

Dr. G. G. G. UPTA MB35, MD (Physician) MB35, MC No. 291



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# **General Physical Examination**

Date of Examination: 25 02 23
Name: MUKESH PANWAR Age: 377RS DOB: 15/12/1985Sex: Male
Referred By: BANKOF BARODA
Photo ID: PANCARD ID#: AYNPP72486
Ht: 17-1 (cm) Wt: 86 (Kg)
Chest (Expiration): 99 (cm) Abdomen Circumference: 97 (cm)
Blood Pressure: 85/85 mm Hg PR: 78/min RR: 18/min Temp: Alebrile
BMI_ & 7
Eye Examination: RIET GIG, NIG, NCB LIET GIG, NIG, NCB
Other: No
On examination he/she appears physically and mentally fit: Yes/No  Signature Of Examine: Name of Examinee: MUNESH PANWAR  Signature Medical Examiner: Name Medical Examiner DR. U. C. CHUPTA  OT. U. C. GUPTA  MESS. MD (Physician)  RMC No. 281



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Patient ID :-12223239 Date :- 25/0

Date :- 25/02/2023 09:13:2

Ref. By Doctor:-BANK OF BARODA

Lab/Hosp :-

Company:- Mr.MEDIWHEEL

Final Authentication: 25/02/2023 16:15:29

# NAME :- Mr. MUKESH PANWAR

Age:- 37 Yrs 2 Mon 13 Days

Sex :- Male

**HAEMATOLOGY** 

Test Name	Value	Unit	Biological Ref Interval
FULL BODY HEALTH CHECKUP BELOW 40 M	1AI E		
HAEMOGARAM	IALL		
	150	/ 11	12.0 17.0
HAEMOGLOBIN (Hb)	15.2	g/dL	13.0 - 17.0
TOTAL LEUCOCYTE COUNT	8.80	/cumm	4.00 - 10.00
DIFFERENTIAL LEUCOCYTE COUNT	*5		
NEUTROPHIL	70.0	%	40.0 - 80.0
LYMPHOCYTE	23.0	%	20.0 - 40.0
EOSINOPHIL	3.0	%	1.0 - 6.0
MONOCYTE	4.0	%	2.0 - 10.0
BASOPHIL	0.0	%	0.0 - 2.0
TOTAL RED BLOOD CELL COUNT (RBC)	4.75	x10^6/uL	4.50 - 5.50
HEMATOCRIT (HCT)	47.40	%	40.00 - 50.00
MEAN CORP VOLUME (MCV)	100.0	a.	83.0 - 101.0
MEAN CORP HB (MCH)	32.0	pg	27.0 - 32.0
MEAN CORP HB CONC (MCHC)	32.1	g/dL	31.5 - 34.5
PLATELET COUNT	168	x10^3/uL	150 - 410

14.2 H

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RDW-CV

Technologist Page No: 1 of 14 DR.TANU RUNGTA

11.6 - 14.0



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NAME :- Mr. MUKESH PANWAR

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### **HAEMATOLOGY**

Erythrocyte Sedimentation Rate (ESR) Methord:- Westergreen

33 H

mm in 1st hr

00 - 15

The erythrocyte sedimentation rate (ESR or sed rate) is a relatively simple, inexpensive, non-specific test that has been used for many years to help detect inflammation associated with conditions such as infections, cancers, and autoimmune diseases.ESR is said to be a non-specific test because an elevated result often indicates the presence of inflammation but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other tests, such as C-reactive protein.ESR is used to help diagnose certain specific inflammatory diseases, including temporal arteritis, systemic vasculitis and polymyalgia rheumatica. (For more on these, read the article on Vasculitis.) A significantly elevated ESR is one of the main test results used to support the diagnosis. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as



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Technologist Page No: 2 of 14 DR.TANU RUNGTA



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NAME :- Mr. MUKESH PANWAR Patient ID: -12223239 Date :- 25/02/2023

