



Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar		obiology)		(Pathology)
AME	: Mr. RAJESH CHHABRA			
GE/ GENDER	: 59 YRS/MALE		PATIENT ID	: 1666327
OLLECTED BY	:		REG. NO./LAB NO.	: 012411090037
EFERRED BY	:		REGISTRATION DATE	: 09/Nov/2024 11:59 AM
ARCODE NO.	: 01520426		COLLECTION DATE	: 09/Nov/2024 12:08PM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Nov/2024 12:37PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
fest Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: 1.	D
ED BLOOD CELL	COMP 5 (RBCS) COUNT AND INDICES		DOD COUNT (CBC)	
IAEMOGLOBIN (H		11.3 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC			Ũ	
ED BLOOD CELL (by hydro dynamic f	RBC) COUNT	3.8	Millions	/cmm 3.50 - 5.00
ACKED CELL VOL		35 ^L	%	40.0 - 54.0
IEAN CORPUSCUL	AR VOLUME (MCV)	92	fL	80.0 - 100.0
-	AUTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	29.5	pg	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	32		32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER	32	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	16.1 ^H	%	11.00 - 16.00
ED CELL DISTRIB	UTION WIDTH (RDW-SD)	55.5	fL	35.0 - 56.0
IENTZERS INDEX		24.21	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
REEN & KING INI	DEX	38.67	RATIO	BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
		4790	/cmm	4000 - 11000
VHITE BLOOD CE OTAL LEUCOCYTE				
OTAL LEUCOCYTH by flow cytometry IUCLEATED RED F	Y BY SF CUBE & MICROSCOPY BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
OTAL LEUCOCYTE by flow cytometry IUCLEATED RED E by automated 6 pai	Y BY SF CUBE & MICROSCOPY	NIL NIL	%	0.00 - 20.00 < 10 %





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

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NAME



Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) : Mr. RAJESH CHHABRA

CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	49 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	31	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	11 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2347	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1485	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	527 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	431	/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	127000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.13	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	39000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	31.4	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.7	%	15.0 - 17.0





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Test Name	Valu	le Unit	Biological Reference interval

