

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



Dr. Vinay Ch MD (Pathology & Chairman & Con			Pathology)
NAME : Miss. VANSHIKA			
AGE/ GENDER : 25 YRS/FEMALE		PATIENT ID	: 1604171
COLLECTED BY :		REG. NO./LAB NO.	: 012409060058
REFERRED BY :		REGISTRATION DATE	: 06/Sep/2024 02:00 PM
BARCODE NO. : 01516441		COLLECTION DATE	:06/Sep/202402:07PM
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Sep/2024 02:26PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SM	VASTHYA WE	LLNESS PANEL: 1.0	
	COMPLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC	15.9	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT	5.5 ^H	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ	48.5	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ	88.1	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ	29 ER	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by calculated by automated hematology analyz		g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ		%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ		fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	16.02	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	22.01	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8580	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZ DIFFERENTIAL LEUCOCYTE COUNT (DLC)	NIL ER	%	< 10 %
DITTERLINITAL LEUGOUTTE GOUNT (DLG)			



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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Miss. VANSHIKA AGE/ GENDER : 25 YRS/FEMALE **PATIENT ID** :1604171 **COLLECTED BY** :012409060058 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :06/Sep/2024 02:00 PM **BARCODE NO.** :01516441 **COLLECTION DATE** :06/Sep/2024 02:07PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Sep/2024 02:26PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 35 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4891 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 3003 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 172 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 515 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 249000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.3 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 102000^H 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 40.9 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.6 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Sep/2024 02:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDII	MENTATION RATE (ESP	2)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifi mmune disease, but 4 2. An ESR can be affect as C-reactive protein 3. This test may also b systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 6. Drugs such as dexti	does not tell the health practition ted by other conditions besides i matosus V ESR n with conditions that inhibit the ificantly high white blood cell cou e cell anaemia) also lower the ES protein (C-RP) are both markers s not change as rapidly as does CF by as many other factors as is ESR ed, it is typically a result of two ty e a higher ESR, and menstruation	ner exactly wher inflammation. For ty and response normal sedimer unt (leucocytosis R. of inflammation RP, either at the t , making it a bet ypes of proteins, and prognancy	e the inflammation is in the or this reason, the ESR is typ to therapy in both of the al ntation of red blood cells, su s), and some protein abnor start of inflammation or as tter marker of inflammation globulins or fibrinogen. can cause temporary eleva	on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such tit resolves.

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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	

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.
 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		209.02 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	129.37	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBITI		54.01	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		129.14	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		155.01 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		25.87	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	547.41	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	3.87	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by CALCULATED, SPE		2.39	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.4 ^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.

 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.
 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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HEALTHCARE & DIAGNOSTIC Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist CEO & Consultant Pathologist				
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Test Name		Value	Unit	Biological Reference interval
		LIVER FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: SI by diazotization, sf	ERUM PECTROPHOTOMETRY	1.07	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (C	CONJUGATED): SERUM	0.25	mg/dL	0.00 - 0.40

Dr. Vinay Chopra

BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.25	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.82	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	42.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	59.5 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	0.72	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	171.43 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	23.49	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.56	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.43	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.13	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.42	RATIO	1.00 - 2.00

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:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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Test Name		Value Unit	Biological Reference interval

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).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	EXCELLEN	CE IN HEALTHCARE & DIAGNOSTICS
logy) thologist		Dr. Yugam Chopra MD (Pathology) Consultant Pathologist
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Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pat

: Miss. VANSHIKA

Test Name	Value	Unit	Biological Reference interval
КІ	DNEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	15.7	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.81	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometry	7.34	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	9.06 ^L	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	19.38	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.62	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	10.01	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	2.38	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	140.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.11	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	105.07	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	103.2		

INTERPRETATION:

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.



