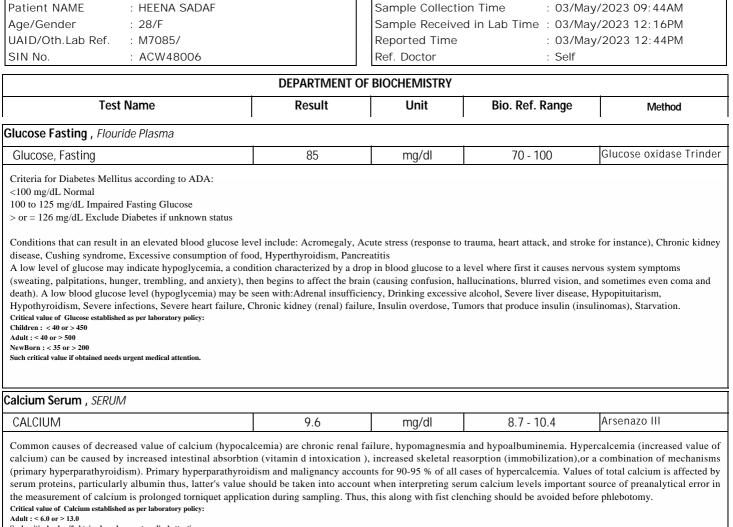


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Visit ID:



Such critical value if obtained needs urgent medical attention



Dr. Babita Goyal (MD Biochemistry)

Report Authentication QR Code



Sample Collected At

ATULAYA HEALTHCARE, SEC 70, MOHAL SCO 542, Sector 70 Mohali Distt

Only for Clinical Lab Report Home Sample Collection - **9779 599 499**

Sample Processed At

ATULAYA HEALTHCARE (MAIN REFERENCE LAB) Plot No 6,Sector 82 JLPL Mohali Distt

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Tes	t Name	Result	Unit	Bio. Ref. Range	Method
		DEPARTMENT OF	BIOCHEMISTRY		
SIN No.	: ACW48006		Ref. Doctor	: Self	
UAID/Oth.Lab Ref.	: M7085/		Reported Time	: 03/May/	2023 12:53PM
Age/Gender	: 28/F Sample Received in Lab Time : 03/May/2023 12:16F				2023 12:16PM
Patient NAME	: HEENA SADAF		Sample Collection	on Time : 03/May/	2023 09:44AM

*Electrolytes Serum . SERUM

141	mEq/L	132 - 146	Indirect Potentiometric
4.7	mEq/L	3.5 - 5.5	Indirect Potentiometric
106	mEq/L	99 - 109	Indirect Potentiometric
	4.7	4.7 mEq/L	4.7 mEq/L 3.5 - 5.5

Comment:

Sodium levels are increased in dehydration, cushing's syndrome, aldosteronism & decreased in Addison's disease, hypopituitarism, liver disease. Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure, hemolysis, trauma, Addison's disease, metabolic acidosis, acute starvation, dehydration, and with rapid K infusion. Chloride is increased in dehydration, renal tubular acidosis (hyperchloremia metabolic acidosis), acute renal failure, metabolic acidosis associated with prolonged diarrhea and loss of sodium bicarbonate, diabetes insipidus, adrenocortical hyperfuction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salt. Chloride is decreased in overhydration, chronic respiratory acidosis, salt-losing nephritis, metabolic alkalosis, congestive heart failure, Addisonian crisis, certain types of metabolic acidosis, persistent gastric secretion and prolonged vomiting.

Critical value of Sodium established as per laboratory policy: Adult : < 120 or > 160

Critical value of Potassium established as per laboratory policy:

Adult : < 2.7 or > 6.0 Such critical value if obtained needs urgent medical attention.



