LAB REPORT

Name : MR. BALAKRISHNAIAH
Age / Gender : 57 years / Male
Sample ID : 3629
Source : MEDIWHEEL

Referral : Dr. MEDIWHEEL
Collection Time : Jul 27, 2024, 12:48 p.m.
Receiving Time : Jul 27, 2024, 02:16 p.m.
Reporting Time : Jul 27, 2024, 05:47 p.m.
Lab Code : 000720924

HEMATOLOGY

Test Description	Value(s)	Reference Range	
CBC - Complete Blood Count			
Hemoglobin (Hb)*	14.9	13 - 17	gm/dL
Method : Cynmeth Photometric Measurement			
Erythrocyte (RBC) Count*	4.87	4.7 - 6.0	mil/cu.mm
Method : Electrical Impedence			
Packed Cell Volume (PCV)*	43.9	42 - 52	%
Method : Calculated			
Mean Cell Volume (MCV)*	90.2	80-100	fL
Method : Electrical Impedence			
Mean Cell Haemoglobin (MCH)*	30.6	27 - 32	pg
Method : Calculated			
Mean Corpuscular Hb Concn. (MCHC)*	33.9	30-35	gm/dL
Method : Calculated			
Total Leucocytes (WBC) Count*	7000	4000-10000	cell/cu.mm
Method : Electrical Impedence			
Neutrophils*	58	40 - 75	%
Method : VCSn Technology			
Lymphocytes*	35	20 - 40	%
Method : VCSn Technology			
Monocytes*	6	2 - 10	%
Method : VCSn Technology			
Eosinophils*	1	1 - 6	%
Method : VCSn Technology			
Basophils*	0	0-1	%
Method : VCSn Technology			
Platelet Count*	1.98	1.50 - 4.50	lakhs/cumm
Method : Electrical Impedence			

Tests done on Automated Five Part Cell Counter. (WBC, RBC,Platelet count by impedance method, colorimetric method for Hemoglobin, WBC differential by flow cytometry using laser technology other parameters are calculated). All Abnormal Haemograms are reviewed confirmed microscopically.

END OF REPORT

Dr. Guruprasad
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Kmc 96510

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HEMATOLOGY

Test Description	Value(s)	Reference Range	
Erythrocyte Sedimentation Rate			
Erythrocyte Sedimentation Rate	15	<20	mm/hr

Method : EDTA Whole blood, modified westerngren

Interpretation:

It indicates presence and intensity of an inflammatory process. It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, acute rheumatic fever,. It is also increased in multiple myeloma, hypothyroidism.

END OF REPORT

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CLINICAL PATHOLOGY

Test Description	Value(s)	Reference Range
Fasting Urine Sugar		
.	NIL	-

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BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Glycosylated Haemoglobin (HbA1c)			
Glyco Hb (HbA1C) Method : EDTA Whole blood,HPLC	4.99	Non-Diabetic: <=5.6 Pre Diabetic:5.7-6.4 Diabetic: >=6.5	%
Estimated Average Glucose :	96.51		mg/dL

Interpretations

1. HbA1C has been endorsed by clinical groups and American Diabetes Association guidelines 2017 for diagnosing diabetes using a cut off point of 6.5%
2. Low glycated haemoglobin in a non diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (especially severe iron deficiency and haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.
3. In known diabetic patients, following values can be considered as a tool for monitoring the glycemic control.

   Excellent control-6-7 %
   Fair to Good control – 7-8 %
   Unsatisfactory control – 8 to 10 %
   Poor Control – More than 10 %

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IMMUNOLOGY

Test Description	Value(s)	Reference Range	
TFT - THYROID FUNCTION TEST			
T3 -Total **Method : (Serum,Clia)**	1.31	Newborn: 0.7-2.0 < 1 Year: 1.0-2.4 1 - 5 Years: 1.0-2.4 6 - 10 Years: 0.9-2.4 11 - 50 Years: 0.7-2.0 > 50 Years: 0.4-1.8 First Trimester: 0.8-1.9 Second Trimester: 1.0-2.6	ng/ml
T4-Total* Method : Serum,CLIA	7.20	Newborn: > 7.5 7 Days - 1 Year: 5.9-13.7 1 - 9 Years: 5.5-10.3 9 - 12 Years: 5.5-9.3 12 - 14 Years: 5.0-8.3 Male 15 - 60 Years: 4.6-10.5 > 60 Years: 5.0-10.7 Female 15 - 60 Years: 5.5-11.0	ug/dL
TSH-Ultrasensitive* **Method : (serum/CLIA)**	1.68	Newborn: < 20 4 Days - 6 Months: 0.7-4.8 6 Months - 4 Years: 0.7-4.2 5 - 20 Years: 0.5-3.4 21 - 54 Years: 0.4-4.2 55 - 87 Years: 0.5-8.9 First Trimester: 0.1-2.5 Second Trimester: 0.2-3.0	µIU/mL
Interpretation			

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BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
LIPID PROFILE			
Cholesterol-Total Method : Serum, Cholesterol oxidase esterase, peroxidase	175	Desirable: <= 200 Borderline High: 201-239 High: > 239 Ref: The National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.	mg/dL
Triglycerides Method : Serum, Enzymatic, endpoint	121	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500	mg/dL
Cholesterol-HDL Direct Method : Serum, Direct measure-PEG	58	Normal: > 40 Major Heart Risk: < 40	mg/dL
LDL Cholesterol Method : Serum	92.80	Optimal: < 100 Near optimal/above optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190	mg/dL
Non - HDL Cholesterol, Serum Method : calculated	117	Desirable: < 130 mg/dL Borderline High: 130-159mg/dL High: 160-189 mg/dL Very High: > or = 190 mg/dL	mg/dL
VLDL Cholesterol Method : calculated	24.20	6 - 38	mg/dL
CHOL/HDL RATIO Method : calculated	**3.02**	3.5 - 5.0	ratio
LDL/HDL RATIO Method : calculated	1.60	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio
HDL/LDL RATIO Method : calculated	0.63	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio

Note: 8-10 hours fasting sample is required.