Ref. By Doctor:-BANK OF BARODA Age :-37 Yrs 2 Mon 13 Days

Lab/Hosp:-Sex :-Male Mr.MEDIWHEEL Company :-

(CBC): Methodology: TLC,DLC Fluorescent Flow cytometry, HB SLS method,TRBC,PCV,PLT Hydrodynamically focused Impedance and MCH, MCV, MCHC, MENTZER INDEX are calculated. InstrumentName: Sysmex 6 part fully automatic analyzer XN-L, Japan



ADIYTA, VIKARANTJI

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37 Yrs 2 Mon 13 Days Age :-

Sex :-Male



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### **BIOCHEMISTRY**

Test Name	Value	Unit	Biological Ref Interval
FASTING BLOOD SUGAR (Plasma) Methord:- GOD POD	110.0	mg/dl	70.0 - 115.0
Impaired glucose tolerance (IGT)		111 - 125 mg/dL	
Diabetes Mellitus (DM)		> 126 mg/dL	

Instrument Name: HORIBA CA60 Interpretation: Elevated glucose levels (hyperglycemia) may occur with diabetes, pancreatic neoplasm,

hyperthyroidism and adrenal cortical hyper-function as well as other disorders. Decreased glucose levels (hypoglycemia) may result from excessive insulin

therapy or various liver diseases.

BLOOD SUGAR PP (Plasma)

Methord:- GOD PAP

122.0

mg/dl

70.0 - 140.0

Instrument Name: HORIBA Interpretation: Elevated glucose levels (hyperglycemia) may occur with diabetes, panereatic neoplasm, hyperthyroidism and adrenal cortical hyper-function as well as other disorders. Decreased glucose levels (hypoglycemia) may result from excessive insulin therapy or various liver diseases .

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DR.TANU RUNGTA



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NAME :- Mr. MUKESH PANWAR

Age :-37 Yrs 2 Mon 13 Days

Male Sex :-



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### **HAEMATOLOGY**

Test Name	Value	Unit	Biological Ref Interval
GLYCOSYLATED HEMOGLOBIN (I Methord:- CAPILLARY with EDTA	<b>HbA1C)</b> 6.3	mg%	Non-Diabetic < 6.0 Good Control 6.0-7.0 Weak Control 7.0-8.0 Poor control > 8.0
MEAN PLASMA GLUCOSE Methord;- Calculated Parameter	134 H	mg/dl.	68 - 125

### INTERPRETATION

AS PER AMERICAN DIABETES ASSOCIATION (ADA) Reference Group HbA1c in % Non diabetic adults >=18 years < 5.7 At risk (Prediabetes) 5.7 - 6.4 Diagnosing Diabetes >= 6.5

### CLINICAL NOTES

In vitro quantitative determination of HbA1c in whole blood is utilized in long term monitoring of glycemia. The HbA1c level correlates with the mean glucose concentration prevailing in the course of the patient's recent history (approx - 6-8 weeks) and therefore provides much more reliable information for glycemia monitoring than do determinations of blood glucose or urinary glucose. It is recommended that the determination of HbA1c be performed at intervals of 4-6 weeks during Diabetes Mellitus therapy. Results of HbA1c should be assessed in conjunction with the patient's medical history, clinical examinations and other findings. Some of the factors that influence HbA1c and its measurement [Adapted from Gallagher et al ]

- Increased HbA1c: iron, vitamin B12 deficiency, decreased erythropoiesis.
   Decreased HbA1c: administration of erythropoietin, iron, vitamin B12, reticulocytosis, chronic liver disease
- 2. Altered Haemoglobin-Genetic or chemical alterations in hemoglobin; hemoglobin pathies, HbF, methemoglobin, may increase or decrease HbA1c.

