

LABORATORY REPORT

Patient Name : Mr. MARTHINUS DANIEL JACOBS
Age / DOB : 39 Y 9 M / 22/12/1984
Gender : Male
Referred By : WALKIN
Referral Client :
Patient ID : MR001215

EID/Passport No :
Client Reference :
Registered Date & Time : 24-09-2024 11:20
Collection Date & Time : 24-09-2024 11:20
Reporting Date & Time : 24-09-2024 15:38
External Patient ID :

HEMATOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
COMPLETE BLOOD COUNT (CBC)				
Specimen : EDTA Whole Blood				
HEMOGLOBIN	Spectrophotometry (Oxyhemoglobin)	14.9	g/dL	13.5 - 17.5
RBC COUNT	Electrical Impedance	4.9	10 ⁶ /uL	4.5 - 6
HEMATOCRIT	Calculated	44.1	%	42 - 52
MCV	RBC HISTOGRAM	89.9	fL	78 - 100
MCH	Calculation	30.4	pg	27 - 31
MCHC	Calculation	33.8	g/dL	30 - 36
RDW	Calculation	12.7	%	11.5 - 14
RDW-SD	Calculation	45.2	fL	38.5 - 49
MPV	Calculation	9.1	fL	8 - 12
PLATELET COUNT	Electrical Impedance	203	10 ³ /uL	150 - 400
WBC COUNT	Electrical Impedance	7.7	10 ³ /μL	4 - 11
DIFFERENTIAL COUNT (DC)				
NEUTROPHILS	Flow Cytometry	48.2	L %	50 - 70
LYMPHOCYTES	Flow Cytometry	42.4	H %	20 - 40
MONOCYTES	Flow Cytometry	6.9	%	3 - 13
EOSINOPHILS	Flow Cytometry	1.8	%	1 - 3
BASOPHILS	Flow Cytometry	0.7	%	0 - 2
NEUTROPHILS - Absolute Count	Calculation	3.7	10 ³ /μL	2 - 7.5
LYMPHOCYTES - Absolute Count	Calculation	3.26	10 ³ /μL	1.5 - 4.5
EOSINOPHILS - Absolute Count	Calculation	0.14	10 ³ /μL	0 - 0.4
MONOCYTES - Absolute Count	Calculation	0.53	10 ³ /μL	0.2 - 1
BASOPHILS - Absolute Count	Calculation	0.05	10 ³ /μL	0 - 0.5



Analyzed by :

GOIKA

Medical Laboratory Technologist

DHA NO:08592134002




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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
GLYCATED HEMOGLOBIN (HbA1C) ^				
HBA1C	HPLC	5.4	%	<5.7 non-diabetic 5.7-6.4 Pre-Diabetic >6.4 Diabetic
eAG (estimated Average Glucose)	Calculation	108.28	mg/dL	normal: < 114 pre-diabetic: 114 - 140 Diabetic: >140

Specimen : EDTA Whole Blood

END OF REPORT



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
GLUCOSE (FASTING)	two-point rate	106	mg/dL	74 - 110

Specimen : Fluoride Plasma

END OF REPORT



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
IRON	Colorimetric without	64 ppt (Ferene)	ug/dL	59-158

INTERPRETATION NOTES :

CLINICAL IMPLICATIONS:

1.The combined results of iron,transferrin,and TIBC are helpful in the differential diagnosis of anaemia,in assessment of iron deficiency anaemia and in the evaluation of thalassemia,sideroblastic anaemia asnd haemochromatosis.

2.Transferin saturation is a better index of iron saturation.Percent saturation is a better index of iron stores than serum alone.Saturation than 9.0g/dl or >90g/L.

RECOMMENDATION: In patients receiving folate or Vitamin B12 recommended to repeat iron studies after 1 to 3 months of completion of treatment.



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
BIOCHECK RENAL PROFILE				
Specimen : Serum				
BLOOD UREA NITROGEN (SERUM)	Urease(colour/UV)	15	mg/dL	9 - 20
CREATININE (SERUM)	Jaffe Method	0.69	mg/dL	0.66 - 1.25
UREA (SERUM)	Kinetic test,Urease	32	mg/dL	16.6 - 48.5
URIC ACID (SERUM)	Enzymatic Colorimetric	9.3	H mg/dL	3.5 - 8.5
BUN/CREATININE RATIO	Calculation	21.74	H NULL	Prerenal: > 20:1 Normal or Postrenal: 10 -20:1 Intrarenal: < 10:1



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
LIPID PROFILE TEST				
Specimen : Serum				
CHOLESTEROL (TOTAL)	Enzymatic COD/POD	248	H mg/dl	high: 200 - 499 mg/dl normal: <200 mg/dl abnormal high: 200 - 239 mg/dl
HDL CHOLESTEROL	Direct measurment,PTA/M gcl2	30	L mg/dl	40 - 60
LDL CHOLESTEROL DIRECT	Direct detergent	103	mg/dl	100 - 129
VLDL CHOLESTEROL	Calculation	115	H mg/dL	0 - 40
NON-HDL CHOLESTEROL	Calculation	218	H mg/dL	< 140
TRIGLYCERIDES	Enzymatic, end point	575	CH mg/dl	normal: <150 mg/dl borderline high: 150 - 199 mg/dl High : 200-499 Very High : > 500
TOTAL CHOLESTEROL / HDL RATIO	Calculation	8.3	H --	0 - 5
LDL / HDL RATIO	Calculation	3.4	--	< 3.5



