

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chopra MD (Pathology & Micr	obiology)		(Pathology)
	Chairman & Consultan	it Pathologisi	t CEO & Consultant	: Pathologist
NAME	: Mrs. VEENA WADHAWAN			
AGE/ GENDER	: 73 YRS/FEMALE		PATIENT ID	: 1675915
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411190029
REFERRED BY	:		REGISTRATION DATE	: 19/Nov/2024 11:30 AM
BARCODE NO. CLIENT CODE.	: 01521081 : KOS DIAGNOSTIC LAB		COLLECTION DATE	: 19/Nov/2024 11:37AM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/		REPORTING DATE	: 19/Nov/2024 11:47AM
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA WI	ELLNESS PANEL: G	
	COMP	PLETE BL	DOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	15.9	gm/dL	12.0 - 16.0
RED BLOOD CELL (R	BC) COUNT	5.92 ^H	Millions/	/cmm 3.50 - 5.00
ACKED CELL VOLU		50.3 ^H	%	37.0 - 50.0
MEAN CORPUSCULA		85.1	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	26.8 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA by calculated by au	R HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV) TOMATED HEMATOLOGY ANALYZER	14.4	%	11.00 - 16.00
	TION WIDTH (RDW-SD) ITOMATED HEMATOLOGY ANALYZER	45.8	fL	35.0 - 56.0
MENTZERS INDEX		14.38	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDI by Calculated WHITE BLOOD CEL		20.66	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
FOTAL LEUCOCYTE		7550	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ cinin	
	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED BL	OOD CELLS (nRBCS) % TOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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

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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval

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

rest name	value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	56	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	27	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	13 ^H	%	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	4228	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2038	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	302	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	982 ^H	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	167000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.22	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	79000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	47.5 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	17.1 ^H	%	15.0 - 17.0



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			T T •4	
Test Name		Value	Unit	Biological Reference interval
Test Name	GLY	Value (COSYLATED HAEMOG)		Biological Reference interval
	GLY MOGLOBIN (HbA1c):			4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI		COSYLATED HAEMOG	LOBIN (HBA1C)	0
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	COSYLATED HAEMOG 6.8 ^H 148.46 ^H	LOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA):	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI NTERPRETATION: RI Non diat	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE Non diat At	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 7 – 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE Non diat At	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 .7 – 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE Non diat At	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 7 - 6.4 >= 6.5 > 19 Years	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE Non diat At Dia	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) Ignosing Diabetes	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE 5 Age Goals of Therapy:	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 7-6.4 >= 6.5 > 19 Years < 7.0	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAG by HPLC (HIGH PERFORI INTERPRETATION: RE Non diat At Dia	EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	COSYLATED HAEMOG 6.8 ^H 148.46 ^H BETES ASSOCIATION (ADA): GLYCOSYLATED HE 5 Age Goals of Therapy: Actions Suggested:	LOBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 7 - 6.4 >= 6.5 > 19 Years	4.0 - 6.4 60.00 - 140.00

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 4.High appropiate.

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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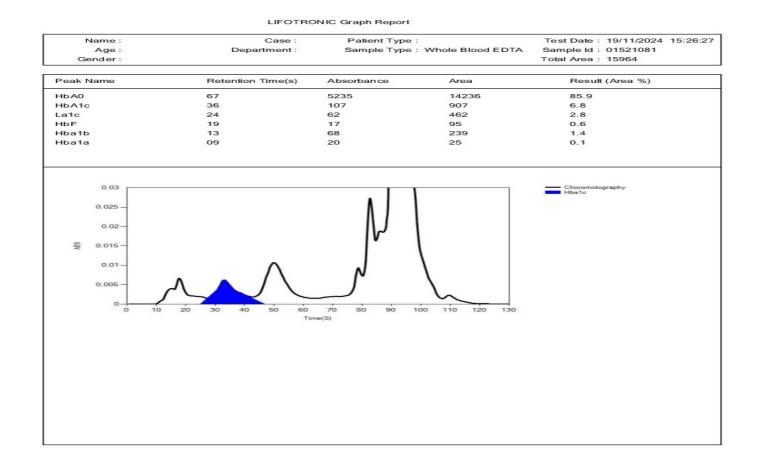


