



BML519909

Laboratory Investigation Report

Name	: Mr. AZAD HOSSAIN PATWARY	Ref No.	: 40616
DOB	: 27/04/1987	Sample No.	: 2502532599
Age / Gender	: 37 Y / Male	Collected	: 31/01/2025 18:00
Referred by	: DR. HUMAIRA MUMTAZ	Registered	: 01/02/2025 09:54
Centre	: CITICARE MEDICAL CENTER	Reported	: 01/02/2025 15:35

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
CREATININE (SERUM)	8.97	CH	mg/dL	0.74 - 1.35	Kinetic colorimetric assay based on Jaffe method

Comments : Rechecked. Please correlate clinically.

INTERPRETATION NOTES :

1. Creatinine measurements are used as an aid in diagnosis and monitoring of renal disorders, Chronic Kidney disease (CKD) and in monitoring of renal dialysis and also used for the calculation of the fractional excretion of other urine analytes (e. g., albumin, α -amylase).
2. Creatinine is a break-down product of creatine phosphate in muscle, and is produced at a fairly constant rate by the body (depending on muscle mass). It is freely filtered by the glomeruli and, under normal conditions, is not reabsorbed by the tubules to any appreciable extent. A small but significant amount is also actively secreted. Its concentration is thus, inversely related to glomerular filtration rate (GFR).
3. Physiological factors affecting serum creatinine concentration include age, gender, race, muscularity, exercise, pregnancy, certain drugs, diet, dehydration and nutritional status.
4. Low serum Creatinine levels is seen in cases of low muscle mass like muscular atrophy, or aging.
5. High serum creatinine levels is seen in Acute and Chronic kidney disease, obstruction.
6. Since a rise in blood creatinine is observed only with marked damage of the nephrons, it is not suited to detect early stage kidney disease.

UREA (SERUM)	197	CH	mg/dL	12.86 - 42.86 Please note change. Source: Roche IFU	Kinetic test with urease and glutamate dehydrogenase
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Comments : Rechecked. Please correlate clinically.

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

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

Greeshma P Sidharthan
Greeshma P Sidharthan

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
LIPID PROFILE TEST					
CHOLESTEROL (TOTAL)	173		mg/dl	Desirable: < 200 Borderline High: 200 - 239 High: = 240 Please note change. Source: Roche IFU.	Enzymatic colorimetric assay
HDL CHOLESTEROL	44		mg/dl	40 - 60 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
LDL CHOLESTEROL DIRECT	116		mg/dl	Optimal: < 100 Near/Above Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: = 190 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
VLDL CHOLESTEROL	19		mg/dL	< 30	Calculation
NON-HDL CHOLESTEROL	135		mg/dL	< 140	Calculation
TRIGLYCERIDES	96		mg/dl	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: > 500 Source: Roche IFU.	Enzymatic colorimetric assay
TOTAL CHOLESTEROL / HDL RATIO	3.9			< 4.5	Calculation
LDL / HDL RATIO	2.6			< 3.5	Calculation

Sample Type : Serum

End of Report

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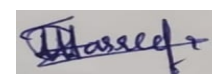
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CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
URINE ANALYSIS (ROUTINE)					
COLOR	Pale Yellow			Pale to Dark Yellow	Photometry
APPEARANCE	Clear			-	Turbidimetry
CHEMISTRY EXAMINATION					
SPECIFIC GRAVITY	1.010			1.002 - 1.035	Refractometry
PH	5.0			5 - 9	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	Negative			Negative	Diazonium Salt
BILIRUBIN	Negative			Negative	Diazonium Salt
KETONE	Negative			Negative	Legal's test
NITRITE	Negative			Negative	Griess test
MICROSCOPIC EXAMINATION					
LEUCOCYTES	1-4		/HPF	1 - 4	Microscopy
ERYTHROCYTES	0-2		/HPF	0 - 2	Microscopy
SQUAMOUS EPITHELIAL CELLS	0-1		/HPF	< 20	Microscopy
NON-SQUAMOUS EPITHELIAL CELLS	-		/HPF	Variable	Microscopy
BACTERIA	-		/HPF	Absent	Microscopy
CASTS	-		/HPF	Absent	Microscopy
HYALINE CAST	-		/HPF	Absent	Microscopy
FINE GRANULAR CAST	-		/HPF	Absent	Microscopy
COARSE GRANULAR CAST	-		/HPF	Absent	Microscopy
WAXY CAST	-		/HPF	Absent	Microscopy
FATTY CAST	-		/HPF	Absent	Microscopy
RBC CAST	-		/HPF	Absent	Microscopy
WBC CAST	-		/HPF	Absent	Microscopy
BACTERIAL CAST	-		/HPF	Absent	Microscopy
EPITHELIAL CAST	-		/HPF	Absent	Microscopy
CRYSTALS	-		/HPF	Absent	Microscopy