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AGE / GENDER 25 YRS/FEMALE PATIENT ID 1604171 COLLECTED BY : REG.NO./LAB NO. :012409060058 REFERED BY : REGISTRATION DATE :06/Sep/2024 02:00 PM BARCODE NO. :01516441 COLLECTION DATE :06/Sep/2024 02:00 PM CILENT CODE :KOS DIAGNOSTIC LAB REPORTING DATE :06/Sep/2024 02:05 PM CILENT ADDRESS :6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval 3. GI haemorrhage. 4 Unit Biological Reference interval 4. High protein intake. 5. Impaired renal function plus 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, syngery, cacheska, high fever). 1. Unite reabsorption (e.g. ucter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) WREASED RATIO (2021) WITH ELEVATED CREATININE LEVELS: 1. Posternal azotemia uproposed on renal disease. 9. Cortain drugs (e.g. tetracycline, glucocorticoids) 1. Auste tubular necrosis. 9. Cortain drugs (urea rather than creatinine diffuses out of extracellular fluid). 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 9. Inherited hyperammonemias (urea is v			r Chopra ogy & Microbiology) Consultant Pathologist		gam Chopra MD (Pathology) Itant Pathologist	
CULLECTED BY :: REG. NO./LAB NO. :: 10.2409060058 REFERRED BY :: REGISTRATION DATE : 06/Sep/2024 02:00 PM BARCODE NO. ::01516411 COLLECTION DATE :: 06/Sep/2024 02:00 PM CLIENT CODE. :: KOS DIAGNOSTIC LAB REPORTING DATE :: 06/Sep/2024 02:058PM CLIENT ADDRESS :: :: :: 06/Sep/2024 02:058PM CLIENT ADDRESS :: <th>NAME</th> <th>: Miss. VANSHIKA</th> <th></th> <th></th> <th></th> <th></th>	NAME	: Miss. VANSHIKA				
REFEREND BY :: REGISTRATION DATE :: 06/Sep/2024 02:00 PM BARCODE NO. :::01516441 COLLECTION DATE :::06/Sep/2024 02:07PM CLIENT CODE :::050 DIAGNOSTIC LAB REPORTING DATE ::06/Sep/2024 02:07PM CLIENT ADDRESS ::6349/1, NICHOLSON ROAD, AMBALA CANTT :06/Sep/2024 02:58PM Test Name Value Unit Biological Reference interval 3. GI haemorrhage. : : : : 4. High protein intake. : : : : 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). : : 7. Urine reabsorption (e.g. ureter colostormy) : : : : 8. Gueded muscle mass (subnormal creatinine production) : : : : 9. Cartal drugs (e.g. tetracycline, glucocorticolds) : : : : 19. Obternal azotemia superimposed on renal disease. : : : : : 19. Cartal drugs (e.g. tetracycline, glucocorticolds) : : : : : 19. Obternal a	AGE/ GENDER	: 25 YRS/FEMALE	F	ATIENT ID	: 1604171	
REFEREND BY :: REGISTRATION DATE :: 06/Sep/2024 02:00 PM BARCODE NO. :::01516441 COLLECTION DATE :::06/Sep/2024 02:07PM CLIENT CODE :::050 DIAGNOSTIC LAB REPORTING DATE ::06/Sep/2024 02:07PM CLIENT ADDRESS ::6349/1, NICHOLSON ROAD, AMBALA CANTT :06/Sep/2024 02:58PM Test Name Value Unit Biological Reference interval 3. GI haemorrhage. : : : : 4. High protein intake. : : : : 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). : : 7. Urine reabsorption (e.g. ureter colostormy) : : : : 8. Gueded muscle mass (subnormal creatinine production) : : : : 9. Cartal drugs (e.g. tetracycline, glucocorticolds) : : : : 19. Obternal azotemia superimposed on renal disease. : : : : : 19. Cartal drugs (e.g. tetracycline, glucocorticolds) : : : : : 19. Obternal a	COLLECTED BY	:	I	REG. NO./LAB NO.	: 012409060058	
BARCODE NO. : 01516441 COLLECTION DATE : 06/Sep/2024 02:07PM CLIENT CODE: : KOS DIAGNOSTIC LAB REPORTING DATE : 06/Sep/2024 02:07PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interval 3. Gi haemorrhage. 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachekia, high fever). 1. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Gertain drugs (e.g. tetracycline, glucocorticolds) NICREASED RATIO (-20:1) WITH LEVATED CREATININE LEVELS: 1. Postnenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Perenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Perenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Perenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 3. Perenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 4. Orter demia superimposed on renal disease. DECEEASED RATIO (-10:1) WITH DECREASED BUN : 1. Acute tubular necrosis. 2. Acute tubular necrosis. 3. Severe liver disease. 5. Ropancy. DECEEASED RATIO (-10:1) WITH INCREASED CREATININE: 1. Phanadimide therapy (accelerates conversion of creatine to treatinine). 3. Bregnancy. DECEEASED RATIO (-10:1) WITH INCREASED CREATININE: 1. Phanadimide therapy (accelerate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehyd should produce an increased BUN/creatinine ratio). 3. Diabetic ktoacidosis (acetoactete causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehyd should produce an increased BUN/creatinine ratio). 3. Cephalosportin therapy (Interferes with certain me) PM
CLIENT CODE: : KOS DIAGNOSTIC LAB REPORTING DATE : (c/Sep/2024 02:58PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus 5. Impaired renal function plus 5. Seves protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production). 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUM rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUM rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUM rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUM rises disproportionately more than creatinine) (e.g. obstructive uropathy). 3. Severe liver disease. 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 6. Inherited hyperamonomemias (urea is virtually absent in blood). 7. Skapta (syntherementis) 8. Pregnano;		: 01516441				
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus 6. Impaired renal function plus 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein interval 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (Suri isse disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (Suri isse disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (Suri isse disproportionately more than creatinine) (e.g. obstructive uropathy). 3. Severe liver disases. 9. Comported RATIO (>10:1) WITH DECREASED BUN : 1. Acute tubular necrosis. 9. Severe liver disease. 4. Other causes of decreased urea synthesis. 9. Comparise 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 9. Inherited hyperamonomemias (urea is invitually absent in blocod).					•	
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3. Gl haemorrhage. 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (-20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 3. Potereal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 6. Inherited hyperammonemias (urea is virtually absent in blood). 7. SIADH (syndrome	CLIENT ADDRESS	: 6349/1, NICHOLSON RU	AD, AMBALA CAN I I			
4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (-20-1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Preneal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Preneal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Preneal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Preneal azotemia superimposed on renal disease. DECREASED RATIO (-10-10) WITH DECREASED BUN : 1. Acute tubular necrosis. 2. Low protein diet and starvation. 3. Severe liver disease. 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 6. Inherited hyperammonemias (urea is virtually absent in blood). 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea. 8.	Test Name		Value	Unit	Biological	Reference interval
2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR FILTERATION RATE: CKD STAGE DESCRIPTION G1 Normal kidney function >90 No proteinuria	 Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome e) Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido 	nd starvation. e. ccreased urea synthesis. (urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f 10:1) WITH INCREASED CREA apy (accelerates conversion of releases muscle creatinine). who develop renal failure. 0: osis (acetoacetate causes fais	absent in blood). harmone) due to tubula TININE: of creatine to creatinine se increase in creatinine	r secretion of urea.	dologies,resulting in norma	ıl ratio when dehydratio
CKD STAGEDESCRIPTIONGFR (mL/min/1.73m2)ASSOCIATED FINDINGSG1Normal kidney function>90No proteinuria	2. Cephalosporin the	rapy (interferes with creatini				
G1 Normal kidney function >90 No proteinuria			ON GFR (ml	/min/1.73m2)	ASSOCIATED FINDINGS]
						1
G2 Kidney damage with >90 Presence of Protein , normal or high GFR Albumin or cast in urine	G2	Kidney damag	je with	>90	Presence of Protein,	1

