

REPORT

Name	: Miss. AKHILA	Sample ID	: 24754117
Age/Gender	: 27 Years/Female	Reg. No	: 0312312130008
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 13-Dec-2023 10:21 AM
Primary Sample	: Whole Blood	Received On	: 13-Dec-2023 12:47 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 13-Dec-2023 01:37 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

HAEMATOLOGY

Test Name	Results	Units	Ref. Range	Method
Complete Blood Count (CBC)				
Haemoglobin (Hb)	12.8	g/dL	12-15	Cynmeth Method
RBC Count	4.64	10 ¹² /L	4.5-5.5	Cell Impedance
Total WBC Count	5.1	10 ⁹ /L	4.0-10.0	Impedance
Platelet Count (PLT)	194	10 ⁹ /L	150-410	Cell Impedance
Haematocrit (HCT)	39.4	%	40-50	Calculated
MCV	85	fl	81-101	Calculated
MCH	27.5	pg	27-32	Calculated
MCHC	32.4	g/dL	32.5-34.5	Calculated
RDW-CV	13.8	%	11.6-14.0	Calculated
Differential Count by Flowcytometry /Microscopy				
Neutrophils	48	%	40-70	Cell Impedance
Lymphocytes	40	%	20-40	Cell Impedance
Monocytes	08	%	2-10	Microscopy
Eosinophils	04	%	1-6	Microscopy
Basophils	0	%	1-2	Microscopy
Smear				
WBC	Within normal limits.			
RBC	Normocytic normochromic blood picture			
Platelets	Adequate			Microscopy

Result rechecked and verified for abnormal cases

*** End Of Report ***

Laboratory is NABL Accredited



*TESTS CONDUCTED @ CENTRAL LAB, HYDERABAD

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Swarnabala .M
DR.SWARNABALA
MD PATHOLOGY

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 13-Dec-2023 10:21 AM
Primary Sample	: Whole Blood	Received On	: 13-Dec-2023 12:47 PM
Sample Tested In	: Serum	Reported On	: 13-Dec-2023 01:38 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	6.63	$\mu\text{IU/mL}$	0.35-5.5	CLIA

Pregnancy & Cord Blood

TSH (Thyroid Stimulating Hormone ($\mu\text{IU/mL}$))	
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

*** End Of Report ***

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Dr. Vaishnavi
DR. VAISHNAVI
MD BIOCHEMISTRY

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Primary Sample	: Whole Blood	Received On	: 13-Dec-2023 12:47 PM
Sample Tested In	: Serum	Reported On	: 13-Dec-2023 02:24 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	154	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	55	mg/dL	< 150	GPO-POD
Cholesterol-HDL	48	mg/dL	40-60	Direct
Cholesterol-LDL	95	mg/dL	< 100	Calculated
Cholesterol- VLDL	11	mg/dL	7-35	Calculated
Non HDL Cholesterol	106	mg/dL	< 130	Calculated
Cholesterol Total /HDL Ratio	3.21	%	0-4.0	Calculated
HDL / LDL Ratio	0.51			
LDL/HDL Ratio	1.98	%	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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*** End Of Report ***



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