



 Patient Name
 : Ms. ARSH FATMA
 Sample UID No.
 : 4091149P-P

 Age / Gender
 : 55 Y / Female
 Sample Collected On
 : 28-06-2025 09:30

 Patient ID
 : QLD090951
 Registered On
 : 28-06-2025 15:56

Referred By : CITY CARE Reported on :

Referral Client : CITICARE MEDICAL CENTER External Patient ID : 26253
Emirates ID / Passport No : Print Version : V.1

Department of BIOCHEMISTRY

InvestigationResultsFlagUnitsBiological Reference IntervalMethodGLUCOSE (POST PRANDIAL)209Hmg/dL70 - 140Hexokinase

Sample: Fluoride Plasma P

Comments:

CLINICAL IMPLICATIONS:

ADA criteria for definitive test for diabetes:

- 1) Fasting blood glucose > 126 mg/dl (> 6.99 mmol/l) on at least two occasions.
- 2) Symptoms of diabetes plus random blood glucose > 200 mg/dl (> 11.1 mmol/l)
- 3) OGTT with 2 hrs. post load (75 gm glucose load) > 200 mg/dl (> 11.1 mmol/l)
- 4) HbA1c > 6.5% Interfering factors: 1) Steroids, diuretics, pregnancy, surgical procedures, anesthesia, obesity, smoking m cause elevated glucose levels. 2 Hematocrit > 55%, intense exercise, drug intake may cause lowered glucose level. Recommendat mild borderline cases may present with normal fasting glucose levels, recommended to repeat testing on a different day.

Reference:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9thEdition]
- 2) Tietz clinical guide to Laboratory tests (Fourth edition) ALAN H.B. WU

- END OF REPORT -

"QLabs compliance with ISO 15189:2022 standards"

Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 1 of 17

28-06-2025 22:55





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Department of BIOCHEMISTRY

ELECTROLYTE PANEL

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
SODIUM (NA)	141		mmol/L	136-145	ISE (Indirect)
POTASSIUM (K)	5.2	Н	mmol/L	3.5-5.1	ISE (Indirect)
CHLORIDE (CL)	102		mmol/L	98-107	ISE (Indirect)

Interpretation Notes:

Clinical Implication:

- 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 is important to diagnose acid-base and water imbalance and the value varies with circulatory volume.
- 3. Chloride, blood electrolytes is helpful in diagnosing disorders of acid base, water balance and has reciprocal rise (or) fall in response to concentration of other anions.

Interfering factors:

- 1.Drugs like steroids, calcium, fluoride, iron can cause increase in sodium level. Drugs like heparin, laxative, sulphate, diuretics cause decrease in sodium level. High Triglycerides or low protein falsely decrease in sodium level
- 2. Blood drawing procedure affect the values of potassium. Drugs like diuretics and NSAID increase values and excess intake of licorice decrease potassium level.
- 3.Plasma chloride concentration in infants is higher than in children and adults. Drugs may alter chloride levels. Increased values is associated with IV Saline infusion.

Reference -

Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]

Sample: Serum

- END OF REPORT -

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Maqsood Rahman Lab Technologist

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Page 2 of 17



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Department of CLINICAL PATHOLOGY

COMPREHENSIVE URINE ANALYSIS

Investigation Sample: URINE MACROSCOPIC EXAMINATIO	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	Method
COLOR	Yellow			Pale to Dark Yellow	Colorimetric
APPEARANCE	Clear			-	Turbidometric Method
CHEMISTRY EXAMINATION					
SPECIFIC GRAVITY	1.02			1.002 - 1.035	Reflectance photometry
рН	6			4.5 - 8	Reflectance photometry
PROTEIN	Neg.			Negative	Reflectance photometry
GLUCOSE	Traces			Negative	Reflectance photometry
KETONE	Neg.			Negative	Reflectance photometry
UROBILINOGEN	Norm.			Negative	Reflectance photometry
BILIRUBIN	Neg.			Negative	Reflectance photometry
BLOOD	Neg.			Negative	Reflectance photometry
LEUCOCYTES	Neg.			Negative	Reflectance photometry
MICROSCOPIC EXAMINATION	N				
NITRATE	Neg.			NEGATIVE	Reflectance photometry
PUS CELLS	Nil		/HPF	0 - 5	Microscopy
RBC	Nil		/HPF	0 - 3	Microscopy
NRBC	Nil		/HPF	0 - 3	Microscopy
DRBC	Nil		/HPF	0 - 3	Microscopy
RBC CLUMP	Nil		/HPF	0 - 3	Microscopy
SQUAMOUS EPITHELIAL CELLS	Few		/HPF	0 - 5	Microscopy
OTHER EPITHELIAL CELLS	Nil		/HPF	0-5	Microscopy

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<u> 4</u>

Mohammed Jahfar Kuttikkattil Lab Technologist

DHA No:05143389-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director

Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 3 of 17



Patient Name Sample UID No. : Ms. ARSH FATMA : 4091149U

Age / Gender : 55 Y / Female $\textbf{Sample Collected On} \hspace{0.1in} \textbf{:} \hspace{0.1in} 28\text{-}06\text{-}2025 \hspace{0.1in} 09\text{:} 30$ Patient ID : QLD090951 Registered On : 28-06-2025 15:56 : 29-06-2025 09:39 Referred By Reported on : CITY CARE

: 26253 **Referral Client External Patient ID** CITICARE MEDICAL CENTER

Emirates ID / Passport No : **Print Version** : V.1

Department of CLINICAL PATHOLOGY

COMPREHENSIVE URINE ANALYSIS

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
BACTERIA	Nil		/HPF	0 - 5	Microscopy
BACTERIA CLUMP	Nil		/HPF	0 - 5	Microscopy
BACTERIA RODS	Nil		/HPF	0-5	Microscopy
BACTERIA COCCI	Nil		/HPF	0-5	Microscopy
HYALINE CAST	Nil		/HPF	NIL	Microscopy
PATHOLOGICAL CAST	Nil		/HPF	NIL	Microscopy
GRANULAR CAST	Nil		/HPF	NIL	Microscopy
CELLULAR CAST	Nil		/HPF	NIL	Microscopy
WAXY CAST	Nil		/HPF	NIL	Microscopy
RBC CAST	Nil		/HPF	NIL	Microscopy
WBC CAST	Nil		/HPF	NIL	Microscopy
FACT	Nil		/HPF	NIL	Microscopy
CALCIUM OXALATE CRYSTALS	Nil		/HPF	NIL	Microscopy
MONOHYDRATE CALCIUM CRYSTALS	Nil		/HPF	NIL	Microscopy
TRIPLE PHOSPHATE CRYSTALS	Nil		/HPF	NIL	Microscopy
URIC ACID CRYSTALS	Nil		/HPF	NIL	Microscopy
OTHER SMALL CRYSTALS	Nil		/HPF	NIL	Microscopy
CALCIUM PHOSPHATE CRYSTALS	Nil		/HPF	NIL	Microscopy
LEUCINE CRYSTALS	Nil		/HPF	NIL	Microscopy
CYSTINE CRYSTALS	Nil		/HPF	NIL	Microscopy
TYROSINE CRYSTALS	Nil		/HPF	NIL	Microscopy

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Dr. Vidhya Mohan **Specialist Clinical Pathologist Clinical Pathologist** DHA No. 23553203-004

Dr. Dheepa Manoharan **Medical Director Specialist Microbiologist** DHA No. 00231751-004

Page 4 of 17



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COMPREHENSIVE URINE ANALYSIS

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
AMORPHOUS CRYSTALS	Few		/HPF	NIL	Microscopy
CHOLESTEROL CRYSTALS	Nil		/HPF	NIL	Microscopy
FAT	Nil		/HPF	NIL	Microscopy
MUCUS	Moderate		/HPF	NIL	Microscopy
YEAST	Nil		/HPF	NIL	Microscopy
UNCLASSIFIED	Nil		/HPF	NIL	Microscopy
OTHERS	Nil		/HPF	NIL	Microscopy

