

Laboratory Investigation Report



BML282607

Name	: Ms. JOHARI DONDAPATI	Ref No.	: 41133
DOB	: 26/04/1973	Sample No.	: 2310286160
Age / Gender	: 50 Y 5 M / Female	Collected	: 11/10/2023 11:00
Referred by	: DR RASHMI	Registered	: 11/10/2023 13:38
Centre	: Peshawar Medical Center LLC	Reported	: 11/10/2023 15:25

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
URIC ACID (SERUM)	4.0		mg/dL	2.6 - 6.0	Uricase, UV
CREATININE (SERUM)	0.62		mg/dL	0.59 - 1.04	Alkaline picrate (IFCC standardised)

Interpretation Notes :

Please note update in reference range with effect from 31/10/2020 (Source: Mayo Clinical Laboratories).

UREA (SERUM)	18		mg/dL	14.98 - 38.52	Kinetic test with urease and glutamate
SODIUM (NA)	137		mmol/L	136 - 145	ISE (Indirect)

Interpretation Notes :

Hypernatremia will be seen in dehydration, Cushing syndrome, central or nephrogenic diabetes insipidus with insufficient fluids, primary aldosteronism, lactic acidosis, azotemia, weight loss, nonketotic hyperosmolar coma.
Hyponatremia occurs with nephrotic syndrome, cachexia, hypoproteinemia, intravenous glucose infusion, in congestive heart failure and other clinical entities. Serum sodium is a predictor of cardiovascular mortality in patients in severe congestive heart failure. Addison disease, hypopituitarism, cirrhosis, hypertriglyceridemia and psychogenic polydipsia.

Sample Type : Serum

End of Report

Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

Dr. Vyoma V Shah
M.D (Pathology)
Clinical Pathologist

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SAGAR MURUKESAN PILLAI MOLY
Laboratory Technologist
Printed on: 13/10/2023 18:47

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
GLYCATED HEMOGLOBIN (HbA1C) ^					
HbA1C	5.4		%	Non- diabetic: 4.0 - 5.6 Prediabetes (Increased risk): 5.7 - 6.4 Diabetes: = or > 6.5	Capillary electrophoresis
eAG (estimated Average Glucose)	108		mg/dL	-	Calculation

Interpretation Notes :

HbA1c Therapeutic goals for glycemic control (ADA)

Adults:

- Goal of therapy: < 7.0 %
- Action suggested: > 8.0 %

Pediatric patients:

- Toddlers and preschoolers: < 8.5 % (but > 7.5 %)
- School age (6-12 years): < 8.0 %
- Adolescents and young adults (13-19 years): < 7.5 %

Sample Type : EDTA Whole Blood

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Pathologist

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Christeena

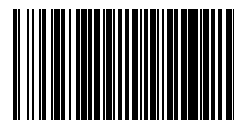
CHRISTEENA FRANCIS
Laboratory Technologist

Printed on: 13/10/2023 18:47

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
LIPID PROFILE TEST					
CHOLESTEROL (TOTAL)	230	H	mg/dl	Desirable: < 200 Borderline High: 200 - 240 High: > 240	Enzymatic colorimetric assay
HDL CHOLESTEROL	65	H	mg/dl	40 - 60	Homogeneous enzymatic colorimetric assay
LDL CHOLESTEROL DIRECT	142	H	mg/dl	Optimal: < 100 Near/Above Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: > 190	Homogeneous enzymatic colorimetric assay
VLDL CHOLESTEROL	16		mg/dL	< 30	Calculation
NON-HDL CHOLESTEROL	158	H	mg/dL	< 140	Calculation
TRIGLYCERIDES	80		mg/dl	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: > 500	Enzymatic colorimetric assay
TOTAL CHOLESTEROL / HDL RATIO	3.5	--	--	< 4.5	Calculation
LDL / HDL RATIO	2.2	--	--	< 3.5	Calculation

Sample Type : Serum

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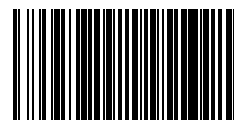
BHAVYA THENDANKANDY
Biochemistry Technologist

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CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
URINE ANALYSIS (ROUTINE)					
MACROSCOPIC EXAMINATION					
COLOR	LIGHT YELLOW			Pale to Dark Yellow	Visual
APPEARANCE	CLEAR			-	Visual
CHEMISTRY EXAMINATION					
SPECIFIC GRAVITY	1.010			1.002 - 1.035	Bromothymol blue
PH	7.5			4.5 - 8.0	Litmus paper
GLUCOSE	NEGATIVE			Negative	GOD / POD
BLOOD	NEGATIVE			Negative	Peroxidase
PROTEIN	NEGATIVE			Negative	Protein error of pH indicator
LEUKOCYTE ESTERASE	NEGATIVE			Negative	Esterase
UROBILINOGEN	0.2		E.U./dL	0.2 - 1.0	Diazo
BILIRUBIN	NEGATIVE			Negative	Diazo
KETONE	NEGATIVE			Negative	Legal's test
NITRITE	NEGATIVE			Negative	Griess test
MICROSCOPIC EXAMINATION					
LEUCOCYTES	0 - 1		/HPF	1 - 4	Microscopy
ERYTHROCYTES	0 - 1		/HPF	0 - 2	Microscopy
EPITHELIAL CELLS	0 - 1		/HPF	Variable	Microscopy
BACTERIA	ABSENT		/HPF	Absent	Microscopy
CASTS	ABSENT		/HPF	Absent	Microscopy
CRYSTALS	ABSENT		/HPF	Absent	Microscopy
OVA	ABSENT		/HPF	Absent	Microscopy and Micrometry

Interpretation Notes :

Instrumentation used for Chemistry test: Siemens Clinitek Advantus.

