



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	obiology)	M	m Chopra D (Pathology) nt Pathologist	
NAME	: Mr. TILAK ARORA				
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 144939	96
COLLECTED BY	:		REG. NO./LAB NO.	:04241	1100001
REFERRED BY	:		REGISTRATION DATE	:10/Nov	v/2024 09:41 AM
BARCODE NO.	: A0465920		COLLECTION DATE		v/2024 03:59PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 10/Nov	v/2024 04:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTT			
Test Name		Value	Unit		Biological Reference interval
			LLNESS PANEL: 1 OOD COUNT (CBC)	.4	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HI	B)	14	gm/dL		12.0 - 17.0
RED BLOOD CELL (RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.79 ^H	Million	s/cmm	3.50 - 5.00
PACKED CELL VOLU		45.6	%		40.0 - 54.0
MEAN CORPUSCULA	AR VOLUME (MCV) utomated hematology analyzer	78.7 ^L	fL		80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	24.2 ^L	pg		27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.7 ^L	g/dL		32.0 - 36.0
	UTION WIDTH (RDW-CV) utomated hematology analyzer	14.5	%		11.00 - 16.00
by CALCULATED BY A	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42.8	fL		35.0 - 56.0
MENTZERS INDEX by CALCULATED		13.59	RATIO		BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED	θEX	19.73	RATIO		BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI	LLS (WBCS)				
TOTAL LEUCOCYTE	COUNT (TLC) ' by sf cube & microscopy	7830	/cmm		4000 - 11000
	LOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL			0.00 - 20.00
	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%		< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra

	MD (Pathology & Mi Chairman & Consult		MD CEO & Consultant	(Pathology) Pathologist
NAME	: Mr. TILAK ARORA			
AGE/ GENDER	: 70 YRS/MALE	PA	TIENT ID	: 1449396
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Test Name		Value	Unit	Biological Reference interval
<u>DIFFERENTIAL LE</u>	<u>SUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		63	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	27	%	20 - 40
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	~ '		
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES		6	%	2 - 12
,	Y BY SF CUBE & MICROSCOPY	0	%	0 1
BASOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT y by sf cube & microscopy	4933	/cmm	2000 - 7500
ABSOLUTE LYMPH		2114	/cmm	800 - 4900
ABSOLUTE EOSINO		313	/cmm	40 - 440
ABSOLUTE MONOC	CYTE COUNT	470	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY DTHER PLATELET PREDICTIVE	MARKERS		
PLATELET COUNT		187000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.24	%	0.10 - 0.36
MEAN PLATELET V		13 ^H	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	87000	/cmm	30000 - 90000
PLATELET LARGE by HYDRO DYNAMIC F	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	46.4 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE ICTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0

Dr. Vinay Chopra





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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 10/Nov/2024 05:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	IBALA CANTT		. 10/ NOV/ 2024 03.341 M
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	7.6 ^H 171.42 ^H	% mg/dL	4.0 - 6.4 60.00 - 140.00
	RMANCE LIQUID CHROMATOGRAPHY)	171.4%		
	AS PER AMERICAN D			
	REFERENCE GROUP	GI	LYCOSYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years t Risk (Prediabetes)	<5.7		
			5.7 – 6.4	
A			>= 6.5	
A	iagnosing Diabetes		>= 6.5 Age > 19 Years	
A		Goals	>= 6.5 Age > 19 Years of Therapy:	< 7.0
A [†] D			Age > 19 Years	< 7.0 >8.0
A [†] D	iagnosing Diabetes	Action	Age > 19 Years	

COMMENTS:

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 appropiate.

