Slide Agglutination)

RH TYPING

#### **RESULT**

" A "

POSITIVE

**Method:** METHOD:SLIDE/TUBE AGGLUTINATION (Forward &Reverse Grouping)

Reconfirm the Blood Group and Rh Type(DU Test)& Cross-match before blood transfusion.

-----End of the Report-----

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**DEPARTMENT OF RADIOLOGY**

**X - RAY CHEST PA VIEW**

Trachea is in midline.

Both hila normal in density.

Cardiac silhouette maintained.

Both CP angles are clear.

Both lung parenchyma are normal.

Bony cage and soft tissues are normal.

**IMPRESSION: NORMAL STUDY.**

Suggested Clinical Correlation If necessary Kindly Discuss.

-----End of the Report-----



**Dr. DIVESH SARVAIYA DMRD**



Name : **MR. G.MAHESH**  
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 Sample Type : **SERUM**  
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### THYROID PROFILE ( TFT )

INVESTIGATION	RESULT	UNITS	NORMAL RANGE
TOTAL TRIIODOTHYRONINE ( T3 ) (Method: CLIA)	1.32	ng/ml	0.87 - 1.78
TOTAL THYROXINE ( T4 ) (Method: CLIA)	6.95	ug/dL	4.82 - 11.72
THYROID STIMULATING HORMONE (TSH) (Method: CLIA)	4.10	uIU/mL	0.34 - 5.60

#### Pregnancy Reference Ranges for TSH:

1st Trimester : 0.10 - 2.50

2nd Trimester : 0.20 - 3.0

3rd Trimester : 0.20 - 3.0

(Ref: Guidelines of American Association for the diagnosis and management of Thyroid Disease during pregnancy and Postpartum, Thyroid, 2011,21:1-46).

Primary malfunction of the thyroid gland may result in excessive (Hyper) or below normal (Hypo) release of T3 or T4. In Addition, as thyroid function is directly affected by TSH. Diagnostically, T3 concentration in serum changes faster and more markedly than T4, the T3 level is also an excellent indicator of the ability of the thyroid to respond to both stimulatory and suppressive tests. Under conditions of strong thyroid stimulation, the T3 level offers a good. It is especially useful in the differential diagnosis of primary (Thyroid) from secondary (Pituitary) and tertiary (Hypothalamus)hypothyroidism. In primary Hypothyroidism, TSH levels are significantly elevated, While in secondary and tertiary hypothyroidism, TSH levels are low. A TSH level between 6-12 mIU/L with normal T4 may represent subclinical or compensated Hypothyroidism. Suppressed TSH may be seen in elderly patients who do not have thyrotoxicosis (Since the T3 is low or normal). TSH may also be suppressed in depression.

\*A synchronous diurnal rhythm is found in serum TSH with low levels in the day time and higher levels at night. The variation is of the order of 50%, hence time of the day has influence on the measured serum TSH Concentrations.

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Authorized Signatory



LAB INCHARGE



Name : **MR. G.MAHESH**  
Age/Gender : **34YEARS/MALE**  
Sample Type : **URINE**  
Reff By : **DR.P.GIRI**  
TypedBy : Md Masud Ansari

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### CUE(COMPLETE URINE EXAMINATION)

INVESTIGATION	RESULT	NORMAL RANGE
<b>PHYSICAL EXAMINATION</b>		
QUANTITY	20 ml	
COLOUR	PALE YELLOW	
APPEARANCE	SLIGHTLY TURBID	
REACTION ( PH )	6.0	4.6 - 8.0
SPECIFIC GRAVITY	1.020	1.005 - 1.030
<b>CHEMICAL EXAMINATION</b>		
ALBUMIN	TRACE	NEGATIVE
SUGAR	NIL	NIL
UROBILINOGEN	NEGATIVE	NEGATIVE
BILE SALT	NEGATIVE	NEGATIVE
BILE PIGMENT	NEGATIVE	NEGATIVE
KETONE BODIES	NEGATIVE	NEGATIVE
<b>MICROSCOPIC EXAMINATION</b>		
PUS CELLS	3 - 4 / HPF	0 - 5 / HPF
RBC	NIL	NIL
EPETHILIAL CELLS	1 - 2 / HPF	0 - 5 / HPF
CRYSTALS	NIL	NIL
CASTS	NIL	NIL





