



# GREEN CITY HOSPITAL

Near V-Mart, DIG Bungalow, Berasia Road, Bhopal  
AN ISO 2015-9001 & NABH CERTIFIED HOSPITAL

Reg. No. NH/6333/DEC-2017



## PATHOLOGY REPORT

Name : Mr. Hirdesh Kumar Verma CORP/ Age : 29 Years Sex : Male  
Advised By : GREEN CITY HOSPITAL Lab No. : OPD / 9 Date & : 28-Aug-2021  
Time : 4:33 pm

### HAEMOGRAM

Test Performed	Value Observed	Reference Range
Haemoglobin	12.8 gm%	13.5 - 18 gm%
R.B.C. count	4.92 mil./cmm.	4.5 - 6.5 mil./cmm.
Total WBC Count	4800 /cumm	4000 - 11000 /cumm
Packed Cell Volume	36.7 %	40 - 54 %
<b><u>DIFFERENTIAL COUNT</u></b>		
Neutrophil	55 %	40 - 70 %
Lymphocytes	40 %	20 - 45 %
Monocytes	03 %	2 - 8 %
Eosinophil	02 %	1 - 5 %
Basophil	00 %	0 - 1 %
<b><u>RBC Indices</u></b>		
MCV	74.6 fL	82 - 97 fL
MCH	26.0 pg	27 - 32 pg
MCHC	34.8 %	32 - 36 %
<b><u>Platelets Indices</u></b>		
Platelet Count	1.39	1.5 - 4.5
ESR	12	0 - 16 mm.FHR

*Manal Asraf Ali*

Dr. Manal Asraf Ali

MBBS,DCP,DNB

Reg No.19938

**Technologist**

Please Correlate clinically as well as with other investigative findings. This report is not valid for medico legal purpose.

**For Emergency / Ambulance Service Contact No.: 8120401607, 0755-2733323**



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Name : Mr. Hirdesh Kumar Verma CORP/ Age : 29 Years Sex : Male  
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Time : 4:36 pm

### LIVER FUNCTION TEST

Test Performed	Value Observed	Reference Range
Total Bilirubin	0.98 mg/dl	0.3 - 1.1 mg/dl
Direct Bilirubin	0.28 mg/dl	0.1 - 0.3 mg/dl
Indirect Bilirubin	0.7 mg/dl	0.2 - 0.8 mg/dl
SGOT	32.6 U/L	5 - 37 U/L
SGPT (ALT)	38.4 U/L	5 - 42 U/L
Alkaline Phosphatase	210.6 U/L	A: <310 ; C: <645 U/L
Total Protein	6.6 gm/dl	6.0 - 8.5 gm/dl
Albumin	3.5 gm/dl	3.2 - 5.5 gm/dl
Globulin	3.1 gm/dl	2.3 - 3.5 gm/dl

### RENAL PROFILE

Test Performed	Value Observed	Reference Range
Serum Urea	24.2 mg/dl	10 - 45 mg/dl
Serum Creatinine	0.74	M : < 1.2 mg/dl F : < 1.0 mg/dl
Serum Sodium	138.2 m.eq./L	136 - 145 m.eq./L
Serum Potassium	4.2 m.eq./L	3.5 - 5.0 m.eq./L

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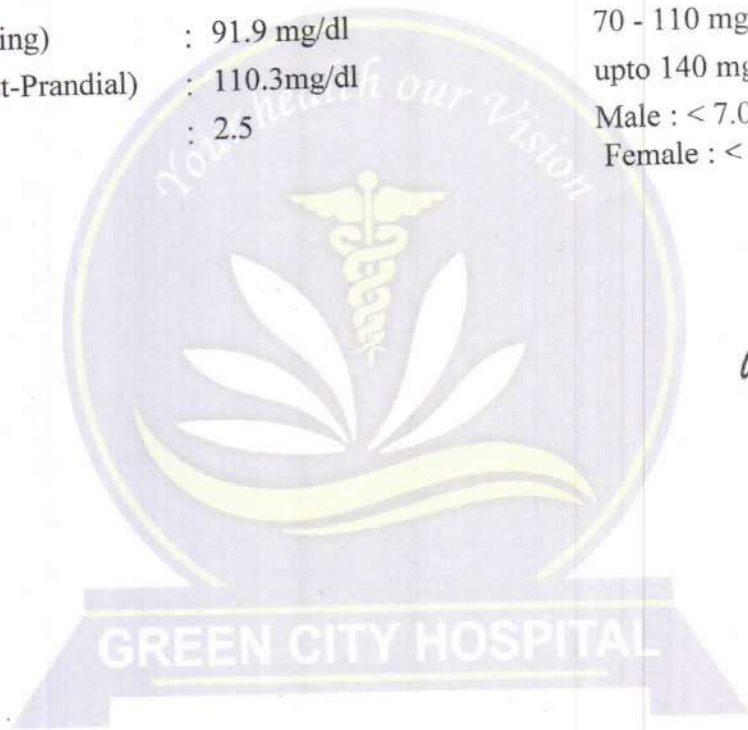