## 3. Glycation

- Increased HbA1c: alcoholism, chronic renal failure, decreased intraerythrocytic pH.
   Decreased HbA1c: certain hemoglobinopathies, increased intra-erythrocyte pH

- Increased HbA1c: increased erythrocyte life span: Splenectomy.
   Decreased A1c: decreased RBC life span: hemoglobinopathies, splenomegaly, rheumatoid arthritis or drugs such as antiretrovirals. ribavinin & dapsone

- Increased HbA1c: hyperbillirubinemia, carbamylated hemoglobin, alcoholism, large doses of aspirin, chronic opiate use, chronic renal failure
   Decreased HbA1c: hypertriglyceridemia, reticulocytosis, chronic liver disease, aspirin, vitamin C and E. splenomegaly, rheumatoid arthritis or drugs

1. Shortened RBC life span -HbA1c test will not be accurate when a person has a condition that affects the average lifespan of red blood cells (RBCs), such as hemolytic anemia or blood loss. When the lifespan of RBCs in circulation is shortened, the A1c result is falsely low and is an unreliable measurement of a person's average glucose over time. 2.Abnormal forms of hemoglobin – The presence of some hemoglobin variants, such as hemoglobin S in sickle cell anemia, may affect certain methods for measuring A1c. In these cases, fructosamine can be used to monitor glucose control.

### Advised:

1.To follow patient for glycemic control test like fructosamine or glycated albumin may be performed in \$tead 2.Hemoglobin HPLC screen to analyze abnormal hemoglobin variant.

estimated Average Glucose (eAG): based on value calculated according to National Glycohemoglobin Standardization Program (NGSP) criteria

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Sex :- Male



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### **HAEMATOLOGY**

BLOOD GROUP ABO Methord:- Haemagglutination reaction "B" POSITIVE



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# NAME :- Mr. MUKESH PANWAR

Age :-

37 Yrs 2 Mon 13 Days

Sex :-

**BIOCHEMISTRY** 

Value Unit **Biological Ref Interval** 

### LIPID PROFILE

**Test Name** 

TOTAL CHOLESTEROL Methord:- CHOD-PAP methodology

212.00

mg/dl

Desirable <200

Borderline 200-239 High> 240

InstrumentName: MISPA PLUS Interpretation: Cholesterol measurements are used in the diagnosis and treatments of lipid lipoprotein metabolism disorders.

TRIGLYCERIDES
Methord:- GPO-TOPS methodology

137.00

mg/dl

Normal <150 Borderline high 150-199

High Very high

200-499 >500

InstrumentName: MISPA PLUS Interpretation: Triglyceride measurements are used in the diagnosis and treatment of diseases involving lipid metabolism and various endocrine disorders e.g. diabetes mellitus, nephrosis and liver obstruction.

DIRECT HDL CHOLESTEROL

79.10

mg/dl

Male 35-80 Female 42-88

Instrument Name: MISPA PLUS Interpretation: An inverse relationship between HDL-cholesterol (HDL-C) levels in serum and the incidence/prevalence of coronary heart disease (CHD) has been demonstrated in a number of epidemiological studies. Accurate measurement of HDL-C is of vital importance when assessing patient risk from CHD. Direct measurement gives improved accuracy and reproducibility when compared to

precipitation methods. LDL CHOLESTEROL Methord:- Calculated Method

VLDL CHOLESTEROL

110.07

mg/dl

Optimal <100

Near Optimal/above optimal 100-129 Borderline High 130-159

High 160-189 Very High > 190

2.68

27.40

mg/dl

0.00 - 80.00

T.CHOLESTEROL/HDL CHOLESTEROL RATIO

0.00 - 4.90

LDL / HDL CHOLESTEROL RATIO

1.39

0.00 - 3.50

TOTAL LIPID Methord:- CALCULATED 635.68

mg/dl

400.00 - 1000.00

- 1. Measurements in the same patient can show physiological analytical variations. Three serialsamples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL& LDL Cholesterol.
- 2. As per NCEP 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
- 3. Low HDL levels are associated with Coronary Heart Disease due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated fromperipheral tissues.

