

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | Dr. Yugam C MD (Pa CEO & Consultant Pat | thology) |
|--------------------------------------|--|---------------------------------|---|---|
| NAME AGE/ GENDER | : Miss. PRATIMA : 24 YRS/FEMALE | PATI | ENT ID : | : 1763762 |
| COLLECTED BY | : | | | : 012502200004 |
| REFERRED BY BARCODE NO. | : : 01525805 | | | : 20/Feb/2025 08:45 AM : 20/Feb/2025 08:49AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | | : 20/Feb/2025 11:01AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWA | ASTHYA WELLNI | ESS PANEL: 1.2 | |
| | C | OMPLETE BLOOD | COUNT (CBC) | |
| RED BLOOD CELLS | S (RBCS) COUNT AND INDIC | <u>ES</u> | | |
| HAEMOGLOBIN (H | B) | 9.7 ^L | gm/dL | 12.0 - 16.0 |
| by CALORIMETRIC RED BLOOD CELL (| | 4.48 | Millions/cm | am 3.50 - 5.00 |
| by HYDRO DYNAMIC F ACKED CELL VOL | OCUSING, ELECTRICAL IMPEDENCE | 32 ^L | % | 37.0 - 50.0 |
| by CALCULATED BY A | UTOMATED HEMATOLOGY ANALYZ | 'ER | | |
| | AR VOLUME (MCV) utomated hematology analyz | 71.3^L | fL | 80.0 - 100.0 |
| | AR HAEMOGLOBIN (MCH) | 21.6^L | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MC | CHC) 30.3^L | g/dL | 32.0 - 36.0 |
| • | UTOMATED HEMATOLOGY ANALYZ UTION WIDTH (RDW-CV) | ^{ER} 17.2 ^H | % | 11.00 - 16.00 |
| by CALCULATED BY A | UTOMATED HEMATOLOGY ANALYZ UTION WIDTH (RDW-SD) | ER 45.8 | fL | 35.0 - 56.0 |
| | UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZ | | IL | 55.0 - 56.0 |
| MENTZERS INDEX by CALCULATED | | 15.92 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 |
| | | | | IRON DEFICIENCY ANEMIA: |
| GREEN & KING INI |)FX | 27.31 | RATIO | >13.0 BETA THALASSEMIA TRAIT:<= |
| by CALCULATED | | £7.01 | MAILO | 65.0 |
| | | | | IRON DEFICIENCY ANEMIA: > 65.0 |
| <u> WHITE BLOOD CE</u> | LLS (WBCS) | | | |
| FOTAL LEUCOCYT | E COUNT (TLC) y by sf cube & microscopy | 8290 | /cmm | 4000 - 11000 |
| NUCLEATED RED E | BLOOD CELLS (nRBCS) | NIL | | 0.00 - 20.00 |
| • | RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) % | NIL | % | < 10 % |
| | UTOMATED HEMATOLOGY ANALYZ | | <i>,</i> 0 | × 10 /0 |
| | | | | |
| | | | | |





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AGE/ GENDER

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: 20/Feb/2025 11:01AM

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist : Miss. PRATIMA **PATIENT ID** : 24 YRS/FEMALE REG. NO./LAB NO. : **REGISTRATION DATE** : **COLLECTION DATE** :01525805 : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

| Test Name | Value | Unit | Biological Reference interval |
|--|---------------------|------|--------------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 60 | % | 50 - 70 |
| LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 31 | % | 20 - 40 |
| EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 5 | % | 1 - 6 |
| MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 4 | % | 2 - 12 |
| BASOPHILS by flow cytometry by SF cube & microscopy ABSOLUTE LEUKOCYTES (WBC) COUNT | 0 | % | 0 - 1 |
| ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 4974 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy | 2570 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 414 | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 332 | /cmm | 80 - 880 |
| PLATELETS AND OTHER PLATELET PREDICTIVE | MARKERS. | | |
| PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence | 232000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence | 0.34 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence | 15 ^H | fL | 6.50 - 12.0 |
| PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence | 144000 ^H | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence | 62 ^H | % | 11.0 - 45.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | 15.4 | % | 15.0 - 17.0 |



