

Patient Name : MRS SUJATA MARAKWAD

Age/Gender : 32 Yrs/Female

Ref. Dr. : MEDIWHEEL



SCD24/3025

Report Date

: 30/03/2024



HAEMATOLOGY REPORT

Test Description	Result	Unit	Biological Reference Range
COMPLETE BLOOD COUNT			
Total WBC Count	6800	cell/cu.mm	4000 - 11000
Haemoglobin	10.9	g%	11 - 16
Platelet Count	361000	/cumm	150000 - 450000
RBC Count	3.76	/Mill/ul	3.50 - 5.50
RBC INDICES			
Mean Corp Volume MCV	90.4	fL	80 - 97
Mean Corp Hb MCH	29.0	pg	26 - 32
Mean Corp Hb Conc MCHC	32.1	gm/dL	31.0 - 36.0
Hematocrit HCT	34.0	%	36.0 - 48.0
DIFFERENTIAL LEUCOCYTE COUNT			
Neutrophils	58	%	40 - 75
Lymphocytes	34	%	20 - 45
Monocytes	05	%	02 - 10
Eosinophils	02	%	01 - 06
Basophils	01	%	00 - 01

NOTE:

1. As per the recommendation of International council for Standardization in Hematology, the differential leukocyte counts are additionally being reported as absolute numbers of each cell in per unit volume of blood.
2. Test conducted on EDTA whole blood.

BLOOD GROUP AND RH FACTOR

Blood Group 'A'
Rh Factor POSITIVE(+VE)

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ESR

17

mm/hr

Male: 0-8 mm at 1 Hr.

Female: 0-20 mm at 1 Hr.

Method : Automated Westergren

INTERPRETATION :

1. It indicates presence and intensity of an inflammatory process, never diagnostic of a specific disease. Changes are more significant than a single abnormal test.
2. It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, bacterial endocarditis, acute rheumatic fever, rheumatoid arthritis, SLE, Hodgkins disease, temporal arteritis, polymyalgia rheumatica.
3. It is also increased in pregnancy, multiple myeloma, menstruation, and hypothyroidism.

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HBA1C/GLYCOCYLATED

HbA1c Glycosilated Haemoglobin 5.7 %

Method: HPLC, NGSP certified

Estimated Average Glucose : 117 mg/dL

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
Therapeutic goals for glycemc control	Age > 19 years Goal of therapy: < 7.0 Action suggested: > 8.0 Age < 19 years Goal of therapy: <7.5

ADA criteria for correlation

HbA1c(%)	Mean Plasma Glucose (mg/dL)
6	126
7	154
8	183
9	212
10	240
11	269
12	298

Note:1. Since HbA1c reflects long term fluctuations in the blood glucose concentration, a diabetic patient who is recently under good control may still have a high concentration of HbA1c. Converse is true for a diabetic previously under good control but now poorly controlled .
2. 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, targeting a goal of < 7.0 % may not be appropriate.

Comments:HbA1c provides an index of average blood glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemc control as compared to blood and urinary glucose determinations.

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BIOCHEMISTRY REPORT

Test Description	Result	Unit	Biological Reference Range
LIPID PROFILE			
Cholesterol-Total <i>Method: CHOD/PAP</i>	132	mg/dL	< 200 : Desirable 200-239 : Borderline risk > 240 : High risk
Triglycerides level <i>Method: Lipase / Glycerol Kinase)</i>	90	mg/dL	< 150 : Normal 150-199 : Borderline-High 200-499 : High > 500 : Very High
HDL Cholesterol <i>Method: CHOD/PAP</i>	41	mg/dL	< 40 : Low 40 - 60 : Optimal > 60 : Desirable
LDL Cholesterol <i>Method: Homogeneous enzymatic end point assay</i>	73.00	mg/dL	< 100 : Normal 100 - 129 : Desirable 130 - 159 : Borderline-High 160 - 189 : High > 190 : Very High
VLDL Cholesterol <i>Method: Calculation</i>	18.00	mg/dL	7 - 40
CHOL/HDL RATIO <i>Method: Calculation</i>	3.22	Ratio	3.5 - 5.0
LDL/HDL RATIO <i>Method: Calculation</i>	1.78	Ratio	0 - 3.5

Interpretation

Lipid profile can measure the amount of Total cholesterol's and triglycerides in blood:

Test	Comment
Total cholesterol:	measures all the cholesterol in all the lipoprotein particles
High-density lipoprotein cholesterol (HDL-C):	measures the cholesterol in HDL particles; often called "good cholesterol" because HDL-C takes up excess cholesterol and carries it to the liver for removal.
Low-density lipoprotein cholesterol (LDL-C):	measures the cholesterol in LDL particles; often called "bad cholesterol" because it deposits excess cholesterol in walls of blood vessels, which can contribute to atherosclerosis
Triglycerides:	measures all the triglycerides in all the lipoprotein particles; most is in the very low-density lipoproteins (VLDL).

