40181427385

KAMAL MALU

B-101-Aakash Ever Green Appt Vesu

Tel No: 9978043922 PID NO: P40180172696

Age: 53 Year(s) Sex: Male

Reference:

Sample Collected At: Home Service HOME SERVICE ,SURAT. VID: 40181427385

Registered On: 03/01/2019 10:52 AM Collected On: 03/01/2019 10:52AM Reported On: 03/01/2019 04:47 PM

<u>Investigation</u>	Observed Value	<u>Unit</u>	Biological Reference Interval
<u>Erythrocytes</u>			
Haemoglobin (Hb)	<u>11.3</u>	gm/dL	13.5-18
Erythrocyte (RBC) Count	5.79	mill/cu.mm	4.7-6.0
PCV (Packed Cell Volume)	<u>36.9</u>	%	42-52
MCV (Mean Corpuscular Volume)	<u>63.7</u>	fL	78-100
MCH (Mean Corpuscular Hb)	<u>19.5</u>	pg	27-31
MCHC (Mean Corpuscular Hb Concn.)	<u>30.6</u>	g/dL	32-36
RDW (Red Cell Distribution Width)	<u>15.4</u>	%	11.5-14.0
RBC Morphology			
Hypochromia	++		
Microcytosis	++		
Anisocytosis	+		
Others	Target cells (Few)		
<u>Leucocytes</u>			
Total Leucocytes (WBC) count	10,100	cells/cu.mm	4000-10500
Absolute Neutrophils Count	<u>7070</u>	/c.mm	2000-7000
Absolute Lymphocyte Count	1919	/c.mm	1000-3000
Absolute Monocyte Count	909	/c.mm	200-1000
Absolute Eosinophil Count	202	/c.mm	20-500
Absolute Basophil Count	0	/c.mm	20-100
Neutrophils	70	%	40-80
Lymphocytes	<u>19</u>	%	20-40
Monocytes	9	%	2.0-10
Eosinophils	2	%	1-6
Basophils	0	%	0-2
<u>Platelets</u>			
Platelet count	<u>553</u>	X 10^3/µl	150-450
MPV (Mean Platelet Volume)	7.2	fL	6-9.5
Pathologist Remark	Platelet increased on sr	near	
Malaria Parasite examination on thick Smear	Not Detected		Not Detected

EDTA Whole Blood - Tests done on Automated Five Part Cell Counter. (WBC, RBC, MCV & Platelet count by impedance method, Hb by Cyanmethemoglobin method by Spectrophometey, WBC differential by Microscopy & other parameters calculated) All Haemograms are reviewed & confirmed microscopically.



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ESR - Erythrocyte Sedimentation Rate 31

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Investigation

(EDTA Whole Blood)

Observed Value

Unit mm/hr **Biological Reference Interval**

0-15

Reference: Wallach Interpretation of Diagnostic

Tests, 9th Edition.

Method: Automated Westergren

Interpretation:

It indicates presence and intensity of an inflammatory process, never diagnostic of a specific disease. Changes are more significant than a single abnormal test.

- It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, bacterial endocarditis, acute rheumatic fever, rheumatoid arthritis, SLE, Hodgkins disease, temporal arteritis, polymyalgia rheumatica.
- It is also increased in pregnancy, multiple myeloma, menstruation, and hypothyroidism.



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Investigation Glucose fasting (Plasma-F,Hexokinase)	Observed Value 163	Unit mg/dL	Biological Reference Interval Normal: 70-100 Impaired Tolerance: 100-125 Diabetes mellitus: >= 126 (on more than one occassion) (American diabetes association guidelines 2018)
SGPT (ALT) (Serum,UV Absorbance)	18	U/L	< 41 Reference: Kit Insert
Creatinine (Serum, Jaffe)	0.85	mg/dL	0.70-1.2 Reference: Kit Insert.
Uric Acid (Serum,Uricase)	4.0	mg/dL	3.4-7.0 Reference: Kit Insert
Calcium (Serum,NM-BAPTA)	8.9	mg/dL	8.6-10 Reference: Kit Insert.
Vitamin B12 level (Serum,ECLIA)	<u>161.1</u>	pg/mL	197-771

Interpretation:

- 1. Vit B12 levels are decreased in megaloblastic anemia, partial/total gastrectomy, pernicious anemia, peripheral neuropathies, chronic alcoholism, senile dementia, and treated epilepsy.
- 2. An associated increase in homocysteine levels is an independent risk marker for cardiovascular disease and deep vein thrombosis.
- 3. HoloTranscobalamin II levels are a more accurate marker of active VitB12 component.



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Investigation
25 Hydroxy (OH) Vit D
(Serum,ECLIA)

Observed Value 5.56

Unit ng/mL **Biological Reference Interval**

Deficiency: < 10 Insufficiency: 10-30 Sufficiency: 30-100 Toxicity: > 100

Interpretation:

- 1. Vitamin D is a fat soluble vitamin and exists in two main forms as cholecalciferol(vitamin D3) which is synthesized in skin from 7-dehydrocholesterol in response to sunlight exposure & Ergocalciferol(vitamin D2) present mainly in dietary sources.Both cholecalciferol & Ergocalciferol are converted to 25(OH)vitamin D in liver.
- 2. Testing for 25(OH)vitamin D is recommended as it is the best indicator of vitamin D nutritional status as obtained from sunlight exposure & dietary intake. For diagnosis of vitamin D deficiency it is recommended to have clinical correlation with serum 25(OH)vitamin D, serum calcium, serum PTH & serum alkaline phosphatase.
- 3. During monitoring of oral vitamin D therapy- suggested testing of serum 25(OH)vitamin D is after 12 weeks or 3 mths of treatment. However, the required dosage of vitamin D supplements & time to achieve sufficient vitamin D levels show significant seasonal(especially winter) & individual variability depending on age, body fat, sun exposure, physical activity ,genetic factors(especially variable vitamin D receptor responses), associated liver or renal disease, malabsorption syndromes and calcium or magnesium deficiency influencing the vitamin D metabolism Vitamin D toxicity is known but very rare.kindly correlate clinically, repeat with fresh sample if indicated.



