

(A Unit of KOS Healthcare)



Dr. Vinay Chopra
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Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME : Mr. RIPU DAMAN GULATI

AGE/ GENDER : 70 YRS/MALE PATIENT ID : 1566164

COLLECTED BY: SURJESH REG. NO./LAB NO. : 012407310037

REFERRED BY : CENTRAL PHOENIX CLUB (AMBALA CANTT) REGISTRATION DATE : 31/Jul/2024 10:25 AM BARCODE NO. : 01514177 COLLECTION DATE : 31/Jul/2024 12:48PM

CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 31/Jul/2024 10:41AM

**CLIENT ADDRESS**: 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit Biological Reference interval

# SWASTHYA WELLNESS PANEL: G COMPLETE BLOOD COUNT (CBC)

### RED BLOOD CELLS (RBCS) COUNT AND INDICES

| HAEMOGLOBIN (HB) by CALORIMETRIC  | 11.7 <sup>L</sup> | gm/dL        | 12.0 - 17.0   |
|---|-------------------|--------------|---|
| RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  | 4.49              | Millions/cmm | 3.50 - 5.00   |
| PACKED CELL VOLUME (PCV)  | 37 <sup>L</sup>   | %            | 40.0 - 54.0   |
| by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER  MEAN CORPUSCULAR VOLUME (MCV)  by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 82.6              | fL           | 80.0 - 100.0  |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER   | 26.1 <sup>L</sup> | pg           | 27.0 - 34.0   |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                                       | 31.6 <sup>L</sup> | g/dL         | 32.0 - 36.0   |
| RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER   | 14.1              | %            | 11.00 - 16.00   |
| RED CELL DISTRIBUTION WIDTH (RDW-SD)  by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER  | 43.5              | fL           | 35.0 - 56.0   |
| MENTZERS INDEX by CALCULATED  | 18.4              | RATIO        | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INDEX by CALCULATED  | 25.98             | RATIO        | BETA THALASSEMIA TRAIT: < = 65.0                                |
|   |                   |              | IRON DEFICIENCY ANEMIA: > 65.0                                  |
| WHITE BLOOD CELLS (WBCS)  |                   |              |   |
| TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 7620              | /cmm         | 4000 - 11000  |
| NUCLEATED RED BLOOD CELLS (nRBCS)  by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY                                | NIL               |              | 0.00 - 20.00  |
| NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER &  | NIL               | %            | < 10 %  |

#### **DIFFERENTIAL LEUCOCYTE COUNT (DLC)**



MICROSCOPY

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|--|-----------------|------|-------------------------------|
| NEUTROPHILS  | 48 <sup>L</sup> | %    | 50 - 70                       |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                            | 42 <sup>H</sup> | %    | 20 - 40                       |
| EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 5               | %    | 1 - 6                         |
| MONOCYTES  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 5               | %    | 2 - 12                        |
| BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 0               | %    | 0 - 1                         |
| ABSOLUTE LEUKOCYTES (WBC) COUNT  |                 |      |                               |
| ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 3658            | /cmm | 2000 - 7500                   |
| ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 3200            | /cmm | 800 - 4900                    |
| ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 381             | /cmm | 40 - 440                      |
| ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 381             | /cmm | 80 - 880                      |
| ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 0               | /cmm | 0 - 110                       |
| PLATELETS AND OTHER PLATELET PREDICTIVE MARKE  | RS.             |      |                               |
| PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE   | 238000          | /cmm | 150000 - 450000               |
| PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE   | 0.23            | %    | 0.10 - 0.36                   |
| MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE   | 10              | fL   | 6.50 - 12.0                   |
| PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  | 55000           | /cmm | 30000 - 90000                 |
| PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  | 23.1            | %    | 11.0 - 45.0                   |
| PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | 16.2            | %    | 15.0 - 17.0                   |



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: 31/Jul/2024 02:34PM

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REPORTING DATE

#### **GLYCOSYLATED HAEMOGLOBIN (HBA1C)**

GLYCOSYLATED HAEMOGLOBIN (HbA1c): 7H 4.0 - 6.4

WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

**ESTIMATED AVERAGE PLASMA GLUCOSE** 

154.2<sup>H</sup> mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)

**INTERPRETATION:** 

CLIENT CODE.