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| Fest Name | | Value | Unit | Biological Reference interval | |
| nmune disease, but . An ESR can be affe s C-reactive protein . This test may also ONDITION WITH LO low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactive . Generally, ESR doe . CRP is not affected . If the ESR is elevat . Women tend to ha . Drugs such as dexi | does not tell the health practitioner acted by other conditions besides inf be used to monitor disease activity ematosus W ESR In with conditions that inhibit the non inficantly high white blood cell coun le cell anaemia) also lower the ESR. In protein (C-RP) are both markers of es not change as rapidly as does CRP by as many other factors as is ESR, r ed, it is typically a result of two type we a higher ESR. and menstruation a | r exactly where lammation. For and response to prmal sedimenta t (leucocytosis) f inflammation. c, either at the s making it a bette es of proteins, g and pregnancy c; | the inflammation is in the this reason, the ESR is ty o therapy in both of the a ation of red blood cells, s , and some protein abno tart of inflammation or a er marker of inflammation lobulins or fibrinogen. an cause temporary eleva | picallý used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n . | |
| | | | | | |





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| | ٢ | | k Microbiology) Isultant Pathologist | Dr. Yugar MD CEO & Consultant | (Pathology) |
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| Test Name | | | Value | Unit | Biological Reference interval |
| | | CLINIC | CAL CHEMIST | RY/BIOCHEMIST | 'RY |
| | | | GLUCOSE | FASTING (F) | |
| GLUCOSE FASTING | | OD-POD) | 122.29 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 |

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PROFIL | F · BASIC | |
| CHOLESTEROL TO | TAL·SERUM | 163.35 | mg/dL | OPTIMAL: < 200.0 |
| by CHOLESTEROL O | | 100.00 | ing/ uL | BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| TRIGLYCERIDES: S by GLYCEROL PHOSE | SERUM PHATE OXIDASE (ENZYMATIC) | 85.55 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 |
| | | | | VERY HIGH: > OR = 500.0 |
| HDL CHOLESTERO by SELECTIVE INHIBIT | DL (DIRECT): SERUM TION | 51.77 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTERO by CALCULATED, SPE | | 94.47 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 |
| | | | | HIGH: 160.0 - 189.0 |
| NON HDL CHOLES' by calculated, spe | TEROL: SERUM ECTROPHOTOMETRY | 111.58 | mg/dL | VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 |
| VIDI CHOLECTED | OL CEDIM | 1711 | TL / ** ** | VERY HIGH: $> OR = 220.0$ |
| VLDL CHOLESTER(by CALCULATED, SPE | UL: SERUM ECTROPHOTOMETRY | 17.11 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SEF | RUM | 412.25 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HI | ECTROPHOTOMETRY DL RATIO: SERUM ECTROPHOTOMETRY | 3.16 | RATIO | LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |



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| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S by CALCULATED, SPE | | 1.82 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H by CALCULATED, SPE | | 1.65 ^L | RATIO | 3.00 - 5.00 |

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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| Test Name | | Value | Unit | Biological Reference interval |
| BILIRUBIN TOTAL | | 0.54 | TEST (COMPLETE) mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT | Г (CONJUGATED): SERUM | 0.11 | mg/dL | ADULT: 0.00 - 1.20 0.00 - 0.40 |
| | SPECTROPHOTOMETRY | 0.43 | | 0.10 - 1.00 |
| | ECT (UNCONJUGATED): SERUM | 0.43 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PY | [/RIDOXAL PHOSPHATE | 14.5 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PY | [/RIDOXAL PHOSPHATE | 11.1 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: S by CALCULATED, SPE | ERUM ECTROPHOTOMETRY | 1.31 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPI by Para Nitrophen propanol | HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL | 63.15 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMY by SZASZ, SPECTRO | L TRANSFERASE (GGT): SERUM | 11.88 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: by BIURET, SPECTRO | | 7.39 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL G | | 4.27 | gm/dL | 3.50 - 5.50 |

3.12 **GLOBULIN: SERUM** by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.37 by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

| > 2 |
|----------------------------|
| > 2 (Highly Suggestive) |
| 1.4 - 2.0 |
| > 1.5 |
| > 1.3 (Slightly Increased) |
| |





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gm/dL

RATIO

2.30 - 3.50

1.00 - 2.00

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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