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DHA No. 00231751-004

Page 5 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE)

<u>Investigation</u> <u>Results</u> <u>Flag</u> <u>Units</u> <u>Biological Reference Interval</u> <u>Method</u>

IRON 56 $\mu g/dl$ 33-193 Ferrozine-no deproteinization

Sample: Serum Comments:

CLINICAL IMPLICATIONS:

- 1. The combined results of iron, transferrin, and TIBC are helpful in the differential diagnosis of anaemia ,in assessment of iron deficiency anemia and in the evaluation of thalassemia, sideroblastic anemia and haemochromatosis.
- 2. Transferrin saturation is a better index of iron saturation. Percent saturation is a better index of iron stores than serum alone. Saturation <15% denotes iron deficiency.

INTERFERING FACTORS:

- 1. Homolysis of the blood sample may interfere with testing. Drugs like aspirin, antibiotics, testosterone may cause decreased levels and drugs like ethanol, estrogen may cause an increased iron level.
- 2. Diurnal variation in iron. Normal values in the morning, low in mid-afternoon, very low in the evening.
- 3. Serum iron and TIBC may be normal in iron deficiency anemia if Hb is >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.

REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

- END OF REPORT -

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Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 6 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE) LIPID PROFILE TEST

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
CHOLESTEROL (TOTAL)	193		mg/dl	Desirable: < 200 Borderline High: 200-239 High: > 240	Enzymatic colorimteric assay
TRIGLYCERIDES	203	Н	mg/dl	Normal Up to 150 Borderline-High 150-199 High 200-499 Very High > 500	Enzymatic colorimetric test
HDL CHOLESTEROL	37		mg/dl	High risk up to 40 Low risk > 60	Homogeneous Enzymatic Colorimetric
LDL CHOLESTEROL DIRECT	132	Н	mg/dl	Optimal up to < 100 Near Optimal: 100-129 Borderline: 130-159 High: 160-189 Very High: > 190	Enzymatic, colorimetric method
VLDL CHOLESTEROL	41	Н	mg/dl	10-35	Calculation
NON-HDL CHOLESTEROL	156	Н	mg/dl	Desirable < 130 Borderline 130 – 159 High >159	Calculation
TOTAL CHOLESTEROL / HDL RATIO	5.2	Н		< 4.5	Calculation
LDL / HDL RATIO	3.6			Low Risk < 3.0 Borderline 3.1-6.0 High Risk >6.0	Calculation

Interpretation Notes:

CLINICAL IMPLICATIONS:

- 1. Cholesterol testing evaluates the risk for atherosclerosis, myocardial occlusion, and coronary artery occlusion. Elevated cholesterol levels are a major component in the hereditary hyper lipoproteinemia. It is also used to monitor effectiveness of diet, medications, lifestyle, and stress management.
- 2. The cholesterol to HDL ratio provides more information than does either value alone. When a slightly increased cholesterol is due to high HDL, therapy is not indicated.
- 3. LDL cholesterol has a longer shelf life and determines the CHD risk.

INTERFERING FACTORS:

- 1. Seasonal and positional variations may alter cholesterol levels. Estrogens, ascorbic acid, bilirubin decrease the cholesterol levels . Pregnancy, bile salt, high saturated fat, and high cholesterol diet may increase the cholesterol values. Prolonged fasting with ketosis may increase the value.
- 2. Increased levels of HDL may be associated with estrogen therapy, drugs like steroids, alcohol and insulin therapy. Decreased levels are associated with stress, recent illness, starvation, obesity, smoking, hyper triglyceridemia, lack of exercise.
- 3. Increased LDL may be associated with pregnancy, drugs like steroids. Decreased LDL are found in women under estrogen therapy. No fasting may cause false elevation.
- 4. A transient increase in triglycerides occurs following heavy meal, alcohol ingestion, pregnancy, acute illness like cold ,flu, obesity, physical

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Page 7 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE) LIPID PROFILE TEST

Investigation Results Flag Units Biological Reference Interval Method

inactivity, smoking. Transient decrease occurs after strenuous exercise, weight loss.