Sample Type : URINE

End of Report

Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

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MUBASHER ZAHOOR
Laboratory Technologist

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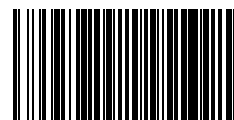
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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	12.6		g/dL	12 - 15.5	Spectrophotometry (Oxyhemoglobin)
RBC COUNT	4.6		10 ⁶ /μL	3.9 - 5	Electrical Impedance
HEMATOCRIT	37.6		%	35 - 45	Calculation
MCV	81.4	L	fL	82 - 98	Calculation
MCH	27.3		pg	27 - 32	Calculation
MCHC	33.6		g/dL	32 - 37	Calculation
RDW	13.1		%	11.9 - 15.5	Calculation
RDW-SD	38.1		fL		Calculation
MPV	9.3		fL	7.6 - 10.8	Calculation
PLATELET COUNT	271		10 ³ /μL	150 - 450	Electrical Impedance
PCT	0.3		%	0.01 - 9.99	Calculation
PDW	16.2		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC) [^]	0.1		/100 WBC		Flow Cytometry
ABSOLUTE NRBC COUNT [^]	0.01		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC) [^]	0.3		%		Flow Cytometry
ABSOLUTE EGC [^]	0		10 ³ /uL		Calculation
WBC COUNT	8.9		10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	52		%	40 - 75	Flow Cytometry
LYMPHOCYTES	40		%	30 - 60	Flow Cytometry
EOSINOPHILS	2		%	0 - 6	Flow Cytometry
MONOCYTES	5		%	1 - 6	Flow Cytometry
BASOPHILS	1		%	0 - 1	Flow Cytometry
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	4.7		10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	3.6		10 ³ /uL	1.2 - 6.6	Calculation
ABSOLUTE MONOCYTE COUNT	0.4		10 ³ /uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.1		10 ³ /uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.1		10 ³ /uL	0 - 0.11	Calculation

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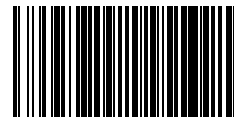
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CHRISTEENA FRANCIS
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HEMATOLOGY

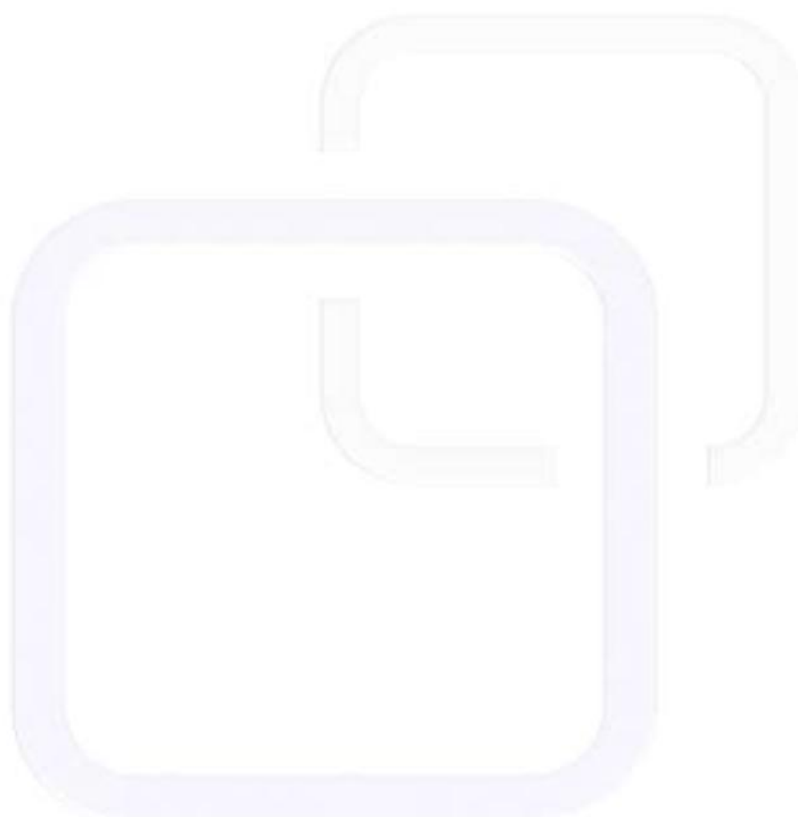
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COMPLETE BLOOD COUNT (CBC)

Interpretation Notes : Please note update on CBC report format and changes in reference ranges.

Sample Type : EDTA Whole Blood

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