RECHECKED



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IENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
<i>y RED CELL AGGRE</i> TERPRETATION: ESR is a non-specif mune disease, but	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR fic test because an elevated result does not tell the health practition	t often indicates the ner exactly where th	mm/1st presence of inflammat e inflammation is in th	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it.
by RED CELL AGGRE ITERPRETATION: . ESR is a non-specifind nmune disease, but . An ESR can be affe s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR fic test because an elevated result does not tell the health practition ected by other conditions besides be used to monitor disease activi ematosus W ESR	77^H t often indicates the her exactly where th inflammation. For th ty and response to t	mm/1st presence of inflammat e inflammation is in th his reason, the ESR is ty herapy in both of the a	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
by RED CELL AGGRE STERPRETATION: . ESR is a non-specify nmune disease, but . An ESR can be affect s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be see polycythaemia), sign s sickle cells in sick OTE: . ESR and C - reactive	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR does not tell the health practition acted by other conditions besides be used to monitor disease activi ematosus W ESR in with conditions that inhibit the hificantly high white blood cell co le cell anaemia) also lower the ES re protein (C-RP) are both markers	77H often indicates the her exactly where th inflammation. For th ty and response to th normal sedimentat unt (leucocytosis), SR. of inflammation.	mm/1st presence of inflammat e inflammation is in th is reason, the ESR is ty herapy in both of the a on of red blood cells, s and some protein abno	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically 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 (suc
by RED CELL AGGRE NTERPRETATION: . ESR is a non-specifi nmune disease, but . An ESR can be affet s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO . Iow ESR can be see bolycythaemia), sign s sickle cells in sick IOTE: . ESR and C - reactive . Generally, ESR doe . If the ESR is elevat . Women tend to ha . Drugs such as dexi	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY fic test because an elevated result does not tell the health practition ected by other conditions besides be used to monitor disease activi ematosus W ESR in with conditions that inhibit the hificantly high white blood cell co le cell anaemia) also lower the ES es not change as rapidly as does C I by as many other factors as is ESF ed, it is typically a result of two ty we a higher ESR, and menstruation	77H Y t often indicates the her exactly where th inflammation. For th ty and response to th normal sedimentat unt (leucocytosis), SR. of inflammation. RP, either at the sta R, making it a better ypes of proteins, glo n and pregnancy car	mm/1st presence of inflammat e inflammation is in th his reason, the ESR is ty herapy in both of the a on of red blood cells, s and some protein abno trt of inflammation or a marker of inflammation bulins or fibrinogen.	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically 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 (suc s it resolves. n.
by RED CELL AGGRE ITERPRETATION: ESR is a non-specify mune disease, but An ESR can be affect is c-reactive protein This test may also vstemic lupus eryth DNDITION WITH LO Iow ESR can be see bolycythaemia), sign is sickle cells in sick OTE: ESR and C - reactive Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dexi	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY fic test because an elevated result does not tell the health practition ected by other conditions besides be used to monitor disease activi ematosus W ESR en with conditions that inhibit the hificantly high white blood cell co le cell anaemia) also lower the ES re protein (C-RP) are both markers as not change as rapidly as does C I by as many other factors as is ESF ed, it is typically a result of two ty we a higher ESR, and menstruation tran, methyldopa, oral contracept	77H Y t often indicates the her exactly where th inflammation. For th ty and response to th normal sedimentat unt (leucocytosis), SR. of inflammation. RP, either at the sta R, making it a better ypes of proteins, glo n and pregnancy car	mm/1st presence of inflammat e inflammation is in th his reason, the ESR is ty herapy in both of the a on of red blood cells, s and some protein abno trt of inflammation or a marker of inflammation bulins or fibrinogen.	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically 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 (suc s it resolves. n.
by RED CELL AGGRE ITERPRETATION: ESR is a non-specify mune disease, but An ESR can be affect is c-reactive protein This test may also vstemic lupus eryth DNDITION WITH LO Iow ESR can be see bolycythaemia), sign is sickle cells in sick OTE: ESR and C - reactive Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dexi	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY fic test because an elevated result does not tell the health practition ected by other conditions besides be used to monitor disease activi ematosus W ESR en with conditions that inhibit the hificantly high white blood cell co le cell anaemia) also lower the ES re protein (C-RP) are both markers as not change as rapidly as does C I by as many other factors as is ESF ed, it is typically a result of two ty we a higher ESR, and menstruation tran, methyldopa, oral contracept	77H Y t often indicates the her exactly where th inflammation. For th ty and response to th normal sedimentat unt (leucocytosis), SR. of inflammation. RP, either at the sta R, making it a better ypes of proteins, glo n and pregnancy car	mm/1st presence of inflammat e inflammation is in th his reason, the ESR is ty herapy in both of the a on of red blood cells, s and some protein abno trt of inflammation or a marker of inflammation bulins or fibrinogen.	hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. pically 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 (suc s it resolves. n.





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Test Name			Value	Unit	Biological Reference interval
		CLINIC	AL CHEMISTI	RY/BIOCHEMIST	'RY
			GLUCOSE FA	ASTING (F)	
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (go	D-POD)	110.62 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