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Test Name		Value Unit	Biological Reference interva





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est Name			Value	Unit	Biological Reference interval
mmune disease, but 2. An ESR can be affe is C-reactive protein	GATION BY CAPIL ic test because does not tell th cted by other co	LARY PHOTOMETRY an elevated result e health practition onditions besides i	7 often indicates there exactly where inflammation. For	the inflammation is in the this reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such
by RED CELL AGGRE NTERPRETATION: . ESR is a non-specif mmune disease, but . An ESR can be affe s C-reactive protein . This test may also ystemic lupus eryth CONDITION WITH LO . Iow ESR can be see polycythaemia), sigr s sickle cells in sick IOTE: . ESR and C - reactive	GATION BY CAPIL ic test because does not tell th cted by other c be used to mon ematosus W ESR n with conditio nificantly high w e cell anaemia) e protein (C-RP)	an elevated result the health practition onditions besides i itor disease activition that inhibit the phite blood cell col- also lower the ES are both markers	7 often indicates the ner exactly where inflammation. For ty and response to normal sediment unt (leucocytosis) iR. of inflammation.	mm/1st the presence of inflammat the inflammation is in the this reason, the ESR is ty therapy in both of the a ation of red blood cells, s	hr 0 - 20 ton associated with infection, cancer and auto- a 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





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CLIENT CODE.	: KOS DIAGNOSTIC I	AB REP	ORTING DATE	: 19/Nov/2024 12:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSC	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMISTRY	Y/BIOCHEMIST	'RY
		GLUCOSE FAS	STING (F)	
GLUCOSE FASTING	G (F): PLASMA E - peroxidase (god-po	146.68 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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	E : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXIDA		113.29	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERI		124.09	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITION	DIRECT): SERUM	34.74	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPECTF		53.73	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 CHOLESTER by CALCULATED, SPECTE		78.55	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:		24.82	mg/dL	0.00 - 45.00
by CALCULATED, SPECTF TOTAL LIPIDS: SERUM by CALCULATED, SPECTF	1	350.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPECTE	ATIO: SERUM	3.26	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		1.55	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.57	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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BARCODE NO.	:01521081	CO	LLECTION DATE	: 19/Nov/2024 11:37AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	EPORTING DATE	: 19/Nov/2024 12:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIVER		'EST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SP		0.72	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.27	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.45	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	111.2 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY		80.6 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SE	ERUM	1.38	RATIO	0.00 - 46.00
ALKALINE PHOSPH		170.17 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYI by SZASZ, SPECTROP	L TRANSFERASE (GGT): SERUM HTOMETRY	220.46 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: S		7.28	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GF	REEN	3.87	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.41	gm/dL	2.30 - 3.50
	_			

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

A : G RATIO: SERUM

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)

1.13





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

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

RATIO

1.00 - 2.00

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	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) MD	(Pathology)
NAME	: Mrs. VEENA WADHAWAN		
AGE/ GENDER	: 73 YRS/FEMALE	PATIENT ID	: 1675915
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411190029
REFERRED BY	:	REGISTRATION DATE	: 19/Nov/2024 11:30 AM
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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



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

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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. VEENA WADHAWAN			
AGE/ GENDER	: 73 YRS/FEMALE	P	ATIENT ID	: 1675915
COLLECTED BY	: SURJESH		EG. NO./LAB NO.	: 012411190029
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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM	MATE DEHYDROGENASE (GLDH)	30.75	mg/dL	10.00 - 50.00
CREATININE: SER	UM	0.93	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC	CTROPHOTOMETERY ROGEN (BUN): SERUM	14.37	mg/dI	7.0 - 25.0
	ECTROPHOTOMETRY	14.57	mg/dL	7.0 - 23.0
	ROGEN (BUN)/CREATININE	15.45	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPI	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	33.06	RATIO	
by CALCULATED, SPI	ECTROPHOTOMETRY 1	8.02 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDAS				
CALCIUM: SERUM	ECTROPHOTOMETRY	9.96	mg/dL	8.50 - 10.60
PHOSPHOROUS: SI		2.61	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY		J	
ELECTROLYTES SODIUM: SERUM		145		125.0 150.0
by ISE (ION SELECTIN	/E ELECTRODE)	145	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.58	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUM		108.75	mmol/L	90.0 - 110.0
by ISE (ION SELECTI)	/E ELECTRODE)			
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	IERULAR FILTERATION RATE	64.9		
by CALCULATED				
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.