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OTHERS

NIL

NIL

**Method:** Multi Reagent Strip / Chemical / Microscopy

-----End of the Report-----



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### CLINICAL BIOCHEMISTRY

#### RENAL FUNCTION TEST ( RFT )

INVESTIGATION	RESULT	UNITS	NORMAL RANGE
Blood Urea (Method: Urease-GLDH)	40	mg/dl	13 - 45
Serum Creatinine (Method: Alkaline Picrate)	0.9	mg/dl	Male: 0.9 - 1.4 Female: 0.9 - 1.3
Serum Calcium (Method: Arsenazo)	10.1	mg/dl	8.6 - 10.3
Serum Uric Acid (Method: Uricase)	6.9	mg/dl	Male: 3.6 - 7.7 Female: 2.5 - 6.8
<b>Serum Electrolytes</b>			
Sodium (Na) (Method: Alkaline Picrate)	138	mmol/L	135 - 145
Potassium (K) (Method: I S E-Direct)	4.0	mmol/L	3.5-5.3
Chloride (CL) (Method: I S E)	100	mmol/L	98 - 107

Sugessted Clinical Correlation If necesarry Kindly Discuss.

-----End of the Report-----

Authorized Signatory



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### LIVER FUNCTION TEST (LFT)

INVESTIGATION	RESULT	UNITS	NORMAL RANGE
TOTAL BILIRUBIN (Method: Jendrassik and Grof)	0.6	mg/dl	0.4 - 1.2
DIRECT BILIRUBIN (Method: Modified Jendrassik)	0.1	mg/dl	Up to 0.25
INDIRECT BILIRUBIN (Method: Calculated)	0.5	mg/dl	up to 1
SGPT( ALT) (Method: Kinetic: IFCC)	38	U/L	Male :Upto 40 Female :Upto 31
SGOT(AST) (Method: Kinetic IFCC)	24	U/L	Male: Upto 37 Female: Upto 31
ALKALINE PHOSPHATASE(ALP) (Method: PNPP AMP Buffer)	110	U/L	Adults : 30-120 Children: 47 - 406
TOTAL PROTEINS (Method: Biuret)	7.3	gm/dl	6.4 - 8.3
ALBUMIN (Method: BCG)	4.1	gm/dl	3.8 - 4.4 gm/dL
GLOBULIN (Method: Calculated)	3.2	gm/dl	2.6 - 3.9
A/G Ratio (Method: Calculated)	1.2		1.2-2.2

Total Bilirubin reference range in case of Premature neonates is :0 - 1day: 1.0 - 8.0, 1 - 2day: 6.0 - 12.0, 3 - 5day: 10.0 - 14.0

-----End of the Report-----

Authorized Signatory



LAB INCHARGE



Name : **MR. G.MAHESH**  
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Sample Type : **Fluoride Plasma**  
Reff By : **DR.P.GIRI**  
TypedBy : **Md Masud Ansari**

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### **FASTING BLOOD SUGAR ( FBS )**

<b>INVESTIGATION</b>	<b>RESULT</b>	<b>UNITS</b>	<b>NORMAL RANGE</b>
FASTING BLOOD SUGAR (Method: GOD/POD)	108	mg/dl	70 - 110
POST LUNCH BLOOD SUGAR (Method: GOD/POD)	139	mg/dl	80 - 160

#### **NOTE:**

The discordant post prandial blood glucose levels are observed in some of the conditions related to defective absorption,insufficient dietary intake,endocrine disorders,hypoglycemic drug overdose and reactive hypoglycemia etc...

Sugessted Clinical Correlation If necesarry Kindly Discuss.

-----End of the Report-----

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### Glycosylated Haemoglobin (HbA1c)

#### **INVESTIGATION**

#### **RESULT**

#### **UNITS**

#### **NORMAL RANGE**

GLYCATED HAEMOGLOBIN (HBA1C)  
(Method: HPLC)

5.8

%

Below 6.0% - Normal value  
6.0 - 7.0 % Good control  
7.0 - 8.0 % Fair Control  
8.0 - 10.0 % Unsatisfactory Control  
> 10.0 % Poor Control

AVERAGE BLOOD GLUCOSE  
(Method: Calculated)

119.76

mg/dl

90 - 120 mg/dl - Excellent control  
121 - 150 mg/dl - Good Control  
151 - 180 mg/dl - Average Control  
181 - 210 mg/dl - Action Suggeste  
> 211 mg/dl - Panic Value.

