



Patient Name	: MR. SHIRISH R KOWARKAR	Patient ID / Billing ID	: 27378 / 59143
Age / Sex	: 71 years / Male	Specimen Collected at	: DIRECT - OM
Ref. Doctor	: Dr. RAMESH SUBRAMANIAM	Sample Collected On	: 13/02/2024 12:33
Ref. Client Name	: DIRECT - OM	Billed On	: 13/02/2024 09:23
Sample ID	: O0021130224	Reported On	: 13/02/2024 13:07

ASPIRA TOTUS

HAEMATOLOGY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
<u>EXTENDED CBC HAEMOGRAM / ESR</u>				
Haemoglobin	15.9	g/dl	13-17	Photometry
<u>RED BLOOD CELLS</u>				
Erythrocytes (RBC)	5.50	10 ⁶ /μl	4.5-5.5	Optical
Hematocrit (HCT)	48.6	%	40-50	Calculated
MCV	88.3	fL	83-101	Measured
MCH	28.9	pg	27-32	Calculated
MCHC	32.7	g/dl	31.5-34.5	Calculated
RDW SD	12.9	%	11.6-14.0	Measured
<u>RBC MORPHOLOGY</u>				
Hyper	0.2	%	-	Light Scatter
Hypo	7.4	%	-	Light Scatter
Macro	0.3	%	-	Light Scatter
Micro	0.4	%	-	Light Scatter
<u>WHITE BLOOD CELLS</u>				
Total WBC Count	7690	/cu.m.m	4000-10000	Flowcytometry
<u>DIFFERENTIAL COUNT</u>				
Neutrophils	73.2	%	40-80	Peroxidase
Lymphocytes	11.5	%	20-40	Peroxidase
Eosinophils	4.1	%	1-6	Peroxidase
Monocytes	7.9	%	2-10	Peroxidase
Basophils	1.1	%	0-2	Peroxidase
Atypical Lymphocytes (LUC)	2.3	%	-	Peroxidase

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REPORT



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ABSOLUTE COUNT

Neutrophils	5629	/uL	2000-7000	Peroxidase
Lymphocytes	884	/uL	1000-3000	Peroxidase
Eosinophils	315	/uL	20-500	Peroxidase
Monocytes	607	/uL	200-1000	Peroxidase
Basophils	84	/uL	20-100	Peroxidase

PLATELETS

Platelet Count	295000	/cu.m.m	150000-410000	Optical
Mean Platelet Volume (MPV)	7.5	fL	-	Measured
PCT	0.22	%	-	Calculated
PDW	49.3	%	-	Calculated
Large Platelet	4000	/cu.m.m	-	Optical

Note:

- Immature Platelet Fraction (IPF) applicable in cases of Platelets less than 50,000 / cumm.
- Haemograms are reviewed and confirmed microscopically.

Interpretation:

Immature Platelet Fraction more than 10% indicates recovery of platelet count within 48 hours.

References: Dacie and Lewis Practical hematology, Eleventh Edition

Erythrocyte Sedimentation Rate (ESR)	02	mm/hr	< 15	Capillary Photometry
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Interpretation:

High ESR is not diagnostics of any disease but just indicative of some inflammatory process. ESR is to be used to monitor outcome of therapy. Microcytic anemia can increase ESR. High ESR can also be seen in apparently healthy adults.

Specimen Type : EDTA Whole Blood

****END OF REPORT****

Pankaj Shah
Dr. Pankaj Shah
M.D., D.P.B.

Dr. Mukta Naik
M.D. (Path)

Dr. Swati Patki
M.D. (Path), D.N.B. (Path)

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Sample ID	: O0022130224	Reported On	: 13/02/2024 13:58

ASPIRA TOTUS

BIOCHEMISTRY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
<u>GLUCOSE FASTING</u>				
Glucose Fasting (Plasma)	100	mg/dl	74 - 106	Hexokinase


Interpretation :

Fasting Blood Sugar more than 126 mg/dl on more than one occasion can indicate Diabetes Mellitus.

END OF REPORT

Dr. Mukta Naik
M.D. (Path)

Dr. Swati Patki
M.D. (Path), D.N.B. (Path)


Dr. Pankaj Shah
M.D., D.P.B.

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Sample ID	: O0023130224	Reported On	: 13/02/2024 13:59

ASPIRA TOTUS

BIOCHEMISTRY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
<u>BIOCHEMISTRY TOTUS</u>				
Creatinine	1.23	mg/dl	0.70 - 1.30	Alk. picrate IDMS
SGOT (AST)	16	U/L	15 - 37	UV - P5P
SGPT (ALT)	23	U/L	16 - 63	UV - P5P IFCC
Blood Urea Nitrogen BUN	8	mg/dl	7 - 18	Urease with GLDH
Blood Urea	17.12	mg/dl	15 - 38	Calculated
Uric Acid	4.7	mg/dL	3.5 - 7.2	Uricase-Colorimetric
Calcium Total	9.5	mg/dl	8.5 - 10.1	OCPC
Bilirubin Total	0.6	mg/dL	0.2 - 1.0	Jendrassik Grof
Bilirubin Direct	0.15	mg/dL	0.0 - 0.2	Diazotization
Bilirubin Indirect	0.45	mg/dL	0.2 - 0.8	Calculated

END OF REPORT

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M.D., D.P.B.