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SIN No.	: ACW48006	EPARTMENT OF BIOCHEMISTRY	: Self
UAID/Oth.Lab Ref.	: M7085/	Reported Time	: 03/May/2023 12:53PM
Age/Gender	: 28/F	Sample Received in Lab Time	e : 03/May/2023 12:16PM
Patient NAME	: HEENA SADAF	Sample Collection Time	: 03/May/2023 09:44AM

Test Name	Result	Unit	Bio. Ref. Range	Method
Lipid Profile Screening , SERUM				
TOTAL CHOLESTEROL	166.0	mg/dl	0.0 - 200	ChodPap
TRIGLYCERIDES	58.0	mg/dl	30 - 150	Enzymatic
HDL CHOLESTEROL	56.7	mg/dl	40 - 60	Direct
LDL CHOLESTEROL	97.7	mg/dl	0 - 110	Calculated
VLDL CHOLESTEROL	11.6	mg/dl	06 - 30	Calculated
CHOL / HDL RATIO	2.93		4 - 6	Calculated
LDL / HDL RATIO	1.72		0.5 - 3.0	Calculated
TRIGLYCERIDES/HDL RATIO	1.02		< 1.0	Calculated
NON-HDL CHOLESTEROL	109.3	mg/dl	<130	Calculated
TOTAL LIPIDS	390.00	mg/dL	350 - 700	Calculated

Comment:

Comment: Triglycerides can show marked variation depending on previous day diet intake. 12 hrs fasting is mandatory before testing for lipid profile specially for triglyceride values. In case, lipid profile is done in non-fasting state, then any abnormal value can come especially for triglycerides, LDL, VLDL As per National Cholesterol Education Programme (NCEP) & guidelines

	Total Cholestrol in mg/dl
<200	Desirable
200 - 239	Borderline
> or =240	High
	LDL Cholestrol
< 100	Optimal
100 - 129	Near optimal
130 - 159	Borderline high
160 - 189	High
> or = 190	Very high
	Triglycerides
< 150	Normal
150 to 199	Borderline high
200 to 499	High
> or = 500	Very high

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Patient NAME	: HEENA SADAF	Sample Collection Time	: 03/May/2023 09:44AM		
Age/Gender	: 28/F	Sample Received in Lab Time	: 03/May/2023 12:16PM		
UAID/Oth.Lab Ref.	: M7085/	Reported Time	: 03/May/2023 12:53PM		
SIN No.	: ACW48006	Ref. Doctor	: Self		
DEPARTMENT OF BIOCHEMISTRY					

Result	Unit	Bio. Ref. Range	Method			
0.90	mg/dL	0.3 - 1.10	Vanadate oxidation			
0.20	mg/dl	< 0.3	Vanadate oxidation			
0.70	mg/dl	0.0 - 0.8	Calculated			
18.0	U/L	< 34	UV without Pyrodoxal Po4			
10.0	U/L	10 - 49	UV without Pyrodoxal Po4			
67.0	U/L	45 - 129	Modified IFCC			
7.40	g/dl	5.7 - 8.2	Biuret			
4.60	g/dL	3.2 - 4.8	BCG Dye Binding			
2.80	gm/dl	3.0 - 4.2	Calculated			
1.64		1.2 - 2.0	Calculated			
	0.90 0.20 0.70 18.0 10.0 67.0 7.40 4.60 2.80	0.90 mg/dL 0.20 mg/dl 0.70 mg/dl 18.0 U/L 10.0 U/L 67.0 U/L 7.40 g/dl 4.60 g/dL 2.80 gm/dl	0.90 mg/dL 0.3 - 1.10 0.20 mg/dl < 0.3			

Comment:

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Elevated levels results from increased bilirubin production (eg hemolysis and ineffective erythropoiesis); decreased bilirubin excretion (eg; obstruction and hepatitis); and abnormal bilirubin metabolism (eg; hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in viral hepatitis; drug reactions, alcoholic liver disease conjugated (direct) bilirubin is also elevated more than unconjugated (indirect)bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts tumors & Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of hemolytic or pernicious anemia, transfusion reaction & a common metabolic condition termed Gilbert syndrome.