| AS PER AMERICAN D                      | IABETES ASSOCIATION (ADA):                       |       |
|--|--|-------|
| REFERENCE GROUP                        | RENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % |       |
| Non diabetic Adults >= 18 years        | <5.7   |       |
| At Risk (Prediabetes)                  | 5.7 – 6.4  | 1     |
| Diagnosing Diabetes                    | >= 6.5   |       |
|  | Age > 19 Years                                   |       |
|  | Goals of Therapy:                                | < 7.0 |
| Therapeutic goals for glycemic control | Actions Suggested:                               | >8.0  |
|  | Age < 19 Y                                       | ears  |
|  | Goal of therapy:                                 | <7.5  |

### COMMENTS:

- 1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.
- 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.
- 3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 4.High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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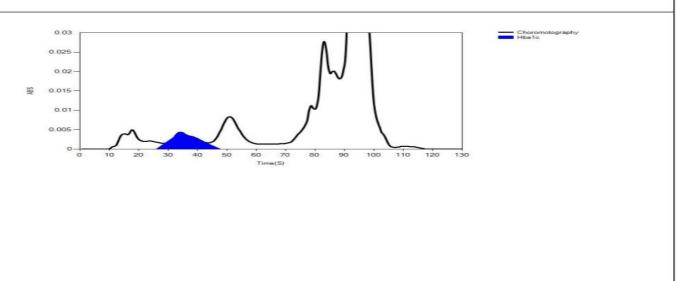
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Test Name Value Unit Biological Reference interval

#### LIFOTRONIC Graph Report

| Name :  | Case:       | Patient Type :                | Test Date: 31/07/2024 14:20:32 |
|---------|-------------|-------------------------------|--------------------------------|
| Age:    | Department: | Sample Type: Whole Blood EDTA | Sample ld: 01514177            |
| Gender: |             |                               | Total Area: 11646              |

| Peak Name | Retention Time(s) | Absorbance | Area  | Result (Area %) |
|-----------|-------------------|------------|-------|-----------------|
| HbA0      | 70                | 3050       | 10168 | 83.0            |
| HbA1c     | 37                | 84         | 862   | 7.0             |
| La1c      | 25                | 44         | 303   | 2.5             |
| HbF       | 21                | 15         | 20    | 0.2             |
| Hba1b     | 13                | 50         | 175   | 1.4             |
| Hba1a     | 11                | 39         | 118   | 1.0             |





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CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 31/Jul/2024 11:33AM

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Value Unit **Biological Reference interval** Test Name

### ERYTHROCYTE SEDIMENTATION RATE (ESR)

**ERYTHROCYTE SEDIMENTATION RATE (ESR)** 

mm/1st hr

0 - 20

by MODIFIED WESTERGREN AUTOMATED METHOD INTERPRETATION:

1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such

as C-reactive protein

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

#### CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

- 1. ESR and C reactive protein (C-RP) are both markers of inflammation.
  2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
  3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
  4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
  5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
  6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while services and quiping may decrease it. aspirin, cortisone, and quinine may decrease it



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### CLINICAL CHEMISTRY/BIOCHEMISTRY **GLUCOSE FASTING (F)**

**GLUCOSE FASTING (F): PLASMA** 104.31<sup>H</sup> mg/dL NORMAL: < 100.0

by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

INTERPRETATION
IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A fasting plasma glucose level below 100 mg/dl is considered normal.

2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 31/Jul/2024 03:45PM

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Test Name Value Unit **Biological Reference interval** 

### **GLUCOSE POST PRANDIAL (PP)**

GLUCOSE POST PRANDIAL (PP): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) 162.71<sup>H</sup> NORMAL: < 140.00

> PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0

#### **INTERPRETATION**

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A post-prandial plasma glucose level below 140 mg/dl is considered normal.

2. A post-prandial glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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|--|---------------|---------|--|
|  | LIPID PROFILE | : BASIC |  |
| CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP            | 116.17        | mg/dL   | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0   |
| TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) | 131.66        | mg/dL   | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION        | 32.92         | mg/dL   | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0  |
| LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY        | 56.92         | mg/dL   | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY    | 83.25         | mg/dL   | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.0<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY       | 26.33         | mg/dL   | 0.00 - 45.00   |
| TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY           | 364           | mg/dL   | 350.00 - 700.00  |
| CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY  | 3.53          | RATIO   | LOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0<br>MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0                                 |
| LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY          | 1.73          | RATIO   | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0  |



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| TRIGLYCERIDES/HDL RATIO: SERUM   | 4     | RATIO | 3.00 - 5.00                   |
| by CALCULATED, SPECTROPHOTOMETRY |       |       |                               |

**COLLECTION DATE** 

#### **INTERPRETATION:**

BARCODE NO.

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.

