



### General Physical Examination

Date of Examination: 11/12/2022

Name: JYOTI AGARWAL Age: 32 Sex: Female

DOB: 28/09/1990

Referred By: BOB / Mediwheel

Photo ID: Adhaar ID #: attached

Ht: 157 (cm)

Wt: 72 (Kg)

Chest (Expiration): \_\_\_\_\_ (cm)

Abdomen Circumference: \_\_\_\_\_ (cm)

Blood Pressure: 120/80 mm Hg

PR: 99 / min

RR: 18 / min

Temp: Afebrile

BMI 29.2

Eye Examination: vision normal 6/6. N/S.

NO Colour blindness

Other: not significant.

On examination he/she appears physically and mentally fit:  Yes /  No

Signature Of Examinee : Jyoti

Name of Examinee: \_\_\_\_\_

Signature Medical Examiner : [Signature]

Name Medical Examiner: \_\_\_\_\_

**Dr Piyush Goyal**  
**M.B.B.S, D.M.R.D**  
**REG No -017996**



भारत सरकार  
GOVERNMENT OF INDIA



ज्योति अग्रवाल  
Jyoti Agarwal  
जन्म तिथि/DOB.28-09-1990  
महिना/FEMALE



5322 9786 0890

मेरा आधार, मेरी पहचान

Jyoti



भारतीय विशिष्ट पहचान प्राधिकरण  
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

पता:  
C/O शिवांग, 375, रानी सती नगर, गौतम मार्ग, किंग्स  
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302019



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# Dr. Goyal's

## Path Lab & Imaging Centre

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Website: www.drgoyalpathlab.com | E-mail: drgoyalpiyush@gmail.com



Date :- 11/12/2022 08:20:15 Patient ID :- 122228516  
**NAME :- Mrs. JYOTI AGARWAL** Ref. By Dr:- BOB  
Sex / Age :- Female 32 Yrs, 2 Mon 15 Days Lab/Hosp :-  
Company :- MediWheel



Sample Type :- DTA

Sample Collected Time 11/12/2022 08:31:15

Final Authentication : 11/12/2022 12:09:56

### HAEMATOLOGY

Test Name	Value	Unit	Biological Ref Interval
<b>BOB PACKAGE FEMALE BELOW 40</b>			
<b>HAEMOGARAM</b>			
<b>HAEMOGLOBIN (Hb)</b>	12.6	g/dL	12.0 - 15.0
<b>TOTAL LEUCOCYTE COUNT</b>	8.92	/cumm	4.00 - 10.00
<b>DIFFERENTIAL LEUCOCYTE COUNT</b>			
NEUTROPHIL	73.7	%	40.0 - 80.0
LYMPHOCYTE	<b>19.1</b> L	%	20.0 - 40.0
EOSINOPHIL	4.4	%	1.0 - 6.0
MONOCYTE	2.6	%	2.0 - 10.0
BASOPHIL	0.2	%	0.0 - 2.0
NEUT#	6.58	$10^3/uL$	1.50 - 7.00
LYMPH#	<b>1.70</b>	$10^3/uL$	1.00 - 3.70
EO#	0.39	$10^3/uL$	0.00 - 0.40
MONO#	0.23	$10^3/uL$	0.00 - 0.70
BASO#	0.02	$10^3/uL$	0.00 - 0.10
TOTAL RED BLOOD CELL COUNT (RBC)	4.37	$\times 10^6/uL$	3.80 - 4.80
HEMATOCRIT (HCT)	36.60	%	36.00 - 46.00
MEAN CORP VOLUME (MCV)	83.6	fL	83.0 - 101.0
MEAN CORP HB (MCH)	28.7	pg	27.0 - 32.0
MEAN CORP HB CONC (MCHC)	34.3	g/dL	31.5 - 34.5
<b>PLATELET COUNT</b>	199	$\times 10^3/uL$	150 - 410
RDW-CV	14.0	%	11.6 - 14.0
MENTZER INDEX	19.13		

The Mentzer index is used to differentiate iron deficiency anemia from beta thalassemia trait. If a CBC indicates microcytic anemia, these are two of the most likely causes, making it necessary to distinguish between them.

If the quotient of the mean corpuscular volume divided by the red blood cell count is less than 13, thalassemia is more likely. If the result is greater than 13, then iron-deficiency anemia is more likely.

BANWARI, SURESHSAINI  
Technologist

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Company :- MediWheel



Sample Type :- EDTA Sample Collected Time 11/12/2022 08:31:15 Final Authentication : 11/12/2022 10:34:56

### HAEMATOLOGY

Test Name	Value	Unit	Biological Ref Interval
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**Erythrocyte Sedimentation Rate (ESR)** 10 mm/hr. 00 - 20

(ESR) Methodology : Measurement of ESR by cells aggregation.