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M.D. (Path)

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ASPIRA TOTUS

BIOCHEMISTRY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
LIPID PROFILE				
Total Cholesterol	226	mg/dl	Desirable : < 200 Borderline High : 201 - 240 High : > 240	Cholesterol Oxidase Esterase Peroxidase
Triglycerides	386	mg/dl	Normal : < 150 Borderline High : 151 - 199 High : ≥ 200	Enzymatic , Endpoint
HDL Cholesterol	47	mg/dl	< 40 Low ≥ 60 High	Direct Measure PEG
Non HDL Cholesterol	179	mg/dl	Desirable : < 130 Boderline high : 130 - 159 High : ≥ 160	Calculated
LDL Cholesterol	111	mg/dl	Optimal : <100 Near / Above Optimal : 101 - 129 Borderline High : 130 - 159 High : ≥ 160	Calculated
VLDL Cholesterol	77.20	mg/dl	Below 30	Calculated
CHOL/HDL Ratio	4.81		Desirable/Low Risk : 3.3 - 4.4 Borderline/Middle Risk :4.5 - 7.1 Elevated/High Risk : 7.2 - 11.0	Calculated
Cholesterol LDL/HDL Ratio	2.36		Desirable/Low Risk : 0.5 - 3.0 Borderline/Middle Risk : 3.1 - 6.0 Elevated/High Risk : >6.1	Calculated

Specimen Type : Serum

Appearance of Serum : Clear

Remark:

Triglyceride level is >300 mg/dl hence LDL value is measured by Direct measure method & reported.

END OF REPORT

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M.D., D.P.B.

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ASPIRA TOTUS

IMMUNOLOGY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
THYROID PANEL 1, TOTAL				
Tri-iodothyronine (T3)	72.34	ng/dl	Adults Euthyroid :60 to 181 Hypothyroid :less than 60 Hyperthyroid :greater than 181	CLIA
Thyroxine (T4)	4.4	µg/dL	Hypothyroid 0.0- 5.5 Euthyroid 4.5 - 10.9 Hyperthyroid 10.8-19.1 Pregnant Euthyroid6.4- 10.7 Cord Blood (0 day) 7.4 - 13.0 Neonatal (1-4 days) 14.0 - 28.4 2-20 Weeks - 7.2 - 15.7	CLIA
TSH-Ultrasensitive	1.739	µIU/mL	0.55-4.78	CLIA

Specimen Type : Serum

Medical Remark : Kindly correlate clinically.

Interpretation :

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. Low TSH levels can be observed in conditions such as goiter, noncancerous tumors or Graves's disease and during the first trimester of pregnancy. High TSH can be observed in surgery, psychiatric medications, radiation therapy or an autoimmune disease.

Disclaimer:

1. TSH results may vary due to different instruments and methodology.
2. Results may vary due to reasons such as medication, with time of administration and time of blood collection.
3. There are minimal & transient variations in thyroid function indicators during the normal menstrual cycle & pregnancy.
4. Systemic disease states, referred to as nonthyroidal illnesses, are associated with a variety of alternations in thyroid hormone metabolism.
5. Acute trauma, including surgery, also is associated with alterations in thyroid function indicators.
6. Various medications interfere with results such as NSAIDS, Beta blockers, PPIs, Aspirin etc.

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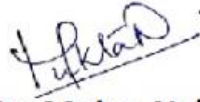
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M.D., D.P.B.

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M.D. (Path)

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ASPIRA TOTUS

IMMUNOLOGY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
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ASPIRA VITAE

Vitamin D Total-25 Hydroxy (Serum)	22.08	ng/mL	Deficiency : < 10 Insufficiency : 10–30 Sufficiency : 30–100 Toxicity : >100	CLIA
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Remark : Kindly correlate clinically.

Interpretation :

- 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 and Ergocalciferol (vitamin D2) present mainly in dietary sources. Both cholecalciferol are converted to 25 (OH)vitamin D in liver.
- Testing for 25 (OH) vitamin D is recommended as it is the best indicator of vitamin D nutritional status as obtained from sunlight exposure and 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 and serum alkaline phosphatase.
- During monitoring of oral vitamin D therapy-suggested testing of serum 25(OH) vitamin D is after 12 weeks or 6 months of treatment. However, the required dosage of vitamin D supplements and 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 response), 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. Vitamin D is essential for the formation and maintenance of strong, healthy bones.

Vitamin B12 Cyanocobalamin (Serum)	1024	pg/mL	211 - 911	CLIA
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Remark: Kindly correlate clinically.

Interpretation:

Decreased serum B12 level causes macrocytic anemia and pancytopenia. Vit. B12 levels are decreased in megaloblastic anemia, gastrectomy, peripheral neuropathies, chronic alcoholism and treated epilepsy. Dietary sources of vitamin B12 are meat, eggs, milk and milk products.

END OF REPORT

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M.D., D.P.B.

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M.D. (Path)

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ASPIRA TOTUS

HAEMATOLOGY REPORT

Test Name	Observed Value	Unit	Biological Reference Interval	Method
HBA1C GLYCATED HAEMOGLOBIN				
HbA1C (EDTA Whole Blood)	5.2	%	< 5.7 % : Normal * 5.7 % to 6.4% : Pre-diabetes 6.5 % or higher : Diabetes	HPLC
Estimated Blood Glucose (eBG)	102.54	mg/dl		Calculated

Interpretation :

- HbA1c is used for monitoring diabetic control. It reflects the estimated blood glucose (eBG) over three months.
- Trends in HbA1c are a better indicator of diabetic control than a solitary test.
- HbA1c Estimation can get affected in Anemia, Chronic renal failure.
- HbA1c is falsely low in diabetics with hemolytic disease. Fructosamine is recommended in these patients which indicates diabetics control over 15 days.

Remark :

Icterus / lipemic sample & HbF concentration more than 10% may interfere with the assay.
If Homozygous Hemoglobinopathy is detected ,fructoseamine is recommended for monitoring diabetic status.

Reference :

* <https://www.diabetes.org/a1c/diagnosis>

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M.D., D.P.B.

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