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 faisely 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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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	R	EPORTING DATE	: 10/Nov/2024 04:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	4	ENTATION RATE (mm/1st	
mmune disease, but 2. An ESR can be affe is C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO	does not tell the health practitioner ected by other conditions besides inf be used to monitor disease activity ematosus W ESR	exactly where t lammation. For t and response to	he inflammation is in th his reason, the ESR is ty therapy in both of the a	pically used in conjunction with other test such above diseases as well as some others, such as
polycythaemia), sigr s sickle cells in sick . ESR and C - reactiv g. Generally, ESR doe . CRP is not affected . If the ESR is elevat	en with conditions that inhibit the non- hificantly high white blood cell coun le cell anaemia) also lower the ESR. The protein (C-RP) are both markers of es not change as rapidly as does CRP I by as many other factors as is ESR, r ed, it is typically a result of two type and the top the top the top top we a higher ESR, and menstruation a tran, methyldopa, oral contraceptive	t (leucocytosis), inflammation. , either at the st. naking it a better so of proteins, gla nd pregnancy ca	and some protein abno art of inflammation or a r marker of inflammatio obulins or fibrinogen.	ormalities. Šome changes in red cell shape (such is it resolves. n.

aspirin, cortisone, and quinine may decrease it





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		ogy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. TILAK ARORA			
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REFERRED BY	:	REG	ISTRATION DATE	: 10/Nov/2024 09:41 AM
BARCODE NO.	: A0465918	COL	LECTION DATE	: 10/Nov/2024 03:58PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHI	BAD REP	ORTING DATE	: 10/Nov/2024 04:46PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING	G (F): PLASMA E - PEROXIDASE (GOD-POD)	118.3 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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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NAME	: Mr. TILAK ARORA			
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COLLECTED BY	:]	REG. NO./LAB NO.	: 042411100001
REFERRED BY	:]	REGISTRATION DATE	: 10/Nov/2024 09:41 AM
BARCODE NO.	: A0465922	(COLLECTION DATE	: 10/Nov/2024 03:59PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD]	REPORTING DATE	: 10/Nov/2024 04:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LUCOSE POST	F PRANDIAL (PP)	
	ANDIAL (PP): PLASMA E - PEROXIDASE (GOD-POD)	197.26 ^H	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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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				(Pathology)	
NAME	: Mr. TILAK ARORA				
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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBA	AD R	EPORTING DATE	: 10/Nov/2024 05:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		I IPID PROI	FILE : BASIC		
CHOLESTEROL TO	TAL · SEDIM	92.11	mg/dL	OPTIMAL: < 200.0	
by CHOLESTEROL OX		92.11	ing/ aL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: S. by GLYCEROL PHOSF	ERUM HATE OXIDASE (ENZYMATIC)	99.21	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0	
				VERY HIGH: $> OR = 500.0$	
HDL CHOLESTERO	L (DIRECT): SERUM	26.91 ^L	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0	
LDL CHOLESTEROI by CALCULATED, SPE		45.36	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 CHOLEST by calculated, spe		65.2	mg/dL	VERT HIGH: > OR = 190.0 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 CHOLESTER(19.84	mg/dL	0.00 - 45.00	
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	283.43 ^L	mg/dL	350.00 - 700.00	
CHOLESTEROL/HD by CALCULATED, SPE		3.42	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		1.69	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL		FUNCTION 1.51 ^H	TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	1.51-	ing/ uL	ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.69 ^H	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.82	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	33.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	29.2	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	1.14	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	61.88	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	16.48	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		5.95 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.21	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	I ECTROPHOTOMETRY	1.74 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERU		2.42 ^H	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:

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)
HEPATOCELLULAR CARCINOMIA & CHRONIC HEPATTIS	> 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).

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



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MBBS, MD (PATHOLOGY)







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	Chairman & Consu			(Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interva
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM	NATE DEHYDROGENASE (GLDH)	24.04	mg/dL	10.00 - 50.00
CREATININE: SER	UM	0.88	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	CTROPHOTOMETERY ROGEN (BUN): SERUM	11.23	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY	11.25		
	ROGEN (BUN)/CREATININE	12.76	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		27.32	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY [4.35	mg/dL	3.60 - 7.70
by URICASE - OXIDAS				
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.37	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH	ERUM	2.4	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		139.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV			IIIII01/ L	
POTASSIUM: SERU by ISE (ION SELECTIV		4.2	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		104.7	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	MERULAR FILTERATION RATE	00 -		
ESTIMATED GLOM (eGFR): SERUM	IERULAR FILTERATION RATE	92.5		
by CALCULATED				
INTERPRETATION:				