## PATHOLOGY REPORT

Name : Mr. Hirdesh Kumar Verma      Age : 29 Years      Sex : Male  
Advised By : CORP/  
: GREEN CITY HOSPITAL      Lab No. : OPD / 9      Date & Time : 28-Aug-202  
: 4:36 pm

### BIOCHEMISTRY

<u>Test Performed</u>	<u>Value Observed</u>	<u>Reference Range</u>
Blood Glucose(Fasting)	: 91.9 mg/dl	70 - 110 mg/dl
Blood Glucose (Post-Prandial)	: 110.3mg/dl	upto 140 mg/dl
Serum Uric Acid	: 2.5	Male : < 7.0 mg/dl Female : < 6.0 mg/dl



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### LIPID PROFILE

Test Performed	Value Observed	Reference Range
S. Cholesterol (Total)	126.3mg/dl	Desirable Level : < 200 mg/dl Borderline level : 200-239 mg/dl High Level > 240 mg/dl
S. Triglycerides	98.6mg/dl	Desirable level : < 150 mg/dl Borderline level : 150 - 200 mg/dl High Level: > 200 mg/dl
HDL Cholesterol	44.6 mg/dl	35 - 70 mg/dl
LDL Cholesterol	61.98	Desirable Level:< 130 mg/dl Borderline level:130-180mg/dl High level: >180 mg/dl
VLDL Cholesterol	19.72	Desirable level:< 30 mg/dl Borderline level:30-45 mg/dl High level: > 45 mg/dl

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### URINE ROUTINE MICROSCOPIC EXAMINATION

Test Performed	Value Observed
<b><u>Physical Examination</u></b>	
Volume	20 ml
Colour	Pale Yellow
Appearance	Clear
Reaction (pH)	Acidic
<b><u>Chemical Examination</u></b>	
Albumin	Nil
SUGAR	Nil
<b><u>Microscopic Examination</u></b>	
PUS(WBC) Cells	4-5 /hpf /hpf
RBC	Nil /hpf /hpf
Epithelial Cells	1-2 /hpf /hpf
Casts	Absent
Crystals	Absent
Bacteria	Absent

  
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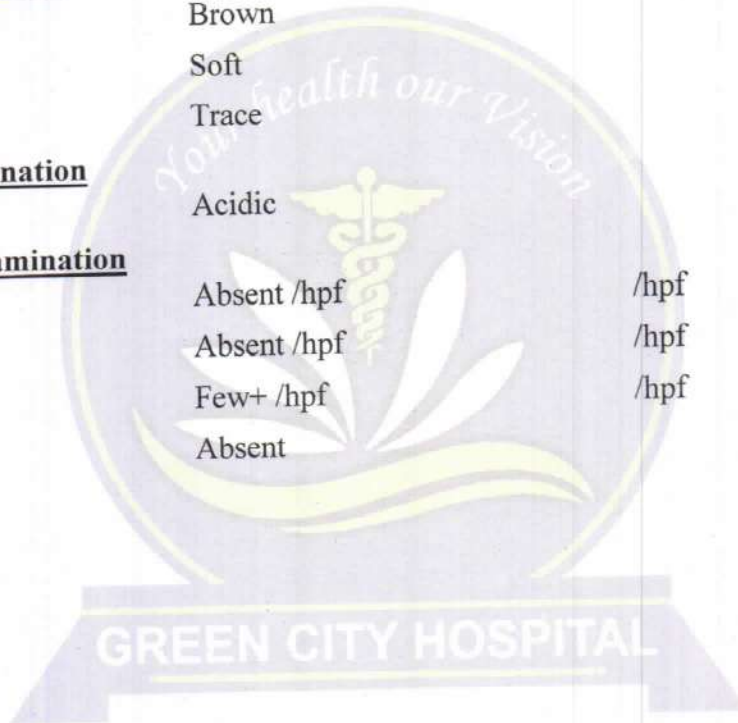


