

		LABORATORY REPORT	
Name : Mrs. ARCHI	ТА	Sex/Age : Female / 30 Years	Case ID : 30403609579
Ref. By		Dis. At :	Pt. ID : 2678371
Bill. Loc. : Spectra Diag	nostic Laboratory Serv	ice Provider	Pt. Loc :
Reg Date and Time	: 14-Apr-2023 12:48	Sample Type : Serum	Mobile No. :
Sample Date and Time	: 14-Apr-2023 12:48	Sample Coll. By : non NACL	Ref Id1 :
Report Date and Time	: 14-Apr-2023 14:33	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS			
Thyroid Function Test							
Triiodothyronine (T3) CMIA	122.39	ng/dL	70 - 204				
Thyroxine (T4) CMIA	9.6	µg/dL	5.5 - 11.0				
TSH ^{CMIA} INTERPRETATIONS	4.207	µIU/mL	0.4 - 4.94				

- Circulating TSH measurement has been used for screening for euthyroidism, screening and diagnosis for hyperthyroidism & hypothyroidism. Suppressed TSH (<0.01 µIU/mL) suggests a diagnosis of hyperthyroidism and elevated concentration (>7 µIU/mL) suggest hypothyroidism. TSH levels may be affected by acute illness and several medications including dopamine and glucocorticoids. Decreased (low or undetectable) in Graves disease. Increased in TSH secreting pituitary adenoma (secondary hyperthyroidism), PRTH and in hypothalamic disease thyrotropin (tertiary hyperthyroidism). Elevated in hypothyroidism (along with decreased T4) except for pituitary & hypothalamic disease.
- Mild to modest elevations in patient with normal T3 & T4 levels indicates impaired thyroid hormone reserves & incipent hypothyroidism (subclinical hypothyroidism).
- Mild to modest decrease with normal T3 & T4 indicates subclinical hyperthyroidism.
- Degree of TSH suppression does not reflect the severity of hyperthyroidism, therefore, measurement of free thyroid hormone levels is required in patient with a supressed TSH level.

CAUTIONS

Sick, hospitalized patients may have falsely low or transiently elevated thyroid stimulating hormone. Some patients who have been exposed to animal antigens, either in the environment or as part of treatment or imaging procedure, may have circulating antianimal antibodies present. These antibodies may interfere with the assay reagents to produce unreliable results. **TSH ref range in pregnancy Reference range (microlU/ml)**

TSH ref range in pregnancy	Reference range (microlU
First trimester	0.24 - 2.00
Second trimester	0.43-2.2
Third trimester	0.8-2.5

Note:(LL-VeryLow,L-Low,H-High,HH-VeryHigh ,A-Abnormal)

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Interpretation Note: Ultra sensitive-thyroid-stimulating hormone (TSH) is a highly effective screening assay for thyroid disorders. In patients with an intact pituitary-thyroid axis, s-TSH provides a physiologic indicator of the functional level of thyroid hormone activity. Increased s-TSH indicates inadequate thyroid hormone, and suppressed s-TSH indicates excess thyroid hormone. Transient s-TSH abnormalities may be found in seriously ill, hospitalized patients, so this is not the ideal setting to assess thyroid function. However, even in these patients, s-TSH works better than total thyroxine (an alternative screening test). when the s-TSH result is abnormal, appropriate follow-up tests T4 & free T3 levels should be performed. If TSH is between 5.0 to 10.0 & free T4 & free T3 level are normal then it is considered as subclinical hypothyroidism which should be followed up after 4 weeks & If TSH is > 10 & free T4 & free T3 level are normal then it is considered as overt hypothyroidism.

Serum triodothyronine (T3) levels often are depressed in sick and hospitalized patients, caused in part by the biochemical shift to the production of reverse T3. Therefore, T3 generally is not a reliable predictor of hypothyroidism. However, in a small subset of hyperthyroid patients, hyperthyroidism may be caused by overproduction of T3 (T3 toxicosis). To help diagnose and monitor this subgroup, T3 is measured on all specimens with suppressed s-TSH and normal FT4 concentrations.