3. GI haemorrhage.



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	MD (Pa	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
IAME	: Mrs. VEENA WADH	AWAN				
AGE/ GENDER	: 73 YRS/FEMALE		PATIENT I	D	: 1675915	
COLLECTED BY	: SURJESH		REG. NO./L	AB NO.	:01241119002	29
REFERRED BY				FION DATE	: 19/Nov/2024 1	
BARCODE NO.	:01521081		COLLECTIO		: 19/Nov/2024 1	
CLIENT CODE.	: KOS DIAGNOSTIC L	٨D				
			REPORTIN	GDAIE	: 19/Nov/2024 1	.2.33PM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N KUAD, AMBALA	CANTI			
Fest Name		Va	lue	Unit	Biologi	ical Reference interval
9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia	(e.g. ureter colostomy) ass (subnormal creatin tetracycline, glucocort 0:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena	ine production) coids) EATININE LEVELS: onately more thar	ı creatinine) (e.g. obs	tructive uropa	ithy).	
 Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin their 	ass (subnormal creatin tetracycline, glucocorti 0:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. Ind starvation. 2. creased urea synthesis urea rather than creatin monemias (urea is virtu of inappropiate antidiur 0:1) WITH INCREASED (py (accelerates converse eleases muscle creatin who develop renal failut creased BUN/creatinin apy (interferes with creatinin apy (interferes with creatin)	ine production) coids) EATININE LEVELS: onately more than disease. BUN : BUN : Cally absent in blo etic harmone) due EREATININE: sion of creatine to ne). ure. ES false increase in e ratio). eatinine measurem ERIPTION	of extracellular fluid) od). to tubular secretion creatinine). creatinine with certa	of urea. ain methodolo m2) AS	ogies,resulting in nor SOCIATED FINDINGS No proteinuria resence of Protein ,	
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia PecREASED RATIO (<' Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. PECREASED RATIO (<' Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI G1 G2 	ass (subnormal creatin tetracycline, glucocorti 0:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. ad starvation. 2. creased urea synthesis urea rather than creatin monemias (urea is virtu of inappropiate antidiur 0:1) WITH INCREASED (py (accelerates converse eleases muscle creatin who develop renal failut : sis (acetoacetate cause creased BUN/creatinin apy (interferes with creatinin apy (interferes with creatin) apy (interferes with creatin)	ine production) coids) EATININE LEVELS: onately more than disease. BUN : BUN : Cally absent in blo etic harmone) due EREATININE: sion of creatine to ne). ure. Es false increase in e ratio). eatinine measurem ERIPTION Iney function amage with or high GFR	of extracellular fluid) od). e to tubular secretion creatinine). creatinine with certa nent). <u>GFR (mL/min/1.73</u> >90 >90	of urea. ain methodolo m2) AS	ogies,resulting in nor SOCIATED FINDINGS No proteinuria	
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 creatin tetracycline, glucocorti 0:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. ad starvation. 2. creased urea synthesis urea rather than creatin monemias (urea is virtu of inappropiate antidiur 0:1) WITH INCREASED (py (accelerates converse eleases muscle creatin who develop renal failu creased BUN/creatinin apy (interferes with creating apy (interferes with crea	ine production) coids) EATININE LEVELS: onately more than disease. BUN : BUN : Cally absent in blo etic harmone) due EREATININE: sion of creatine to ne). ure. Stalse increase in e ratio). eatinine measurem CRIPTION Iney function amage with or high GFR ease in GFR	of extracellular fluid) od). e to tubular secretion creatinine). creatinine with certa nent). <u>GFR (mL/min/1.73</u> >90 >90 60 -89	of urea. ain methodolo m2) AS	ogies,resulting in nor SOCIATED FINDINGS No proteinuria resence of Protein ,	
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		Value Unit	Biological Reference interval
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NAME	: Mrs. VEENA WADHAWAN		
	MD (Pathology & I Chairman & Const	e, ,	D (Pathology) nt Pathologist
	Dr. Vinay Cho		m Chopra

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

End Of Report ***





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