NAME	: Mr. RAKESH KUMAR GARG			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1687452
COLLECTED BY	:		REG. NO./LAB NO.	: 042502050001
REFERRED BY	-		REGISTRATION DATE	: 05/Feb/2025 09:04 AM
BARCODE NO.	: A1260431		COLLECTION DATE	: 05/Feb/2025 05:10PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 05/Feb/2025 05:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HVA WI	ELLNESS PANEL: 1.0	
			LOOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H		15.1	gm/dL	12.0 - 17.0
RED BLOOD CELL ((RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.77 ^H	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) automated hematology analyzer	47	%	40.0 - 54.0
by CALCULATED BY A	AR VOLUME (MCV) automated hematology analyzer	81.4	fL	80.0 - 100.0
by CALCULATED BY A	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.2 ^L	pg	27.0 - 34.0
by CALCULATED BY A	AR HEMOGLOBIN CONC. (MCHC)	32.2	g/dL	32.0 - 36.0
by CALCULATED BY A	UTION WIDTH (RDW-CV)	16.3 ^H	%	11.00 - 16.00
by CALCULATED BY A	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	49.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		14.11	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED	DEX	23.02	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
TOTAL LEUCOCYTE	E COUNT (TLC) y by sf cube & microscopy	7590	/cmm	4000 - 11000
by AUTOMATED 6 PA	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
	BLOOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %



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Test Name	Value	Unit	Biological Reference interval				
DIFFERENTIAL LEUCOCYTE COUNT (DLC)	DIFFERENTIAL LEUCOCYTE COUNT (DLC)						
NEUTROPHILS	68	%	50 - 70				
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES	23	%	20 - 40				
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY							
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1	%	1 - 6				
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12				
BASOPHILS	0	%	0 - 1				
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT							
ABSOLUTE NEUTROPHIL COUNT	5161	/cmm	2000 - 7500				
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT	1746	/cmm	800 - 4900				
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1110	/ chini					
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	76	/cmm	40 - 440				
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	607	/cmm	80 - 880				
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.						
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	269000	/cmm	150000 - 450000				
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.33	%	0.10 - 0.36				
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12 ^H	fL	6.50 - 12.0				
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	119000 ^H	/cmm	30000 - 90000				
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	44.3	%	11.0 - 45.0				
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	16.1	%	15.0 - 17.0				
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD							



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AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1687452
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BARCODE NO.	: A1260431	COLLECTION DATE	:05/Feb/202505:10PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 05/Feb/2025 05:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	1	
Test Name	Value	Unit	Biological Reference interval

ERYTHROCYTE SEDIMENTATION RATE (ESR)

27 ^H	mm/1st hr	0 - 20
	27 ^H	27^H mm/1st hr

by RED CELL AGGREGATION BY CAPILLARY PHOTOMETRY

INTERPRETATION:

1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto-immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such as C-reactive protein

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

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 doxtran mothyldona oral contracontivos ponicillamino proceinamide, theorphylline, and with

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

NAME	: Mr. RAKESH KUMAR GARG			
AGE/ GENDER	: 52 YRS/MALE	PA	ATIENT ID	: 1687452
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 042502050001
REFERRED BY	:	RI	EGISTRATION DATE	: 05/Feb/2025 09:04 AM
BARCODE NO.	: A1260429	CO	DLLECTION DATE	: 05/Feb/2025 05:09PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	RI	EPORTING DATE	: 05/Feb/2025 05:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINICA	AL CHEMISTI	RY/BIOCHEMIST	RY
		GLUCOSE F A	ASTING (F)	
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		114.44 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
INTERPRETATION				

INTERPRETATION IN ACCORDANCE 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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. FO VDC /MALE			
: 52 YRS/MALE		PATIENT ID	: 1687452
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:		REGISTRATION DATE	: 05/Feb/2025 09:04 AM
: A1260433		COLLECTION DATE	: 05/Feb/2025 05:09PM
: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 05/Feb/2025 05:52PM
: 6349/1, NICHOLSON ROAD,	AMBALA CANT	ſ	
	Value	Unit	Biological Reference interval
(LUCOSE POS	ST PRANDIAL (PP)	
NDIAL (PP): PLASMA - peroxidase (god-pod)	124.12	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0
	: : A1260433 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, MDIAL (PP): PLASMA	: : A1260433 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value GLUCOSE POS NDIAL (PP): PLASMA 124.12	: REGISTRATION DATE : A1260433 COLLECTION DATE : KOS DIAGNOSTIC SHAHBAD REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit GLUCOSE POST PRANDIAL (PP) NDIAL (PP): PLASMA 124.12 mg/dL

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A post-prandial plasma glucose level below 140 mg/dl is considered normal. 2. A post-prandial glucose level between 140 - 200 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 post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		164.44	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	SERUM PHATE OXIDASE (ENZYMATIC)	221.59 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM TION	60.12	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE	L: SERUM ECTROPHOTOMETRY	60	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 CHOLES' by calculated, spe	TEROL: SERUM ECTROPHOTOMETRY	104.32	mg∕dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER	OL: SERUM ECTROPHOTOMETRY	44.32	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		550.47	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.74	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0



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HIGH RISK: > 11.0

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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM	3.69	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

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

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



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Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.75	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.6	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	25.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	32.5	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.79	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	102.77	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	59.32 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	8.11 ^H	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.47	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.64 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.23	RATIO	1.00 - 2.00

<u>INTERPRETATION</u> NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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



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Test Name	Value	Unit	Biological Reference interval

DECREASED:

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

Test Name	Value	Unit	Biological Reference interval
KIDNI	EY FUNCTION TH	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	45.9	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.61 ^H	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	21.45	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	13.32	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by Calculated, spectrophotometry	28.51	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	7.03	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.41	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY ELECTROLYTES	2.61	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.86	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	104.85	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	51.1		
NOTE 2	RESULT RECHI	ECKED TWICE	

ADVICE

INTERPRETATION:

KINDLY CORRELATE CLINICALLY

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



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	Test Name	Value	Unit	Biological Reference interval
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glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.

4. High protein intake.

5. Impaired renal function plus

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet,

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids)

INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

DECREASED RATIO (<10:1) WITH DECREASED BUN :

1. Acute tubular necrosis.

2. Low protein diet and starvation.

- 3. Severe liver disease.
- 4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

- 6. Inherited hyperammonemias (urea is virtually absent in blood).
- 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

Cephalosporin therapy (interferes with creatinine measurement).
 ESTIMATED GLOMERULAR FILTERATION RATE:

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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NAME	: Mr. RAKESH KUMAR GARG		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1687452
COLLECTED BY	:	REG. NO./LAB NO.	: 042502050001
REFERRED BY	:	REGISTRATION DATE	: 05/Feb/2025 09:04 AM
BARCODE NO.	: A1260430	COLLECTION DATE	:05/Feb/202505:09PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	:05/Feb/202507:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

	Test Name	Value	Unit	Biological Reference interval
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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

eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill 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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: 6349/1, NICHOLSON ROAD, AM	MBALA CANT	Г	
	Value	Unit	Biological Reference interva
IMMU	JNOPATH	OLOGY/SEROLOGY	ľ
С	-REACTIVI	E PROTEIN (CRP)	
N (CRP) QUANTITATIVE:	3.67	mg/L	0.0 - 6.0
	: : A1260430 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AN	: : : A1260430 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMBALA CANT Value Value IMMUNOPATH C-REACTIVI	E REG. NO./LAB NO. E REGISTRATION DATE A1260430 COLLECTION DATE KOS DIAGNOSTIC SHAHBAD COLLECTION DATE REPORTING DATE E 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit IMMUNOPATHOLOGY/SEROLOGY C-REACTIVE PROTEIN (CRP)

2. CRP levels can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery, or neoplastic

2. Other levels can increase an anterlearly (recented as anterly and proliferation.
3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant rejection, and to monitor these inflammatory processes.
4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR.
4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the receivery being cardiac conditions like Anemia. Polycythemia etc...

and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.



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NAME : Mr. RAKESH KUMAR GARG **AGE/ GENDER** : 52 YRS/MALE **PATIENT ID** :1687452 **COLLECTED BY** REG. NO./LAB NO. :042502050001 **REFERRED BY REGISTRATION DATE** :05/Feb/2025 09:04 AM **BARCODE NO. COLLECTION DATE** :A1260430 :05/Feb/202505:09PM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** :05/Feb/202506:40PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name **RHEUMATOID FACTOR (RA): QUANTITATIVE - SERUM** RHEUMATOID (RA) FACTOR QUANTITATIVE: IU/mL NEGATIVE: < 18.0 55.21^H SERUM BORDERLINE: 18.0 - 25.0 by NEPHLOMETRY POSITIVE: > 25.0

INTERPRETATION: RHEUMATOID FACTOR (RA):

 Rheumatoid factors (RF) are antibodies that are directed against the Fc fragment of IgG altered in its tertiary structure.
 Over 75% of patients with rheumatoid arthritis (RA) have an IgM antibody to IgG immunoglobulin. This autoantibody (RF) is diagnostically Use 175% of patients with medinatoid at times (kA) have an ign antibody to ige inmunoglobulin. This autoantibody (kF) is diaginated useful although it may not be etiologically related to RA.
 Inflammatory Markers such as ESR & C-Reactive protein (CRP) are normal in about 60% of patients with positive RA.
 The titer of RF correlates poorly with disease activity, but those patients with high titers tend to have more severe disease course.