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TSH ref range in Pregnacy First triemester Second triemester Third triemester	Reference range (microlU/n 0.24 - 2.00 0.43-2.2 0.8-2.5	ni)	
	Т3	T4	TSH
Normal Thyroid function	N	N	N
Primary Hyperthyroidism	\uparrow	1	\checkmark
Secondary Hyperthyroidism	↑	1	Υ
Grave's Thyroiditis	↑	1	\uparrow
T3 Thyrotoxicosis	\uparrow	N	N/↓
Primary Hypothyroidism	\checkmark	4	↑
Secondary Hypothyroidism	\checkmark	4	\checkmark
Subclinical Hypothyroidism	N	N	^
Patient on treatment	N	N/↑	\downarrow

----- End Of Report -----

For test performed on specimens received or collected from non-NSRL locations, it is presumed that the specimen belongs to the patient named or identified as labeled on the container/test request and such verification has been carried out at the point generation of the said specimen by the sender. NSRL will be responsible Only for the analytical part of test carried out. All other responsibility will be of referring Laboratory.

Note:(LL-VeryLow,L-Low,H-High,HH-VeryHigh ,A-Abnormal)

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CBC ESP



Name: ARCHITA	Ward: opd
Lab ID 00000107	Registration on: 14/04/2023 10:45:00
Age & Sex: 30 Year Female	Reported on: 13:12:57
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

CBCESR			
Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	11.6 L	g/dL	12.0 - 16.0
Total RBC	4.26	mill./cm	4.00 - 5.20
Total WBC	6900	/cmm	4000 - 11000
Platelet Count	189000	/cmm	150000 - 450000
НСТ	34.9 L	%	36.0 - 48.0
MCV	81.9	fL	80.0 - 100.0
МСН	27.2	pg	27.0 - 32.0
МСНС	33.2	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT			
Neutrophils	45	%	40 - 70
Lymphocytes	49 H	%	20 - 40
Eosinophils	03	%	02-05
Monocytes	03	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
ABSOLUTE DIFFERNTIAL COUNT			
Neutrophils	3105	/cumm	2000 - 7000
Lymphocytes	3381 H	/cumm	1000 - 3000
Eosinophils	207	/cumm	20 - 500
Monocytes	207	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100
<u>GLR / NLR</u>	0.9		
(Neutrophil/Lymphocyte Ratio)			
<u>M ENTZER INDEX</u>	19.2		
RDW-CV	13.5	%	11.1 - 14.1
RDW-SD	44.2	fl	
MPV	9.4	fl	
	J. T		





Name: ARCHITA		Ward: opd	
Lab ID 00000107		Registration on: 14/04/2023 10:45:00	
Age & Sex: 30 Year Female		Reported on: 13:12:58	
Reference: VELOCITY HOSPITAL		Sample Type: BLOOD & URINE	
PDW	16.9	%	

PERIPHERAL SM EAR EXAM INATION

RBC Morphology WBC Morphology Platelets in Smear	Appear no	Normochromic and normocytic. Appear normal,Immature cells are not seen . Adequate.		
Malarial Parasites	Not Detec	ted.		
<u>ESR</u> AFTER 1 HOUR	10	mm/hr	0.0 - 20.0	





Name:	ARCHITA	Ward:	opd
Lab ID	00000107	Registration on:	14/04/2023 10:45:00
Age & Sex:	30 Year Female	Reported on:	13:12:58
Reference:	VELOCITY HOSPITAL	Sample Type:	BLOOD & URINE

BLOOD GROUP

Test

Observed Value Unit

Biological Reference Interval

Blood Group Rh Factor "A" POSITIVE





Name: ARCHITA	Ward: opd
Lab ID 00000107	Registration on: 14/04/2023 10:45:00
Age & Sex: 30 Year Female	Reported on: 13:12:58
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

Test	Observed Valu	ue Unit	Biological Reference Interval
Sample	RANDOM PL	ASMA	
RANDOM (RBS)			
Blood Sugar-R	70.2	mg/dL	70.0 - 140.0
Urine Sugar-R	Absent		