| GOOD PROGNOSTIC SIGN 0.3 - 0.6 | |
|--------------------------------|--|
| | |
| POOR PROGNOSTIC SIGN 1.2 - 1.6 | |



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| | KIDNI | EY FUNCTIO | ON TEST (COMPLETE) | |
| UREA: SERUM | IATE DEHYDROGENASE (GLDH) | 19.9 | mg/dL | 10.00 - 50.00 |
| CREATININE: SERU | JM | 0.81 | mg/dL | 0.40 - 1.20 |
| • | OGEN (BUN): SERUM | 9.3 | mg/dL | 7.0 - 25.0 |
| | ROGEN (BUN)/CREATININE | 11.48 | RATIO | 10.0 - 20.0 |
| by CALCULATED, SPE | ECTROPHOTOMETRY | | | |
| UREA/CREATININ by CALCULATED, SPE | | 24.57 | RATIO | |
| URIC ACID: SERUM | [| 2.71 | mg/dL | 2.50 - 6.80 |
| by URICASE - OXIDAS CALCIUM: SERUM by ARSENAZO III, SPE | | 10.19 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SE | | 3.27 | mg/dL | 2.30 - 4.70 |
| ELECTROLYTES | ATE, OF EOTHOR HOTOMETRY | | | |
| SODIUM: SERUM by ISE (ION SELECTIV | 'E ELECTRODE) | 139.9 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERU by ISE (ION SELECTIV | M | 3.86 | mmol/L | 3.50 - 5.00 |
| CHLORIDE: SERUM by ISE (ION SELECTIV | [| 104.93 | mmol/L | 90.0 - 110.0 |
| ESTIMATED GLOM | IERULAR FILTERATION RATE | | | |
| ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION: | ERULAR FILTERATION RATE | 103.9 | | |

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





| | | r Chopra ogy & Microbiology) Consultant Pathologis | Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist | | | | |
|--|--|---|---|--|---|----------------|-----------|
| NAME | : Miss. PRATIMA | | | | | | |
| AGE/ GENDER | : 24 YRS/FEMALE | | PATIENT ID | : 1763 | 762 | | |
| COLLECTED BY | : | | REG. NO./LAB NO. | :012 | 502200004 | | |
| REFERRED BY | | | REGISTRATION DA | ATE · 20/₽ | eb/2025 08:4 | 45 AM | |
| BARCODE NO. | : 01525805 | | COLLECTION DATE | | eb/2025 08:4 | | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | | eb/2025 12:0 | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON R0 |)AD. AMBALA CANTT | REFORTING DATE | | ed/ 2023 12.0 | 041 101 | |
| | | , | | | | | |
| Fest Name | | Value | Uni | t | Biologica | al Reference | e interva |
| Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia | (e.g. ureter colostomy) ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportionat superimposed on renal dise | s) ININE LEVELS: ely more than creatin ease. | ine) (e.g. obstructive | uropathy). | | | |
| Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<' Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther | ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Id starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. | s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini se increase in creatini io). ine measurement). | cellular fluid). lar secretion of urea. ne). | | | nal ratio wher | n dehydra |
| A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1 | ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin ULAR FILTERATION RATE: DESCRIPT | s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function | cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90 | nodologies,resu | FINDINGS | nal ratio wher | n dehydra |
| Reduced muscle mu | ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fai creased BUN/creatinine rat apy (interferes with creatin ILAR FILTERATION RATE: Normal kidney Kidney damag | s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function | cellular fluid). lar secretion of urea. ne). ne with certain meth | nodologies,resu ASSOCIATEE No prot Presence o | FINDINGS einuria f Protein , | nal ratio wher | n dehydra |
| Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL G1 G2 | ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin pLAR FILTERATION RATE: Normal kidney Kidney damag normal or hig | s) ININE LEVELS: ely more than creatini- ease. : diffuses out of extrace absent in blood). harmone) due to tubu TININE: of creatine to creatini- io). ine measurement). ON GFR (n function ge with gh GFR | cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90 >90 | nodologies,resu ASSOCIATEE No prot | FINDINGS einuria f Protein , | nal ratio wher | n dehydra |
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









| | Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F | iology) ME | m Chopra D (Pathology) ht Pathologist |
|--------------------|--|--------------------------|---|
| NAME | : Miss. PRATIMA | | |
| AGE/ GENDER | : 24 YRS/FEMALE | PATIENT ID | : 1763762 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012502200004 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Feb/2025 08:45 AM |
| BARCODE NO. | : 01525805 | COLLECTION DATE | : 20/Feb/2025 08:49AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Feb/2025 12:04PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBAL | A CANTT | |
| Test Name | V | alue Unit | Biological Reference interval |

