

Name : Mr TUSHAR DHULE

Age / Sex : 32 Years/Male

Ref. Dr :

**Reg. Location**: Pimple Saudagar, Pune Main Centre

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: 12-Mar-2022 / 17:50

: 12-Mar-2022 / 17:52

# **USG WHOLE ABDOMEN**

Reg. Date

Reported

**Liver**- Normal in size, shape and echo pattern. No focal lesion. Intrahepatic biliary and portal radicals appear normal. Visualised portion of CBD appears normal in calibre. Portal vein appears normal.

**Gall bladder**– partially distended with normal wall thickness. No calculus or mass lesion is visualized. No pericholecystic collection.

**Pancreas**- Head and body are visualized and appear normal in size, shape and echo pattern. No focal lesion seen. No peripancreatic collection noted.

**Spleen** – Appears normal in size, shape & echo pattern. No focal lesion seen.

**Kidneys**- Right kidney- 10.8 x 4.2 cm, Left kidney- 11.7 x 5.2 cm, both kidneys appear normal in size, shape, position & echo pattern with maintained cortico-medullary differentiation. Tiny papillary concretions are noted in both the kidneys. No hydronephrosis, hydroureter or calculus noted.

**Urinary bladder-** Is partially distended & shows normal wall thickness. No calculus or mass lesion is noted.

**Prostate** - measures  $2.5 \times 2.4 \times 2.9 \text{ cm}$  (vol-13.2.cc) appears normal in size, shape and echo-pattern for age. No focal lesion .

No free fluid in abdomen and pelvis.

Visualized bowel loops are gaseously distended appear grossly normal and show normal peristalsis. No evidence of enlarged lymph nodes.

## **IMPRESSION:**

No other significant sonological abnormality detected.

Advice – clinical correlation and further evaluation if clinically indicated.

Phodake

Dr. SATYAJEET S. GHODAKE MBBS, MD, DNB, MNAMS. Regd. No. 2013/05/1417 Consultant Radiologist

This report is prepared and physically checked by DR SATYAJEET before dispatch.

Investigations have their own limitations. Solitary radiological investigation never leads to a final diagnosis. They should be always correlated with clinical and pathological examinations.

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: Mr TUSHAR DHULE Name

: 32 Years/Male Age / Sex

Ref. Dr

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: 12-Mar-2022 / 12:54

: 12-Mar-2022 / 17:08

R

# X-RAY CHEST PA VIEW

Reg. Date

Reported

Trachea is central.

Slightly prominent bronchovascular markings are noted bilaterally. Visualized bilateral lung fields otherwise appear grossly normal. Both hila appear normal.

Cardio-aortic silhouette has grossly normal appearance for age. Diaphragmatic domes have normal contours and positions. Bilateral costophrenic and cardiophrenic angles appear normal. Visualized bony thorax and soft-tissues are grossly normal for age.

## **IMPRESSION:**

No other significant abnormality detected.

Advice - Clinical correlation and further evaluation if clinically indicated.

Prodake

Dr. SATYAJEET S. GHODAKE MBBS, MD, DNB, MNAMS. Regd. No. 2013/05/1417 Consultant Radiologist

Investigations have their own limitations. Solitary radiological investigation never leads to a final diagnosis. They should be always correlated with clinical and pathological examinations.

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:12-Mar-2022 / 10:51

:12-Mar-2022 / 14:37

# **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**

| CBC (Complete Blood Count), Blood |                |                             |                    |
|-----------------------------------|----------------|-----------------------------|--------------------|
| <u>PARAMETER</u>                  | <u>RESULTS</u> | <b>BIOLOGICAL REF RANGE</b> | <u>METHOD</u>      |
| RBC PARAMETERS                    |                |                             |                    |
| Haemoglobin                       | 14.5           | 13.0-17.0 g/dL              | Spectrophotometric |
| RBC                               | 4.81           | 4.5-5.5 mil/cmm             | Elect. Impedance   |
| PCV                               | 45.4           | 40-50 %                     | Measured           |
| MCV                               | 94             | 80-100 fl                   | Calculated         |
| MCH                               | 30.1           | 27-32 pg                    | Calculated         |
| MCHC                              | 31.9           | 31.5-34.5 g/dL              | Calculated         |
| RDW                               | 12.1           | 11.6-14.0 %                 | Calculated         |
| WBC PARAMETERS                    |                |                             |                    |
| WBC Total Count                   | 6260           | 4000-10000 /cmm             | Elect. Impedance   |
| WBC DIFFERENTIAL AND ABSO         | LUTE COUNTS    |                             |                    |
| Lymphocytes                       | 36.5           | 20-40 %                     |                    |
| Absolute Lymphocytes              | 2284.9         | 1000-3000 /cmm              | Calculated         |
| Monocytes                         | 4.9            | 2-10 %                      |                    |
| Absolute Monocytes                | 306.7          | 200-1000 /cmm               | Calculated         |
| Neutrophils                       | 46.0           | 40-80 %                     |                    |
| Absolute Neutrophils              | 2879.6         | 2000-7000 /cmm              | Calculated         |
| Eosinophils                       | 11.1           | 1-6 %                       |                    |
| Absolute Eosinophils              | 694.9          | 20-500 /cmm                 | Calculated         |
| Basophils                         | 1.5            | 0.1-2 %                     |                    |
| Absolute Basophils                | 93.9           | 20-100 /cmm                 | Calculated         |

WBC Differential Count by Absorbance & Impedance method/Microscopy.

## **PLATELET PARAMETERS**

| Platelet Count | 321000 | 150000-400000 /cmm | Elect. Impedance |
|----------------|--------|--------------------|------------------|
| MPV            | 9.1    | 6-11 fl            | Calculated       |
| PDW            | 15.4   | 11-18 %            | Calculated       |

**RBC MORPHOLOGY** 

Immature Leukocytes

Hypochromia Microcytosis

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Macrocytosis

Age / Gender

Consulting Dr.

Reg. Location

CID

Name

: 2207126959

. MR.TUSHAR DHULE

: Pimple Saudagar, Pune (Main Centre)

: 32 Years / Male

Anisocytosis

Poikilocytosis

Polychromasia **Target Cells** 

Basophilic Stippling

Normoblasts

Others Normocytic, Normochromic

**WBC MORPHOLOGY** 

PLATELET MORPHOLOGY

**COMMENT** Eosinophilia

Specimen: EDTA Whole Blood

ESR, EDTA WB 2-15 mm at 1 hr. Westergren

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Baner Balewadi Lab \*\*\* End Of Report \*\*\*

K.S. Wadgaarkat

Dr.Khushboo Wadgaonkar M.B.B.S., M.D. (Path), **Consultant Pathologist** 





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# **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**

| <u>PARAMETER</u>                            | <u>RESULTS</u> | BIOLOGICAL REF RANGE   | <u>METHOD</u>    |
|---|----------------|--|------------------|
| GLUCOSE (SUGAR) FASTING,<br>Fluoride Plasma | 90.2           | Non-Diabetic: < 100 mg/dl<br>Impaired Fasting Glucose:<br>100-125 mg/dl<br>Diabetic: >/= 126 mg/dl   | Hexokinase       |
| GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R    | 112.7          | Non-Diabetic: < 140 mg/dl<br>Impaired Glucose Tolerance:<br>140-199 mg/dl<br>Diabetic: >/= 200 mg/dl | Hexokinase       |
| BILIRUBIN (TOTAL), Serum                    | 0.36           | 0.1-1.2 mg/dl  | Colorimetric     |
| BILIRUBIN (DIRECT), Serum                   | 0.15           | 0-0.3 mg/dl  | Diazo            |
| BILIRUBIN (INDIRECT), Serum                 | 0.21           | 0.1-1.0 mg/dl  | Calculated       |
| TOTAL PROTEINS, Serum                       | 7.8            | 6.4-8.3 g/dL   | Biuret           |
| ALBUMIN, Serum                              | 4.5            | 3.5-5.2 g/dL   | BCG              |
| GLOBULIN, Serum                             | 3.3            | 2.3-3.5 g/dL   | Calculated       |
| A/G RATIO, Serum                            | 1.4            | 1 - 2  | Calculated       |
| SGOT (AST), Serum                           | 17.8           | 5-40 U/L   | NADH (w/o P-5-P) |
| SGPT (ALT), Serum                           | 26.6           | 5-45 U/L   | NADH (w/o P-5-P) |
| GAMMA GT, Serum                             | 23.5           | 3-60 U/L   | Enzymatic        |
| ALKALINE PHOSPHATASE,<br>Serum              | 80.5           | 40-130 U/L   | Colorimetric     |
| BLOOD UREA, Serum                           | 20.4           | 12.8-42.8 mg/dl  | Kinetic          |
| BUN, Serum                                  | 9.5            | 6-20 mg/dl   | Calculated       |
| CREATININE, Serum                           | 0.89           | 0.67-1.17 mg/dl  | Enzymatic        |
| eGFR, Serum                                 | 105            | >60 ml/min/1.73sqm   | Calculated       |
| URIC ACID, Serum                            | 6.2            | 3.5-7.2 mg/dl  | Enzymatic        |
|   |                |  |                  |

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Urine Sugar (Fasting) **Absent Absent** Urine Ketones (Fasting) **Absent Absent** 

Urine Sugar (PP) Absent **Absent** Urine Ketones (PP) Absent Absent

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Lab, Pune Swargate \*\*\* End Of Report \*\*\*







modniet **Dr.SHAMLA KULKARNI** M.D.(PATH) **Pathologist** 

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HEALTHLINE - MUMBAI: 022-6170-0000 | OTHER CITIES: 1800-266-4343



Name : MR.TUSHAR DHULE

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# **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE GLYCOSYLATED HEMOGLOBIN (HbA1c)**

#### **BIOLOGICAL REF RANGE PARAMETER RESULTS** METHOD

Glycosylated Hemoglobin **HPLC** Non-Diabetic Level: < 5.7 % 5.6 (HbA1c), EDTA WB - CC

Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %

Estimated Average Glucose 114.0 mg/dl Calculated

(eAG), EDTA WB - CC

#### Intended use:

In patients who are meeting treatment goals, HbA1c test should be performed at least 2 times a year

In patients whose therapy has changed or who are not meeting glycemic goals, it should be performed quarterly

For microvascular disease prevention, the HbA1C goal for non pregnant adults in general is Less than 7%.

#### Clinical Significance:

HbA1c, Glycosylated hemoglobin or glycated hemoglobin, is hemoglobin with glucose molecule attached to it.

The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of glycosylated hemoglobin in the blood.

### Test Interpretation:

- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of Glycosylated hemoglobin in the blood.
- HbA1c test may be used to screen for and diagnose diabetes or risk of developing diabetes.
- To monitor compliance and long term blood glucose level control in patients with diabetes.
- Index of diabetic control, predicting development and progression of diabetic micro vascular complications.

#### Factors affecting HbA1c results:

Increased in: High fetal hemoglobin, Chronic renal failure, Iron deficiency anemia, Splenectomy, Increased serum triglycerides, Alcohol ingestion, Lead/opiate poisoning and Salicylate treatment.

Decreased in: Shortened RBC lifespan (Hemolytic anemia, blood loss), following transfusions, pregnancy, ingestion of large amount of Vitamin E or Vitamin C and Hemoglobinopathies

Reflex tests: Blood glucose levels, CGM (Continuous Glucose monitoring)

References: ADA recommendations, AACC, Wallach's interpretation of diagnostic tests 10th edition.

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Lab, Pune Swargate \*\*\* End Of Report \*\*\*







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# **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE** URINE EXAMINATION REPORT

| <u>PARAMETER</u>            | RESULTS      | BIOLOGICAL REF RANGE | <u>METHOD</u>      |
|-----------------------------|--------------|----------------------|--------------------|
| PHYSICAL EXAMINATION        |              |                      |                    |
| Color                       | Yellow       | Pale Yellow          | -                  |
| Reaction (pH)               | Acidic (6.0) | 4.5 - 8.0            | Chemical Indicator |
| Specific Gravity            | 1.010        | 1.001-1.030          | Chemical Indicator |
| Transparency                | Clear        | Clear                | -                  |
| Volume (ml)                 | 20           | -                    | -                  |
| <b>CHEMICAL EXAMINATION</b> |              |                      |                    |
| Proteins                    | Absent       | Absent               | pH Indicator       |
| Glucose                     | Absent       | Absent               | GOD-POD            |
| Ketones                     | Absent       | Absent               | Legals Test        |
| Blood                       | Absent       | Absent               | Peroxidase         |
| Bilirubin                   | Absent       | Absent               | Diazonium Salt     |
| Urobilinogen                | Normal       | Normal               | Diazonium Salt     |
| Nitrite                     | Absent       | Absent               | Griess Test        |
| MICROSCOPIC EXAMINATION     |              |                      |                    |
| Leukocytes(Pus cells)/hpf   | 0-1          | 0-5/hpf              |                    |

Red Blood Cells / hpf 0-2/hpf Absent

Epithelial Cells / hpf 1-2

Casts Absent Absent Crystals **Absent Absent** Amorphous debris **Absent** Absent

Bacteria / hpf 2-3 Less than 20/hpf







**Dr.GOURAV AGRAWAL** DCP, DNB (Path) **Pathologist** 

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# **AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE BLOOD GROUPING & Rh TYPING**

**RESULTS PARAMETER** 

**ABO GROUP** Α

Rh TYPING Positive

NOTE: Test performed by Semi- automated column agglutination technology (CAT)

Specimen: EDTA Whole Blood and/or serum

#### Clinical significance:

ABO system is most important of all blood group in transfusion medicine

#### Limitations:

- ABO blood group of new born is performed only by cell (forward) grouping because allo antibodies in cord blood are of maternal origin.
- Since A & B antigens are not fully developed at birth, both Anti-A & Anti-B antibodies appear after the first 4 to 6 months of life. As a result, weaker reactions may occur with red cells of newborns than of adults.
- Confirmation of newborn's blood group is indicated when A & B antigen expression and the isoagglutinins are fully developed at 2 to 4 years of age & remains constant throughout life.
- Cord blood is contaminated with Wharton's jelly that causes red cell aggregation leading to false positive result
- The Hh blood group also known as Oh or Bombay blood group is rare blood group type. The term Bombay is used to refer the phenotype that lacks normal expression of ABH antigens because of inheritance of hh genotype.

### Refernces:

- Denise M Harmening, Modern Blood Banking and Transfusion Practices- 6th Edition 2012. F.A. Davis company. Philadelphia
- AABB technical manual

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# AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE LIPID PROFILE

| <u>PARAMETER</u>                    | <u>RESULTS</u> | BIOLOGICAL REF RANGE   | <u>METHOD</u>   |
|-------------------------------------|----------------|--|-----------------|
| CHOLESTEROL, Serum                  | 168.4          | Desirable: <200 mg/dl<br>Borderline High: 200-239mg/dl<br>High: >/=240 mg/dl   | Enzymatic       |
| TRIGLYCERIDES, Serum                | 146.9          | Normal: <150 mg/dl<br>Borderline-high: 150 - 199<br>mg/dl<br>High: 200 - 499 mg/dl<br>Very high:>/=500 mg/dl                                     | Enzymatic       |
| HDL CHOLESTEROL, Serum              | 35.0           | Desirable: >60 mg/dl<br>Borderline: 40 - 60 mg/dl<br>Low (High risk): <40 mg/dl  | Enzymatic       |
| NON HDL CHOLESTEROL,<br>Serum       | 133.4          | Desirable: <130 mg/dl<br>Borderline-high:130 - 159 mg/d<br>High:160 - 189 mg/dl<br>Very high: >/=190 mg/dl                                       | Calculated<br>l |
| LDL CHOLESTEROL, Serum              | 104.0          | Optimal: <100 mg/dl<br>Near Optimal: 100 - 129 mg/dl<br>Borderline High: 130 - 159<br>mg/dl<br>High: 160 - 189 mg/dl<br>Very High: >/= 190 mg/dl | Colorimetric    |
| VLDL CHOLESTEROL, Serum             | 29.4           | < /= 30 mg/dl  | Calculated      |
| CHOL / HDL CHOL RATIO,<br>Serum     | 4.8            | 0-4.5 Ratio  | Calculated      |
| LDL CHOL / HDL CHOL RATIO,<br>Serum | 3.0            | 0-3.5 Ratio  | Calculated      |







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Name : MR.TUSHAR DHULE

Age / Gender : 32 Years / Male

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Free T3, Serum

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**CMIA** 

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# AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

2.6-5.7 pmol/L

PARAMETER RESULTS BIOLOGICAL REF RANGE METHOD

4.9

Free T4, Serum 15.8 9-19 pmol/L CMIA

Kindly note change in reference range and method w.e.f. 16/08/2019

Kindly note change in reference range and method w.e.f. 16/08/2019

sensitiveTSH, Serum 1.04 0.35-4.94 microIU/ml CMIA

Kindly note change in reference range and method w.e.f. 16/08/2019. NOTE: 1) TSH values between 5.5 to 15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors can give falsely high TSH. 2) TSH values may be transiently altered because of non thyroidal illness like severe infections, liver disease, renal & heart failure, severe burns, trauma & surgery etc.

Page 9 of 10



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A thyroid panel is used to evaluate thyroid function and/or help diagnose various thyroid disorders.

#### Clinical Significance:

- 1)TSH Values between 5.5 to 15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors can give falsely high TSH.
- 2)TSH values may be trasiently altered becuase of non thyroidal illness like severe infections liver disease, renal and heart severe burns, trauma and surgery etc.

| TSH  | FT4 / T4 | FT3 / T3 | Interpretation  |
|------|----------|----------|---|
| High | Normal   | Normal   | Subclinical hypothyroidism, poor compliance with thyroxine, drugs like amiodarone, Recovery phase of non-thyroidal illness, TSH Resistance.   |
| High | Low      | Low      | Hypothyroidism, Autoimmune thyroiditis, post radio iodine Rx, post thyroidectomy, Anti thyroid drugs, tyrosine kinase inhibitors & amiodarone, amyloid deposits in thyroid, thyroid tumors & congenital hypothyroidism. |
| Low  | High     | High     | Hyperthyroidism, Graves disease, toxic multinodular goiter, toxic adenoma, excess iodine or thyroxine intake, pregnancy related (hyperemesis gravidarum, hydatiform mole)   |
| Low  | Normal   | Normal   | Subclinical Hyperthyroidism, recent Rx for Hyperthyroidism, drugs like steroids & dopamine), Non thyroidal illness.   |
| Low  | Low      | Low      | Central Hypothyroidism, Non Thyroidal Illness, Recent Rx for Hyperthyroidism.   |
| High | High     | High     | Interfering anti TPO antibodies, Drug interference: Amiodarone, Heparin, Beta Blockers, steroids & anti epileptics.   |

Diurnal Variation: TSH follows a diurnal rhythm and is at maximum between 2 am and 4 am, and is at a minimum between 6 pm and 10 pm. The variation is on the order of 50 to 206%. Biological variation: 19.7% (with in subject variation)

Reflex Tests: Anti thyroid Antibodies, USG Thyroid , TSH receptor Antibody. Thyroglobulin, Calcitonin

Limitations: Samples should not be taken from patients receiving therapy with high biotin doses (i.e. >5 mg/day) until atleast 8 hours following the last biotin administration.

### Reference:

- 1.O.koulouri et al. / Best Practice and Research clinical Endocrinology and Metabolism 27(2013)
- 2. Interpretation of the thyroid function tests, Dayan et al. THE LANCET . Vol 357
- 3. Tietz Text Book of Clinical Chemistry and Molecular Biology -5th Edition
- 4. Biological Variation: From principles to Practice-Callum G Fraser (AACC Press)



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moshiet Dr.SHAMLA KULKARNI M.D.(PATH) **Pathologist** 

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