INTERPRETATION:

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			ugam Chop MD (Patholo sultant Patholog	gy)				
NAME	: Mr. TILAK A	RORA							
AGE/ GENDER	: 70 YRS/MALI	2	P	ATIENT ID	: 1449	9396			
COLLECTED BY	•		R	REG. NO./LAB NO.	: 042	411100001	1		
REFERRED BY				REGISTRATION DA		Nov/2024 09			
BARCODE NO.	: A0465919			COLLECTION DATE		Nov/2024 03			
		CTIC CUALIDAD							
CLIENT CODE.		STIC SHAHBAD		REPORTING DATE	: 10/1	Nov/2024 05	:42PM		
CLIENT ADDRESS	: 6349/1, NICI	IOLSON ROAD, AMB	ALA CANTT						
Test Name			Value	Uni	it	Biologic	al Referen	nce interva	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	tetracycline, glu 0:1) WITH ELEVA (BUN rises displ superimposed o	TED CREATININE LEV roportionately more n renal disease.	ELS:	e) (e.g. obstructive	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 ther ESTIMATED GLOMERI CKD STAGE	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. e. creased urea syr- urea rather thar monemias (urea of inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rere- sis (acetoacetate creased BUN/cre- apy (interferes v ULAR FILTERATION	cocorticoids) TED CREATININE LEV roportionately more in renal disease. EASED BUN : thesis. creatinine diffuses is virtually absent ir ntidiuretic harmone) ASED CREATININE: onversion of creatin reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu NATE: DESCRIPTION	ELS: than creatining but of extraced blood). due to tubula e to creatining se in creatining urement).	Ilular fluid). r secretion of urea. e). e with certain meth /min/1.73m2)	nodologies,resu	D FINDINGS	nal ratio wh	nen dehydr	ətic
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 (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea of inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate creased BUN/crea apy (interferes v ULAR FILTERATION Nor	cocorticoids) TED CREATININE LEV roportionately more in renal disease. EASED BUN : Assed BUN : is virtually absent in it diuretic harmone) ASED CREATININE: onversion of creatin reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine mease NATE: DESCRIPTION mal kidney function	ELS: than creatining but of extraced blood). due to tubula e to creatining se in creatining urement).	Ilular fluid). r secretion of urea. e). e with certain meth /min/1.73m2) >90	nodologies,resu ASSOCIATEI	D FINDINGS einuria	nal ratio wł	nen dehydr	ətic
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 (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI CKD STAGE	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed o 0:1) WITH DECRI osis. Id starvation. 2. creased urea syr- urea rather thar monemias (urea of inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rer : sis (acetoacetate creased BUN/crea apy (interferes v ILAR FILTERATION Nor	cocorticoids) TED CREATININE LEV roportionately more in renal disease. EASED BUN : Assed BUN : Triticition diffuses is virtually absent in intidiuretic harmone) ASED CREATININE: onversion of creatin reatinine). al failure. e causes false increase eatinine ratio). vith creatinine measu NATE: DESCRIPTION mal kidney function diney damage with	ELS: than creatining but of extraced blood). due to tubula e to creatining se in creatining urement).	Ilular fluid). r secretion of urea. e). e with certain meth /min/1.73m2)	nodologies,resu <u>ASSOCIATEI</u> <u>No prot</u> Presence c	D FINDINGS einuria f Protein ,	nal ratio wh	nen dehydr	atic
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P	iology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. TILAK ARORA		
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1449396
COLLECTED BY	:	REG. NO./LAB NO.	: 042411100001
REFERRED BY	:	REGISTRATION DATE	: 10/Nov/2024 09:41 AM
BARCODE NO.	: A0465919	COLLECTION DATE	: 10/Nov/2024 03:59PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 10/Nov/2024 05:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	V	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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NAME	: Mr. TILAK A	RORA				
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CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AMI	BALA CANTT			
Test Name			Value	Unit	Biological Reference	interval
			IRON	PROFILE		
IRON: SERUM	TROPHOTOMETRY	,	85.5	μg/dL	59.0 - 158.0	
UNSATURATED IR SERUM			215.7	μg/dL	150.0 - 336.0	
TOTAL IRON BIND SERUM	ING CAPACITY		301.2	μg/dL	230 - 430	
%TRANSFERRIN S. by CALCULATED, SPE	ATURATION: S		28.39	%	15.0 - 50.0	
TRANSFERRIN: SE by SPECTROPHOTOM			213.85	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAB SERUM I		ANEMIA OF CHRON Normal to Re		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT	
SERUIVI II	RUN:	Normal to Re	uuceu	Reduced	Normal	