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BIOCHEMISTRY REPORT

Test Description	Result	Unit	Biological Reference Range
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BLOOD SUGAR FASTING & PP (BSF & PP)

BLOOD SUGAR FASTING 74 mg/dl

Method: Hexokinase

BLOOD SUGAR POST PRANDIAL 122 mg/dl

Method: Hexokinase

ADA 2019 Guidelines for diagnosis of Diabetes Mellitus

Fasting Plasma Glucose > 126 mg/dl

Postprandial Blood Glucose > 200 mg/dl

Random Blood Glucose > 200 mg/dl

HbA1c Level > 6.5%

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BIOCHEMISTRY REPORT

Test Description	Result	Unit	Biological Reference Range
UREA <i>Method: UV</i>	23	mg/dl	10 - 45
Serum Creatinine <i>Method: Modified Jaffe's</i>	0.74	mg/dL	0.60 - 1.40

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LIVER FUNCTION TEST (LFT)

TOTAL BILIRUBIN	0.72	mg/dl	0.2 - 1.0
<i>Method: Serum, Jendrassik Grof</i>			
DIRECT BILIRUBIN	0.21	mg/dL	0.0 - 0.3
<i>Method: Serum, Diazotization</i>			
INDIRECT BILIRUBIN	0.51	mg/dl	0.3 - 1.0
<i>Method: Serum, Calculated</i>			
SGPT (ALT)	21	U/L	15 - 40
<i>Method: Serum, UV with P5P, IFCC 37 degree</i>			
SGOT (AST)	26	U/L	15 - 40
<i>Method: Serum, UV with P5P, IFCC 37 degree</i>			
ALKALINE PHOSPHATASE	80	U/L	30 - 120
<i>Method: DGKC</i>			
TOTAL PROTEIN	7.6	g/dl	6.0 - 8.0
<i>Method: Serum, Biuret, reagent blank end point</i>			
SERUM ALBUMIN	4.1	g/dl	3.2 - 4.6
<i>Method: Serum, Bromocresol green</i>			
SERUM GLOBULIN	3.50	g/dl	1.8 - 3.6
<i>Method: Serum, Calculated</i>			
A/G RATIO	1.17		1.2 - 2.2
<i>Method: Serum, Calculated</i>			
Gamma Glutamyl Transferase-Serum	24	IU/L	12 - 43
<i>Method: Kinetic</i>			

NOTE :

In known cases of Chronic Liver disease due to Viral Hepatitis B & C, Alcoholic liver disease or Non alcoholic fatty liver disease, Enhanced liver fibrosis (ELF) test may be used to evaluate liver fibrosis.

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IMMUNOASSAY REPORT

Test Description	Result	Unit	Biological Reference Range
Thyroid Function Test (TFT)			
T3	105.02	ng/dl	80-253 : 1 Yr-10 Yr, 76-199 : 11 Yr-15 Yr, 69-201 :16 Yr-18 Yr, 87-173 : > 18 years,
T4	8.35	ng/dl	5.9-21.5 :10-31 Days, 5.9-21.5 :0-1 Month, 6.4-13.9 :2-12 Months, 6.09-12.23 :>1 Yr
TSH(Serum)	1.33	ng/dl	0.52-16.0 :1 Day - 30 Days 0.55-7.10 :1 Mon-5 Years 0.37-6.00 :6 Yrs-18 Years 0.38-5.33 :18 Yrs-88 Years 0.50-8.90 :88 Years

Method : ECLIA

Clinical features of thyroid disease		
Hypothyroidism	Hyperthyroidism	Grave's disease
Lethargy	Tachycardia	Exophthalmos/proptosis
Weight gain	Palpitations (atrial fibrillation)	Chemosis
Cold intolerance	Hyperactivity	Diffuse symmetrical goitre
Constipation	Weight loss with increased appetite	Pretibial myxoedema (rare)
Hair loss	Heat intolerance	Other autoimmune conditions
Dry skin	Sweating	
Depression	Diarrhoea	
Bradycardia	Fine tremor	
Memory impairment	Hyper-reflexia	
Menorrhagia	Goitre	
	Palmar erythema	
	Onycholysis	
	Muscle weakness and wasting	
	Oligomenorrhoea/amenorrhoea	

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URINE EXAMINATION REPORT

Test Description	Result	Unit	Biological Reference Range
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URINE ROUTINE

Physical Examination

Colour	Pale Yellow		Pale Yellow
Apperance	Clear		Clear
Reaction	Acidic		
Deposit	Absent		

Chemical Examination

Specific Gravity	1.010		
Albumin	Absent		
Sugar	NIL		Absent
Acetone	Absent		
Bile Salt	Absent		Absent
Bile Pigment	Absent		Absent

Microscopic Examination

RBC's	Not seen	/hpf	Nil
Pus cells	1-2/hpf	/hpf	2-3/hpf
Epithelial Cells	NIL	/hpf	1-2/hpf
Crystals	Absent		Absent
Casts	NOT FOUND		Not Seen
Amorphous Deposit	Absent		Absent

**** End of the report. ****

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