RECOMMENDATION:

- 1. Cholesterol levels >200 mg/dl should be retested and the results averaged and if the results differ by > than 10%, a third test need to be done for confirmation. Perform a comprehensive lipoprotein analysis if cholesterol levels are not lowered within 6 months after start of therapy. If the values are altered in a normal condition, recommended to follow a stable diet for 1 week and overnight fasting (9 to 12 hours) before repeating the test.
- 2. Cholesterol and HDL should not be measured immediately after MI. A 3 month wait is suggested.
- 3. If triglyceride levels are more than 400mg/dl or >10.36mmol/L recommended to fast overnight(9 to 12 hours) and retest .Because of biological and analytical variation, at least 2 serial sample may be necessary for clinical decision making. VLDL cannot be calculated if triglycerides are more than 400mg/dl

REFERENCE: 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition] 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

Sample: Serum

- END OF REPORT -

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DHA No:48036476-001



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Page 8 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE) Renal Function Test

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
UREA (SERUM)	18.5		mg/dl	16.6-48.5	Kinetic test,Urease
CREATININE (SERUM)	0.44	L	mg/dl	0.5 - 0.9	Alkaline picrate
URIC ACID (SERUM)	4.93		mg/dl	2.4-5.7	Enzymatic colorimetric test
BLOOD UREA NITROGEN (SERUM)	8.6		mg/dl	6-20	Calculation
BUN/CREATININE RATIO	19.55		mg/dl	10-30	Calculation

Interpretation Notes:

CLINICAL IMPLICATIONS:

- 1. A markedly increased BUN is conclusive of severe impaired glomerular function and in chronic renal disease BUN level correlates better with the symptoms of uremia than does the serum creatinine.
- 2. Uric acid levels is used most in the evaluation of renal failure, gout, and leukaemia. In gout the amount of increase is not directly related to the severity of the disease. Acute levels may occur following administration of cytotoxic drugs.
- 3. In chronic renal disease, BUN/creatinine ratio is a better indicator to evaluate the renal problem than evaluating either alone. For each 50% reduction in GFR serum creatinine doubles. In chronic renal disease the plasma levels of creatinine may be more sensitive to changes in glomerular function than creatinine clearance, which may be factitiously higher than the true value.

INTERFERING FACTORS:

- 1. A combination of low protein high carbohydrate diet, late pregnancy (PHYSIOLOGIC HYDREMIA), IV feedings may cause a low level of BUN. BUN is normally lower in children and women than adult. Elderly person can have an increased BUN level. Many drugs like steroids, tetracyclines, thyroxine, stress, strenuous exercise may alter the values of BUN levels.
- 2. Stress, strenuous exercise, purine rich diet(liver, kidney, sweet breads)increases uric acid levels. High levels of aspirin, low purine intake, coffee, tea intake may cause a decreased level of uric acid. Drugs like steroids, diuretics, acetaminophen may alter the uric acid levels.
- 3. High levels of ascorbic acid, cephalosporin, diet high in meat, ketoacidosis may increase serum creatinine substantially. Creatinine is falsely decreased by bilirubin, glucose, histamine, quinidine compounds. Drugs like cephalosporins may alter the values. Lipemic and homolyzed samples may cause false elevations.

REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

Sample: Serum

- END OF REPORT -

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Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist

DHA No. 00231751-004

Page 9 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE)

GLYCATED HEMOGLOBIN (Hba1c)

Investigation Sample: EDTA Whole Blood	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
GLYCATED HEMOGLOBIN (HbA1C) ^	8.1	н	%	<5.7 non-diabetic 5.7-6.4 Pre-Diabetic >6.4 Diabetic	Turbidimetric Inhibition Immunoassay
Average Blood Glucose	185.8	Н	mg/dl	90-120 Good Control 121-150 Fair Control 151-180 Unsatisfactory Control >180 Poor Control	Calculated

Comments:

False elevated levels may be due to hypertriglyceridemia, iron deficiency anemia, B12 deficiency, vit C supplement usage, uremia, hemoglobinopathies. In such cases recommended to evaluate the value using alternative index like fructosamine, glycated albumin or continuous glucose monitoring

CLINICAL IMPLICATIONS:

- 1) Glycated hemoglobin reflects average blood sugar level for 2 to 3 month period and useful for evaluating diabetic medications and to track the control of blood glucose in milder cases.
- 2) Increase in Glycated hemoglobin occurs in non diabetic conditions like Iron deficiency anemia, splenectomy, alcohol toxicity. Decrease in Glycated Hemoglobin in hemolytic anemia, chronic blood loss, pregnancy and chronic renal failure.
- 3) Improvement in the glucose control occurring in the 4 weeks before drawing of the sample is not well reflected in the result since the formation of glycated haemoglobin is irreversible.

INTERFERING FACTORS:

- 1) Presence of HbF and HbH cause falsely elevated values.
- 2) Presence of Hb S, C, E, D, G and Lepore cause falsely decrease results.
- 3) If test results are not consistent with clinical finding check the patient for HbF which elevates HbA1c results.
- 4) Haemolytic blood samples may cause falsely low results because of increased erythrocyte turnover.

REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

- END OF REPORT -

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40

Mohammed Jahfar Kuttikkattil Lab Technologist

DHA No:05143389-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 D. Dhy

Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 10 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE) LIVER FUNCTION TEST

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
ALT / SGPT	21		U/L	10-35	IFCC with P5P
AST / SGOT	17		U/L	10-35	IFCC with P5P
ALP (ALKALINE PHOSPHATASE)	91		U/L	35-104	Colorimetric assay
GGT (GAMMA GLUTAMYL TRANSFERASE)	25		U/L	5-36	Enzymatic colorimetric assay
BILIRUBIN (TOTAL)	0.3		mg/dl	0.1-1.2	Diazo
BILIRUBIN (DIRECT)	0.12		mg/dl	0-0.3	Diazo
INDIRECT BILIRUBIN	0.18		mg/dl	0.00-1.1	Calculated Parameter
TOTAL PROTEIN	6.4	L	g/dl	6.6-8.7	Colorimetric assay
ALBUMIN (SERUM)	3.9	L	g/dl	3.97-4.94	Colorimetric assay
GLOBULIN	2.5		g/dl	2.35 - 3.5	Calculated Parameter
A/G RATIO	1.6			1.1-2.5	Calculated Parameter

Interpretation Notes:

CLINICAL IMPLICATIONS:

- 1) Total Bilirubin elevation accompanied by jaundice is due to hepatic, obstructive, hemolytic and blood group compatibility.
- 2) Increase albumin is associated with dehydration and decrease is due to acute and chronic inflammation, burns and heart failure.
- 3) Although AST levels always increase in acute MI, ALT level doesn't always increase unless there also liver damage.
- 4) ALT is usually increased more than AST in acute extra hepatic biliary obstruction.
- 5) ALT is more specific than AST for liver disease but AST is more sensitive to liver disease.
- 6) Alkaline phosphatase normal values are higher in pediatric patient and in pregnancy. Values may increase up to 3 times in puberty.
- 7) GGT is used to confirm biliary abnormality and is elevated in hepatobiliary disease but not in uncomplicated bone disease.

- END OF REPORT -

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Page 11 of 17





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Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE) LIVER FUNCTION TEST

Investigation Results Flag Units Biological Reference Interval Method

8) GGT values are higher in new born, first 3 to 6 month. Adult male have 25% higher values than female.