TOTAL IRON BINDING CAPACITY: Decreased Normal Increased % TRANSFERRIN SATURATION: Decreased Decreased < 12-15 % Normal **SERUM FERRITIN:** Normal to Increased Decreased Normal or Increased

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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				am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mr. TILAK ARORA				
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1449396	
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REFERRED BY	:		REGISTRATION DATE	: 10/Nov/2024 09:41 AM	
BARCODE NO.	: A0465919		COLLECTION DATE	: 10/Nov/2024 03:59PM	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI)	REPORTING DATE	: 10/Nov/2024 05:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	г		
Test Name		Value	Unit	Biological Refe	rence interval
	Т		CRINOLOGY CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO.	1.069 ASSAY)	ng/ml	0.35 - 1.93	
THYROXINE (T4): S		7.66	μgm/o	4.87 - 12.60	
	ATING HORMONE (TSH): SER		µIU/m	nL 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the p	roduction and secretion of the	<i>0 pm. The variation is of the order of 5</i> e metabolically active hormones, thyr ither underproduction (hypothyroidis	oxine (T4)and
CLINICAL CONDITION	T3		T4	TSH]
Primary Hypothyroidis			Reduced	Increased (Significantly)]
Subclinical Hypothyroi	dism: Normal or Lo	w Normal	Normal or Low Normal	High	

LIMITATIONS:-

Primary Hyperthyroidism:

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.

Increased

Normal or High Normal

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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING 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	

Increased

Normal or High Normal





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Reduced (at times undetectable)

Reduced





	Dr. Vinay Chopra MD (Pathology & Microbic Chairman & Consultant Pa	G, /	(Pathology)
NAME	: Mr. TILAK ARORA		
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1449396
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Tost Namo	Va	luo Unit	Piological Defenses interval

Test Name			Value	Unit	t	Biological Reference 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	
	RECON	IMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (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





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. TILAK ARORA			
AGE/ GENDER	: 70 YRS/MALE	PA	TIENT ID	: 1449396
COLLECTED BY	:	RE	G. NO./LAB NO.	: 042411100001
REFERRED BY	:	RE	GISTRATION DATE	: 10/Nov/2024 09:41 AM
BARCODE NO.	: A0465921	CO	LLECTION DATE	: 10/Nov/2024 04:06PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	RE	PORTING DATE	: 10/Nov/2024 04:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
	URINE RO	UTINE & MICRO	SCOPIC EXAMIN	ATION
PHYSICAL EXAMI	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	CTANCE SPECTROPHOTOMETRY	AMBER YELI	.ow	PALE YELLOW
	CTANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
CHEMICAL EXAM	CTANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Nagativa		NECATIVE (rec)
	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECI ROPHOTOMETRY	6		5.0 - 7.5
•	CTANCE SPECTROPHOTOMETRY	Negative		
BILIRUBIN by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLEC MICROSCOPIC EX	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (-	ve) /HPF	0 - 3
	· · · · · · · · · · · · · · · · · · ·			



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





M. THAVADODA

NANGE



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

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

Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 10/Nov/2024 04:27PM
BARCODE NO.	: A0465921	COLLECTION DATE	: 10/Nov/2024 04:06PM
REFERRED BY	:	REGISTRATION DATE	: 10/Nov/2024 09:41 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 042411100001
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1449396
NAME	: Mr. TILAK ARORA		

I CSt Maine	Value	ome	biological weier chee litter var
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/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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