Instrument Name : Independent form Hematocrit value by Automated Analyzer (Roller-20)

Interpretation : ESR test is a non-specific indicator of inflammatory disease and abnormal protein states.

The test is used to detect, follow course of a certain disease (e.g-tuberculosis, rheumatic fever, myocardial infarction

Levels are higher in pregnancy due to hyperfibrinogenaemia.

The "3-figure ESR"  $\times > 100$  value nearly always indicates serious disease such as a serious infection, malignant paraproteinaemia (CBC); Methodology: FLC, DLC, Fluorescent Flow cytometry, HB SLS method, TRBC, PCV, PLT Hydrodynamically focused Impedance. and or connective tissue disease.

MCH, MCV, MCHC, MENTZER INDEX are calculated. Instrument Name: Sysmex 6 part fully automatic analyzer XN-L, Japan

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Sample Type :- EDTA, KOx/Na FLUORIDE-F Sample Collected Time 11/12/2022 08:31:15

Final Authentication : 11/12/2022 12:09:56

### HAEMATOLOGY

Test Name	Value	Unit	Biological Ref Interval
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BLOOD GROUP ABO "AB" POSITIVE

BLOOD GROUP ABO Methodology : Haemagglutination reaction Kit Name : Monoclonal agglutinating antibodies (Span clone).

FASTING BLOOD SUGAR (Plasma) 85.5 mg/dl 75.0 - 115.0  
Method:- GOD PAP

Impaired glucose tolerance (IGT)	111 - 125 mg/dL
Diabetes Mellitus (DM)	> 126 mg/dL

**Instrument Name:** Randox Rx Imola **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.

BANWARI, SURESHSAINI  
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Sample Type :- PLAIN/SERUM Sample Collected Time 11/12/2022 08:31:15 Final Authentication : 11/12/2022 11:05:12

### BIOCHEMISTRY

Test Name	Value	Unit	Biological Ref Interval
<b>LIPID PROFILE</b>			
TOTAL CHOLESTEROL Method:- Enzymatic Endpoint Method	303.07 H	mg/dl	Desirable <200 Borderline 200-239 High > 240
TRIGLYCERIDES Method:- GPO-PAP	205.03 H	mg/dl	Normal <150 Borderline high 150-199 High 200-499 Very high >500
DIRECT HDL CHOLESTEROL Method:- Direct clearance Method	100.80	mg/dl	Low < 40 High > 60
DIRECT LDL CHOLESTEROL Method:- Direct clearance Method	168.10 H	mg/dl	Optimal <100 Near Optimal/above optimal 100-129 Borderline High 130-159 High 160-189 Very High > 190
VLDL CHOLESTEROL Method:- Calculated	41.01	mg/dl	0.00 - 80.00
T,CHOLESTEROL/HDL CHOLESTEROL RATIO Method:- Calculated	3.01		0.00 - 4.90
LDL / HDL CHOLESTEROL RATIO Method:- Calculated	1.67		0.00 - 3.50
TOTAL LIPID Method:- CALCULATED	910.44	mg/dl	400.00 - 1000.00
<p><b>TOTAL CHOLESTEROL</b> InstrumentName:Radox Rx Imola Interpretation: Cholesterol measurements are used in the diagnosis and treatments of lipid lipoprotein metabolism disorders.</p> <p><b>TRIGLYCERIDES</b> InstrumentName:Radox Rx Imola 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.</p> <p><b>DIRECT HDLCHOLESTERO</b> InstrumentName:Radox Rx Imola 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.</p> <p><b>DIRECT LDL-CHOLESTEROL</b>InstrumentName:Radox Rx Imola Interpretation: Accurate measurement of LDL-Cholesterol is of vital importance in therapies which focus on lipid reduction to prevent atherosclerosis or reduce its progress and to avoid plaque rupture.</p> <p><b>TOTAL LIPID AND VLDL ARE CALCULATED</b></p>			

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Sex / Age :- Female 32 Yrs 2 Mon 15 Days

