

REPORT

Name	: Mr. M S N MURTHY	Sample ID	: 24753429
Age/Gender	: 72 Years/Male	Reg. No	: 0312311030011
Referred by	: Dr. S RAGHAVENDER	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 03-Nov-2023 09:09 AM
Primary Sample	: Whole Blood	Received On	: 03-Nov-2023 12:43 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 03-Nov-2023 02:02 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
Glycated Hemoglobin (HbA1c)	12.9	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
Mean Plasma Glucose	323.53	mg/dL		Calculated

Interpretation:

- Glycated hemoglobins (GHb), also called glycohemoglobins, are substances formed when glucose binds to hemoglobin, and occur in amounts proportional to the concentration of serum glucose. Since red blood cells survive an average of 120 days, the measurement of GHb provides an index of a person's average blood glucose concentration (glycemia) during the preceding 2-3 months. Normally, only 4% to 6% of hemoglobin is bound to glucose, while elevated glycohemoglobin levels are seen in diabetes and other hyperglycemic states
- Mean Plasma Glucose(MPG):This Is Mathematical Calculations Where Glycated Hb Can Be Correlated With Daily Mean Plasma Glucose Level

Result rechecked and verified for abnormal cases

*** End Of Report ***

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Dr. Vaishnavi
DR. VAISHNAVI
MD BIOCHEMISTRY

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Name	: Mr. M S N MURTHY	Sample ID	: 24753431
Age/Gender	: 72 Years/Male	Reg. No	: 0312311030011
Referred by	: Dr. S RAGHAVENDER	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 03-Nov-2023 09:09 AM
Primary Sample	: Whole Blood	Received On	: 03-Nov-2023 12:43 PM
Sample Tested In	: Serum	Reported On	: 03-Nov-2023 01:27 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
TSH -Thyroid Stimulating Hormone	10.56	µIU/mL	0.35-5.5	CLIA

Pregnancy & Cord Blood

TSH (Thyroid Stimulating Hormone (µIU/mL))	
First Trimester	: 0.24-2.99
Second Trimester	: 0.46-2.95
Third Trimester	: 0.43-2.78
Cord Blood	: 2.3-13.2

- TSH is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 (free T3) and FT4 (free T4). Additionally, the hypothalamic tripeptide, thyrotropin-releasing hormone (TRH), directly stimulates TSH production.
- TSH interacts with specific cell receptors on the thyroid cell surface and exerts two main actions. The first action is to stimulate cell reproduction and hypertrophy. Secondly, TSH stimulates the thyroid gland to synthesize and secrete T3 and T4
- The ability to quantitate circulating levels of TSH is important in evaluating thyroid function. It is especially useful in the differential diagnosis of primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low
- TRH stimulation differentiates secondary and tertiary hypothyroidism by observing the change in patient TSH levels. Typically, the TSH response to TRH stimulation is absent in cases of secondary hypothyroidism, and normal to exaggerated in tertiary hypothyroidism
- Historically, TRH stimulation has been used to confirm primary hyperthyroidism, indicated by elevated T3 and T4 levels and low or undetectable TSH levels. TSH assays with increased sensitivity and specificity provide a primary diagnostic tool to differentiate hyperthyroid from euthyroid patients.

Result rechecked and verified for abnormal cases

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Primary Sample	: Whole Blood	Received On	: 03-Nov-2023 12:43 PM
Sample Tested In	: Serum	Reported On	: 03-Nov-2023 03:17 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
Lipid Profile				
Cholesterol Total	130	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	151	mg/dL	< 150	GPO-POD
Cholesterol-HDL	42	mg/dL	40-60	Direct
Cholesterol-LDL	57.8	mg/dL	< 100	Calculated
Cholesterol- VLDL	30.2	mg/dL	7-35	Calculated
Non HDL Cholesterol	88	mg/dL	< 130	Calculated
Cholesterol : HDL Ratio	3.1	%	0-4.0	Calculated
LDL:HDL Ratio	1.38	%	0-3.5	Calculated

The National Cholesterol Education program's third Adult Treatment Panel (ATPIII) has issued its recommendations on evaluating and treating lipid disorders for primary and secondary.

NCEP Recommendations	Cholesterol Total in (mg/dL)	Triglycerides in (mg/dL)	HDL Cholesterol (mg/dL)	LDL Cholesterol in (mg/dL)	Non HDL Cholesterol in (mg/dL)
Optimal	Adult: < 200 Children: < 170	< 150	40-59	Adult:<100 Children: <110	<130
Above Optimal	-----	-----		100-129	130 - 159
Borderline High	Adult: 200-239 Children:171-199	150-199		Adult: 130-159 Children: 111-129	160 - 189
High	Adult:>or=240 Children:>or=200	200-499	≥ 60	Adult:160-189 Children:>or=130	190 - 219
Very High	-----	>or=500		Adult: >or=190 -----	>=220

Note: LDL cholesterol cannot be calculated if triglyceride is >400 mg/dL (**Friedewald's formula**). Calculated values not provided for LDL and VLDL

Correlate Clinically.

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