MI	r. Vinay Chopra D (Pathology & Microbiology) nairman & Consultant Pathologis	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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CLIENT ADDRESS : 6349/1, NICHO	DLSON ROAD, AMBALA CANTT		
Fest Name	Value	Unit	Biological Reference interval
	I IDIN DR	OFILE : BASIC	
HOLESTEROL TOTAL: SERUM	113.19		OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	115.19	mg/dL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM	70.13	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZ	YMATIC)		BORDERLINE HIGH: 150.0 -
			199.0 HIGH: 200.0 - 499.0
			VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL (DIRECT): SERU	JM 36.8	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
by office in the manual for			60.0
			HIGH HDL: $> OR = 60.0$
.DL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	62.36	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
			BORDERLINE HIGH: 130.0 -
			159.0 HIGH: 160.0 - 189.0
			VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM	76.39	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
/LDL CHOLESTEROL: SERUM	14.03	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTROPHOTOMETRY	,		
COTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	296. 51 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM	1 3.08	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
			HIGH RISK: > 11.0
12763.8% IT		Λ	



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		sultant Pathologist	CEO & Consultant	
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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.69	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	1.91 ^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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL:		FUNCTION	T TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.45 ^H	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.72	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		37.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM		21.6	U/L	0.00 - 49.00
AST/ALT RATIO: SI	ERUM	1.73	RATIO	0.00 - 46.00
ALKALINE PHOSPH		217.63 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	71.74 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	8.04 ^H	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.21	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE	I	3.83 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.1	RATIO	1.00 - 2.00

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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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	



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

MBBS, MD (PATHOLOGY)

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SU 9001 : 2008 CERT	IFIED LAB		EXCELLENCE IN HEALTHCARE & D	11461031103
	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam (MD (P CEO & Consultant Pa	athology)
NAME	: Mr. RAJESH CHHABRA			
AGE/ GENDER	: 59 YRS/MALE	PAT	IENT ID	: 1666327
COLLECTED BY	:	REG.	NO./LAB NO.	:012411090037
REFERRED BY	:	REG	STRATION DATE	:09/Nov/2024 11:59 AM
BARCODE NO.	:01520426	COLI	LECTION DATE	:09/Nov/2024 12:08PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	:09/Nov/202401:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION T	EST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	33.43	mg/dL	10.00 - 50.00
CREATININE: SER		1.42 ^H	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC				70 250
	ROGEN (BUN): SERUM	15.62	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	11	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED. SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	23.54	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY 1	6.32	mg/dL	3.60 - 7.70
by URICASE - OXIDAS				
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.82	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH	ERUM	3.63	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLITES</u> SODIUM: SERUM		144.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	144.3	IIIII01/ L	133.0 - 130.0
POTASSIUM: SERU		4.46	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM		108.23	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)			
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	56.9		
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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		Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist				
IAME	: Mr. RAJESH	CHHABRA						
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OLLECTED BY	:		REG.	NO./LAB NO.	:0124110)90037		
EFERRED BY				STRATION DAT		2024 11:59 A	м	
ARCODE NO.	: 01520426			ECTION DATE		2024 11:00 M		
LIENT CODE.	: KOS DIAGNO			ORTING DATE	: 09/100//2	2024 01:31Pl	IVI	
LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	ALA CANTT					
Fest Name			Value	Unit	Bi	iological Re	eference int	erval
NCREASED RATIO (>2 . Postrenal azotemia	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp	TED CREATININE LEVE roportionately more t	LS:	.g. obstructive u	ropathy).			
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis Nherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI CKD STAGE	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. and starvation. te. creased urea syl urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cm apy (interferes of JLAR FILTERATIO	cocorticoids) TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : the creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase extinine ratio). vith creatinine measu N RATE: DESCRIPTION	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine wit rement). GFR (mL/mit	r fluid). cretion of urea. ch certain metho n/1.73m2)	odologies,resulting	DINGS	atio when del	nydratio
VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. Ind starvation. tetracycline a syl (urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cr apy (interferes JLAR FILTERATIO	cocorticoids) ITED CREATININE LEVE roportionately more t n renal disease. EASED BUN : In thesis. In creatinine diffuses of is virtually absent in Intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu N RATE: DESCRIPTION mal kidney function	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine wit rement). GFR (mL/min >9(r fluid). cretion of urea. ch certain metho n/1.73m2)	odologies,resulting ASSOCIATED FINE No proteinur	DINGS	atio when del	nydratio
VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia PCREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. PCREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI CKD STAGE	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. and starvation. te. creased urea syl urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cr apy (interferes JLAR FILTERATIO	cocorticoids) TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : the creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase extinine ratio). vith creatinine measu N RATE: DESCRIPTION	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine wit rement). GFR (mL/mit	r fluid). cretion of urea. ch certain metho n/1.73m2)	odologies,resulting	DINGS ia tein ,	atio when del	hydratio
VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin ther STIMATED GLOMERI G1 G2 G3a	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. and starvation. e. creased urea syl urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cm apy (interferes v <u>JLAR FILTERATIO</u> Nor Ki Nor	cocorticoids) TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : the thesis. the creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase extinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine with rement). GFR (mL/min >9(>9(>9(r fluid). cretion of urea. ch certain metho n/1.73m2)	odologies,resulting ASSOCIATED FINE No proteinur Presence of Prot	DINGS ia tein ,	atio when del	nydratio
VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin ther STIMATED GLOMERI G1 G2 G3a G3b	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu superimposed of tetracycline, glu tetracycline,	cocorticoids) TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : the creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase extinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR Id decrease in GFR erate decrease in GFR	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine with rement). GFR (mL/min >9(>9(>9(r fluid). cretion of urea. ch certain metho n/1.73m2)	odologies,resulting ASSOCIATED FINE No proteinur Presence of Prot	DINGS ia tein ,	atio when del	nydratio
VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin ther STIMATED GLOMERI G1 G2 G3a	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu superimposed of tetracycline, glu tetracycline,	cocorticoids) TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : the thesis. the creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase extinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	LS: han creatinine) (e ut of extracellular blood). due to tubular sec to creatinine). e in creatinine with rement). GFR (mL/min >9(>9(>9(r fluid). cretion of urea. ch certain metho <u>n/1.73m2)</u> 0 0 89 59	odologies,resulting ASSOCIATED FINE No proteinur Presence of Prot	DINGS ia tein ,	atio when del	nydratio