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µIU/mL

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Observed Value Investigation Unit Biological Reference Interval 2.93 0.45-4.5

TSH by ECLIA

(Serum, ECLIA)

Interpretation:

- TSH results between 4.5 to 15 show considerable physiologic & seasonal variation, suggest clinical correlation or repeat testing with fresh sample.
- TSH results between 0.1 to 0.45 require correlation with patient age & clinical symptoms. As with increasing age, there are marked changes in thyroid hormone production, metabolism & its actions resulting in an increased prevalence of subclinical
- 3. TSH values may be transiently altered because of non thyroidal illness like severe infections, liver disease, renal and heart failure, severe burns, trauma and surgery etc.
- 4. Drugs that decrease TSH values e.g:L-dopa, Glucocorticoid Drugs that increase TSH values e.g lodine, Lithium, Amiodarone.



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General Profile Plus - D (Maxi) HbA1C- Glycated Haemoglobin, blood by HPLC method

(EDTA Whole Blood)

<u>Investigation</u>	Observed Value	<u>Unit</u>	Biological Reference Interval
HbA1C- Glycated Haemoglobin (HPLC)	9.5	%	Non-diabetic: <= 5.6 Pre-diabetic: 5.7-6.4 Diabetic: >= 6.5 (American diabetes association guidelines 2018)
Estimated Average Glucose (eAG)	225.95	mg/dL	

Interpretation & Remark:

- HbA1c is used for monitoring diabetic control. It reflects the estimated average glucose (eAG).
- HbA1c has been endorsed by clinical groups & ADA (American Diabetes Association) guidelines 2017, for diagnosis of 2. diabetes using a cut-off point of 6.5%.
- 3. Trends in HbA1c are a better indicator of diabetic control than a solitary test.
- Low glycated haemoglobin(below 4%) in a non-diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia(especially severe iron deficiency & haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.
- To estimate the eAG from the HbA1C value, the following equation is used: eAG(mg/dl) = 28.7*A1c-46.7
- Interference of Haemoglobinopathies in HbA1c estimation.
 - A. For HbF > 25%, an alternate platform (Fructosamine) is recommended for testing of HbA1c.
 - B. Homozygous hemoglobinopathy is detected, fructosamine is recommended for monitoring diabetic status
 - C. Heterozygous state detected (D10/ turbo is corrected for HbS and HbC trait).
- 7. In known diabetic patients, following values can be considered as a tool for monitoring the glycemic control. Excellent Control - 6 to 7 %. Fair to Good Control - 7 to 8 %, Unsatisfactory Control - 8 to 10 % and Poor Control - More than 10 %.

Note: Hemoglobin electrophoresis (HPLC method) is recommended for detecting hemoglobinopathy.



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<u>Investigation</u>	Observed Value	<u>Unit</u>	Biological Reference Interval
<u>Lipid Profile-Mini</u> (Serum,Enzymatic)			
Cholesterol-Total	157	mg/dL	Desirable: < 200 Borderline High: 200-239 High: >= 240
Triglycerides level	89	mg/dL	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500 Reference: recomended NCEP Guidelines
HDL Cholesterol	<u>32.4</u>	mg/dL	Major risk factor for heart disease: < 40 Negative risk factor for heart disease: >= 60
Non HDL Cholesterol (Calculated)	124.60	mg/dL	Optimal: < 130 Desirable: 130-159 Borderline high: 159-189 High: 189-220 Very High: >= 220
LDL Cholesterol (Calculated)	<u>106.8</u>	mg/dL	Optimal: < 100 Near Optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190
VLDL Cholesterol (Calculated)	17.8	mg/dL	6-38
LDL/HDL RATIO	3.3	-	2.5-3.5
CHOL/HDL RATIO	4.85		3.5-5

Note: Reference Interval as per National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.

VLDL,CHOL/HDL RATIO,LDL/HDL RATIO,LDL Cholesterol,serum,Non HDL Colesterol are calculated parameters



Cast

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General Profile Plus - D (Maxi) Routine Examination Urine

Investigation	Observed Value	<u>Unit</u>	Biological Reference Interval
General Examination			
Colour	Pale Yellow		Pale Yellow
Transparency (Appearance)	<u>Sl.Turbid</u>		Clear
Reaction (pH)	7		4.5-8
Specific gravity	1.015		1.010-1.030
Chemical Examination			
Urine Glucose (sugar)	<u>Trace</u>		Absent
Bile pigments	Absent		Absent
Urine Protein (Albumin)	Present(++)		Absent
Urine Ketones (Acetone)	Absent		Absent
Microscopic Examination			
Pus cells (WBCs)	2-3	/hpf	0-5
Red blood cells	<u>10-15</u>	/hpf	Absent
Epithelial cells	Occasional	/hpf	0-4
Crystals	Absent		Absent

Urine examination by Microscopy and Automated Dipstick Method

Absent

-- End of Report --

Absent