INTERFERING FACTORS:

- 1) Certain foods like carrots, yam, drugs, anorexia, prolonged fasting may falsely increase bilirubin level.
- 2) Albumin levels may reduce in pregnancy, over hydration, edema, drugs, obesity.
- 3) Young children, pregnant women, post-menopausal women have physiological high level of ALT. Alkaline phosphatase increase after fatty meal.
- 4) Slight reduce level of AST can be seen during pregnancy and false reduced level in severe liver disease.

REFERENCE: 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition] 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

Sample: Serum

- END OF REPORT -

"QLabs compliance with ISO 15189:2022 standards"

Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 12 of 17





 Age / Gender
 : 55 Y / Female
 Sample Collected On : 28-06-2025 09:30

 Patient ID
 : QLD090951
 Registered On : 28-06-2025 15:56

 Referred By
 : CITY CARE
 Reported on : 28-06-2025 22:55

Referral Client : CITICARE MEDICAL CENTER External Patient ID : 26253
Emirates ID / Passport No : Print Version : V.1

Department of BIOCHEMISTRY GENERAL WELLNESS CHECK-UP(CITICARE)

GLUCOSE R/F

 Investigation
 Results
 Flag
 Units
 Biological Reference Interval
 Method

 Sample: Fluoride Plasma

 GLUCOSE FASTING
 149
 H
 mg/dl
 74-109
 Hexokinase

Comments:

CLINICAL IMPLICATIONS:

ADA criteria for definitive test for diabetes:

- 1) Fasting blood glucose > 126 mg/dl (> 6.99 mmol/l) on at least two occasions.
- 2) Symptoms of diabetes plus random blood glucose > 200 mg/dl (> 11.1 mmol/l)
- 3) OGTT with 2 hrs. post load (75 gm glucose load) > 200 mg/dl (> 11.1 mmol/l) 4) HbA1c > 6.5%

INTERFERING FACTORS:

- 1) Steroids, diuretics, pregnancy, surgical procedures, anesthesia, obesity, smoking may cause elevated glucose levels.
- 2) Hematocrit > 55%, intense exercise, drug intake may cause lowered glucose level.
- 3)Dawn Phenomenon-Increase in blood glucose typically between 4.00am and 8.00 am due to counter-regulatory hormones.

RECOMMENDATION:

As mild borderline cases may present with normal fasting glucose levels, recommended repeat testing on a different day. **REFERENCE**:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

- END OF REPORT -

"QLabs compliance with ISO 15189:2022 standards"

Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 13 of 17





 Age / Gender
 : 55 Y / Female
 Sample Collected On : 28-06-2025 09:30

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 : QLD090951
 Registered On : 28-06-2025 15:56

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Referral Client : CITICARE MEDICAL CENTER External Patient ID : 26253

Emirates ID / Passport No : Print Version : V.1

Department of HEMATOLOGY GENERAL WELLNESS CHECK-UP(CITICARE) ADVANCE COMPLETE BLOOD COUNT

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
HEMOGLOBIN	13		g/dl	12-15	photometric
WBC COUNT	7.5		10^3/uL	4-11	Electrical Impedance
RBC COUNT	4.41		10^6/uL	3.8-4.8	Electrical Impedance
HEMATOCRIT	38.8		%	37-47	Calculation
MCV	88		fL	78-100	Calculation
МСН	29.4		pg	27-31	Calculation
МСНС	33.4		g/dl	31-35	Calculation
RDW	13.8		%	9.3-16	Calculation
RDW-SD	43.3		fL	38.9-49	Calculation
MPV	8.8		fL	8.8-12.5	Calculation
PLATELET COUNT	279		10^3/uL	150-400	Electrical Impedance
* Neutrophil	67.57		%	40-80	VCS-Method
* Lymphocyte	24.96		%	20-40	VCS-Method
* Monocyte	4.87		%	2-10	VCS-Method
* Eosinophil	1.94		%	1-8	VCS-Method
* Basophil	0.66		%	0-2	VCS-Method
* ABSOLUTE NEUTROPHIL COUNT	5.09		10^3/uL	1.5-7	Calculation
* ABSOLUTE LYMPHOCYTE COUNT	1.88		10^3/uL	1.5-4	Calculation
* ABSOLUTE MONOCYTE COUNT	0.37		10^3/uL	0-0.8	Calculation
* ABSOLUTE EOSINOPHIL COUNT	0.15		10^3/uL	0-0.6	Calculation
* ABSOLUTE BASOPHIL COUNT	0.05		10^3/uL	0-0.2	Calculation