Company :- MediWHEEL

Patient ID :-122228516

Ref. By Dr:- BOB

Lab/Hosp :-



Sample Type :- PLAIN/SERUM

Sample Collected Time 11/12/2022 08:31:15

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### BIOCHEMISTRY

Test Name	Value	Unit	Biological Ref Interval
<b>LIVER PROFILE WITH GGT</b>			
SERUM BILIRUBIN (TOTAL) Method:- Colorimetric method	0.45	mg/dl	Up to - 1.0 Cord blood <2 Premature < 6 days <16 Full-term < 6 days= 12 1month - <12 months <2 1-19 years <1.5 Adult - Up to - 1.2 Ref-(ACCP 2020)
SERUM BILIRUBIN (DIRECT) Method:- Colorimetric Method	0.16	mg/dL	Adult - Up to 0.25 Newborn - <0.6 mg/dL >- 1 month - <0.2 mg/dL
SERUM BILIRUBIN (INDIRECT) Method:- Calculated	0.29	mg/dl	0.30-0.70
SGOT Method:- IFCC	17.0	U/L	Men- Up to - 37.0 Women - Up to - 31.0
SGPT Method:- IFCC	11.7	U/L	Men- Up to - 40.0 Women - Up to - 31.0
SERUM ALKALINE PHOSPHATASE Method:- AMP Buffer	151.50 H	IU/L	30.00 - 120.00
SERUM GAMMA GT Method:- IFCC	25.00	U/L	7.00 - 32.00
SERUM TOTAL PROTEIN Method:- Biuret Reagent	7.18	g/dl	6.40 - 8.30
SERUM ALBUMIN Method:- Bromocresol Green	3.99	g/dl*	3.80 - 5.00
SERUM GLOBULIN Method:- CALCULATION	3.19	gm/dl	2.20 - 3.50
A/G RATIO	1.25 L		1.30 - 2.50

**Total Bilirubin** Methodology: Colorimetric method InstrumentName: Randox Rx Imola Interpretation: An increase in bilirubin concentration in the serum occurs in toxic or infectious diseases of the liver e.g hepatitis B or obstruction of the bile duct and in rhesus incompatible babies. High levels of unconjugated bilirubin indicate that too much haemoglobin is being destroyed or that the liver is not actively treating the haemoglobin it is receiving.

**AST Aspartate Aminotransferase** Methodology: IFCC InstrumentName: Randox Rx Imola Interpretation: Elevated levels of AST can signal myocardial infarction, hepatic disease, muscular dystrophy and organ damage. Although heart muscle is found to have the most activity of the enzyme, significant activity has also been seen in the brain, liver, gastric mucosa, adipose tissue and kidneys of humans.

**ALT Alanine Aminotransferase** Methodology: IFCC InstrumentName: Randox Rx Imola Interpretation: The enzyme ALT has been found to be in highest concentrations in the liver, with decreasing concentrations found in kidney, heart, skeletal muscle, pancreas, spleen and lung tissue respectively. Elevated levels of the transaminases can indicate myocardial infarction, hepatic disease, muscular dystrophy and organ damage.

**Alkaline Phosphatase** Methodology: AMP Buffer InstrumentName: Randox Rx Imola Interpretation: Measurements of alkaline phosphatase are of use in the diagnosis, treatment and investigation of hepatobiliary disease and in bone disease associated with increased osteoblastic activity. Alkaline phosphatase is also used in the diagnosis of parathyroid and intestinal disease.

**TOTAL PROTEIN** Methodology: Biuret Reagent InstrumentName: Randox Rx Imola 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.

**ALBUMIN (ALB)** Methodology: Bromocresol Green InstrumentName: Randox Rx Imola Interpretation: Albumin measurements are used in the diagnosis and treatment of numerous diseases involving primarily the liver or kidneys. Globulin & A/G ratio is calculated.

**Instrument Name** Randox Rx Imola Interpretation: Elevations in GGT levels are seen earlier and more pronounced than those with other liver enzymes in cases of obstructive jaundice and 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 5 times normal)

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Company :- MediWheel

Sample Type :- PLAIN/SERUM

Sample Collected Time 11/12/2022 08:31:15

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### BIOCHEMISTRY

Test Name	Value	Unit	Biological Ref Interval
SERUM CREATININE Method:- Colorimetric Method	0.79	mg/dl	Men - 0.6-1.30 Women - 0.5-1.20
SERUM URIC ACID Method:- Enzymatic colorimetric	3.08	mg/dl	Men - 3.4-7.0 Women - 2.4-5.7

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### BIOCHEMISTRY

Test Name	Value	Unit	Biological Ref Interval
BLOOD UREA NITROGEN (BUN)	6.4	mg/dl	0.0 - 23.0

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### HAEMATOLOGY

Test Name	Value	Unit	Biological Ref Interval
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**GLYCOSYLATED HEMOGLOBIN (HbA1C)**  
Method:- HPLC

5.6 %

Non-diabetic: < 5.7  
Pre-diabetics: 5.7-6.4  
Diabetics: = 6.5 or higher  
ADA Target: 7.0  
Action suggested: > 6.5

Instrument name: ARKRAY's ADAMS Lite HA 8380V, JAPAN.