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



Thasreef Raihana

Medical Microbiology Technologist

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CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
CALCIUM OXALATE	-		/HPF	Absent	Microscopy
CALCIUM CARBONATE	-		/HPF	Absent	Microscopy
CALCIUM PHOSPHATE	-		/HPF	Absent	Microscopy
TRIPLE PHOSPHATE	-		/HPF	Absent	Microscopy
URIC ACID CRYSTAL	-		/HPF	Absent	Microscopy
AMMONIUM BIURATE	-		/HPF	Absent	Microscopy
AMORPHOUS URATES	-		/HPF	Absent	Microscopy
AMORPHOUS PHOSPHATES	-		/HPF	Absent	Microscopy
CYSTINE	-		/HPF	Absent	Microscopy
LEUCINE	-		/HPF	Absent	Microscopy
TYROSINE	-		/HPF	Absent	Microscopy
DRUG CRYSTAL	-		/HPF	Absent	Microscopy
MUCUS THREADS	-		/HPF	Absent	Microscopy
BUDDING YEAST CELLS	-		/HPF	Absent	Microscopy
HYPHAE	-		/HPF	Absent	Microscopy
OVA	-		/HPF	Absent	Microscopy
CYST	-		/HPF	Absent	Microscopy
PARASITE	-		/HPF	Absent	Microscopy
ARTIFACTS	-		/HPF	Absent	Microscopy

INTERPRETATION NOTES :

Please note change in method (Roche Cobas U6500).

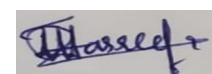
Note: "-" means Absent

Sample Type : URINE

End of Report

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Pathologist

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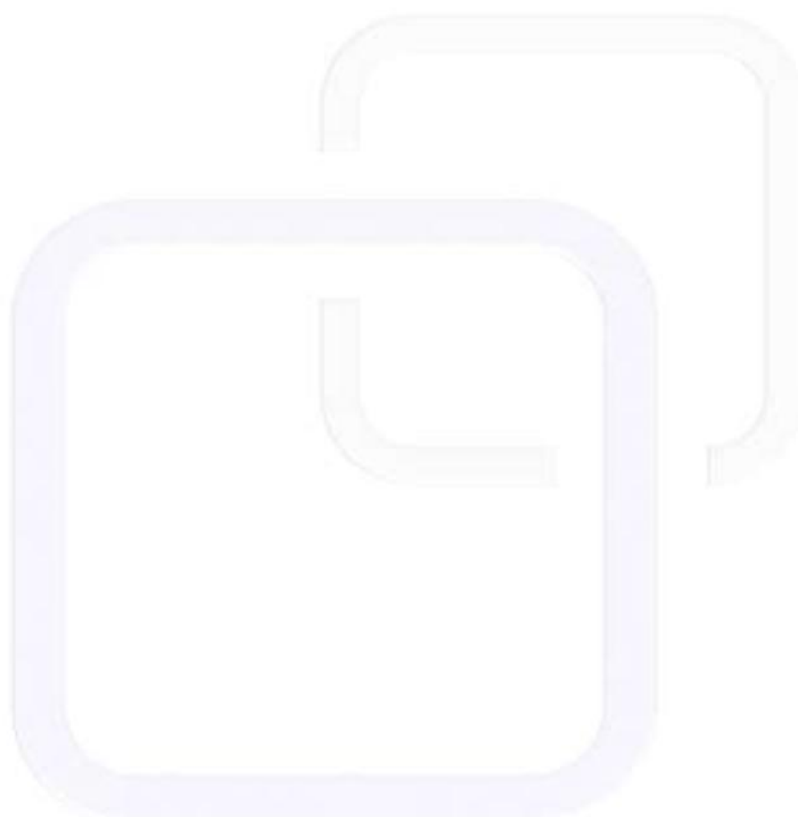
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CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
HELICOBACTER PYLORI ANTIGEN (STOOL)	Negative			Negative	Immunochromatography

Sample Type : Stool

End of Report



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M.D (Pathology)
Pathologist

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

Thasreef Raihana

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	11.8	L	g/dL	13.5 - 17.5	Photometric
RBC COUNT	4.2	L	10 ⁶ /μL	4.3 - 5.7	Electrical Impedance
HEMATOCRIT	34.1	L	%	38 - 50	Calculation
MCV	80.9	L	fL	82 - 98	Calculation
MCH	27.8		pg	27 - 32	Calculation
MCHC	34.4		g/dL	32 - 37	Calculation
RDW	14.1		%	11.8 - 15.6	Calculation
RDW-SD	39.8		fL		Calculation
MPV	8.2		fL	7.6 - 10.8	Calculation
PLATELET COUNT	218		10 ³ /uL	150 - 450	Electrical Impedance
PCT	0.2		%	0.01 - 9.99	Calculation
PDW	17.1		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC)^	0.0		/100 WBC		VCS 360 Technology
ABSOLUTE NRBC COUNT^	0.01		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC)^	0.2		%		VCS 360 Technology
ABSOLUTE EGC^	0.0		10 ³ /uL		Calculation
WBC COUNT	15.3	H	10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	78	H	%	40 - 75	VCS 360 Technology
LYMPHOCYTES	16	L	%	20 - 45	VCS 360 Technology
EOSINOPHILS	2		%	0 - 6	VCS 360 Technology
MONOCYTES	4		%	1 - 6	VCS 360 Technology
BASOPHILS	0		%	0 - 1	VCS 360 Technology
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	11.9	H	10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	2.4		10 ³ /uL	0.8 - 4.95	Calculation
ABSOLUTE MONOCYTE COUNT	0.7	H	10 ³ /uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.2		10 ³ /uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.0		10 ³ /uL	0 - 0.11	Calculation

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Eloisa May Delmo
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Laboratory Technologist

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
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COMPLETE BLOOD COUNT (CBC)

INTERPRETATION NOTES :

Please note update on CBC report format, reference ranges and method(Beckman Coulter).

Sample Type : EDTA Whole Blood

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M.D (Pathology)
Pathologist

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ELOISA MAY DELMO
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