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COLLECTED BY	:	REG. NO./LAB NO.	: 012411090037
REFERRED BY	:	REGISTRATION DATE	: 09/Nov/2024 11:59 AM
BARCODE NO.	: 01520426	COLLECTION DATE	: 09/Nov/2024 12:08PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Nov/2024 01:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name		/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 Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJESH CHHABRA			
AGE/ GENDER	: 59 YRS/MALE	PA	FIENT ID	: 1666327
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012411090037
REFERRED BY	:		GISTRATION DATE	: 09/Nov/2024 11:59 AM
BARCODE NO. CLIENT CODE.	: 01520426 : KOS DIAGNOSTIC LAB		LLECTION DATE PORTING DATE	: 09/Nov/2024 12:08PM : 09/Nov/2024 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN		FURTING DATE	. 09/ N0V/ 2024 12.26FM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
	URINE ROU	TINE & MICRO	SCOPIC EXAMINA	ATION
PHYSICAL EXAMI	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELL	ow	PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
	TANCE SPECTROPHOTOMETRY	IAL I		
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		ACIDIC		
PROTEIN	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	0		
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.		EU/dL	
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/ aL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		1+		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-•	ve)	NEGATIVE (-ve)
MICROSCOPIC EX RED BLOOD CELLS		8-10	/HPF	0 - 3
	CENTRIFUGED URINARY SEDIMENT			