#### Test Interpretation:

HbA1C is formed by the condensation of glucose with n-terminal valine residue of each beta chain of HbA to form an unstable schiff base. It is the major fraction, constituting approximately 80% of HbA1c. Formation of glycosylated hemoglobin (GHb) is essentially irreversible and the concentration in the blood depends on both the lifespan of the red blood cells (RBC) (120 days) and the blood glucose concentration. The GHb concentration represents the integrated values for glucose over the period of 6 to 8 weeks. GHb values are free of day to day glucose fluctuations and are unaffected by recent exercise or food ingestion. Concentration of plasma glucose concentration in GHb depends on the time interval, with more recent values providing a larger contribution than earlier values. The interpretation of GHb depends on RBC having a normal life span. Patients with hemolytic disease or other conditions with shortened RBC survival exhibit a substantial reduction of GHb. High GHb have been reported in iron deficiency anemia. GHb has been firmly established as an index of long term blood glucose concentrations and as a measure of the risk for the development of complications in patients with diabetes mellitus. The absolute risk of retinopathy and nephropathy are directly proportional to the mean of HbA1C. Genetic variants (e.g. HbS trait, HbC trait), elevated HbF and chemically modified derivatives of hemoglobin can affect the accuracy of HbA1c measurements. The effects vary depending on the specific Hb variant or derivative and the specific HbA1c method.

#### Ref by ADA 2020

**MEAN PLASMA GLUCOSE**  
Method:- Calculated Parameter

114 mg/dL

Non Diabetic < 100 mg/dL  
Prediabetic 100- 125 mg/dL  
Diabetic 126 mg/dL or Higher

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### IMMUNOASSAY

Test Name	Value	Unit	Biological Ref Interval
<b>TOTAL THYROID PROFILE</b>			
SERUM TOTAL T3 Method:- Chemiluminescence(Competitive immunoassay)	1.212	ng/ml	0.970 - 1.690
SERUM TOTAL T4 Method:- Chemiluminescence(Competitive immunoassay)	8.695	ug/dl	5.500 - 11.000
SERUM TSH ULTRA Method:- Enhanced Chemiluminescence Immunoassay	3.600	μIU/mL	0.500 - 6.880

**Interpretation:** Triiodothyronine (T3) contributes to the maintenance of the euthyroid state. A decrease in T3 concentration of up to 50% occurs in a variety of clinical situations, including acute and chronic disease. Although T3 results alone cannot be used to diagnose hypothyroidism, T3 concentration may be more sensitive than thyroxine (T4) for hyperthyroidism. Consequently, the total T3 assay can be used in conjunction with other assays to aid in the differential diagnosis of thyroid disease. T3 concentrations may be altered in some conditions, such as pregnancy, that affect the capacity of the thyroid hormone-binding proteins. Under such conditions, Free T3 can provide the best estimate of the metabolically active hormone concentration. Alternatively, T3 uptake, or T4 uptake can be used with the total T3 result to calculate the free T3 index and estimate the concentration of free T3.

**Interpretation:** The measurement of Total T4 aids in the differential diagnosis of thyroid disease. While >99.9% of T4 is protein-bound, primarily to thyroxine-binding globulin (TBG), it is the free fraction that is biologically active. In most patients, the total T4 concentration is a good indicator of thyroid status. T4 concentrations may be altered in some conditions, such as pregnancy, that affect the capacity of the thyroid hormone-binding proteins. Under such conditions, free T4 can provide the best estimate of the metabolically active hormone concentration. Alternatively, T3 uptake may be used with the total T4 result to calculate the free T4 index (FT4I) and estimate the concentration of free T4. Some drugs and some nonthyroidal patient conditions are known to alter TT4 concentrations in vivo.

**Interpretation:** TSH stimulates the production of thyroxine (T4) and triiodothyronine (T3) by the thyroid gland. The diagnosis of overt hypothyroidism by the finding of a low total T4 or free T4 concentration is readily confirmed by a raised TSH concentration. Measurement of low or undetectable TSH concentrations may assist the diagnosis of hyperthyroidism, where concentrations of T4 and T3 are elevated and TSH secretion is suppressed. These have the advantage of discriminating between the concentrations of TSH observed in thyrotoxicosis, compared with the low, but detectable, concentrations that occur in subclinical hyperthyroidism. The performance of this assay has not been established for neonatal specimens. Some drugs and some nonthyroidal patient conditions are known to alter TSH concentrations in vivo.

#### INTERPRETATION

PREGNANCY	REFERENCE RANGE FOR TSH IN uIU/mL (As per American Thyroid Association)
1st Trimester	0.10-2.50
2nd Trimester	0.20-3.00
3rd Trimester	0.30-3.00

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

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