AST levels increase in viral hepatitis, blockage of the bile duct ,cirrhosis of the liver, liver cancer, kidney failure, hemolytic anemia, pancreatitis, hemochromatosis. Ast levels may also increase after a heart attck or strenuous activity. ALT is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health. Elevated ALP levels are seen in Biliary Obstruction, Osteoblastic Bone Tumors, Osteomalacia, Hepatitis, Hyperparathyriodism, Leukemia, Lymphoma, paget's disease, Rickets, Sarcoidosis etc.

Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum..Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma,Waldenstrom's disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic - Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc

Critical value of serum albumin established as per laboratory policy:

: < 1.5

Critical value of serum Bilirubin established as per laboratory policy:

0 - 3 months : >15 4 - 6 months: >20

Adult : > 15

Critical value of SGOT established as per laboratory policy:

. > 1000

Critical value of SGPT established as per laboratory policy:

: > 1000

Such critical value if obtained needs urgent medical attention.



Dr. Babita Goyal (MD Biochemistry)

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Patient NAME: HEENA S/Age/Gender: 28/FUAID/Oth.Lab Ref.: M7085/SIN No.: ACW4800		Sample Collection Time: 03/May/2023 09:44AMSample Received in Lab Time: 03/May/2023 12:16PMReported Time: 03/May/2023 12:53PMRef. Doctor: Self			
	DEPARTMENT C	OF BIOCHEMISTRY			
Test Name	Result	Unit	Bio. Ref. Range	Method	
Renal Function Screening, SERUM					
BLOOD UREA NITROGEN	8.0	mg/dl	5 - 23	Urease-GLDH	
CREATININE	0.61	mg/dl	0.38 - 1.00	Jaffes, alkaline picrate	
GFR, ESTIMATED	122.57	mL/min/1.7m2		Compensated, Jaffes reaction, IDMS traceable	
URIC ACID	3.10	mg/dl	3.1 - 7.8	Uricase/Peroxidase	
UREA	17.12	mg/dL	10 - 41	Calculated	
BUN/CREATININE RATIO	13.11	mg/dL	10 - 25	Calculated	
UREA/CREATININE RATIO	28.07	mg/dL	20 - 50	Calculated	
AGE IN YEARS 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 >=70	5 11 10 99 93 93 85 75	7) 3 5			
Normal GFR Mild decrease in GFR		90 - 89			
Moderate decrease in GFR		30 - 59			
Sever decrease in GFR Kidney Failure	15	5 - 29			
Note 1. National Kidney Disease Education program (CKD) 2. MDRD equation is most accurate for GFR <=€	i0 mL/min/1.73m2 yy: y policy:	imate or predict GFR in aduli	ts (>=20 years) with Chronic Kidr	ney Disease	



Dr. Babita Goyal (MD Biochemistry)

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Patient NAME : I	HEENA SADAF	Sample Collection Time	: 03/May/2023 09:49AM
Age/Gender : 2	28/F	Sample Received in Lab Time	: 03/May/2023 12:18PM
UAID/Oth.Lab Ref. : I	M7085/	Reported Time	: 03/May/2023 01:34PM
SIN No. : A	ACW77665	Ref. Doctor	: Self

DEPARTMENT OF CLINICAL PATHOLOGY						
Test Name	Result	Unit	Bio. Ref. Range	Method		
Complete Urine Examination , Urine						
PHYSICAL EXAMINATION						
COLOUR	PALE YELLOW		PALE YELLOW	PHYSICAL		
TRANSPARENCY	SLIGHTLY TURBID		CLEAR	PHYSICAL		
SP. GRAVITY	1.010		1.003 - 1.035	pKa Change		
BIOCHEMICAL EXAMINATION						
рН	7.0		4.7 -7.5	Double indicator		
URINE PROTEIN	Negative		NOT DETECTED	Acid-Base Indicator		
GLUCOSE	Negative		NOT DETECTED	Glucose Oxidase- Peroxidase		
NITRITE	Negative		Not Detected			
KETONES	Negative		NOT DETECTED	Legals		
UROBILINOGEN	Normal		Not Detected	Erlichs		
MICROSCOPIC EXAMINATION						
PUS CELLS	2-4	/HPF	0 - 5	Microscopy		
EPITHELIAL CELLS	10-12	/HPF	0 - 5	Microscopy		
RBC	NIL	/HPF	NIL	Microscopy		
CRYSTALS	NIL	/HPF	NIL	Microscopy		
Budding Yeast	NIL	/HPF	NIL	Microscopy		
BACTERIA	+	/HPF	NIL	Microscopy		
Others (Non Specific)	NIL	%		HPLC		
Comment:				·		