Comments: 1- ATP III suggested the addition of Non HDL Cholesterol (Total Cholesterol - HDL Cholesterol) as an indicator of all **ADIYTA** 

**Technologist** 

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DR.TANU RUNGTA



Age :-

Sex :-

# HEALTH SOLUTIONS LLP (ASSOCIATES OF MAXCARE DIAGNOSTICS)

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37 Yrs 2 Mon 13 Days

NAME :- Mr. MUKESH PANWAR

Male

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### **BIOCHEMISTRY**

atherogenic lipoproteins (mainly LDL & VLDL). The Non HDL Cholesterolis used as a secondary target of therapy in persons with triglycerides >=200 mg/dL. The goal for Non HDL Cholesterol in those with increased triglyceride is 30 mg/dL above that set for LDL Cholesterol.

2 -For calculation of CHD risk, history of smoking, any medication for hypertension & current B.P. levels are required.



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### NAME :- Mr. MUKESH PANWAR

Age :-

37 Yrs 2 Mon 13 Days

Sex :-

# **BIOCHEMISTRY**

LIVER PROFILE WITH GGT	3		
SERUM BILIRUBIN (TOTAL) Methord:- DMSO/Diazo	0.48	mg/dL	Infants : 0.2-8.0 mg/dL Adult - Up to - 1.2 mg/dL
SERUM BILIRUBIN (DIRECT) Methord:- DMSO/Diazo	0.10	mg/dL	Up to 0.40 mg/dL
SERUM BILIRUBIN (INDIRECT) Methord:- Calculated	0.38	mg/dl	0.30-0.70
SGOT Methord:- IFCC	26.0	U/I.	Men- Up to - 37.0 Female - Up to - 31.0
SGPT Methord:-IFCC	24.9	U/L	Men- Up to - 40.0 Female- Up to - 31.0
SERUM ALKALINE PHOSPHATASE Methord: - DGKC - SCE	102.00	U/L	53.00 - 141.00
SERUM GAMMA GT Methord: - Szasz methodology Instrument Name Randox Rx Imola Interpretation: Elevations in GGT levels areseen earlier and more pronounced	23.40 than those with other liver enzyme	U/L es in cases of obstructive jaundice and	10.00 - 45.00
metastatic neoplasms. It may reach 5 to 30 times normal levels in intra-or post hepatic biliary obstruction. Only moderate elevations in the enzyme level (2 to		infectious hepatitis.	
SERUM TOTAL PROTEIN Methord:- Direct Biuret Reagent	7.82	g/dl	5.10 - 8.00
SERUM ALBUMIN Methord:- Bromocresol Green	4.50	g/dl	3.50 - 5.50
SERUM GLOBULIN Methord:- CALCULATION	3.32	gm/dl	2.20 - 3.50
A/G RATIO	1.36		1.30 - 2.50

Interpretation: Measurements obtained by this method are used in the diagnosis and treatment of a variety of diseases involving the liver, kidney and bone marrow as well as other metabolic or nutritional disorders

Note:- These are group of tests that can be used to detect the presence of liver disease, distinguish among different types of liver disorders, gauge the extent of known liver damage, and monitor the response to treatment. Most liver diseases cause only mild symptoms initially, but these diseases must be detected early. Some tests are associated with functionality (e.g., albumin), some with cellular integrity (e.g., transammase), and some with conditions linked to the biliary tract (gamma-glutamyl transferase and alkaline phosphatase). Conditions with elevated levels of ALT and AST include hepatitis A,B, C, paracetamol toxicity etc. Several biochemical tests are useful in the evaluation and management of patients with hepatic dysfunction. Some or all of these measurements are also carried out (usually about twice a year for routine cases) on those individuals taking certain medications, such as anticonvulsants, to ensure that the medications are not adversely impacting the person's liver.

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### BIOCHEMISTRY

### RFT / KFT WITH ELECTROLYTES

SERUM UREA Methord: - Urease/GLDH

Age :-Sex :-

27.30 .

mg/dl

10.00 - 50.00

InstrumentName: HORIBA CA 60 Interpretation: Urea measurements are used in the diagnosis and treatment of certain renal and metabolic

SERUM CREATININE

Male

Methord:- Jaffe's Method

1.02

mg/dl

Males: 0.6-1.50 mg/dl

Females: 0.6 -1.40 mg/dl

Interpretation:

Creatinine is measured primarily to assess kidney function and has certain advantages over the measurement of urea. The plasma level of creatinine is relatively independent of protein ingestion, water intake, rate of urine production and exercise. Depressed levels of plasma creatinine are rare and not clinically significant. SERUM URIC ACID

6.94

mg/dl

InstrumentName: HORIBA YUMIZEN CA60 Daytona plus Interpretation: Elevated Urate: High purine diet, Alcohol. Renal insufficiency, Drugs. Polycythaemia vera, Malignancies, Hypothyroidism, Rare enzyme defects , Downs syndrome, Metabolic syndrome, Pregnancy, Gout

SODIUM Methord:- ISE

130.4

Interpretation: Decreased sodium - Hyponatraemia Causes include: fluid or electrolyte loss, Drugs, Oedematous states, Legionnaire's disease and other chest infections, pseudonatremia, Hyperlipidaemias and paraproteinaemias, endocrine diseases. SIADH.

POTASSIUM Methord:- ISE

3.91

mmol/L

3.50 - 5.50

Interpretation: A. Elevated potassium (hyperkalaemia). Artefactual, Physiologida Vation, Drugs. Pathological states. Renal failure Adrenocortical insufficiency, metabolic acidoses, very high platelet or white cell counts B. Decreased potassium (hypokalaemia)Drugs. Liquoric, Diarrhoea and vomiting, Metabolic alkalosis, Corticosteroid excess, Oedematous state, Anorexia nervosa/bulimia

CHLORIDE

104.3

mmol/L

94.0 - 110.0

Interpretation: Used for Electrolyte monitoring.

SERUM CALCIUM Methord:- Colorimetric method

8.75

mg/dl

8.10 - 11.50

InstrumentName: Rx Daytona plus Interpretation: Serum calcium levels are believed to be controlled by parathyroid hormone and vitamin D Increases in serum PTH or vitamin D are usually associated with hypercalcemia. Hypocalcemia may be observed in hypoparathyroidism, nephrosis and pancreatitis.

SERUM TOTAL PROTEIN

7.82

g/dl

5.10 - 8.00

ADITOTA Direct Biuret Reagent SERUM ALBUMIN

4.50

g/dl

Methord:- Bromocresol Green **Technologist** 

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### **BIOCHEMISTRY**

SERUM GLOBULIN Methord:- CALCULATION

3.32

gm/dl

2.20 - 3.50

A/G RATIO

1.36

1.30 - 2.50

Interpretation: Measurements obtained by this method are used in the diagnosis and treatment of a variety of diseases involving the liver, kidney and bone marrow as well as other metabolic or nutritional disorders.

Kidney function tests are group of tests that can be used to evaluate how well the kidneys are functioning. Creatinine is a waste product that comes from protein in the diet and also comes from the normal wear and tear of muscles of the body. In blood, it is a marker of GFR .in urine, it can remove the need for 24-hour collections for many analytes or be used as a quality assurance tool to assess the accuracy of a 24-hour collection Higher levels may be a sign that the kidneys are not working properly. As kidney disease progresses, the level of creatinine and urea in the bloodincreases. Certain drugs are nephrotoxic hence KFT is done before and after initiation of treatment with these drugs.

Low serum creatinine values are rare; they almost always reflect low muscle mass.



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# TOTAL THYROID PROFILE

Male

NAME :- Mr. MUKESH PANWAR

37 Yrs 2 Mon 13 Days

### **IMMUNOASSAY**

Test Name	Value	Unit	Biological Ref Interval
THYROID-TRIIODOTHYRONINE T3	0.98	ng/mL	0.70 - 2.04

NOTE-TSH levels are subject to circardian variation, reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result. Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions simoultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

INTERPRETATION-Ultra Sensitive 4th generation assay 1. Primary hyperthyroidism is accompanied by 1 serum T3 & T4 values along with TSH level 2. Low TSH, high FT4 and TSH receptor antibody(TRAb) \*ve seen in patients with Graves disease 3.1cm TSH, high FT4 and TSH receptor antibody (TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular gotier 4. High TSH, but FT4 and TSH receptor antibody increased seen in patients with Hashimotos thyroidilis 5. High TSH, bow FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroidilis 5. High TSH, bow FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroidilis 5. High TSH, bow FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroidilis 5. High TSH, bow FT4 and TSH, bow FT4 and TSH, similar to the first of the first o

