ARTHI SCANS

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Patient Name : MRS. VIDYA G		**Referral :** MediWheel	
Age / Gender : 54 years / Female		**Collection Time :** Nov 27, 2021, 08:30 a.m.	
Patient ID : 70278		**Reporting Time :** Nov 27, 2021, 03:38 p.m.	

Sample ID :

002333121

Test Description	Value(s)	Reference Range	
COMPLETE BLOOD COUNT (CBC)			
ESR	**62**	12.0 - 15.0	mm/hr
Hemoglobin (Hb)	**11.4**	12.0 - 15.0	gm/dL
Erythrocyte (RBC) Count	4.12	3.8 - 4.8	mil/cu.mm
Packed Cell Volume (PCV)	36.2	36 - 46	%
Mean Cell Volume (MCV)	87.86	83 - 101	fL
Mean Cell Haemoglobin (MCH)	27.67	27 - 32	pg
Mean Corpuscular Hb Concn. (MCHC)	**31.49**	31.5 - 34.5	g/dL
Red Cell Distribution Width (RDW)	**16.4**	11.6 - 14.0	%
Total Leucocytes (WBC) Count	7060	4000-10000	cell/cu.mm
Neutrophils	51	40 - 80	%
Lymphocytes	40	20 - 40	%
Monocytes	5	2 - 10	%
Eosinophils	4	1 - 6	%
Basophils	**0**	1-2	%
Absolute Neutrophil Count	3600.60	2000 - 7000	/c.mm
Absolute Lymphocyte Count	2824	1000 - 3000	/c.mm
Absolute Monocyte Count	353	200 - 1000	/c.mm
Absolute Eosinophil Count	282.40	20 - 500	/c.mm
Absolute Basophils Count	**0**	20 - 100	/c.mm
Platelet Count	159	150 - 410	10^3/ul
Mean Platelet Volume (MPV)	**12.3**	7.2 - 11.7	fL
PDW	16.4	9.0 - 17.0	%

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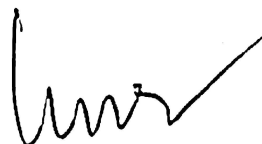**Patient ID :** 70278

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Test Description	Value(s)	Reference Range

URINE COMPLETE ANALYSIS,

Physical Examination
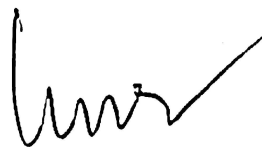
Quantity	23	-	ml
Colour	Pale Yellow	Pale yellow/Yellow	
Appearance	Clear	Clear	
Specific Gravity	1.025	1.005-1.025	
pH	6.5	5.0 - 8.0	
Deposit	**Present**	Absent	

Chemical Examination

Protein	Absent	Absent
Sugar	Absent	Absent
Ketones	Absent	Absent
Bile Salt	Absent	Absent
Bile Pigment	Absent	Absent
Urobilinogen	Normal	Normal

Microscopic Examination (/hpf)

Pus Cell	2-4	Upto 5
Epithelial Cells	2-3	Upto 5
Red Blood Cells	Absent	Absent
Casts	Absent	Absent
Crystals	Absent	Absent
Amorphous Deposit	Absent	Absent
Yeast Cells	Absent	Absent
Bacteria	Absent	Absent
Other findings	Not seen	Not seen

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Test Description	Value(s)	Reference Range	
STOOL ROUTINE ANALYSIS			
Color	Brownish	Brown	
Consistency	Semisolid	Solid - Semi solid	
Reaction (pH)	Alkaline	Acidic - Alkaline	
Method : Methyl Red & Bromothymol Blue			
Mucous	Absent	Absent	
Blood	Absent	Absent	
Pus cells	2-3/hpf	Few	/hpf
Epithelial cells	1-2/hpf	--	/hpf
RBC	Absent	Absent	/hpf
Ova	Not found	Absent	/hpf
Cyst	Not found	Absent	/hpf
Starch granules	Absent	None to small amount	/hpf
Vegetable cells	Absent	--	/hpf
Fat globules	Absent	Absent	/hpf
Others	Nil		/hpf
Method : Microscopy (Concentration technique)			

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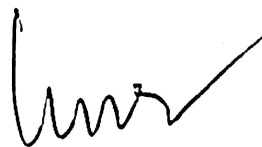
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Test Description	Value(s)	Reference Range
BLOOD GROUP & RH TYPING		
Blood Group (ABO typing) Method : Manual-Hemagglutination	"O"	
RhD Factor (Rh Typing) Method : Manual hemagglutination	Positive	

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Test Description	Value(s)	Reference Range

Glycosylated HbA1c

HbA1c (GLYCOSYLATED HEMOGLOBIN), BLOOD	5.9		%
Method : (HPLC, NGSP certified)			
Estimated Average Glucose :	122.63	-	mg/dL

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

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 glycemic control as compared to blood and urinary glucose determinations.

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Test Description	Value(s)	Reference Range

ADA criteria for correlation between HbA1c & Mean plasma glucose levels.