4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non HDI

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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### LIVER FUNCTION TEST (COMPLETE)

| BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY                            | 0.33          | mg/dL | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
|---|---------------|-------|---|
| BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY             | 0.16          | mg/dL | 0.00 - 0.40                               |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY             | 0.17          | mg/dL | 0.10 - 1.00                               |
| SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                  | 20.11         | U/L   | 7.00 - 45.00                              |
| SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                  | 21.12         | U/L   | 0.00 - 49.00                              |
| AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY                                 | 0.95          | RATIO | 0.00 - 46.00                              |
| ALKALINE PHOSPHATASE: SERUM  by Para Nitrophenyl Phosphatase by amino mether propanol | 128.93<br>IYL | U/L   | 40.0 - 130.0                              |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY                    | 18.84         | U/L   | 0.00 - 55.0                               |
| TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY                                    | 6.62          | gm/dL | 6.20 - 8.00                               |
| ALBUMIN: SERUM by BROMOCRESOL GREEN   | 3.75          | gm/dL | 3.50 - 5.50                               |
| GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY                                      | 2.87          | gm/dL | 2.30 - 3.50                               |
| A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY                                   | 1.31          | RATIO | 1.00 - 2.00                               |

#### **INTERPRETATION**

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

**USE**:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

#### INCREASED:

| DRUG HEPATOTOXICITY_     | > 2                     |
|--------------------------|-------------------------|
| ALCOHOLIC HEPATITIS      | > 2 (Highly Suggestive) |
| CIRRHOSIS                | 1.4 - 2.0               |
| INTRAHEPATIC CHOLESTATIS | > 1.5                   |



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: 31/Jul/2024 12:48PM

NAME : Mr. RIPU DAMAN GULATI

:01514177

**AGE/ GENDER** : 70 YRS/MALE **PATIENT ID** : 1566164

COLLECTED BY : SURJESH REG. NO./LAB NO. : 012407310037

**REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 31/Jul/2024 10:25 AM

**CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** : 31/Jul/2024 12:40PM

**CLIENT ADDRESS**: 6349/1, NICHOLSON ROAD, AMBALA CANTT

| Test Name                                    | Value | Unit                       | Biological Reference interval |
|--|-------|----------------------------|-------------------------------|
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS |       | > 1.3 (Slightly Increased) |                               |

**COLLECTION DATE** 

#### **DECREASED:**

BARCODE NO.

- 1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
- 2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

#### PROGNOSTIC SIGNIFICANCE:

| NORMAL               | < 0.65    |
|----------------------|-----------|
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |



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: Mr. RIPU DAMAN GULATI **NAME** 

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**CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit **Biological Reference interval** 

### **KIDNEY FUNCTION TEST (COMPLETE)**

| UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)            | 81.08 <sup>H</sup>    | mg/dL  | 10.00 - 50.00 |
|---|-----------------------|--------|---------------|
| CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY                | 2.61 <sup>H</sup>     | mg/dL  | 0.40 - 1.40   |
| BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY | 37.89 <sup>H</sup>    | mg/dL  | 7.0 - 25.0    |
| BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM                 | 14.52                 | RATIO  | 10.0 - 20.0   |
| by CALCULATED, SPECTROPHOTOMETRY                                  |                       |        |               |
| UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY     | 31.07                 | RATIO  |               |
| URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE                  | 6.77                  | mg/dL  | 3.60 - 7.70   |
| CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY                 | 9.36                  | mg/dL  | 8.50 - 10.60  |
| PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY         | 4.16                  | mg/dL  | 2.30 - 4.70   |
| ELECTROLYTES  |                       |        |               |
| SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)                    | 138.8                 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)                 | 4.23                  | mmol/L | 3.50 - 5.00   |
| CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)                  | 104.1                 | mmol/L | 90.0 - 110.0  |
| ESTIMATED GLOMERULAR FILTERATION RATE                             |                       |        |               |
| ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED | 25.6                  |        |               |
| NOTE 2  | DECLIE T DECLIECVED T | MUCE   |               |

NOTE 2 RESULT RECHECKED TWICE **ADVICE** KINDLY CORRELATE CLINICALLY

**INTERPRETATION:** 

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:



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Test Name Value Unit **Biological Reference interval** 

- 1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.
- 2. Catabolic states with increased tissue breakdown.
- 3. GI haemorrhage.
- 4. High protein intake.
- 5. Impaired renal function plus
- 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever).
- 7. Urine reabsorption (e.g. ureter colostomy)
- 8. Reduced muscle mass (subnormal creatinine production)
- 9. Certain drugs (e.g. tetracycline, glucocorticoids)

#### INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

- 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).
- 2. Prerenal azotemia superimposed on renal disease.