The test is useful for diagnosis and prognosis of rheumatoid arthritis.

RHEUMATOID ARTHIRITIS:

1. Rheumatoid Arthiritis is a systemic autoimmune disease that is multi-functional in origin and is characterized by chronic inflammation of the membrane lining (synovium) joints which ledas to progressive joint destruction and in most cases to disability and reduction of quality life. 2. The disease spredas from small to large joints, with greatest damage in early phase.

3. The diagnosis of RA is primarily based on clinical, radiological & immunological features. The most frequent serological test is the

measurement of RA factor

CAUTION (FALSE POSTIVE):-

1. RA factor is not specific for Rheumatoid arthiritis, as it is often present in healthy individuals with other autoimmune diseases and chronic infections. 2. Non rheumatoid and rheumatoid al thinks, as it is often present in hearing individuals with other autominitine diseases and choice infections.
 2. Non rheumatoid and rheumatoid arthinks, as it is often present in hearing individuals with other autominitine diseases and choice infections.
 2. Non rheumatoid and rheumatoid arthinks, as it is often present in hearing individuals with other autominitine diseases and choice infections.
 2. Non rheumatoid and rheumatoid arthinks, as it is often present in reality individuals with other autominitie diseases and choice infections.
 2. Patients have a nonreactive titer and 8% of nonrheumatoid patients have a positive titer).
 3. Patients with various nonrheumatoid diseases, characterized by chronic inflammation may have positive tests for RF. These diseases include systemic lupus erythematosus, polymyositis, tuberculosis, syphilis, viral hepatitis, in other form of includes on onnoncleosis, and influenza.
 4. Arti COD have been diseases include in present with a but not in other form of includes a Arti COD is UCULY SENSITIVE (710).

4. Anti-CCP have been discovered in joints of patients with RA, but not in other form of joint disease. Anti-CCP2 is HIGHLY SENSITIVE (71%) & more specific (98%) than RA factor.
Upto 30 % of patients with Seronegative Rheumatoid arthiritis also show Anti-CCP antibodies.

6. The positive predictive value of Anti-CCP antibodies for Rheumatoid Arthiritis is far greater than Rheumatoid factor.



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CLIENT CODE.			REPORTING DA		5/Feb/2025 06:36PM				
CLIENT ADDRESS					: 05/FeD/2025 00:36FM				
CLIENT ADDRESS	. 0343/1, MCHOLSON ROAD, AF		L						
Test Name		Value		U nit	Biological Reference interval				
		CLINICAL	PATHOLOG	Y					
URINE ROUTINE & MICROSCOPIC EXAMINATION									
PHYSICAL EXAMI	NATION								
QUANTITY RECIEV	ΈD	10	1	ml					
-	TANCE SPECTROPHOTOMETRY		VELLOW						
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		AMBER	IELLOW		PALE YELLOW				
TRANSPARANCY		HAZY			CLEAR				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY		1.01			1.002 - 1.030				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1.01			1.002 1.000				
CHEMICAL EXAMI	<u>INATION</u>								
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC							
PROTEIN		Negative			NEGATIVE (-ve)				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		-							
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1+			NEGATIVE (-ve)				
pH		6			5.0 - 7.5				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN		Negative	2		NEGATIVE (-ve)				
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	-							
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative			NEGATIVE (-ve)				
UROBILINOGEN		Normal]	EU/dL	0.2 - 1.0				
•	TANCE SPECTROPHOTOMETRY	N							
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative			NEGATIVE (-ve)				
BLOOD		Negative	<u>)</u>		NEGATIVE (-ve)				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID		NEGATIVE (-ve)			NEGATIVE (-ve)				
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		ILUAIN							
MICROSCOPIC EXA									
RED BLOOD CELLS	(RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIV	/E (-ve)	/HPF	0 - 3				
by MICROSCOPT ON	JENTINFUGED UNIVART SEDIMENT								





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Test Name	Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
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

*** End Of Report ***



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