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

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Test Description	Value(s)	Reference Range	

THYROID PROFILE TEST - TOTAL

T3-Total	97.69	60 - 200	ng/dL
T4-Total	6.60	4.52 - 12	ug/dL
TSH-Ultrasensitive	3.76	0.32 - 5.5	uIU/mL
Method : CLIA		First Trimester : 0.1-2.5	
		Second Trimester : 0.2-3.0	
		Third trimester : 0.3-3.0	

Interpretation

TSH	T3	T4	Suggested Interpretation for the Thyroid Function Tests Pattern
Raised	Within range	Within range	Raised Within Range Within Range .Isolated High TSHespecially in the range of 4.7 to 15 m1U/m1 is commonly associated with Physiological & Biological TSH Variability. Subclinical Autoimmune Hypothyroidism.Intermittent 14 therapy for hypothyroidism .Recovery phase after Non-Thyroidal illness"
Raised	Decreased	Decreased	Chronic Autoimmune Thyroiditis Post thyroidectomy,Post radioiodine Hypothyroid phase of transient thyroiditis"
Raised or within range	Raised	Raised or within range	Interfering antibodies to thyroid hormones (anti-TPO antibodies)Intermittent 14 therapy or T4 overdose •Drug interference- Amiodarone, Heparin,Beta blockers,steroids, anti-epileptics.
Decreased	Raised or within range	Raised or within range	Isolated Low TSH -especially in the range of 0.1 to 0.4 often seen in elderly & Range Range associated with Non-Thyroidal illness .Subclinical Hyperthyroidism .Thyroxine ingestion'
Decreased	Decreased	Decreased	Central Hypothyroidism .Non-Thyroidal illness .Recent treatment for Hyperthyroidism (TSH remains suppressed)"
Decreased	Raised	Raised	Primary Hyperthyroidism (Graves' disease).Multinodular goitre, Toxic nodule •Transient thyroiditis:Postpartum, Silent (lymphocytic), Postviral (granulomatous,subacute, DeQuervain's),Gestational thyrotoxicosis with hyperemesis gravidarum"
Decreased Within Rang	Raised	Within range	T3 toxicosis •Non-Thyroidal illness
Within range	Decreased	Within range	Isolated Low T3-often seen in elderly & associated Non-Thyroidal illness In elderly the drop in 13 level can be upto 25%.

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Test Description	Value(s)	Reference Range	
LIPID PROFILE			
Cholesterol-Total	137	Desirable level | < 200	mg/dL
Method : Spectrophotometry		Borderline High | 200-239	
		High | >or = 240	
Triglycerides	83	Normal: < 150	mg/dL
Method : Serum, Enzymatic, endpoint		Borderline High: 150-199	
		High: 200-499	
		Very High: >= 500	
HDL Cholesterol	52	Normal: > 40	mg/dL
Method : Serum, Direct measure-PEG		Major Risk for Heart: < 40	
LDL Cholesterol	68.40	Optimal < 100	mg/dL
Method : Enzymatic selective protection		Near / Above Optimal 100-129	
		Borderline High 130-159	
		High 160-189	
		Very High >or = 190	
VLDL Cholesterol	16.60	6 - 38	mg/dL
Method : Serum, Enzymatic			
CHOL/HDL Ratio	**2.63**	3.5 - 5.0	
Method : Serum, Enzymatic			
LDL/HDL Ratio	**1.32**	2.5 - 3.5	
Method : Serum, Enzymatic			

Note:

8-10 hours fasting sample is required.

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Test Description	Value(s)	Reference Range	
RENAL PROFILE			
Urea	25.4	15-36	mg/dL
Method : Uricase			
Blood Urea Nitrogen-BUN	11.85	7 - 17	mg/dL
Method : Serum, Urease			
Creatinine	0.7	0.52-1.25	mg/dL
Method : Serum, Jaffe			
Uric Acid	5.5	2.5 - 6.2	mg/dL
Method : Serum, Uricase			

Remark:

In blood, Urea is usually reported as BUN and expressed in mg/dl. BUN mass units can be converted to urea mass units by multiplying by 2.14.

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Test Description	Value(s)	Reference Range	
LIVER FUNCTION TEST			
Total Protein	6.8	6.3 - 8.2	g/dL
Method : Serum, Biuret, reagent blank end point			
Albumin	3.9	3.5 - 5.0	g/dL
Method : Serum, Bromocresol green			
Globulin	2.90	1.8 - 3.6	g/dL
Method : Serum, EIA			
A/G Ratio	1.34	1.2 - 2.2	
Method : Serum, EIA			
Bilirubin - Total	0.5	0.2 - 1.3	mg/dL
Method : Serum, Jendrassik Grof			
Bilirubin - Direct	0.2	< 0.3	mg/dL
Method : Serum, Diazotization			
Bilirubin - Indirect	0.3	0.0 - 1.1	mg/dL
Method : Serum, Calculated			
SGOT	19	14-36	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
SGPT	24	< 52	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
Alkaline Phosphatase	68	38 - 126	U/L
Method : PNPP-AMP Buffer/Kinetic			
GGT-Gamma Glutamyl Transpeptidae	15	< 43	U/L
Method : Serum, G-glutamyl-carboxy-nitoanilide			

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Test Description	Value(s)	Reference Range	
GLUCOSE (F)			
Glucose fasting Method : GOD-POD	92	Normal: 70 - 120	mg/dL

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Test Description	Value(s)	Reference Range	
GLUCOSE (PP)			
Blood Glucose-Post Prandial	115	80- 140	mg/dL
Method : GOD-POD			

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