Its an in vitro diagnostic test. The physical examination is intended for use in at-risk patient groups to assist diagnosis in the following areas:

Kidney function

· Urinary tract infections

Carbohydrate metabolism

• Liver function

Critical value of Urine Ketone established as per laboratory policy:

If positive. Such critical value if obtained needs urgent medical attention.

Dr. Romilla Mittal (MD, DNB Pathology)

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Optical(2-Dimensional technology)

Mathematical calculation

Measured Platelet Histogram Peroxidase/Basophil/Lobularity

Patient NAME : HEENA	SADAF	Sample	Collection Time	: 03/May	/2023 09:44AM
Age/Gender : 28/F	Sample I	Received in Lab Time	e : 03/May	/2023 12:13PM	
UAID/Oth.Lab Ref. : M7085/	Reported	d Time	: 03/May	/2023 12:46PM	
SIN No. : ACW47	951	Ref. Doc	tor	: Self	
	DEPARTM	ENT OF HAEMATC	LOGY		
Test Name	Result	Uni	t Bio. Ref	. Range	Method
Complete Blood Count (CBC) , Wh	HOLE BLOOD EDTA				
HAEMOGLOBIN	12.5	g/dl	12.0 - 15.0	Cyan-met	themoglobin
RBC COUNT	4.50	million/µl	4.5 - 5.5	Optical(2	-Dimensional technology)
PCV	39.7	%	36 - 46	Mathema	atical Calculation
MCV	88.2	fL	83 - 101	Measured	d, RBC Histogram
MCH	27.7	pg	27 - 32	Mathema	ntical Calculation
MCHC	31.4	g/dl	31.0 - 34.5	Mathema	itical Calculation
R.D.W	14	%	11.5 - 14.5	Measured	d, RBC Histogram
TOTAL LEUCOCYTE COUNT	2580	cells/µL	4000 - 10000	Peroxida	se/Basophil/Lobularity
DIFFERENTIAL LEUCOCYTE COUN	NT (DLC)				
NEUTROPHILS	58.3	%	40 -80	Peroxidas	e (Flowcytometry)
ABSOLUTE NEUTROPHIL COUNT	1,504	/μΙ	2000 - 7000	Peroxidas	e (Flowcytometry)
LYMPHOCYTES	30.9	%	20 - 45	Peroxidas	e (Flowcytometry)
ABSOLUTE LYMPHOCYTE COUNT	797	/μΙ	1000 - 3000	Peroxidas	e (Flowcytometry)
MONOCYTES	8	%	02 -10	Peroxidas	e (Flowcytometry)
ABSOLUTE MONOCYTE COUNT	206.4	/μΙ	200 - 1000	Peroxidas	e (Flowcytometry)
EOSINOPHILS	2.3	%	1 - 6	Peroxidas	e (Flowcytometry)
ABSOLUTE EOSINOPHIL COUNT	59.3	/μΙ	20-500	Peroxidas	e (Flowcytometry)
BASOPHILS	0.5	%	00 - 02	Basophil/	Lobularity(Flowcytometry
ABSOLUTE BASOPHIL COUNT	12.9	/μΙ	20 - 100	Basophil/	Lobularity(Flowcytometry

Comment:

PCT

MPV

PLATELET COUNT

NUCLEATED RED BLOOD CELLS %

NUCLEATED RED BLOOD CELLS

A complete blood count is a blood panel that gives information about the cells in a patient's blood, such as the cell count for each cell type. It is done on automated cell counter. The sample collected in EDTA is well preserved for 1 day.

cells/µl

%

fL

%

A compare body count is a body pair that gives information about the custom in a pattern body, such as the centrom that centromy is the preserver of ray. After 24 – 48 hrs, RBC morphology show increased in MCV & HCT. All abornama haemograms are reviewed and confirmed increscopically. Critical value of Hemoglobin established as per laboratory policy: Adult : <7.0 or > 20, NewBorn : < 10 or > 22, Critical value of TLC established as per laboratory policy: Adult : <2000 or > 30000 NewBorn : < 2000 or > 430000, Critical value of PCV established as per laboratory policy: Adult : <200 or > 60 NewBorn : < 33 or > 71, Critical value of Platelets established as per laboratory policy: Adult : <40000 or > 1000000. Such critical value if obtained needs urgent medical attention.



Dr. Iffat Hameed ode Consultant Pathologist



Sample Collected At

159000

0.15

9.5

0.00

0.0

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150000 - 410000

0.19 - 0.39

6.8 - 10.9

< 0.01

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Patient NAME	: HEENA SADAF	Sample Collection Time	: 03/May/2023 09:44AM
Age/Gender	: 28/F	Sample Received in Lab Time	: 03/May/2023 12:16PM
UAID/Oth.Lab Ref.	: M7085/	Reported Time	: 03/May/2023 12:53PM
SIN No.	: ACW48006	Ref. Doctor	: Self

DEPARTMENT OF IMMUNOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
Vitamin B12, Serum				
VITAMIN B12	288.0	pg/mL	211 - 911	C.L.I.A

Comment:

Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. A significant increase in RBC MCV may be an important indicator of vitamin B12 deficiency.

Patients taking vitamin B12 supplementation may have misleading results. A normal serum concentration of B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum B12 concentrations are normal.

Critical value of VIT B12 established as per laboratory policy:

Adult : > 2000

Such critical value if obtained needs urgent medical attention.



Dr. Babita Goyal (MD Biochemistry)

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Patient NAME	: HEENA SADAF		Sample Collect	ion Time : 03/M	ay/2023 09:44AM
Age/Gender	: 28/F		Sample Receive	ed in Lab Time : 03/M	ay/2023 12:16PM
UAID/Oth.Lab Ref.	: M7085/		Reported Time	: 03/M	ay/2023 12:53PM
SIN No.	: ACW48006		Ref. Doctor	: Self	
		DEPARTMENT C	OF IMMUNOLOGY		
Tes	t Name	Result	Unit	Bio. Ref. Range	Method
*Vitamin D 25 Hydrox	xy (D3) , Serum				
VITAMIN D (25 - OH	VITAMIN D)	31.44	ng/mL		CLIA
Comment:					
BIOLOGICAL R	EFERENCE RANGES				
VITA	MIN D STATUS	VITA	MIN D 25 HYD	ROXY (ng/mL)	
I	DEFICIENCY		<20		
INS	SUFFICIENCY		20-<30		
S	UFFICIENCY		30 - 100		
	TOXICITY		>100		
The assay measures both	D2 (Ergocalciferol) and D3 (C	holecalciferol) metabolite	es of vitamin D.Vitami	in D status is best determined	by measurement of 25 hydroxy
vitamin D, as it is the mai	ior circulating form and has long	er half life (2-3 weeks) t	han 1.25 Dihydroxy vit	amin D (5-8 hrs)	

The reference ranges discussed in the preceding are related to total 25-OHD; as long as the combined total is 30 ng/mL or more, the patient has sufficient vitamin D. Levels needed to prevent rickets and osteomalacia (15 ng/mL) are lower than those that dramatically suppress parathyroid hormone levels (20-30 ng/mL). In turn, those levels are lower than levels needed to optimize intestinal calcium absorption (34 ng/mL). Neuromuscular peak performance is associated with levels approximately 38 ng/mL.

