



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	MD	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. ANIL AGGARWAL			
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 1703135
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412190009
REFERRED BY	:		REGISTRATION DATE	: 19/Dec/2024 09:03 AM
BARCODE NO.	: 01522659		COLLECTION DATE	: 19/Dec/2024 09:31AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Dec/2024 09:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	3ALA CANTI	L	
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS			ELLNESS PANEL: G LOOD COUNT (CBC)	Т
HAEMOGLOBIN (H		11.8 ^L	gm/dL	12.0 - 17.0
			Ű	
RED BLOOD CELL (KBC) COUN I OCUSING, ELECTRICAL IMPEDENCE	3.96	Millions	s/cmm 3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	37.5 ^L	%	40.0 - 54.0
MEAN CORPUSCUL		94.5	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.8	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.2	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	50.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		23.86	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INE		33.89	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE		0050		4000 11000
TOTAL LEUCOCYTE	COUNT (TLC) Y BY SF CUBE & MICROSCOPY	6950	/cmm	4000 - 11000
	LOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED B	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
<u>DIFFERENTIAL LE</u>	EUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometr	Y BY SF CUBE & MICROSCOPY	61	%	50 - 70
	Y BY SF CUBE & MICROSCOPY	32	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR by FLOW CYTOMETR	OPHIL COUNT y by sf cube & microscopy	4240	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	2224	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	208	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	278	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	OTHER PLATELET PREDICTIVE			
•	FOCUSING, ELECTRICAL IMPEDENCE	157000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic i	OLUME (MPV)	14 ^H	fL	6.50 - 12.0
by HYDRO DYNAMIC I	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	82000	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	52.2 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC I	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.2	%	15.0 - 17.0

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Value	Unit	Biological Reference interval





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Chairman & Consul	licrobiology) tant Pathologist		n Chopra (Pathology) t Pathologist
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: 01522659	co	LLECTION DATE	: 19/Dec/2024 09:31AM
: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 19/Dec/2024 02:46PM
: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
	Value	Unit	Biological Reference interval
GLYCOS EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY)	5.6	MOGLOBIN (HBA1) %	4.0 - 6.4
E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00
,			
AS PER AMERICAN DI			
EFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %
	/	<5.7	
	5.7 - 6.4		
ignosing Diabetes	_		
			3.0
apple for alyzamic control			< 7.0
goals for gryceniic control	Actions Su		>8.0
			<7.5
	: 69 YRS/MALE : SURJESH : : 01522659 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM GLYCOS EMOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	: 69 YRS/MALE PA : SURJESH RE : 01522659 CO : KOS DIAGNOSTIC LAB RE : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value CONTENTIONAL CONTENTIAL CONTENTIONAL CONTENTIONAL CONTENTICON CONTENTI CONTENT	EIGENERATION DATE : 69 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01522659 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value Unit CGLYCOSYLATED HAEMOGLOBIN (HBA10 CMOGLOBIN (HbA1c): 5.6 : 5.6 % WANCE LIQUID CHROMATOGRAPHY) 114.02 mg/dL EFPLASMA GLUCOSE 114.02 mg/dL MANCE LIQUID CHROMATOGRAPHY) E E 5.7 EFFERENCE GROUP GLYCOSYLATED HEMOGLOGIB 5.7 6.4 opnosing Diabetes 5.7 6.5 4ge > 19 Years Goals of Therapy: I 19 10

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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 appropriate.

4.High 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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LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 19/Dec/2024 10:05AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	IBALA CANTT		
'est Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIMEN	TATION RATE (1	ESR)
nmune disease, but An ESR can be affe s C-reactive protein This test may also ystemic lupus erythe ONDITION WITH LO Iow ESR can be see yolvcythaemia), sigr	does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus W ESR n with conditions that inhibit the n	er exactly where the flammation. For this and response to the ormal sedimentation ot (leucocytosis), an	inflammation is in the reason, the ESR is typ erapy in both of the a n of red blood cells, si	pically used in conjunction with other test such bove diseases as well as some others, such as





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Dec/2024 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI		TRY/BIOCHEMIST FASTING (F)	TRY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	112.75 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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NAME	: Mr. ANIL AGGARWAL			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	TI F · BASIC	
CHAI ESTEDAL TA				OPTIMAL: < 200.0
CHOLESTEROL TO by CHOLESTEROL O>		84.32	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	114.51	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM ion	42.81	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		18.61	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		41.51	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(22.9	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	283.15 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE		1.97	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		0.43 ^L	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	2.67 ^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
Test Name		value	UIII	biological kelerence intervar
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL		0.68	mg/dL	INFANT: 0.20 - 8.00
, , , , , , , , , , , , , , , , , , ,	PECTROPHOTOMETRY		Ũ	ADULT: 0.00 - 1.20
	Γ (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.24	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.44	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	25.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM		14.9	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	1.68	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPI by PARA NITROPHEN PROPANOL		91.2	U/L	40.0 - 130.0
	L TRANSFERASE (GGT): SERUM	10.17	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.81	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.01	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.8	gm/dL	2.30 - 3.50
A : G RATIO: SERUI by CALCULATED, SPE	М	1.43	RATIO	1.00 - 2.00

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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





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Test Name		Value Unit	Biological Reference interval

DECREASED:

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

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



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Test Name		Value	Unit	Biological Reference interva	
	KIDNI	EY FUNCTION TE	ST (COMPLETE)		
UREA: SERUM		29.9	mg/dL	10.00 - 50.00	
-	NATE DEHYDROGENASE (GLDH)	1.10		0.40 1.40	
CREATININE: SER by ENZYMATIC, SPEC		1.13	mg/dL	0.40 - 1.40	
	ROGEN (BUN): SERUM	13.97	mg/dL	7.0 - 25.0	
	ectrophotometry ROGEN (BUN)/CREATININE	12.36	RATIO	10.0 - 20.0	
RATIO: SERUM					
by CALCULATED, SPE UREA/CREATININ	ECTROPHOTOMETRY F RATIO: SFRUM	26.46	RATIO		
by CALCULATED, SPE	ECTROPHOTOMETRY				
URIC ACID: SERUN by URICASE - OXIDAS		5.86	mg/dL	3.60 - 7.70	
CALCIUM: SERUM	SE I ENOXIDAGE	9.41	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE		0.00	-	0.00 4.70	
PHOSPHOROUS: SI by PHOSPHOMOLYBL	EKUM DATE, SPECTROPHOTOMETRY	2.92	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM		138.7	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIN POTASSIUM: SERU		4.31	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV	/E ELECTRODE)				
CHLORIDE: SERUN by ISE (ION SELECTIV		104.03	mmol/L	90.0 - 110.0	
	MERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	70.4			
INTERPRETATION:					
To differentiate betw	veen pre- and post renal azotemia.				

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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	١	Dr. Vinay Chopra 1D (Pathology & Micr Chairman & Consultar	obiology)		fugam Cho MD (Patho nsultant Patho	ology)		
NAME	: Mr. ANIL AGO	GARWAL						
AGE/ GENDER	: 69 YRS/MALE		I	PATIENT ID	: 17	703135		
COLLECTED BY	: SURJESH		1	REG. NO./LAB NO.	0	1241219000	9	
REFERRED BY	·			REGISTRATION D)/Dec/2024 09		
BARCODE NO.	:01522659			COLLECTION DAT		9/Dec/2024 09		
CLIENT CODE.	: KOS DIAGNOS	STIC LAB]	REPORTING DATI	E : 19	9/Dec/2024 12	2:24PM	
LIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, AMB	ALA CANTT					
Test Name			Value	Un	it	Biologic	cal Reference i	nterval
INCREASED RĂTIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	a (BUN rises dispr superimposed or I 0:1) WITH DECRE osis.	TED CREATININE LEVE oportionately more to renal disease.		ne) (e.g. obstructive	e uropathy).			
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI CKD STAGE G1 G2	0:1) WITH ELEVA a (BUN rises dispr superimposed of superimposed of osis. ad starvation. e. creased urea syn urea rather than monemias (urea of inappropiate al 10:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cree apy (interferes w JLAR FILTERATION Norr Kic Norr	TED CREATININE LEVE oportionately more to a renal disease. ASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creatine reatinine). al failure. causes false increas atinine ratio). with creatinine measu	han creatinin but of extrace blood). due to tubula e to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). ee with certain met L/min/1.73m2) >90 >90	hodologies,r ASSOCIA No p Presenc	esulting in norr TED FINDINGS roteinuria e of Protein , or cast in urine		lehydrat
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera 5. CKD STAGE G1	0:1) WITH ELEVA a (BUN rises dispr superimposed of superimposed of 10:1) WITH DECRE osis. ad starvation. e. creased urea syn urea rather than monemias (urea of inappropiate al 10:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w JLAR FILTERATION Norr Kic nc Mode	TED CREATININE LEVE oportionately more to a renal disease. ASED BUN : ASED BUN : thesis. creatinine diffuses of is virtually absent in tridiuretic harmone) ASED CREATININE: onversion of creatine reatinine). al failure. causes false increas atinine ratio). th creatinine measu IRATE: DESCRIPTION nal kidney function Iney damage with rmal or high GFR d decrease in GFR rate decrease in GFR	han creatinin but of extrace blood). due to tubula e to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). he with certain met L/min/1.73m2) >90	hodologies,r ASSOCIA No p Presenc	TED FINDINGS roteinuria e of Protein ,		lehydrat
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	0:1) WITH ELEVA a (BUN rises dispr superimposed of superimposed of 10:1) WITH DECRE osis. ad starvation. e. creased urea syn urea rather than monemias (urea of inappropiate al 10:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w JLAR FILTERATION Norr Kic nc Mode	TED CREATININE LEVE oportionately more to a renal disease. ASED BUN : ASED BUN : thesis. creatinine diffuses of is virtually absent in tridiuretic harmone) ASED CREATININE: onversion of creatine reatinine). al failure. causes false increas atinine ratio). th creatinine measu IRATE: DESCRIPTION nal kidney function Iney damage with rmal or high GFR d decrease in GFR	han creatinin but of extrace blood). due to tubula e to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). e with certain met L/min/1.73m2) >90 >90 60 -89	hodologies,r ASSOCIA No p Presenc	TED FINDINGS roteinuria e of Protein ,		lehydrat





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









Test Name		Value Unit	Biological Reference interva
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:19/Dec/2024 12:24PM
BARCODE NO.	: 01522659	COLLECTION DATE	: 19/Dec/2024 09:31AM
REFERRED BY	:	REGISTRATION DATE	: 19/Dec/2024 09:03 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412190009
AGE/ GENDER	: 69 YRS/MALE	PATIENT ID	: 1703135
NAME	: Mr. ANIL AGGARWAL		
	MD (Pathology & Mi Chairman & Consult		ID (Pathology) ant Pathologist
	Dr. Vinay Chop		am 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





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	Dr. Vinay Ch MD (Pathology & Chairman & Con		M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. ANIL AGGARWAL			
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 1703135
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412190009
REFERRED BY	:		REGISTRATION DATE	: 19/Dec/2024 09:03 AM
BARCODE NO.	: 01522659		COLLECTION DATE	: 19/Dec/2024 09:31AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Dec/2024 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	2	
Test Name		Value	Unit	Biological Reference interval
		IYROID FUNC	RINOLOGY CTION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoa	0.96	ng/mL	0.35 - 1.93
THYROXINE (T4): S		6.22	µgm/d	L 4.87 - 12.60
THYROID STIMULA	ATING HORMONE (TSH): SERU	JM 6.677 ^H	µIU/m	L 0.35 - 5.50
INTERPRETATION:				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TS	SH stimulates the pr	oduction and secretion of the	pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low	Normal	Normal or Low Normal	High
Primary Hyperthyroidis	sm: Increased		Increased	Reduced (at times undetectable)

LIMITATIONS:-

Subclinical Hyperthyroidism:

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.

Normal or High Normal

Reduced

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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMU	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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Normal or High Normal





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Ch MD (Pathology & Chairman & Con			ugam Chopra MD (Pathology) sultant Pathologist	
NAME	: Mr. ANIL	AGGARWAL				
AGE/ GENDER	: 69 YRS/M	IALE		PATIENT ID	: 1703135	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	:01241219	0009
REFERRED BY	:			REGISTRATION DA	TE : 19/Dec/202	24 09:03 AM
BARCODE NO.	:01522659)		COLLECTION DATI	E : 19/Dec/202	24 09:31AM
CLIENT CODE.	: KOS DIAG	NOSTIC LAB		REPORTING DATE	: 19/Dec/202	24 12:24PM
CLIENT ADDRES	S : 6349/1, N	NICHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Uni	t Bio	logical Reference interval
1 est valle			value	U	BIO	nogical weier enter interval
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	VENDATIONS OF TSH LE	VELS DURING PREGN	ANCY (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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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

*** End Of Report ***





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