Interpretation Notes:

Interfering factors: Factors such as age, gender, pregnancy, drug intake, excessive fluid intake, dehydration, hyperlipidemia, stress, exercise, post-operative state, new born, clotted specimen may interfere with test results. Hence recommended fresh EDTA blood sample for confirmation.

Reference:-Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition

Sample: EDTA Whole Blood

- END OF REPORT -

Note:

"The analytes with asterix (*) symbol are non-accredited parameters.".
"QLabs compliance with ISO 15189:2022 standards"



Mohammed Jahfar Kuttikkattil Lab Technologist



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004

Page 14 of 17

DHA No:05143389-001





 Age / Gender
 : 55 Y / Female
 Sample Collected On : 28-06-2025 09:30

 Patient ID
 : QLD090951
 Registered On : 28-06-2025 15:56

 Referred By
 : CITY CARE
 Reported on : 28-06-2025 22:55

Referral Client : CITICARE MEDICAL CENTER External Patient ID : 26253
Emirates ID / Passport No : Print Version : V.1

Department of IMMUNOLOGY GENERAL WELLNESS CHECK-UP(CITICARE)

InvestigationResultsFlagUnitsBiological Reference IntervalMethodVITAMIN D, 25-OH (TOTAL)23.2ng/mLDeficient : < 20</td>ECLIA

Deficient : ≤ 20 E insufficient: 21-29

Sufficient: ≥ 30 Toxicity:>80

Sample: Serum Comments:

CLINICAL IMPLICATIONS:

- 1. Increased Vitamin D levels are seen in gastrointestinal symptoms like anorexia, nausea, vomiting, constipation, hypercalcemia, renal colic, supplements, normal growing children, pregnant and lactating females, tuberculosis, idiopathic hypercalciuria, sarcoidosis. Levels can increase to 200 -300pg/ml during treatment of osteoma Lacia with physiological doses of vitamin D.
- 2. Decreased levels are seen in Inadequate diet, Inadequate exposure to sunlight, liver disease, Malabsorption syndrome, osteoma Lacia, Anticonvulsants, rickets, chronic renal failure, pseudohypoparathyroidism, post-menopausal osteoporosis and adults with insulin requiring diabetes mellitus.
- 3. 25(OH) levels do not indicate clinical vitamin D status in patients with chronic renal failure or type 1 vitamin D dependent rickets or when calcitriol is used as a supplement.

INTERFERING FACTORS:

Age, season of the year, diarrhoea or vomiting, certain drugs, diseases, and long term hyperalimentation are the factors that may interfere with the vitamin levels.

RECOMMENDATION:

Recommended to evaluate alternate cause of impaired mineralization, if the levels are not consistent with the suspected diagnosis.

REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU
- 3) Clinical microbiology procedures 4th edition AMY L LEBER

- END OF REPORT -

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Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist

DHA No. 00231751-004

Page 15 of 17





 Age / Gender
 : 55 Y / Female
 Sample Collected On : 28-06-2025 09:30

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 : CITY CARE
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Referral Client : CITICARE MEDICAL CENTER External Patient ID : 26253
Emirates ID / Passport No : Print Version : V.1

Department of IMMUNOLOGY GENERAL WELLNESS CHECK-UP(CITICARE)

InvestigationResultsFlagUnitsBiological Reference IntervalMethodVITAMIN B12453pg/mL197-771ECLIA

Sample: Serum Comments:

CLINICAL IMPLICATIONS: 1. Levels of Vitamin B12 and folate are usually tested in conjunction with one another for the diagnosis of Macrocytic anaemia and measurement of unsaturated VB12 binding capacity is valuable in distinguishing between untreated polycythemia vera and other conditions in which there is an elevated HCT. 2. Serum levels can be low in the absence of either anaemia or macrocytosis(eg. in patients with myeloma, aplastic anaemia) and conversely elevated Transcobalamin II can cause a normal or increase Vitamin B12 levels despite deficient liverstores.

INTERFERING FACTORS: 1. Blood transfusion, pregnancy, elderly patients, high vitamin C and A, smoking, drugs like aminoglycosides, metformin may alter the vitamin B 12 levels. 2. Low serum vitamin B 12 levels often occur in folate deficiency, and B12 deficiency can be masked by folate therapy.

REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU
- 3) Clinical microbiology procedures 4th edition AMY L LEBER

- END OF REPORT -

"QLabs compliance with ISO 15189:2022 standards"

Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan Specialist Clinical Pathologist Clinical Pathologist DHA No. 23553203-004 Dr. Dheepa Manoharan Medical Director Specialist Microbiologist DHA No. 00231751-004

Page 16 of 17





Patient Name Sample UID No. 4091149 : Ms. ARSH FATMA

Age / Gender **Sample Collected On** : 28-06-2025 09:30 : 55 Y / Female **Patient ID** : QLD090951 Registered On : 28-06-2025 15:56 28-06-2025 22:55 Referred By Reported on : CITY CARE

: 26253 **Referral Client External Patient ID** CITICARE MEDICAL CENTER Emirates ID / Passport No :

Print Version : V.1

Department of IMMUNOLOGY **GENERAL WELLNESS CHECK-UP(CITICARE) THYROID FUNCTION TEST (T3,T4,TSH)**

<u>Investigation</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	Biological Reference Interval	<u>Method</u>
TRIIODOTHYRONINE, TOTAL (T3)	1.25		ng/mL	0.8-2	ECLIA
THYROXINE, TOTAL (T4)	11.4		ug/dL	5.1-14.1	ECLIA
THYROID STIMULATING HORMONE (TSH)	3.94		uIU/mL	0.27-4.2	ECLIA

Interpretation Notes:

Total T3 Clinical implication:

Total T3 level is a quantitative determination of the total T3 concentration in the blood and is the test of choice in the diagnosis of T3 thyrotoxicosis.

Total T4 Clinical Implications:

Total T4 is a good index of thyroid function when TB G (Thyroid Binding Globulin) is normal. The increase in TBG levels normally seen in pregnancy and with estrogen therapy increases total T4 levels. The decrease of TBG levels in person receiving anabolic steroids, in chronic liver disease and in nephrosis decrease the total T4 value...

TSH CLINICAL IMPLICATIONS:

TSH has diurnal rhythm, peaks at 2:00-4:00am and has low levels at 5:00-6:00pm with ultradian rhythm (shorter than circadian).

Moderately high TSH is often found in euthyroid patients during treatment for hyperthyroidism. In treated hyperthyroid patient, TSH may remain low for 4-6 week after euthyroid state is achieved. TSH surges with birth, peaking at 30min at 25-160mU/L,declining to cord blood levels by 3 days,and reaching adult values in the first week of life.

REFERENCE:

Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]. Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

Sample: Serum

- END OF REPORT -

"QLabs compliance with ISO 15189:2022 standards"

Maqsood Rahman Lab Technologist

DHA No:48036476-001



Dr. Vidhya Mohan **Specialist Clinical Pathologist Clinical Pathologist** DHA No. 23553203-004

Dr. Dheepa Manoharan **Medical Director** Specialist Microbiologist

DHA No. 00231751-004

Page 17 of 17