DURING PREGNANCY - REFERENCE RANGE for TSH IN ullU/mL (As per American Thyroid Association) 1st Trimester: 0.10-2.50 ullU/mL 2nd Trimester: 0.20-3.00 ullU/mL 3rd Trimester: 0.30-3.00 ullU/mL 3rd Trimester: 0.30-3.00 ullU/mL 2nd Trimester: 0.20-3.00 ullU/mL 3rd Trimester: 0.30-3.00 ullU/mL 3rd Tri ulU/mL The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy

REMARK-assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with corticosteroid therapy may result in lower TSH levels white thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill patients strough the repeated after the critical nature of the condition is resolved. TSH is an important marker for the diagnosis of thyroid dysfunction. Recent studies have shown that the TSH distribution progressively shifts to a nigner property results. The property results are in the eliderty of the condition of the condition is resolved. TSH is an important marker for the diagnosis of thyroid dysfunction. Recent studies have shown that the TSH distribution progressively shifts to a nigner property results. The property results in a nigner property resolved in the client in the client

NOTE-TSH levels are subject to circardian variation reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result. Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions, simoultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

INTERPRETATION-Ultra Sensitive 4th generation assay 1. Primary hyperthyroidism is accompanied by [serum T3 & T4 values along with TSH level 2. Low TSH, high FT4 and TSH receptor antibody(TRAb) +ve seen in patients with Graves disease 3.Low TSH,high FT4 and TSH receptor antibody(TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter 4.HighTSH,Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroiditis 5.HighTSH,Low FT4 and Thyroid microsomal antibody normal seen in patients with Iodine deficiency/Congenital T4 synthesis deficiency 6 Low

TSH Low FT and TRH stimulation test. Delayed response seen in patients with Tertiary hypothyroidism.
7. Primary hypothyroidism is accompanied by [serum T3 and T4 values & serum TSH levels8. Normal T4 levels accompanied by T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis9 Normal or T3 & T4 along with TSH indicate mild / Subclinical Hypothyroidism. 11. Normal T3 & T4 along with TSH is seen in Hypothyroidism. 12 Normal T3 & T4 levels with T5H indicate mild / Subclinical Hypothyroidism.

DURING PREGNANCY - REFERENCE RANGE for TSH IN uIU/mL (As per American Thyroid Association) 1st Trimester : 0.10-2.50 uIU/mL 2nd Trimester : 0.20-3 00 uIU/mL 3rd Trimester : 0.30-3 00 uIU/mL The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy

REMARK-Assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with contoosteroid therapy may result in lower TSH levels while thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill patients should be repeated after the critical nature of the condition is resolved. TSH is an important marker for the diagnosis of thyroid dysfunction. Recent studies have shown that the TSH distribution progressively shifts to a higher concentration with age, and it is debatable whether this is due to a real change with age or an increasing proportion of unrecognized thyroid disease in the elderly.

1.570 TSH μIU/ml. 0.350 - 5.500Methord: - ECLIA

NOTE-TSH levels are subject to circardian variation, reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result.

Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions, simoultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

A INTERPRETATION-Ultra Sensitive 4th generation assay

Limitary hyperthyroidism is accompanied by †serum T3 & T4 values along with † TSH level.

