

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chc MD (Pathology & I Chairman & Const	Microbiology)		(Pathology)
NAME	: Mr. AJAY OBEROI			
AGE/ GENDER	: 55 YRS/MALE		PATIENT ID	: 1634029
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410040018
REFERRED BY	:		REGISTRATION DATE	: 04/Oct/2024 09:32 AM
BARCODE NO.	: 01518274		COLLECTION DATE	: 04/Oct/2024 09:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Oct/2024 10:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	ASTHYA WE	LLNESS PANEL: 1.2	
	C	OMPLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.8 ^L	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE	C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	3.45 ^L	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUN	1E (PCV)	34 ^L	%	40.0 - 54.0
MEAN CORPUSCULA		98.6	fL	80.0 - 100.0
	<i>utomated hematology analyzei</i> R HAEMOGLOBIN (MCH)	R 31.3	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZEI R HEMOGLOBIN CONC. (MCHC)	^R 31.7 ^L	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZE	R	-	
	ION WIDTH (RDW-CV) utomated hematology analyzei	14 R	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZEI	51.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		28.58	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	40.01	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ′ by sf cube & microscopy	6670	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZEI</i>	NIL R	%	< 10 %
DIFFERENTIAL LEUCO				



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AJAY OBEROI **AGE/ GENDER** : 55 YRS/MALE **PATIENT ID** :1634029 **COLLECTED BY** : SURJESH :012410040018 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :04/0ct/2024 09:32 AM : **BARCODE NO.** :01518274 **COLLECTION DATE** :04/0ct/2024 09:45AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :04/Oct/2024 10:05AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 26 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 12 % 2 - 12 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 3869 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 1734 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 267 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 800 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 /cmm 0.0 - 999.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) /cmm 68000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.10 - 0.36 % 0.08^L 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) 30000 - 90000 /cmm 27000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 42.5 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.7 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Value	e Unit	Biological Reference interval

RECHECKED





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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	D, AMBALA CANTT	
est Name		Value Unit	Biological Reference interval
		Value	biological Reference interval
	ERYT	THROCYTE SEDIMENTATION RATE (

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

 ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while exprise contrace and quiping may decrease it. aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMIST	RY/BIOCHEMISTR	Y
		GLUCOSE F	ASTING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA Se - peroxidase (god-pod)	79.24	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL TOTA by CHOLESTEROL OX		LIPID PROFII 129.61	.E : BASIC mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	111.48	mg/dL	HIGH CHOLESTEROL: > OR = 240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		35.88	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		71.43	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		93.73	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		22.3	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI	M	370.7	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	3.61	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		1.99	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/HDL by CALCULATED, SPE		3.11	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 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
	LIV	ER FUNCTION	I TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.66	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	С (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.45	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	24.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	28.3	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.85	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		125.41	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTRO	. TRANSFERASE (GGT): SERUM	24.66	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	7.12	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.77	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		3.35	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.13	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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





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INTERPRETATION





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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). **PROGNOSTIC SIGNIFICANCE:**

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



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Test Name		Value	Unit	Biological Reference interva
	KI	DNEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		78.14 ^H	mg/dL	10.00 - 50.00
-	MATE DEHYDROGENASE (GLDH)			0.40, 1.40
CREATININE: SERUN	N CTROPHOTOMETERY	2.65 ^H	mg/dL	0.40 - 1.40
BLOOD UREA NITRO	OGEN (BUN): SERUM	36.51 ^H	mg/dL	7.0 - 25.0
			DATIO	10.0
BLOOD UREA NITRO RATIO: SERUM	OGEN (BUN)/CREATININE	13.78	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		29.49	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		5.89	mg/dL	3.60 - 7.70
CALCIUM: SERUM	DE TENONIDAGE	8.95	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	5.70		0.00 .0.00
PHOSPHOROUS: SER		3.28	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
		140 7		
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	142.7	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.05	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUM by ISE (ION SELECTIV		107.03	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	27.6		
(eGFR): SERUM		27.0		
by CALCULATED				
INTERPRETATION:				

