

Name : Mr KUMAR SAURABH

Age / Sex : 32 Years/Male

Ref. Dr :

Reg. Location: Vashi Main Centre

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Reported : 12-Mar-2022 / 13:01

USG WHOLE ABDOMEN

Reg. Date

LIVER:

The liver is normal in size, shape and smooth margins. It shows bright parenchymal echo pattern. The intra hepatic biliary and portal radical appear normal. No evidence of any intra hepatic cystic or solid lesion seen. The main portal vein and CBD appears normal.

GALL BLADDER:

The gall bladder is physiologically distended and appears normal. No evidence of gall stones or mass lesions seen

PANCREAS:

The pancreas well visualised and appears normal. No evidence of solid or cystic mass lesion is noted.

KIDNEYS:

Both the kidneys are normal in size shape and echotexture.

No evidence of any calculus, hydronephrosis or mass lesion seen.

Right kidney measures 10.2 x 5.0 cms. Left kidney measures 10.8 x 4.9 cms.

SPLEEN:

The spleen is normal in size and shape and echotexture.

No evidence of focal lesion is noted. There is no evidence of any lymphadenopathy or ascitis.

URINARY BLADDER:

The urinary bladder is well distended. It shows thin walls and sharp mucosa.

No evidence of calculus is noted. No mass or diverticulum is seen.

PROSTATE:

The prostate is normal in size and echotexture. It measures 2.8 x 2.3 x 2.4 cms and weighs 8.4 gms.

IMPRESSION:

Grad	le I	fatty	infi	ltration	of	liver.

End	d of Report	

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Dr Shilpa Beri MBBS DMRE Reg No 2002/05/2302 Consultant Radiologist

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: 12-Mar-2022 / 13:10

X-RAY CHEST PA VIEW

Reg. Date

Reported

Both lung fields are clear.

Both costo-phrenic angles are clear.

The cardiac size and shape are within normal limits.

The domes of diaphragm are normal in position and outlines.

The skeleton under review appears normal.

IMPRESSION:

NO SIGNIFICANT ABNORMALITY IS DETECTED.

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

Dr Shilpa Beri MBBS DMRE

Reg No 2002/05/2302 Consultant Radiologist



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Consulting Dr. :

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood			
<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
RBC PARAMETERS			
Haemoglobin	13.9	13.0-17.0 g/dL	Spectrophotometric
RBC	5.20	4.5-5.5 mil/cmm	Elect. Impedance
PCV	44.7	40-50 %	Measured
MCV	86	80-100 fl	Calculated
MCH	26.7	27-32 pg	Calculated
MCHC	31.1	31.5-34.5 g/dL	Calculated
RDW	13.3	11.6-14.0 %	Calculated
WBC PARAMETERS			
WBC Total Count	6790	4000-10000 /cmm	Elect. Impedance
WBC DIFFERENTIAL AND ABSO	DLUTE COUNTS		
Lymphocytes	35.8	20-40 %	
Absolute Lymphocytes	2430.8	1000-3000 /cmm	Calculated
Monocytes	7.8	2-10 %	
Absolute Monocytes	529.6	200-1000 /cmm	Calculated
Neutrophils	53.6	40-80 %	
Absolute Neutrophils	3639.4	2000-7000 /cmm	Calculated
Eosinophils	1.9	1-6 %	
Absolute Eosinophils	129.0	20-500 /cmm	Calculated
Basophils	0.9	0.1-2 %	
Absolute Basophils	61.1	20-100 /cmm	Calculated
Immature Leukocytes	-		

WBC Differential Count by Absorbance & Impedance method/Microscopy.

PLATELET PARAMETERS

Platelet Count	100000	150000-400000 /cmm	Elect. Impedance
MPV	11.4	6-11 fl	Calculated
PDW	23.3	11-18 %	Calculated

RBC MORPHOLOGY

Hypochromia Microcytosis -

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Macrocytosis -

Anisocytosis -

Poikilocytosis -

Polychromasia -

Target Cells -

Basophilic Stippling -

Normoblasts -

Others Normocytic, Normochromic

WBC MORPHOLOGY

PLATELET MORPHOLOGY Megaplatelets seen on smear

COMMENT -

Result rechecked

Specimen: EDTA Whole Blood

ESR, EDTA WB 17 2-15 mm at 1 hr. Westergren

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Panvel Lab, Panvel East
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Dr.TEJASWINI DHOTE M.D. (PATH) Pathologist

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

PARAMETER	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	108.2	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	98.1	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	1.01	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.38	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.63	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	8.1	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	5.0	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	3.1	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.6	1 - 2	Calculated
SGOT (AST), Serum	38.0	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	91.9	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	29.8	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	97.3	40-130 U/L	Colorimetric
BLOOD UREA, Serum	24.9	12.8-42.8 mg/dl	Kinetic
BUN, Serum	11.6	6-20 mg/dl	Calculated
CREATININE, Serum	0.91	0.67-1.17 mg/dl	Enzymatic
eGFR, Serum	103	>60 ml/min/1.73sqm	Calculated
URIC ACID, Serum	7.7	3.5-7.2 mg/dl	Enzymatic

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Urine Sugar (Fasting)AbsentAbsentUrine Ketones (Fasting)AbsentAbsent

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

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

BIOLOGICAL REF RANGE PARAMETER RESULTS METHOD

Glycosylated Hemoglobin (HbA1c), EDTA WB - CC

5.2

Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 %

Diabetic Level: >/= 6.5 %

Estimated Average Glucose

(eAG), EDTA WB - CC

102.5

mg/dl

Calculated

HPLC

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.

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE URINE EXAMINATION REPORT

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
PHYSICAL EXAMINATION			
Color	Pale 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	Slight hazy	Clear	-
Volume (ml)	40 ml	-	-
CHEMICAL EXAMINATION			
Proteins	Absent	Absent	pH Indicator
Glucose	Absent	Absent	GOD-POD
Ketones	Absent	Absent	Legals Test
Blood	+	Absent	Peroxidase
Bilirubin	Absent	Absent	Diazonium Salt
Urobilinogen	Normal	Normal	Diazonium Salt
Nitrite	Absent	Absent	Griess Test
MICROSCOPIC EXAMINATION			
Leukocytes(Pus cells)/hpf	25-30	0-5/hpf	
Red Blood Cells / hnf	2-4	0-2 /hpf	

Red Blood Cells / hpf 2-4 0-2/hpf

Epithelial Cells / hpf 4-6

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

Bacteria / hpf 15-20 Less than 20/hpf



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

RESULTS PARAMETER

ABO GROUP AΒ

Rh TYPING **POSITIVE**

NOTE: Test performed by automated column agglutination technology (CAT) which is more sensitive than conventional methods.

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	150.7	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	Enzymatic
TRIGLYCERIDES, Serum	189.5	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	Enzymatic
HDL CHOLESTEROL, Serum	33.2	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Enzymatic
NON HDL CHOLESTEROL, Serum	117.5	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	79.0	Optimal: <100 mg/dl Near Optimal: 100 - 129 mg/dl Borderline High: 130 - 159 mg/dl High: 160 - 189 mg/dl Very High: >/= 190 mg/dl	Colorimetric
VLDL CHOLESTEROL, Serum	38.5	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.5	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO,	2.4	0-3.5 Ratio	Calculated

^{*}Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Panvel Lab, Panvel East
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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE THYROID FUNCTION TESTS

<u>PARAMETER</u>	<u>RESULTS</u>	BIOLOGICAL REF RANGE	<u>METHOD</u>
Free T3, Serum	6.8	3.5-6.5 pmol/L	ECLIA
Free T4, Serum	19.1	11.5-22.7 pmol/L	ECLIA
sensitiveTSH, Serum	2.11	0.35-5.5 microIU/ml	ECLIA

Kindly correlate clinically.

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
- 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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