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### STOOL EXAMINATION

Test Performed	Value Observed
<b><u>Physical Examination</u></b>	
Colour	Brown
Consistency	Soft
Mucus	Trace
<b><u>Chemical Examination</u></b>	
Reaction	Acidic
<b><u>Microscopic Examination</u></b>	
Pus cells	Absent /hpf /hpf
RBC	Absent /hpf /hpf
Food Particles	Few+ /hpf /hpf
Fat Globules	Absent



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**For Emergency / Ambulance Service Contact No.: 8120401607, 0755-2733323**

Patient Name : MR HIRDESH KUMAR VERMA  
Age & Sex : 29 Years / Male  
Referred By : GREEN CITY HOSPITAL

LAB No. : 0002092  
Registration Date : 28/08/2021 07:04 pm  
Report Date : 28/08/2021 08:18 pm

## ENDOCRINOLOGY

TEST	RESULT	UNITS	REFERENCE RANGE
<b>PSA</b>			
SERUM PROSTATE SPECIFIC ANTIGEN (PSA)	: 1.17	ng/ml	PSA concentration ( ng/ml) Age (years) Low Limit High limit <40 0.21 1.72 40-49 0.27 2.19 50-59 0.27 3.42 60-69 0.22 6.16 >69 0.21 6.77

**REFERENCE RANGE :**

Normal : < 4.0 ng/ml, Borderline : 4 - 10 ng/ml  
Increase with age :  
40 - 49 years : 1.5 ng/ml, 50 - 59 years : 2.5ng/ml  
60 - 69 years : 4.5 ng/ml, 70 - 79 years : 7.5 ng/ml

- 1) Prostate-specific antigen (PSA) is a glycoprotein (molecular weight 30,000-34,000 daltons) having a close structural relationship to the glandular kallikreins. It has the function of a serine proteinase.
- 2) The proteolytic activity of PSA in blood is inhibited by the irreversible formation of complexes with protease inhibitors such as alpha-1-antichymo-trypsin, alpha-2-macroglobulin and other acute phase proteins. In addition to being present in these complexes, about 30% of the PSA present in blood is in the free form, but is proteolytically inactive.
- 3) Elevated concentrations of PSA in serum are generally indicative of a pathologic condition of the prostate (prostatitis, benign hyperplasia or carcinoma). As PSA is also present in para-urethral and anal glands, as well as in breast tissue or with breast cancer, low levels of PSA can also be detected in sera from women.
- 4) PSA may still be detectable even after radical prostatectomy. The main areas in which PSA determinations are employed are the monitoring of progress and efficiency of therapy in patients with prostate carcinoma or receiving hormonal therapy.
- 5) The steepness of the rate of fall in PSA down to no-longer detectable levels following radiotherapy, hormonal therapy or radical surgical removal of the prostate provides information on the success of therapy.
- 6) An inflammation or trauma of the prostate (e.g. in cases of urinary retention or following rectal examination, cystoscopy, coloscopy, transurethral biopsy, laser treatment or ergometry) can lead to PSA elevations of varying duration and magnitude.

Barcode :



\*\*\*\*\* End Of Report \*\*\*\*\*

*Jaykiran*

Dr. Jay Kiran Verma (MBBS, DNB)  
Sr. Consultant Pathologist (Reg. No. 5659)  
National Hospital, Bhopal  
Formerly - Apollo Hospitals, Hyderabad



◆ 24 Hour Services ◆ Free Sample Collection Home and Office Facility Available

Shop No.1, Plot No.25, Next to IDBI Bank, Main Road, C-Sector, Near Beema Hospital, Indrapuri, Raisen Road, Bhopal 462022  
Phone : 0755 - 4245014, +91-9630904774, +91 8839402126 Email | focusin.report@gmail.com



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LAB No. : 0002092  
Registration Date : 28/08/2021 07:04 pm  
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## BIOCHEMISTRY

TEST	RESULT	UNITS	REFERENCE RANGE
<b>HbA1c</b>			
Glycosylated Haemoglobin % (Hb A1c)	: 5.3		Normal : 4.2 to 6.2 Good control: 5.5 to 6.8 Fair control : 6.8 to 7.6 Poor control : > 7.6 Unit : %
Mean Plasma Glucose	: 105.41		

### NOTES:

- The HbA1c test shows your average blood sugar for last 3 months.
- The HbA1c test does not replace your day-to-day monitoring of blood glucose.  
Use this test result along with your daily test results to measure your overall diabetes control.