**Technologist** Page No: 13 of 14 DR.TANU RUNGTA MD (Pathology) RMC No. 17226

Janu



Age :-

Sex :-

O B-14, Vidhyadhar Enclave - II, Near Axis Bank Central Spine, Vidhyadhar Nagar, Jaipur - 302023

NAME :- Mr. MUKESH PANWAR

Male

37 Yrs 2 Mon 13 Days

♥ +91 141 4824885 ♠ maxcarediagnostics1@gmail.com



Date :- 25/02/2023

09:13:20

Ref. By Doctor:-BANK OF BARODA

Lab/Hosp :-

Company :-

Mr.MEDIWHEEL

Final Authentication: 25/02/2023 16:15:29

# **IMMUNOASSAY**

2.Low TSH,high FT4 and TSH receptor antibody(TRAb) +ve seen in patients with Graves disease
3.Low TSH,high FT4 and TSH receptor antibody(TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter
4.HighTSH,Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroiditis
5.HighTSH,Low FT4 and Thyroid microsomal antibody normal seen in patients with Toxic deficiency/Congental T4 synthesis deficiency
6.Low TSH,Low FT4 and TRH stimulation test -Delayed response seen in patients with Tertiary hypothyroidism
7.Primary hypothyroidism is accompanied by 1 serum T3 and T4 values & 1serum TSH levels
8.Normal T4 levels accompanied by 1 T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis
9.Normal or 1 T3 & 1 T4 levels indicate T4 Thyrotoxicosis (problem is conversion of T4 to T3)
10.Normal T3 & 1 along with 1 TSH indicate mild / Subclinical Hyperthyroidism .
11.Normal T3 & 1 4 along with 1 TSH indicate Mild (Subclinical Hypothyroidism .

12. Normal T3.8. T4 levels with † T5H indicate Mild / Subclinical Hypothyroidism.

13. Slightly † T3 levels may be found in pregnancy and in estrogen therapy while | levels may be encountered in severe illness, malnutrition, renal failure and during therapy.

14. Although † TSH levels are nearly always indicative of Primary Hypothroidism , rarely they can result from TSH secreting pituitary tumours

DURING PREGNANCY - REFERENCE RANGE for TSH IN uIU/mL (As per American Thyroid Association)

1st Trimester : 0.10-2.50 uIU/mL

2nd Trimester: 0.20-3.00 uIU/ml

3rd Trimester: 0.30-3.00 uIU/ml

The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy

REMARK-assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with corticosteroid therapy may result in lower TSH levels while thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill patients should be repeated after the critical nature of the condition is resolved. TSH is an important marker for the diagnosis of thyroid dysfunction. Recent studies have shown that the TSH distribution progressively shifts to a higher concentration with age, and it is debatable whether this is due to a real change with age or an increasing proportion of unrecognized thyroid disease in the elderly.

\*\*\* End of Report \*\*

ADIYTA

**Technologist** Page No: 14 of 14

Janu DR.TANU RUNGTA MD (Pathology)

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NAME:	MR. MUKESH PANWAR	AGE/SEX	37 YRS/M	
REF.BY	BANK OF BARODA	DATE	25/02/2023	(¥)

# **CHEST X RAY (PA VIEW)**

Bilateral lung fields appear clear.

Bilateral costo-phrenic angles appear clear.

Cardiothoracic ratio is normal.

Thoracic soft tissue and skeletal system appear unremarkable.

Soft tissue shadows appear normal.

IMPRESSION: No significant abnormality is detected.

Shallni'

DR.SHALINI GOEL
M.B.B.S, D.N.B (Radiodiagnosis)
RMC No.: 21954



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MR. MUKESH PANWAR	37 YEARS/Male
Registration Date: 25/02/2023	Ref. by: BANK OF BARODA

## **ULTRASOUND OF WHOLE ABDOMEN**

**Liver** is of normal size (13.2 cm). **Echo-texture is increased**. No focal space occupying lesion is seen within liver parenchyma. Intra hepatic biliary channels are not dilated. Portal vein diameter is normal.

Gall bladder: A well-defined calculus of size 11-12 mm with posterior acoustic shadowing is noted in neck region; however, no evidence of pericholecystic free fluid is noted. No mass lesion is seen in gall bladder. Common bile duct is not dilated.

Pancreas is of normal size and contour. Echo-pattern is normal. No focal lesion is seen within pancreas.

Spleen is of normal size and shape (10.6 cm). Echotexture is normal. No focal lesion is seen.