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
LIVER FUNCTION TEST				
Specimen : Serum				
ALT / SGPT	ALTv	31	U/L	21 - 72
AST / SGOT	Enzymatic Colorimetric	29	U/L	17 - 59
ALP (ALKALINE PHOSPHATASE)	AMP optimised to IFCC 37°C	57	U/L	38 - 126
GGT (GAMMA GLUTAMYL TRANSFERASE)	Vitrous Microslide	46	U/L	15 - 73
BILIRUBIN (TOTAL)	Slide Method	0.5	mg/dL	0.2 - 1.3
BILIRUBIN (DIRECT)	Vitrous Microslide	0.1	mg/dL	0.00 - 0.4
INDIRECT BILIRUBIN	Direct Measure	0.40	mg/dL	0.1 - 0.80
TOTAL PROTEIN	Biuret	6.9	g/dL	6.3 - 8.2
ALBUMIN (SERUM)	Bromocresol Green	4.4	g/dL	3.5 - 5.0
GLOBULIN	Calculation	2.5	g/dL	2.5 - 3.5
A/G RATIO	Calculation	1.8		0.8 - 2.0



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BIOCHEMISTRY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
ELECTROLYTES (Na,K,Cl)				
Specimen : Serum				
SODIUM (NA)	potentiometric (direct)	138	mmol/L	135 - 145
POTASSIUM (K)	potentiometric (direct)	4.2	mmol/L	3.5 - 5.5
CHLORIDE (CL)	potentiometric (direct)	108	mmol/L	98 - 108

INTERPRETATION NOTES :

CLINICAL IMPLICATIONS:

- 1.Sodium levels detect changes in water balance rather than sodium balance and sodium levels are used to determine electrolytes, acid base balance, water balance, water intoxication, and dehydration.
- 2.Potassium, electrolytes of intracellular fluid are important to diagnose acid-base and water imbalance and the value varies with circulatory volume.
- 3.Chloride, blood electrolytes are helpful in diagnosing disorders of acid base, water balance and has reciprocal rise (or) fall in response to concentration of other anions

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IMMUNOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
VITAMIN D, 25-OH (TOTAL)	ECLIA	17	L ng/mL	Deficient : ≤ 20 insufficient: 21-29 Sufficient: ≥ 30 Toxicity : >80

INTERPRETATION NOTES :

Vit D (25 – OH) is the sum of Vit D2 (25 – OH) and Vit D3 (25 – OH). In normal persons not taking external supplements - Vit D3 comprises approximately 90 % of the total.

25 hydroxy (25–OH) vitamin D3 or calcidiol is the storage form of vitamin D3. Deficiency is associated with osteoporosis, multiple sclerosis, and rheumatoid arthritis, and mood disorders. Both Vitamin D2 and Vitamin D3 are converted to 25–OH vitamin D3 in the liver. 25 hydroxy vitamin D3 circulates to the kidney where it is converted to 1, 25 hydroxy vitamins D3 or calcitriol, the functional form of the vitamin.

Calcitriol is vital to calcium regulation and low serum calcium causes release of parathormone which converts 25–OH vitamin D3 to 1, 25 –OH vitamin D3 which then triggers osteolysis releasing calcium into the bloodstream.

Specimen : Serum

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IMMUNOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
VITAMIN B12	ECLIA	391	pg/mL	192 - 827

INTERPRETATION NOTES :

Increase B12 level is seen in Liver disease (such as cirrhosis or hepatitis), Myeloproliferative disorders (for example, polycythemia vera and chronic myelogenous leukemia).
 Decreased B12 level is seen in diseases that cause malabsorption (for example, celiac disease and Crohn disease),
 Lack of intrinsic factor, a protein that helps the intestine absorb vitamin B12, hyperthyroidism, pregnancy.

Specimen : Serum

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ENDOCRINOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
THYROID FUNCTION TEST (FT3+FT4+TSH)				
Specimen : Serum				
TRIIODOTHYRONINE, FREE (FT3)	ECLIA	3.4	ng/dL	2 - 4.2
THYROXINE, FREE (FT4)	ECLIA	1.4	ng/dL	0.9 - 1.75
THYROID STIMULATING HORMONE (TSH)	ECLIA	1.4	uIU/mL	0.3 - 4.5

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CLINICAL PATHOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
URINE ANALYSIS (ROUTINE)				
MACROSCOPIC EXAMINATION				
COLOR	Visual	PALE YELLOW		Pale to Dark Yellow
APPEARANCE	Visual	Clear		-
CHEMISTRY EXAMINATION				
SPECIFIC GRAVITY	pKa Change	1.020		1.002 - 1.035
PH	Double indicator system	6.0		4.5 - 8.0
GLUCOSE	GOD / POD	Nil		Nil
PROTEIN	Protein error of pH indicator	Nil		Nil
NITRITE	1 Naphthyl ethylenediamine	Nil		Nil
UROBILINOGEN	Azo-Coupling Reaction	Nil		Nil
BILIRUBIN	Azo-Coupling Reaction	Nil		Nil
KETONE	Nitroprusside	Nil		Nil
BLOOD	Peroxidase	Nil		Nil
LEUKOCYTE ESTERASE	pyrazole amino acid ester	Nil		Trace
MICROSCOPIC EXAMINATION				
PUS CELLS	Microscopy	0-2		0 - 2
RBC	Microscopy	Nil		0 - 2
EPITHELIAL CELLS	Microscopy	Occasional		Nil/Occasional
BACTERIA	Microscopy	Occasional		Nil/Occasional
MUCUS	Microscopy	Nil		
CASTS	Microscopy	Nil		Nil
CRYSTALS	Microscopy	Nil		Nil
YEAST	Microscopy	Nil		Nil



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CLINICAL PATHOLOGY

Test Description	Methodology	Result	SI Units	Ref. Range
GENERAL WELLNESS CHECKUP (77)				
AMORPHOUS SEDIMENTS	Microscopy	Nil		
OTHERS	Microscopy	Nil		Nil

Specimen : URINE

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