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PATHOLOGY

Test Description	Value(s)	Reference Range	
Creatinine, Serum			
Creatinine Method : Serum, Jaffe	0.90	Children(1 yrs - 14 yrs) : 0.30 - 0.70 Adult Male : 0.72 - 1.25 Adult Female : 0.57 - 1.11	mg/dL

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HEMATOLOGY

Investigations	Result(s)
Blood Group & Rh Typing	
Blood Group Method : Forward and Reverse By Tube Method	"O"
RH Factor	Positive

Methodology

This is done by forward and reverse grouping by tube Agglutination method.

Interpretation

Newborn baby does not produce ABO antibodies until 3 to 6 months of age. So the blood group of the Newborn baby is done by ABO antigen grouping (forward grouping) only, antibody grouping (reverse grouping) is not required.Confirmation of the New-born's blood group is indicatedwhen the A and B antigen expression and the isoagglutinins are fully developed (2–4 years).

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CLINICAL PATHOLOGY

Test Description	Value(s)	Reference Range	
Urine Complete Analysis			
Volume*	20	-	ml
Colour*	Pale Yellow	Pale Yellow	
Transparency (Appearance)*	Clear	Clear	
Deposit*	Absent	Absent	
Reaction (pH)*	6.5	4.5 - 8	
Specific Gravity*	1.015	1.010 - 1.030	
Chemical Examination (Automated Dipstick Method) Urine			
Urine Glucose (sugar)*	Absent	Absent	
Urine Protein (Albumin)*	Absent	Absent	
Urine Ketones (Acetone)*	Absent	Absent	
Blood*	Absent	Absent	
Bile pigments*	Absent	Absent	
Nitrite*	Absent	Absent	
Urobilinogen*	Normal	Normal	
Microscopic Examination Urine			
Pus Cells (WBCs)*	1-2	0 - 5	/hpf
Epithelial Cells*	2-3	0 - 4	/hpf
Red blood Cells*	Absent	Absent	/hpf
Crystals*	Absent	Absent	
Cast*	Absent	Absent	
Trichomonas Vaginalis*	Absent	Absent	
Yeast Cells*	Absent	Absent	
Amorphous deposits*	Absent	Absent	
Bacteria*	Absent	Absent	

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BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Fasting Glucose- FBS			
Glucose fasting Method : Fluoride Plasma-F, Hexokinase	94.67	Normal: 70 - 99 Impaired Tolerance: 100-125 Diabetes mellitus: >= 126 (on more than one occassion) (American diabetes association guidelines 2018)	mg/dL

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CLINICAL BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Glucose - Post Prandial(PP)			
Blood Glucose-Post Prandial*	109.19	70-140	mg/dL
Method : Plasma - P, Hexokinase			

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CLINICAL BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Urea - Serum			
Urea*	27.9	17 - 43	mg/dL
Method : Urease			

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CLINICAL BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Blood Urea Nitrogen (BUN)			
UREA*	27.9	17 - 43	mg/dL
Method : Serum,Urease			
BUN*	13.04	Children 1-14yrs: 5.1- 16.8, 14-19yrs: 8.4-21, Adult Male < 50yrs : 8.9-20.6, > 50yrs: 8.4-25.7, Adult Female < 50yrs: 7.0-18.7, > 50yrs: 9.8- 20.1	mg/dL
Method : Serum,Calculated			

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CLINICAL BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
Uric Acid - Serum			
Uric Acid*	6.2	3.5 - 7.2	mg/dL
Method : Uricase, POD			

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BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
LFT - LIVER FUNCTION TEST			
Bilirubin - Total	0.40	0.3 - 1.2	mg/dL
Method : Serum, Jendrassik Grof			
Bilirubin - Direct	0.32	0.0 - 0.5	mg/dL
Method : Serum, Diazotization			
Bilirubin - Indirect	**0.08**	0.1 - 1.0	mg/dL
Method : Serum, Calculated			
SGOT	20.9	<55	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
SGPT	14.1	<55	U/L
Method : Serum, UV with P5P, IFCC 37 degree			
SGOT/SGPT	1.4	0.7 - 1.4	ratio
Method : calculated			
GGT-Gamma Glutamyl Transpeptidae	35.80	< 55	U/L
Method : Serum, G-glutamyl-carboxy-nitoanilide			
Alkaline Phosphatase-ALPI	107	30-120	U/L
Method : Serum, PNPP, AMP Buffer, IFCC 37 degree			
Total Protein	6.74	6.4 - 8.3	g/dL
Method : Serum, Biuret, reagent blank end point			
Albumin	4.36	3.5 - 5.2	g/dL
Method : Serum, Bromcresol purple			
Globulin	2.38	2.3 - 3.5	g/dL
Method : Calculated			
A/G Ratio	1.8	1.0 - 1.8	ratio
Method : Calculated			

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CLINICAL BIOCHEMISTRY

Test Description	Value(s)	Reference Range	
PSA - Prostate Specific Antigen(Total)			
PSA	0.33	0-4	ng/ml
Method : CLIA			

Interpretation:
Increased levels are noted in prostate cancer, benign prostatic hypertrophy, prostatitis

END OF REPORT

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