#### **INTERPRETATION:**

- Monitor diabetic patients compliance with therapetic regime and long term blood glucose level control.
- It is useful in evaluating the initial 1 - 2 months of diabetic control in a newly pregnant diabetic female.
- In differentiating stress induced transient glucose intolerance from true diabetic.
- It also confirms discrepancies between blood glucose self monitoring results produced by the patients and actual degree of overall control.
- Increased in chronic renal failure, iron deficiency anemia, splenectomy, and alcohol.
- Decreased in shortended RBC life span in presence of HbS, HbC after transfusion, pregnancy etc.
- Average Blood Glucose value is calculated from HBA1C value and it indicates Average Blood Sugar level over past three months.

Sugessted Clinical Correlation If necesarry Kindly Discuss.

-----End of the Report-----

**Authorized Signatory**




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### LIPID PROFILE

#### INVESTIGATION

#### RESULT

#### UNITS

#### NORMAL RANGE

TOTAL CHOLESTROL  
(Method: CHOD/POD)

181

mg/dl

Desirable Level: < 200  
Borderline : 200 - 239  
Undesirable : Above 239

HDL CHOLESTROL  
(Method: DIRECT/ENZYME ASSAY)

36

mg/dl

Desirable : > 60  
Optimal : 40-59  
Undesirable : < 40

LDL CHOLESTROL  
(Method: Calculated)

**123**

mg/dl

Optimal : < 100  
Near Optimal : 100 - 129  
Borderline High : 130 - 159  
High : 160 - 189  
Very High : Above 190

VLDL CHOLESTROL  
(Method: Calculated)

22

mg/dl

< 30

TRIGLYCERIDES  
(Method: GPO-PAP)

111

mg/dl

Desirable Level : < 150  
Borderline High : 150 - 199  
High : 200 - 499  
Very High : >= 500

CHOL/HDL RATIO  
(Method: Calculated)

5.0

Low Risk:3.3-4.4  
Average Risk :4.5-7.1  
Moderate Risk :7.2-11.0

\*National Cholesterol Education Programme Adult Treatment Panel III Guidelines (US)

-----End of the Report-----

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### WIDAL

#### INVESTIGATION

SALMONELLA TYPHI' O '

SALMONELLA TYPI' H '

SALMONELLA PARA TYPHI' AH'

SALMONELLA PARA TYPHI' BH'

BIOLOGICAL REFERENCE

#### RESULT

1 in 160 DILUTION

1 in 80 DILUTION

1 in 20 DILUTION

1 in 20 DILUTION

1:80 and above titers considered as positive

**Method:** SEMI QUANTITAVE SLIDE AGGLUTINATION

Demonstration of a rise in the titer of antibodies by testing two or more serum samples is more meaningful than a single test. Sample taken late in disease instead of rise in titer, fall in titer may be seen in some cases. Agglutination more than or equal to 1:80 is significant. Immunised person or patients who had prior infection may develop anamnestic response.

-----End of the Report-----

Authorized Signatory



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**C - REACTIVE PROTEINS ( CRP )**

INVESTIGATION	RESULT	UNITS	NORMAL RANGE
C – REACTIVE PROTEINS (Method: Immunoturbidimetry)	<b>13.6</b>	mg/L	0.0 - 6.0
INTERPRETAION	POSITIVE		

**Note :**

- 1.The CRP test is a sensitive indicator of inflammatory processes.
- 2.The determination of the CRP level can be used in therapy control
- 3.As with all the diagnostic methods, the final diagnosis should not be based on the result of a single test, but on a correlation of test results with other clinical findings.
- 4.The strength of agglutination is not indicative of the CRP concentration in the samples tested.

Please Corelate With Clinical Findings If Necessary Discuss

-----End of the Report-----

Authorized Signatory



LAB INCHARGE