#### DECREASED RATIO (<10:1) WITH DECREASED BUN:

- 1. Acute tubular necrosis.
- 2. Low protein diet and starvation.
- 3. Severe liver disease.
- 4. Other causes of decreased urea synthesis.
- 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).
- 6. Inherited hyperammonemias (urea is virtually absent in blood).
- 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.
- 8. Pregnancy.

### DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

- 1. Phenacimide therapy (accelerates conversion of creatine to creatinine).
- 2. Rhabdomyolysis (releases muscle creatinine).
- 3. Muscular patients who develop renal failure.

#### **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement). **ESTIMATED GLOMERULAR FILTERATION RATE**:

| CKD STAGE | DESCRIPTION              | GFR ( mL/min/1.73m2 ) | ASSOCIATED FINDINGS      |
|-----------|--------------------------|-----------------------|--------------------------|
| G1        | Normal kidney function   | >90                   | No proteinuria           |
| G2        | Kidney damage with       | >90                   | Presence of Protein,     |
|           | normal or high GFR       |                       | Albumin or cast in urine |
| G3a       | Mild decrease in GFR     | 60 -89                |                          |
| G3b       | Moderate decrease in GFR | 30-59                 |                          |
| G4        | Severe decrease in GFR   | 15-29                 |                          |



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| Test Name |                | Value |     | Unit | Biological Reference interval |
|-----------|----------------|-------|-----|------|-------------------------------|
| G5        | Kidney failure |       | <15 |      |                               |

**COLLECTION DATE** 

#### COMMENTS:

BARCODE NO.

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a

measure of functioning nephrons of the kidney.

2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage

5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure

6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C

7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration). ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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Test Name Value Unit Biological Reference interval

### **ENDOCRINOLOGY**

### THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM 1.629 µIU/mL 0.35 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

3rd GENERATION, ULTRASENSITIVE

#### **INTERPRETATION:**

| AGE                 | REFFERENCE RANGE (μIU/mL) |  |
|---------------------|---------------------------|--|
| 0 – 5 DAYS          | 0.70 - 15.20              |  |
| 6 Days – 2 Months   | 0.70 - 11.00              |  |
| 3 – 11 Months       | 0.70 - 8.40               |  |
| 1 – 5 Years         | 0.70 - 7.00               |  |
| 6 – 10 Years        | 0.60 - 5.50               |  |
| 11 - 15             | 0.50 - 5.50               |  |
| > 20 Years (Adults) | 0.27 - 5.50               |  |
| PRE                 | GNANCY                    |  |
| 1st Trimester       | 0.10 - 3.00               |  |
| 2nd Trimester       | 0.20 - 3.00               |  |
| 3rd Trimester       | 0.30 - 4.10               |  |

NOTE:-TSH levels are subjected to circardian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50 %. Hence time of the day has influence on the measured serum TSH concentration.

**USE**:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality.

#### INCREASED LEVELS:

- 1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.
- 2. Hypothyroid patients receiving insufficient thyroid replacement therapy.
- 3. Hashimotos thyroiditis.
- 4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.
- 5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

#### **DECREASED LEVELS:**

- 1.Toxic multi-nodular goitre & Thyroiditis.
- 2. Over replacement of thyroid harmone in treatment of hypothyroidism.
- 3. Autonomously functioning Thyroid adenoma
- 4. Secondary pituatary or hypothalmic hypothyroidism
- 5. Acute psychiatric illness
- 6. Severe dehydration.



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Test Name Value Unit Biological Reference interval

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester

#### LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

2. Autoimmune disorders may produce spurious results.



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**CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit **Biological Reference interval** 

### **CLINICAL PATHOLOGY**

### **MICROALBUMIN - RANDOM URINE**

MICROALBUMIN: RANDOM URINE mg/L 0 - 2565.6<sup>H</sup> by NEPHLOMETRY

INTERPRETATION:-

| PHYSIOLOGICALLY NORMAL: | mg/L | 0 - 30   |
|-------------------------|------|----------|
| MICROALBUMINURIA:       | mg/L | 30 - 300 |
| GROSS PROTEINURIA:      | mg/L | > 300    |

- 1.Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction.
- 2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.
- 3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.
- 4.Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.
- 5. Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.
- 6.Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.

NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN: CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.

\*\*\* End Of Report



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