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



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

NAME	: Mr. RAJESH CHHABRA			
AGE/ GENDER	: 59 YRS/MALE		PATIENT ID	: 1666327
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BARCODE NO.	: 01520426		COLLECTION DATE	:09/Nov/2024 12:08PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:09/Nov/2024 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10	/ 111 1	0 0
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/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



am

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

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Page 14 of 16





	ME	r. Vinay Chopra D (Pathology & Microbiology) airman & Consultant Patholog		(Pathology)
NAME	: Mr. RAJESH CH	IHABRA		
AGE/ GENDER	: 59 YRS/MALE		PATIENT ID	: 1666327
COLLECTED BY	:		REG. NO./LAB NO.	: 012411090037
REFERRED BY	:		REGISTRATION DATE	: 09/Nov/2024 11:59 AM
BARCODE NO.	:01520426		COLLECTION DATE	:09/Nov/2024 12:08PM
CLIENT CODE.	: KOS DIAGNOST	TIC LAB	REPORTING DATE	:09/Nov/202404:00PM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interva
Test Name			Unit IN - 24 HOURS URINE	Biological Reference interva
Test Name URINE VOLUME: 2 by NEPHLOMETRY	4 HOUR			Biological Reference interva
URINE VOLUME: 2. by NEPHLOMETRY MICROALBUMIN: 2 by NEPHLOMETRY		MICROALBUM	IN - 24 HOURS URINE	
URINE VOLUME: 2 by NEPHLOMETRY MICROALBUMIN: 2 by NEPHLOMETRY INTERPRETATION:-	24 HOUR URINE	MICROALBUM 900 72.9^H	IN - 24 HOURS URINE mL mg/24 h	ours 0 - 30
URINE VOLUME: 2. by NEPHLOMETRY MICROALBUMIN: 2 by NEPHLOMETRY INTERPRETATION:- PHYSIOLOGIC/		MICROALBUM 900 72.9 ^H mg/2	IN - 24 HOURS URINE mL	

2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.

3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.

4. Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.

5. Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.

6. Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.

NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PR TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICI APPROPIATE.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MI	r. Vinay Chopra D (Pathology & Microbiolog ₎ airman & Consultant Pathol		Dr. Yugam MD O & Consultant	(Pathology)
NAME	: Mr. RAJESH CH	IHABRA			
AGE/ GENDER	: 59 YRS/MALE		PATIENT I	D	: 1666327
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REFERRED BY	:		REGISTRA	TION DATE	: 09/Nov/2024 11:59 AM
BARCODE NO.	:01520426		COLLECTIO	ON DATE	:09/Nov/2024 12:08PM
CLIENT CODE.	: KOS DIAGNOST	TIC LAB	REPORTIN	G DATE	: 09/Nov/2024 04:43PM
CLIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, AMBALA CAI	NTT		
Test Name		Value		Unit	Biological Reference interval
URINE VOLUME: 2 by SPECTROPHOTOM PROTEINS: 24 HOU by BIURET, SPECTRO INTERPRETATION:	<i>METRY</i> J RS URINE	900 218.1	6 ^H	mL mg/ 24 F	IOURS 25 -160
TYPES OF PI	ROTEINURIA	TOTAL PROTEINS IN n	ng/24 HOURS		CONDITIONS
MINIMAL PF	Roteinuria:	150 - 500 mg/2	4 hours	Interstial N	yelonephritis, Chronic lephritis, Renal Tubular sease, Postural
MODERATE P	PROTEINURIA:	500 - 1000 mg/2	24 hours	Nephroscler	osis, Multiple Myeloma, nropathy, Renal Calculi
HEAVY PRO	DTEINURIA:	1000 - 3000 mg/	24 hours	Nephrotic S Prog Glomeru mellitus, Lup like Pencilla	yndrome, Acute Rapidly ressive & Chronic Ilonephritis, Diabetes us erythematosus, Druga Imine, Heavy metals like old & Mercury.

NOTE:

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

Excreation of total protein in individuals is highly variable with or without kidney disease.
 Conditions affecting protein excreation other than kidney didease are urinary tract infection, diet, mensturation & physical activity.

COMMENT:

1. Diagnosis of kidney disease and response to therapy is usually obtained by quatitattively analyzing the amount of protein excreated in urine over a 24 hour period.

*** End Of Report ***





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