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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Test Name			Value	Unit	Biological	Reference interval
9. Certain drugs (e.g. NCREASED RATIO (>2	xia, high fever). (e.g. ureter colo ass (subnormal d tetracycline, glu 0:1) WITH ELEVA I (BUN rises dispr	stomy) creatinine production) cocorticoids) TED CREATININE LEVEL oportionately more th	S:		osis, Cushing's syndrom thy).	ne, nign protein diet,
 Vrine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of a pregnancy. 	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 10:1) WITH DECRE osis. ad starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a	stomy) creatinine production) cocorticoids) TED CREATININE LEVEL oportionately more th n renal disease. CASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d	S: an creatinine) (e.g. it of extracellular flu lood).	obstructive uropa iid).		ne, ngn protein diet,
 Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r 	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. d starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of	stomy) creatinine production) cocorticoids) TED CREATININE LEVEL oportionately more th n renal disease. CRSED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine).	S: an creatinine) (e.g. It of extracellular flu lood). ue to tubular secret	obstructive uropa iid).		ne, ngn protein diet,
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 4. Postrenal azotemia 5. Prerenal azotemia 6. Acute tubular necr 7. Low protein diet ar 7. Severe liver disease 6. Other causes of de 6. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 6. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (r 7. Muscular patients 7. NAPPROPIATE RATIO 7. Diabetic ketoacido 7. Static ketoacido	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 10:1) WITH DECRE osis. d starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate	stomy) creatinine production) cocorticoids) TED CREATININE LEVEL oportionately more th n renal disease. CRSED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). tal failure.	S: an creatinine) (e.g. It of extracellular flu lood). ue to tubular secret to creatinine).	obstructive uropa iid). ion of urea.	thy).	al ratio when dehydratic
 Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in 	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. ad starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate creased BUN/cre apy (interferes v	stomy) creatinine production) cocorticoids) TED CREATININE LEVEL coportionately more the n renal disease. CREATININE creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE : onversion of creatine reatinine). tal failure. e causes false increase catinine ratio).	S: an creatinine) (e.g. it of extracellular flu lood). ue to tubular secret to creatinine). in creatinine with c	obstructive uropa iid). ion of urea.	thy).	
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 2. Postrenal azotemia 3. Prerenal azotemia 3. Prerenal azotemia 4. Acute tubular necr 5. Low protein diet ar 6. Severe liver disease 6. Other causes of de 6. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 6. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (r 7. Muscular patients 7. Muscular patients 7. Diabetic ketoacido 7. Cephalosporin ther 7. STIMATED GLOMERL	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. ad starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate creased BUN/cre apy (interferes v	stomy) cocorticoids) TED CREATININE LEVEL coportionately more the n renal disease. CASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). al failure. e causes false increase e atinine ratio). vith creatinine measure IRATE:	S: an creatinine) (e.g. it of extracellular flu lood). ue to tubular secret to creatinine). in creatinine with c ement).	obstructive uropa nid). ion of urea. ertain methodolo	thy). ogies,resulting in norma	
. Urine reabsorption . Reduced muscle m . Certain drugs (e.g. VCREASED RATIO (>2 . Postrenal azotemia DECREASED RATIO (<1 . Acute tubular necr . Low protein diet ar . Severe liver disease . Other causes of de . Repeated dialysis (. Inherited hyperam . SIADH (syndrome c . Pregnancy. DECREASED RATIO (<1 . Phenacimide thera . Rhabdomyolysis (r . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido hould produce an in . Cephalosporin ther STIMATED GLOMERL CKD STAGE	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. ad starvation. e. creased urea syr urea rather than monemias (urea of inappropiate a lo:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate creased BUN/cre apy (interferes w ULAR FILTERATION	stomy) cocorticoids) TED CREATININE LEVEL coportionately more the n renal disease. CASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). tal failure. e causes false increase tatinine ratio). vith creatinine measure I RATE: DESCRIPTION	S: an creatinine) (e.g. it of extracellular flu lood). ue to tubular secret to creatinine). in creatinine with c ement). GFR (mL/min/1	obstructive uropa nid). ion of urea. ertain methodolo	thy). ogies,resulting in norma SOCIATED FINDINGS	
A Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Postrenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Severe liver disease Other causes of de SiADH (syndrome c SIADH (syndrome c Repaated dialysis (r Phenacimide thera Rhabdomyolysis (r NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther	xia, high fever). (e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises disprisuperimposed of 10:1) WITH DECRE osis. ad starvation. 2. creased urea syrure a syrure a rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop rerti- sis (acetoacetated creased BUN/creation apy (interferes with a starvation) LAR FILTERATION Normation (starvation) (interferes with a starvation) (interferes with a starvation)	stomy) cocorticoids) TED CREATININE LEVEL coportionately more the n renal disease. CASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). al failure. e causes false increase e atinine ratio). vith creatinine measure IRATE:	S: an creatinine) (e.g. it of extracellular flu lood). ue to tubular secret to creatinine). in creatinine with c ement).	bbstructive uropa nid). ion of urea. ertain methodolo 73m2) AS	thy). ogies,resulting in norma	

G3b

G4

G5

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

Moderate decrease in GFR

Severe decrease in GFR

Kidney failure

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

30-59

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. AJAY OBEROI		
AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1634029
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	:012410040018
REFERRED BY	:	REGISTRATION DATE	: 04/Oct/2024 09:32 AM
BARCODE NO.	:01518274	COLLECTION DATE	: 04/Oct/2024 09:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:04/Oct/2024 12:56PM
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

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 & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. AJAY OBEROI			
AGE/ GENDER	: 55 YRS/MALE		PATIENT ID	: 1634029
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BARCODE NO.	: 01518274		COLLECTION DATE	:04/Oct/202409:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:04/Oct/2024 10:51AM
Test Name				Biological Reference interval
		ENDO	CRINOLOGY	
	TH	IYROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM iescent microparticle immunoass	0.694 <i>AY</i>)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoass	5.88 AY)	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels b	e <i>tween 2-4 a.m a</i> stimulates the pr	roduction and secretion of the m	0.35 - 5.50 <i>m. The variation is of the order of 50%.Hence time of t</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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.

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	ODOTHYRONINE (T3) THYROXINE (T4) THYROID STIMULATING HORM(THYROXINE (T4)		ATING 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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY OBEROI			
AGE/ GENDER	: 55 YRS/MALE	РАТ	IENT ID	: 1634029
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
6 - 12 Months 0	74 - 2.40 6 - 12 Months	7.10 - 16.16	- 12 Months 0.70) - 7.00

						J · · · ·
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREGN	IANCY (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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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		& Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)
NAME	: Mr. AJAY OBEROI			
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		Value	Linit	
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE	ROUTINE & MICROSCO	PIC EXAMINAT	ION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVE)	10	ml	
	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
	COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	1.02		1 002 1 020
SPECIFIC GRAVITY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1+		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	17		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY			
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
,	TANCE SPECTROPHOTOMETRY.		5117.11	
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Nogativo		
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION

77 ~ 10

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

NAME	: Mr. AJAY OBEROI				
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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (I by MICROSCOPY ON	RBCs) Centrifuged urinary sediment	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT