



DIVIT 280000

Laboratory Investigation Report

Name : Mr. IMTIAZ
DOB : 22/07/1961

62 Y / Male

Referred by : DR HUSSAIN KARIM

Centre : Peshawar Medical Center LLC

Ref No. : 25416

Sample No. : 2310283515

Collected : 07/10/2023 11:00 **Registered** : 07/10/2023 15:15

Reported : 07/10/2023 18:31

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
URIC ACID (SERUM)	3.2	L	mg/dL	3.5 - 7.2	Uricase, UV
CREATININE (SERUM)	0.66	L	mg/dL	0.74 - 1.35	Alkaline picrate (IFCC standardised)

Interpretation Notes:

Age / Gender

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

BLOOD UREA NITROGEN (SERUM)

BUN 20 H mg/dL 7 - 18 Calculation

UREA 42 H mg/dL 14.98 - 38.52 Kinetic test with urease and

glutamate

Interpretation Notes:

High BUN level maybe seen is cases of chronic glomerulonephritis, pyelonephritis, chronic renal disease, acute renal failure, decreased renal perfusion (prerenal azotemia) as in shock, severe congestive heart failure, catabolism, hyperalimentation, ketoacidosis and dehydration (as in diabetes mellitus). Bleeding from the gastrointestinal tract is an important cause of high urea nitrogen, commonly accompanied by elevation of BUN:creatinine ratio.

Low BUN level maybe seen in normal pregnancy, decreased protein intake, with intravenous fluids and intake of some antibiotics.

Sample Type: Serum

End of Report

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

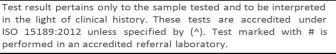
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CAP ACCREDITED



Dubai, UAE



SAGAR MURUKESAN PILLAI MOLY Laboratory Technologist

Printed on: 08/10/2023 12:08







RMI 280000

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BIOCHEMISTRY

Test Result Flag Unit Reference Range Methodology

GLUCOSE (FASTING) 137 H mg/dL < 100 Hexokinase

Sample Type: Fluoride Plasma

End of Report



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

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

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SAGAR MURUKESAN PILLAI MOLY

Laboratory Technologist
Printed on: 08/10/2023 12:08

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Test	Result	Flag	Unit	Reference Range	Methodology
UREA (SERUM)	42	Н	mg/dL	14.98 - 38.52	Kinetic test with urease and glutamate
MAGNESIUM	2.2		mg/dL	1.8 - 2.4	Methylthymol blue

Interpretation Notes:

Increased magnesium levels relate mostly to patients in renal failure. Increased serum magnesium is also found with Addison disease and in pregnant patients with severe preëclampsia or eclampsia who are receiving magnesiumsulfate as an anticonvulsant. Hypermagnesemia may occur in patients using magnesium-containing cathartics. High magnesium levels are manifested by decreased reflexes, somnolence and heart block.

Decreased level or Hypomagnesia is seen in neuromuscular disorders. Hypomagnesemia is associated with hypocalcemia, hypokalemia, long-term hyperalimentation, intravenous therapy, diabetes mellitus, especially during treatment of ketoacidosis; alcoholism and other types of malnutrition; malabsorption; hyperparathyroidism; dialysis; pregnancy and hyperaldosteronism. Renal loss of magnesium occurs with cis-platinum therapy. Drugs like amphotericin toxicity will causes hypomagnesemia.

Sample Type: Serum

End of Report

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

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Dubai, UAE





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Reported : 08/10/2023 01:00

В	О	CH	łEľ	VII	IST	RY	,

Test	Result	Flag	Unit	Reference Range	Methodology
GLYCATED HEMOGLOBIN (HbA1C) ^					
HBA1C	7.4	Н	%	Non- diabetic: 4.0 - 5.6 Prediabetes (Increased risk): 5.7 - 6.4 Diabetes: = or > 6.5	Capillary electrophoresis
eAG (estimated Average Glucose)	166		mg/dL	-	Calculation

Interpretation Notes:

HbA1c Therapeutic goals for glycemic control (ADA)

∧dulte:

- Goal of the rapy: < 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

End of Report

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

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(hrg)

MIDHUN MANIKANDAN GEETHA

Laboratory Technologist
Printed on: 08/10/2023 12:08

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Mr. IMTIAZ

Name



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High: 200 - 499 Very High: > 500

< 4.5

< 3.5

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BIOCHEMISTRY Test Result Flag Unit **Reference Range** Methodology **LIPID PROFILE TEST CHOLESTEROL (TOTAL)** 195 mg/dl Desirable: < 200 Enzymatic colorimteric assay Borderline High: 200 - 240 High: > 240 **HDL CHOLESTEROL 39** mg/dl 40 - 60 Homogeneous enzymatic colorimetric assay LDL CHOLESTEROL DIRECT Homogeneous enzymatic mg/dl Optimal: < 100 122 colorimetric assay Near/Above Optimal: 100 -Borderline High: 130 - 159 High: 160 - 189 Very High: > 190 **VLDL CHOLESTEROL** 29 Calculation mg/dL < 30 NON-HDL CHOLESTEROL Calculation 151 mg/dL < 140 TRIGLYCERIDES mg/dl Enzymatic colorimetric assay 147 Normal: < 150 Borderline High: 150 - 199

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TOTAL CHOLESTEROL / HDL RATIO

LDL / HDL RATIO

5.0

3.1

SAGAR MURUKESAN PILLAI MOLY

Calculation

Calculation

Laboratory Technologist
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BMI 280000

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				•	• •			
BIOCHEMISTRY								
Test	Result	Flag	Unit	Reference Range	Methodology			
LIVER FUNCTION TEST								
ALT / SGPT	49		U/L	16 - 63	UV with P5P 37°C (IFCC)			
AST / SGOT	17		U/L	15 - 37	Tris buffer UV with P5P 37°C			
ALP (ALKALINE PHOSPHATASE)	72		U/L	46 - 116	AMP optimised to IFCC 37°C			
GGT (GAMMA GLUTAMYL TRANSFERASE)	33		U/L	15 - 85	Gamma glutamyl3-carboxy-4- nitroanilide 37°C			
BILIRUBIN (TOTAL)	0.9		mg/dL	0.2 - 1.0	Jendrassik Grof			
BILIRUBIN (DIRECT)	0.2		mg/dL	0 - 0.2	Diazotization			
INDIRECT BILIRUBIN	0.70		mg/dL	< or = 0.90	Calculated			
TOTAL PROTEIN	7.6		g/dL	6.4 - 8.2	Biuret reaction			
ALBUMIN (SERUM)	4.1		g/dL	3.4 - 5.0	Bromocresol purple			
GLOBULIN	3.5		g/dL	2.0 - 3.5	Calculation			
A/G RATIO	1.2		NULL	0.8 - 2.0	Calculation			
Sample Type : Serum		End	of Report					

Dr. Adley Mark Fernandes Dr. Vyoma V Shah
M.D (Pathology) M.D (Pathology)
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Laboratory Technologist
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CLIN		DATL		OCV.
CLIM	ILAL	PAID	JUL	UUI

Test	Result	Flag	Unit	Reference Range	Methodology
URINE ANALYSIS (ROUTINE)					
MACROSCOPIC EXAMINATION					
COLOR	YELLOW			Pale to Dark Yellow	Visual
APPEARANCE	CLEAR			-	Visual
CHEMISTRY EXAMINATION					
SPECIFIC GRAVITY	1.025			1.002 - 1.035	Bromothymol blue
PH	5.5			4.5 - 8.0	Litmus paper
GLUCOSE	+++			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	TRACE			Negative	Legal's test
NITRITE	NEGATIVE			Negative	Griess test
MICROSCOPIC EXAMINATION					
LEUCOCYTES	1 - 2		/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
MUCUS THREADS	+		/HPF	-	Microscopy
OVA	ABSENT		/HPF	Absent	Microscopy and Micrometry

Comments: Please correlate clinically.

Interpretation Notes :

Instrumentation used for Chemistry test: Siemens Clinitek Advantus.

Sample Type: URINE

End of Report

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

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YAZEEDAH ABDUL MUNEER
Medical Microbiology Technologist
Printed on: 08/10/2023 12:08

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	HEI	MATOLOGY		
Test	Result Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)				
HEMOGLOBIN	15.4	g/dL	13.5 - 17.5	Spectrophotometry (Oxyhemoglobin)
RBC COUNT	5.7	10^6/μL	4.3 - 5.7	Electrical Impedance
HEMATOCRIT	46.1	%	38 - 50	Calculation
MCV	81.5 L	fL	82 - 98	Calculation
МСН	27.2	pg	27 - 32	Calculation
мснс	33.4	g/dL	32 - 37	Calculation
RDW	13.4	%	11.8 - 15.6	Calculation
RDW-SD	38.5	fL		Calculation
MPV	8	fL	7.6 - 10.8	Calculation
PLATELET COUNT	282	10^3/μL	150 - 450	Electrical Impedance
РСТ	0.2	%	0.01 - 9.99	Calculation
PDW	16.8	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)^	0.5	%		Flow Cytometry
ABSOLUTE EGC^	0	10^3/uL		Calculation
WBC COUNT	8	10^3/μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)				
NEUTROPHILS	56	%	40 - 75	Flow Cytometry
LYMPHOCYTES	32	%	20 - 45	Flow Cytometry
EOSINOPHILS	5	%	0 - 6	Flow Cytometry
MONOCYTES	6	%	1 - 6	Flow Cytometry
BASOPHILS	1	%	0 - 1	Flow Cytometry
ABSOLUTE COUNT				
ABSOLUTE NEUTROPHIL COUNT	4.4	10^3/uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	2.6	10^3/uL	0.8 - 4.95	Calculation
ABSOLUTE MONOCYTE COUNT	0.5	10^3/uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.4	10^3/uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.1	10^3/uL	0 - 0.11	Calculation

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

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MIDHUN MANIKANDAN GEETHA

Laboratory Technologist
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HEMATOLOGY

Test Result Flag Unit **Reference Range** Methodology

COMPLETE BLOOD COUNT (CBC)

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

Sample Type: EDTA Whole Blood

End of Report



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

Dr. Vyoma V Shah M.D (Pathology) **Clinical Pathologist** This is an electronically authenticated report

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Serum

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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
THYROID STIMULATING HORMONE (TSH)	0.72		uIU/mL	0.27 - 4.2	CLIA
THYROXINE, FREE (FT4)	18.1		pmol/L	11.5 - 22.7	CLIA

End of Report



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

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