Critical value of VIT D established as per laboratory policy: : > 100

Such critical value if obtained needs urgent medical attention.



Dr. Babita Goyal (MD Biochemistry)

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Visit ID:

: HEENA SADAF : 28/F : M7085/ : ACW48006		1	in Lab Time : 03/Ma	ay/2023 09:44AM ay/2023 12:16PM ay/2023 12:53PM
	DEPARTMENT O	F IMMUNOLOGY		
Name	Result	Unit	Bio. Ref. Range	Method
3, Total T4, Ultrasensitiv	e TSH) , Serum			
(T3, TOTAL)	0.91	ng/mL	0.60 - 1.81	C.L.I.A
\L)	7.20	ug/dl	3.2 - 12.6	C.L.I.A
	2.170	μIU/ml	0.55 - 4.78	C.L.I.A
	: 28/F : M7085/ : ACW48006	: 28/F : M7085/ : ACW48006 DEPARTMENT O Name Result 3, Total T4, Ultrasensitive TSH) , Serum (T3, TOTAL) 0.91 AL) 7.20	: 28/F Sample Received Reported Time Ref. Doctor : ACW48006 Ref. Doctor DEPARTMENT OF IMMUNOLOGY Name Result Unit 3, Total T4, Ultrasensitive TSH) , Serum (T3, TOTAL) 0.91 ng/mL L) 7.20 ug/dl	: 28/F Sample Received in Lab Time : 03/Ma : M7085/ Reported Time : 03/Ma : ACW48006 Ref. Doctor : Self DEPARTMENT OF IMMUNOLOGY Name Result Unit Bio. Ref. Range 3, Total T4, Ultrasensitive TSH) , Serum (T3, TOTAL) 0.91 ng/mL 0.60 - 1.81 L) 7.20 ug/dl 3.2 - 12.6 0.60

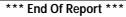
any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction (hyperthyroidism) of T4 and/or T3.

Limitations: T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre-Albumin, so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, steroids may falsely affect the T3 and T4 levels. Normal levels of T4 can also be seen in Hyperthyroid patients with: T3 Thyrotoxicosis, hypoproteinaemia or Ingestion of certain drugs. Serum T4 levels in neonates and infants are higher than values in the normal adult, due to the increased concentration of TBG in neonate serum, TSH may be normal in central hypothyroidism, recent rapid correction of hypothyroidism, or be the increased concentration of the G in the orbit of the table of the increased concentration of the G in the orbit of the table of the increased concentration of the G in the orbit of the table of the increased concentration of the G in the orbit of the table of the increased concentration of the G in the orbit of the increased concentration of the G in the orbit of the increased concentration of the orbit of the increased concentration of the G in the orbit of the increased concentration of the G in the orbit of the increased concentration of the increased concentration of the orbit of the increased concentration of the increased concentration of the orbit of the orbit of the increased concentration of the orbit of the increased concentration of the orbit of the o pregnancy, phenytoin therapy. Autoimmune disorders may produce spurious result. Various drugs can interfere with the test result. TSH has a diurnal rhythm so values may vary if sample collection is done at different times of the day. Recommended test for T3 and T4 is unbound fraction or free levels as it is metabolically active.

Time of sampling or food intake alter TSH levels. Recommended sample for thyroid tests is morning fasting sample (Shriram Mahadevn et al)

Each individual circadian rhythm is different, so for serial readings, one should always give the sample at the exact same time of the day every time.

Age	T3 (ng/ml)	T4 (μg/dL)	TSH (µIU/mL)		
dults 0.60-1.81		3.20 - 12.6	0.55 - 4.78		
			For Pregnant females (As per American Thyroid Associa		
			First Trimester	0.10 - 2.50	
			Second Trimester	0.20 - 3.00	
			Third Trimester	0.30 - 3.00	



Babita

Dr. Babita Goyal (MD Biochemistry)

Report Authentication QR Code



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Wishing you good health!

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