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated





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| | Dr. Vinay Cho MD (Pathology & Chairman & Cons | Microbiology) | ٢ | am Chopra ID (Pathology) ant Pathologist |
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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 20/Feb/2025 11:43AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | ENDOC | RINOLOGY | |
| | THY | YROID FUNC | TION TEST: TOTA | L |
| TRIIODOTHYRONII | NE (T3): SERUM SESCENT MICROPARTICLE IMMUNOAS | 0.74 SAY) | ng/ml | 0.35 - 1.93 |
| THYROXINE (T4): S by CMIA (CHEMILUMIN | ERUM IESCENT MICROPARTICLE IMMUNOAS | 6.08 SAY) | μgm/d | 4.87 - 12.60 |
| | TING HORMONE (TSH): SERU | | µIU/m | nL 0.35 - 5.50 |
| BY CMIA (CHEMILOMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : | | SAT) | | |
| day has influence on the triiodothyronine (T3).Fai | measured serum TSH concentrations. TSH | I stimulates the pr | oduction and secretion of the | 0 pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or |
| CLINICAL CONDITION | T3 | | T4 | TSH |
| Primary Hypothyroidis | | | Reduced | Increased (Significantly) |
| Subclinical Hypothyroi | dism: Normal or Low N | Normal | Normal or Low Normal | High |

| LIN | /III A | лю | NS:- |
|-----|--------|----|------|

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

| TRIIODOTHYRONINE (T3) | | THYROXINE (T4) | | THYROID STIMULATING HORMONE (TSH) | | |
|-----------------------|-----------------------------|-------------------|------------------------------|-----------------------------------|------------------------------|--|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (µg/dL) | Age | Reference Range (µIU/mL) | |
| 0-7 Days | 0.20 - 2.65 | 0 - 7 Days | 5.90 - 18.58 | 0 - 7 Days | 2.43 - 24.3 | |
| 7 Days - 3 Months | 0.36 - 2.59 | 7 Days - 3 Months | 6.39 - 17.66 | 7 Days - 3 Months | 0.58 - 11.00 | |
| 3 - 6 Months | 0.51 - 2.52 | 3 - 6 Months | 6.75 - 17.04 | 3 Days – 6 Months | 0.70 - 8.40 | |
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6-12 Months | 0.70 - 7.00 | |

Increased

Normal or High Normal





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| Test Name | | Value | Uni | t | Biological Reference interva | |
|---------------------|---------------|-----------------------|------------------|---------------------|------------------------------|--|
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11- 19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87- 13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35- 5.50 | |
| | RECON | /IMENDATIONS OF TSH L | EVELS DURING PRE | GNANCY (µIU/mL) | | |
| | 1st Trimester | | | 0.10 - 2.50 | | |
| | 2nd Trimester | | | 0.20 - 3.00 | | |
| | 3rd Trimester | | | 0.30 - 4.10 | | |

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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| Test Name | | Value | Unit | Biological Reference interval |
| | | CLINICAL PAT | THOLOGY | |
| | URINE RO | | SCOPIC EXAMINA | ATION |
| PHYSICAL EXAMIN | ATION | | | |
| QUANTITY RECIEVI | | 10 | ml | |
| by DIP STICK/REFLECT | TANCE SPECTROPHOTOMETRY | AMBER YELLO | ow | PALE YELLOW |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| TRANSPARANCY by DIP STICK/REFLECT | TANCE SPECTROPHOTOMETRY | CLEAR | | CLEAR |
| SPECIFIC GRAVITY | | <=1.005 | | 1.002 - 1.030 |
| CHEMICAL EXAMI | TANCE SPECTROPHOTOMETRY NATION | | | |
| REACTION | | ACIDIC | | |
| by DIP STICK/REFLECT | TANCE SPECTROPHOTOMETRY | Nogotivo | | NEGATIVE (-ve) |
| | TANCE SPECTROPHOTOMETRY | Negative | | |
| SUGAR | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| pH | | <=5.0 | | 5.0 - 7.5 |
| by DIP STICK/REFLECT BILIRUBIN | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| NITRITE by DIP STICK/REFLECT | TANCE SPECTROPHOTOMETRY. | Negative | | NEGATIVE (-ve) |
| UROBILINOGEN | | Normal | EU/dL | 0.2 - 1.0 |
| by DIP STICK/REFLECT KETONE BODIES | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| BLOOD by DIP STICK/REFLECT | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| ASCORBIC ACID by DIP STICK/REFLECT MICROSCOPIC EXA | TANCE SPECTROPHOTOMETRY | NEGATIVE (-v | re) | NEGATIVE (-ve) |
| RED BLOOD CELLS | | NEGATIVE (-v | re) /HPF | 0 - 3 |





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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| Test Name | | Value | Unit | Biological Reference interval |
| by MICROSCOPY ON C | CENTRIFUGED URINARY SEDIMENT | | | |
| PUS CELLS | CENTRIEUGED URINARY SEDIMENT | 1-2 | /HPF | 0 - 5 |

| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | | |
|---|----------------|------|----------------|
| EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 0-1 | /HPF | ABSENT |
| CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | ABSENT | | ABSENT |

** End Of Report ***





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