G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Miss. VANSHIKA		
AGE/ GENDER	: 25 YRS/FEMALE	PATIENT ID	: 1604171
COLLECTED BY	:	REG. NO./LAB NO.	: 012409060058
REFERRED BY	:	REGISTRATION DATE	: 06/Sep/2024 02:00 PM
BARCODE NO.	:01516441	COLLECTION DATE	: 06/Sep/2024 02:07PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 06/Sep/2024 02:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	
Test Name		Value 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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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Dr. Vinay ChopraDr. YugarMD (Pathology & Microbiology)MDChairman & Consultant PathologistCEO & Consultant			(Pathology)		
NAME	: Miss. VANSHIKA				
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Sep/2024 03:21PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			. 00/36p/2024 03.211 W	
Test Name		Value	Unit	Biological Refere	ence interval
	BETA H		RINOLOGY ANTITATIVE): MATERI	ΝΔΙ	
SERUM	REGNANCY MATERNAL:	< 1.20	mIU/mL	< 5.0	
INTERN RETATION.	MEN:		mIU/mI	< 2.0	
NO	ON PREGNANT PRE-MENOPAUSA	L WOMEN:	mIU/ml	< 5.0	
	MENOPAUSAL WOMEN	: ,	mIU/mI	< 7.0	
	BETA HCG EXPECTED VALUES	IN ACCORDANCE TO	O WEEKS OF GESTATIONAL	AGE	
	WEEKS OF GESTATION		Unit	Value	
	4-5		mIU/mI	1500 -23000	
	5-6		mIU/ml	3400 - 135300	
	6-7		mIU/ml	10500 - 161000	
	7-8		mIU/mI mIU/mI	18000 - 209000	
	9-10		miU/mi mIU/mi	37500 - 219000	
	10-11		miU/mi mIU/mi	42800 - 218000	
	10-11		mIU/ml	33700 - 218700	
	11-12		miU/mi mIU/mi	21800 - 193200	
				20300 - 166100	
	13-14		mIU/mI	15400 - 190000	
	2rd TRIMESTER 3rd TRIMESTER		mIU/ml	2800 - 176100	
	3IU IKIIVIESTER		mlU/ml	2800 - 144400	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) M	m Chopra D (Pathology) nt Pathologist
NAME	: Miss. VANSHIKA		
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Test Name		Value Unit	Biological Reference interval

