

LABORATORY REPORT

Sex/Age : Male / 25 Years

Case ID: 30403609414

: 2677793

Name Ref. Bv

Dis. At

Pt. ID

Pt. Loc

TSH

Bill. Loc. : Spectra Diagnostic Laboratory Service Provider

1.466

Reg Date and Time

: 14-Apr-2023 10:13

Sample Type : Serum Mobile No. :

Sample Date and Time : 14-Apr-2023 10:16

: Mr. UMESH TRILOKCHAND SUTHAR

Sample Coll. By : non NACL

Ref Id1

Report Date and Time

: 14-Apr-2023 11:34

Acc. Remarks

Ref Id2

BIOLOGICAL REF RANGE TEST RESULTS UNIT **REMARKS Thyroid Function Test Triiodothyronine (T3)** 70 - 204 108.51 ng/dL Thyroxine (T4) 7.9 4.6 - 10.5 µg/dL

INTERPRETATIONS

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.

μIU/mL

0.4 - 4.94

- 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.

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 (microIU/ml)

First trimester Second trimester Third trimester

0.24 - 2.000.43-2.2 0.8-2.5

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

Dr. Nima Kapadia

Dr. Prashant Naik

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M.D.(Path)

M.D.(Path), D.C.P.



LABORATORY REPORT

Pt. Loc

Name : Mr. UMESH TRILOKCHAND SUTHAR / 25 Years Case ID : 30403609414 Sex/Age : Male

Pt. ID Ref. By : 2677793

Bill. Loc. : Spectra Diagnostic Laboratory Service Provider

Reg Date and Time : 14-Apr-2023 10:13 Sample Type Mobile No. :

Sample Date and Time : 14-Apr-2023 10:16 Ref Id1 Sample Coll. By : non NACL

Report Date and Time : 14-Apr-2023 11:34 Acc. Remarks Ref Id2

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 triiodothyronine (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 hypothyroid patients, hypothyroidism 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.

Normal ranges of TSH & thyroid hormons vary according trimesper in pregnancy.

TSH ref range in Pregnacy Reference range (microIU/ml)

0.24 - 2.00 0.43-2.2 First triemester Second triemester 0.8-2.5 Third triemester

	T3	T4	TSH
Normal Thyroid function	N	N	N
Primary Hyperthyroidism	↑	↑	\
Secondary Hyperthyroidism	1	^	1
Grave's Thyroiditis	1	^	1
T3 Thyrotoxicosis	↑	N	N/↓
Primary Hypothyroidism	\	V	^
Secondary Hypothyroidism	\	V	\
Subclinical Hypothyroidism	N	N	↑
Patient on treatment	N	N/↑	4

 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)

Dr. Nima Kapadia

Dr. Prashant Naik

M.D.(Path) M.D.(Path), D.C.P. Page 2 of 2

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Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:27

Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	15.8	g/dL	13.5 - 17.5
Total RBC	5.29	mill./cm	4.50 - 5.90
Total WBC	6700	/cmm	4000 - 11000
Platelet Count	267000	/cmm	150000 - 450000
НСТ	47.8	%	36.0 - 48.0
MCV	90.4	fL	80.0 - 100.0
MCH	29.9	pg	27.0 - 32.0
MCHC	33.1	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT			
Neutrophils	51	%	40 - 70
Lymphocytes	41 H	%	20 - 40
Eosinophils	04	%	02-05
Monocytes	04	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
ABSOLUTE DIFFERNTIAL COUNT			
Neutrophils	3417	/cumm	2000 - 7000
Lymphocytes	2747	/cumm	1000 - 3000
Eosinophils	268	/cumm	20 - 500
Monocytes	268	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100
GLR / NLR	1.2		
(Neutrophil/Lymphocyte Ratio)			
M ENTZER INDEX	17.1		
RDW-CV	12.5	%	11.1 - 14.1
RDW-SD	45.2	fl	
MPV	6.8	fl	
PCT	0.18	%	







Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:27
Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

PDW 16.8 %

PERIPHERAL SM EAR EXAMINATION

RBC Morphology Normochromic and normocytic.

WBC Morphology Appear normal, Immature cells are not seen .

Platelets in Smear Adequate.

Malarial Parasites Not Detected.

ESR

AFTER 1 HOUR 12 mm/hr 0.0 - 15.0







Name: UMESH TRILOKCHAND SUTHAR

Lab ID 0000105

Age & Sex: 25 Year | Male
Reference: VELOCITY HOSPITAL

Ward: OPD

Registration on: 14/04/2023 09:37:00

Reported on: 13:05:27

Sample Type: BLOOD & URINE

BLOOD GROUP

Test Observed Value Unit Biological Reference Interval

Blood Group "A"

Rh Factor POSITIVE







Name: UMESH TRILOKCHAND SUTHAR

Lab ID 00000105

Age & Sex: 25 Year | Male
Reference: VELOCITY HOSPITAL

Ward: OPD

Registration on: 14/04/2023 09:37:00

Reported on: 13:05:27

Sample Type: BLOOD & URINE

BLOOD GLUCOSE TEST

Test Observed Value Unit Biological Reference Interval

Sample RANDOM PLASMA

RANDOM (RBS)

Blood Sugar-R 80.4 mg/dL 70.0 - 140.0

Urine Sugar-R Absent







Lab ID 00000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:28
Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	5.6	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
			V 0.2 . Non-diabetic Level

Mean Blood Glucose 114.0 mg/dL 70.0 - 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).







Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:28

Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Se	erum	
Cholesterol	154.5	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	72.6	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	36.5	mg/dL	40-60
VLDL	14.52	mg/dL	0.00 - 30.00
LDL Cholesterol	103.48	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	2.84		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	4.2 H		0 - 3.5
Total Lipid	485.6	mg/dl	400.0 - 1000.0









Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:28

Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.89	mg/dL	0.5-1.30
Bl. Urea	22.5	mg/dL	10.0 - 40.0
BUN	10.5	mg/dl	6.0 - 22.0
Uric Acid	5.4	mg/dL	3.5 - 7.2
PROTEINS			
Total Protein	7.1	g/dL	6.0 - 8.0
Albumin	4.6	g/dL	3.50 - 5.50
Globulin	2.5	g/dL	2.0 - 4.0
A/G Ratio	1.8		







Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:28

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)	30.4	U/L	0.0 - 40.0
SGOT (AST)	32.5	U/L	0.00-46.00
Alkaline Phosphatase	105.5	U/L	40-129
PROTEINS			
Total Protein	7.1	g/dL	6.0 - 8.0
Albumin	4.6	g/dL	3.50 - 5.50
Globulin	2.5	g/dL	2.0 - 4.0
A/G Ratio	1.8		

OPD







Lab ID 0000105 Registration on: 14/04/2023 09:37:00

Age & Sex: 25 Year | Male Reported on: 13:05:28

Reference: VELOCITY HOSPITAL Sample Type: BLOOD & URINE

URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
PHYSICAL EXAMINATION			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Clear		Clear
рН	6.5		
Specific Gravity	1.010		
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	Absent	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	Absent	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
	Absent		Absent