Name: ARCHITA		Ward:	opd
Lab ID 000001)7	Registration on:	14/04/2023 10:45:00
Age & Sex:30 Year	Female	Reported on:	13:12:58
Reference: VELOCITY	HOSPITAL	Sample Type:	BLOOD & URINE

HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<u>HbA1</u> c	4.7	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	88.2	mg/dL	80.0 - 140.0

Importance of HbA1c - Glycated Hb. in Diabetes Mellitus

• HbA1c, also known as Glycated Hemoglobin is the most important test for the assessment of long term blood glucose control (also called glycemic control)

• HbA1c reflects mean blood glucose concentration over past 6-8 weeks and provides amuch better indication of long term glycemic control than blood glucose determination

• HbA1c is formed by non-enzymatic reaction between glucose and Hb., this reaction is irreversible and therefore remains unaffected by short term fluctuations in blood glucose levels.

Long term complications of diabetes such as retinopathy-eye complications, nephropathy-kidney complications and neuropathy-nerve complications, are potentially serious and can lead to blindness, kidney failure etc.
Glycemic control monitored by HbA1c measurement using HPLC method-(Gold Standard) is considered most

important. (Ref. National Glycohemoglobin Standardization Program -NGSP).







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Lab ID 00000107	Registration on: 14/04/2023 10:45:00
Age & Sex: 30 Year Female	Reported on: 13:12:58
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE
LIPID PROFILE	

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Se	erum	
Cholesterol	142.3	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	123.1	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	38.2 L	mg/dL	40-60
VLDL	24.62	mg/dL	0.00 - 30.00
LDL Cholesterol	79.48	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	2.08		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	3.7 H		0 - 3.5
Total Lipid	508.4	mg/dl	400.0 - 1000.0





	Name:	ARCHITA	Ward:	opd
	_ab ID	00000107	Registration o	n: 14/04/2023 10:45:00
4	Age & Sex:	30 Year Female	Reported on	: 13:12:58
	Reference:	VELOCITY HOSPITAL	Sample Type	: BLOOD & URINE

RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.82	mg/dL	0.5-1.30
Bl. Urea	24.5	mg/dL	10.0 - 40.0
BUN	11.4	mg/dl	6.0 - 22.0
Uric Acid	6.0	mg/dL	2.6 - 6.0
PROTEINS			
Total Protein	6.9	g/dL	6.0 - 8.0
Albumin	4.3	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.5 - 4.0
A/G Ratio	1.7		







Name:	ARCHITA	Ward:	opd
Lab ID	00000107	Registration on:	14/04/2023 10:45:00
Age & Sex	30 Year Female	Reported on:	13:12:58
Reference:	VELOCITY HOSPITAL	Sample Type:	BLOOD & URINE

LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
BILIRUBIN			
Total Bilirubin	0.4	mg/dL	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.20	mg/dL	0.00 - 1.00
SGPT(ALT)	19.0	U/L	0.0 - 40.0
SGOT (AST)	20.3	U/L	0.0 - 46.0
Alkaline Phosphatase	100.2	U/L	40-129
PROTEINS			
Total Protein	6.9	g/dL	6.0 - 8.0
Albumin	4.3	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.5 - 4.0
A/G Ratio	1.7		







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Lab ID	00000107	Registration on:	14/04/2023 10:45:00
Age & Sex	30 Year Female	Reported on:	13:12:58
Reference	VELOCITY HOSPITAL	Sample Type:	BLOOD & URINE

URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
PHYSICAL EXAM INATION			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Clear		Clear
рН	6.0		
Specific Gravity	1.015		
Sediments	Absent		Absent
CHEMICAL EXAMINATION			
Protein (Albumin)	Absent		Absent
Sugar	Absent		Absent
Bile Salts	Absent		Absent
Bile Pigment	Absent		Absent
Ketone	Absent		Absent
Occult Blood	Absent		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
MICROSCOPIC EXAMINATION			
Pus Cells	Occasional	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	Occasional	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Absent		Absent

--- End of Report ---

