ARTHI SCANS

Obli Towers, 594, D.B. Road, R. S. Puram, Coimbatore-641 002. Mobile : 99430 99994 email: info@arthiscans.com

Patient Name : MRS. SUMATHI R
Age / Gender : 49 years / Female
Patient ID : 74746

Referral : MediWheel
Collection Time : Dec 26, 2021, 08:21 a.m.
Reporting Time : Dec 26, 2021, 03:36 p.m.
Sample ID : 001036021

Test Description	Value(s)	Reference Range	
COMPLETE BLOOD COUNT (CBC)			
ESR	**20**	12.0 - 15.0	mm/hr
Hemoglobin (Hb)	14.8	12.0 - 15.0	gm/dL
Erythrocyte (RBC) Count	**5.42**	3.8 - 4.8	mil/cu.mm
Packed Cell Volume (PCV)	42.5	36 - 46	%
Mean Cell Volume (MCV)	**78.41**	83 - 101	fL
Mean Cell Haemoglobin (MCH)	27.31	27 - 32	pg
Mean Corpuscular Hb Concn. (MCHC)	**34.82**	31.5 - 34.5	g/dL
Red Cell Distribution Width (RDW)	12.7	11.6 - 14.0	%
Total Leucocytes (WBC) Count	4800	4000-10000	cell/cu.mm
Neutrophils	66	40 - 80	%
Lymphocytes	28	20 - 40	%
Monocytes	5	2 - 10	%
Eosinophils	1	1 - 6	%
Basophils	**0**	1-2	%
Absolute Neutrophil Count	3168	2000 - 7000	/c.mm
Absolute Lymphocyte Count	1344	1000 - 3000	/c.mm
Absolute Monocyte Count	240	200 - 1000	/c.mm
Absolute Eosinophil Count	48	20 - 500	/c.mm
Absolute Basophils Count	**0**	20 - 100	/c.mm
Platelet Count	190	150 - 410	10^3/ul
Mean Platelet Volume (MPV)	10.2	7.2 - 11.7	fL
PCT	**0.19**	0.2 - 0.5	%
PDW	10.8	9.0 - 17.0	%

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Test Description	Value(s)	Reference Range	
URINE COMPLETE ANALYSIS,			
	Physical Examination		
Quantity	26	-	ml
Colour	Pale Yellow	Pale yellow/Yellow	
Appearance	Clear	Clear	
Specific Gravity	1.020	1.005-1.025	
pH	6.5	5.0 - 8.0	
Deposit	**Present**	Absent	
	Chemical Examination		
Protein	Absent	Absent	
Sugar	**Present (++)**	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	1-2	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

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Test Description	Value(s)	Reference Range	
STOOL ROUTINE ANALYSIS			
Color	Brownish	Brown	
Consistency	Semisolid	Solid - Semi solid	
Reaction (pH)	Acidic	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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Test Description	Value(s)	Reference Range
BLOOD GROUP & RH TYPING		
Blood Group (ABO typing) Method : Manual-Hemagglutination	**"B"**	
RhD Factor (Rh Typing) Method : Manual hemagglutination	**Positive**	

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Test Description	Value(s)	Reference Range	
Glycosylated HbA1c			
HbA1c (GLYCOSYLATED HEMOGLOBIN), BLOOD	**11.0**		%
Method : (HPLC, NGSP certified)			
Estimated Average Glucose :	269	-	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	99.26	60 - 200	ng/dL
T4-Total	8.40	4.52 - 12	ug/dL
TSH-Ultrasensitive	3.68	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 Method : Spectrophotometry	**261**	Desirable level | < 200 Borderline High | 200-239 High | >or = 240	mg/dL
Triglycerides Method : Serum, Enzymatic, endpoint	**300**	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500	mg/dL
HDL Cholesterol Method : Serum, Direct measure-PEG	44	Normal: > 40 Major Risk for Heart: < 40	mg/dL
LDL Cholesterol Method : Enzymatic selective protection	157	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol Method : Serum, Enzymatic	**60**	6 - 38	mg/dL
CHOL/HDL Ratio Method : Serum, Enzymatic	**5.93**	3.5 - 5.0	
LDL/HDL Ratio Method : Serum, Enzymatic	**3.57**	2.5 - 3.5	

Note:
8-10 hours fasting sample is required.

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Test Description	Value(s)	Reference Range	
RENAL PROFILE			
Urea	21	15-36	mg/dL
Method : Uricase			
Blood Urea Nitrogen-BUN	9.80	7 - 17	mg/dL
Method : Serum, Urease			
Creatinine	0.7	0.52-1.25	mg/dL
Method : Serum, Jaffe			
Uric Acid	5.9	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	8.1	6.3 - 8.2	g/dL
Method : Serum, Biuret, reagent blank end point			
Albumin	4.9	3.5 - 5.0	g/dL
Method : Serum, Bromocresol green			
Globulin	3.20	1.8 - 3.6	g/dL
Method : Serum, EIA			
A/G Ratio	1.53	1.2 - 2.2	
Method : Serum, EIA			
Bilirubin - Total	0.3	0.2 - 1.3	mg/dL
Method : Serum, Jendrassik Grof			
Bilirubin - Direct	0.2	< 0.3	mg/dL
Method : Serum, Diazotization			
Bilirubin - Indirect	0.1	0.0 - 1.1	mg/dL
Method : Serum, Calculated			
SGOT	17	14-36	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
SGPT	14	< 52	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
Alkaline Phosphatase	104	38 - 126	U/L
Method : PNPP-AMP Buffer/Kinetic			
GGT-Gamma Glutamyl Transpeptidae	18	< 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	**250**	Normal: 70 - 120	mg/dL

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Test Description	Value(s)	Reference Range	
GLUCOSE (PP)			
Blood Glucose-Post Prandial Method : GOD-POD	**402**	80- 140	mg/dL

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