1.hCG is a Glycoprotein with alpha and beta chains. Beta subunit is specific to hCG.

2.1t is largely secreted by trophoblastic tissue. Small amounts may be secreted by fetal tissues and by the adult ant pituitary.

INCREASED :

1.Pregnancy

2.Gestationalsite & Non gestational trophoblastic neoplasia.

3.In mixed germ cell tumors

SIGNIFICANTLY HIGHER THAN EXPECTED LEVEL:

1.Multiple pregnancies & High risk molar pregnancies are usually associated with levels in excess of one lac mIU/mI. 2.Erythroblastosis fetalis & Downs syndrome.

DECREASED:

1. Ectopic pregnancy

2.Intra-uterine fetal death.

NOTE:

1. The test becomes positive 7-9 days after the midcycle surge that precedes ovulation (time of blastocyst implantation). Blood levels rise rapidly after this and double every 1.4 - 2 days. 2. Peak values are usually seen at 60-80 days of LMP. The levels then begin to taper and ebb out around the 20th week. These low levels are then

maintained throughout pregnancy.

3. Doubling time: In intra-uterine pregnancy, serum hCG levels increase by approximately 66% every 48 hrs. Inappropriately rising serum hCG levels are suggestive of dying or ectopic pregnancy.

CAUTION:

Spuriously high levels (Phantom hCG) may be seen in presence of heterophilic antibodies (found in some normal people). If persistently raised levels are seen in a non-pregnant patient with no evidence of other obvious causes for such an increase a urine hCG assay may help confirm presence of the heterophile antibodies.





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Dr. Vinay Che MD (Pathology & Chairman & Cons			Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. VANSHIKA			
AGE/ GENDER	: 25 YRS/FEMALE	PATI	ENT ID	: 1604171
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 06/Sep/2024 03:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
		OUTINE & MICROS	COPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVEI		10	ml	
	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
				PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRT	HAZY		CLEAR
-	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	>=1.030		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	Newsters		
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=0.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	, i i i i i i i i i i i i i i i i i i i		
	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	ANUCE OFEUI KUPHUI UMEI RY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			、 <i>、</i>

MICROSCOPIC EXAMINATION



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

Page 14 of 15





Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Miss. VANSHIKA			
AGE/ GENDER	: 25 YRS/FEMALE	PATIEN	ГID	: 1604171
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	3-4	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ζ, γ		
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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