**Kidneys** are normally sited and are of normal size and shape. Cortico-medullary echoes are normal. Collecting system does not show any calculus or dilatation.

Right kidney is measuring approx. 10.4 x 5.2 cm.

Left kidney is measuring approx. 10.2 x 4.3 cm.

Urinary bladder does not show any calculus or mass lesion.

**Prostate** is normal in size with normal echotexture and outline.

No enlarged nodes are visualized. No retro-peritoneal lesion is identified. No significant free fluid is seen in pelvis.

### **IMPRESSION:**

- Cholelithiasis as described above.
- Grade 1 fatty liver.



DR.SHALINI GOEL

M.B.B.S, D.N.B (Radiodiagnosis)

Dr. SHALINI GOEL MBBS, DNB (Radiologist) RMC No. 21954 P-3 Health Solutions LLP





3-14, Vidhyanagar Nagar, Enclave, Phase-2, Jaipur 3 HEALLH SOLUTIONS LLF

lef.: BANK OF BARODA 12229451323112/Mr Mukesh Panwar 34Yrs/Male Test Date: 25-Feb-2023(11:28:09) Notch: 50Hz 0.05Hz - 100Hz Kgs/31 Cms

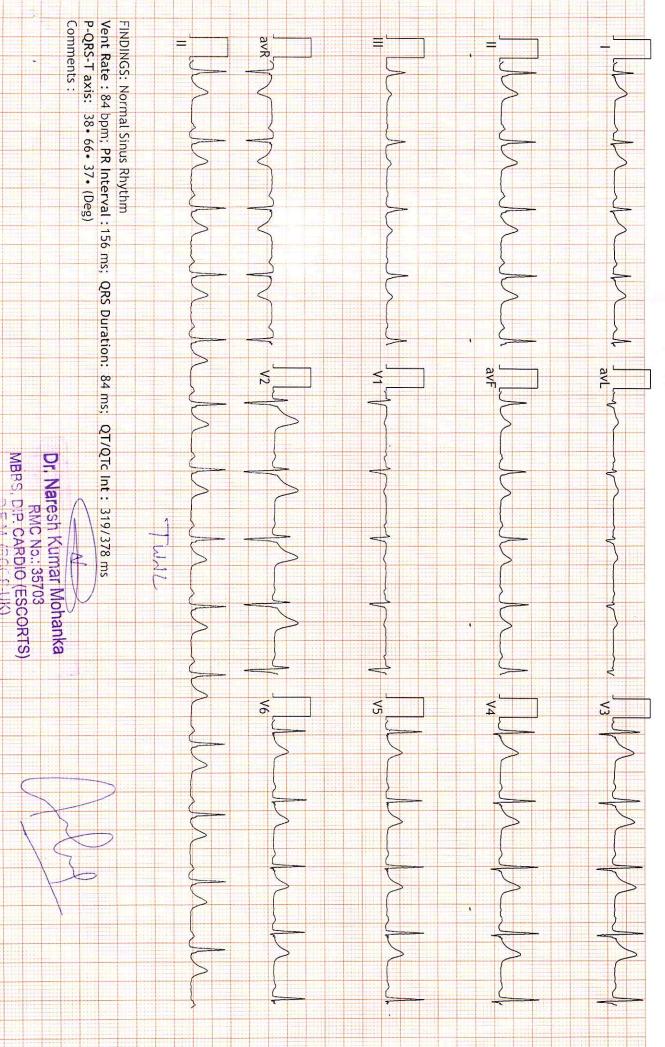
10mm/mV 25mm/Sec mmHg

BP:

PR Interval: 156 ms QRS Duration: 84 ms

QT/QTc: 319/378ms P-QRS-T Axis: 38 - 66 - 37 (Deg)

HR: 84 bpm



# B-14, Vidhyadhar Nagar Enclave, Phase -2, Jaipur

0 Kg/0 Cms

1322437/MR MUKESH PANWAR 37 Yrs/Male Date:\*\*25-Feb-2023 11:29:21 AM Ref.By: BANK OF BARODA

Medication:
Objective:

Protocol : BRUCE History :

summary