#### How does HbA1c works?

The HbA1c test measures the amount of sugar that attaches to protein in your red blood cells. RBCs live for about 3 months, so this test shows your average blood sugar levels during that time. Greater the level of sugar & longer it is high, the more sugar that will attach to RBCs.

#### Why is this test so important?

Research studies demonstrated that the closer to normal your HbA1c level was, the less likely your risk of developing the long-term complications of diabetes. Such problems include eye disease, nerve damage, heart and blood vessel disease and kidney problems.

#### Who should have the HbA1c test done?

Everyone with diabetes can benefit from taking this test. Knowing your HbA1c level helps you and your doctor decide if you need to change your diabetes management plan.

#### How often should you have a HbA1c test?

You should have this test done when you are first diagnosed with diabetes.

Then at least twice a year if your treatment goals are being met & blood glucose control is stable.

More frequent HbA1c testing (4 times / year) is recommended if your therapy has been recently changed or if you are not



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## ENDOCRINOLOGY

TEST	RESULT	UNITS	REFERENCE RANGE
<b>THYROID FUNCTION TEST (T3,T4,TSH)</b>			
Total Triiodothyronine T3	: 113.6	ng/dl	58-159
Total Thyroxine T4	: 6.48	ng/dL	4.6-9.5
Thyroid Stimulating Hormones (TSH)	: 5.58	uIU/ml	Euthyroid: 0.25-5.0 Hyperthyroid : <0.15 Hypothyroid : >7.0

Note Three common ways in which there may be inadequate amounts of the thyroid hormone for normal metabolism. 1. Primary hypothyroidism, in which there is a raised TSH and a low T4 and low T3. This is due to failure of the thyroid gland, possibly due to autoantibody disease, possibly due to toxic stress or possibly due to iodine deficiency. 2. The second, the most common cause of thyroid failure, occurs at the pituitary level. In this condition there is inadequate thyroid stimulating hormone (TSH) produced from the pituitary and so one tends to see low or normal TSH, low T4s and variable T3s. This condition is most common in many patients with chronic fatigue syndrome, where there is a general suppression of the hypothalamic-pituitary-adrenal axis. 3. The third type of under-functioning is due to poor conversion of T4 to T3. This requires enzymes and co-factors, in particular selenium, zinc and iron. In this condition there are normal or possibly slightly raised levels of TSH, normal levels of T4 but low levels of T3. This requires micronutrients and also T3 to correct. Therefore, in any patient suspecting of thyroid problem routinely TSH, a Free T4 and a Free T3 are also advisable. Any patients who are taking T3 as part of their thyroid supplement need to have their T3 levels monitored as well as T4. T3 is much more quickly metabolized than T4 and blood tests should be done between 4-6 hours after their morning dose. The Guideline for pregnancy reference ranges for Total T3, T4, Ultra TSH Level in pregnancy

	Total T3	Total T4	Ultra Tsh
First Trimester	0.86-1.87	6.60-12.4	0.30-4.50
2nd Trimester	1.0-2.60	6.60-15.5	0.50-4.60
3rd Trimester	1.0-2.60	6.60-15.5	0.80-5.20

The guideline for age related reference ranges for T3, T4, & Ultra TSH

	Total T3	Total T4	Ultra Tsh
Cord Blood	0.30-0.70	1-3 day 8.2-19.9	Birth-4 day: 1.0-38.9
New Born	0.75-2.60	1 Week 6.0-15.9	2-20 Week 1.7-9.1
1-5 Years	1.0-2.60	1-12 Months 6.8-14.9	20 Week-20 years 0.7-6.4
5-10 Years	0.90-2.40	1-3 Years 6.8-13.5	10-15 Years 0.80-2.10
3-10 Years	5.5-12.8		

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