



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	M	m Chopra D (Pathology) nt Pathologist
NAME	: Miss. NAMAN			
AGE/ GENDER	: 15 YRS/FEMALE		PATIENT ID	: 1566139
COLLECTED BY	:		REG. NO./LAB NO.	: 042407310002
REFERRED BY	:		REGISTRATION DATE	: 31/Jul/2024 09:51 AM
BARCODE NO.	: A0465104		COLLECTION DATE	: 31/Jul/2024 03:05PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMB	BALA CANT	REPORTING DATE	: 31/Jul/2024 03:33PM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.5	5
	CON	APLETE BI	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB))	11.9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE by HYDRO DYNAMIC F	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.55	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUN		38.5	%	35.0 - 49.0
MEAN CORPUSCULA		84.6	fL	80.0 - 100.0
MEAN CORPUSCULA	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TON WIDTH (RDW-CV)	14.9	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	47.4	fL	35.0 - 56.0
MENTZERS INDEX		18.59	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDE	ΞX	27.86	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	COUNT (TLC) y by sf cube & microscopy	6330	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLO by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) % automated hematology analyzer & DCYTE COUNT (DLC)	NIL	%	< 10 %



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by flow cytometry by SF cube & microscopy	57	%	50 - 70
LYMPHOCYTES by flow cytometry by sf cube & microscopy	35	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1-6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	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	3608	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2216	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	127	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	380	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	391000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.43 ^H	%	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	127000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	32.4	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.6	%	15.0 - 17.0





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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		RTING DATE	: 31/Jul/2024 03:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOO	GLOBIN (HBA1C)	
	DGLOBIN (HbA1c):	4.8	%	4.0 - 6.4
ESTIMATED AVERAGE F		91.06	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		HEMOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
			e > 19 Years	2
	goolo for glucomia control	Goals of Therapy:	< 7.0)

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

Actions Suggested:

Goal of therapy

Age < 19 Years

>8.0

<7.5

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.





Therapeutic goals for glycemic control

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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 31/Jul/2024 03:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue Unit	Biological Reference interval

Neme		Detion		Test Date : 31/07/20	04 45 40 0
Name : Age :	Case : Department :	Patient Type	: Whole Blood EDTA	Test Date : 31/07/20 Sample Id : A046510	
Gender:	Department.	Sample Type	Whole Blood EDTA	Total Area : 11826	74
Gender.				10121 7162 . 11620	
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)	
HbA0	70	2956	10747	87.9	
HbA1c	37	52	591	4.8	
La1c	24	29	224	1.8	
HbF Hba1b	19 13	15 41	24 140	0.2	
Hba1a	13	29	100	1.1 0.8	
		25	100	0.0	
0.03				- Choromotography	
0.00				Hba1c	
0.025					
0.02 -		٨٦			
₩ 0.015 —		l'			
0.01-		1			
0.005 -	\wedge	ſ			
0					
	10 20 30 40 50 6	0 70 80 90	100 110 120 130		
		Time(S)			





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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPO	RTING DATE	: 31/Jul/2024 03:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMENT	ATION RATE (ESI	R)
		27 ^H	mm/1st h	nr 0 - 20
by MODIFIED WESTE INTERPRETATION: 1. ESR is a non-specif	MENTATION RATE (ESR) RGREN AUTOMATED METHOD Tic test because an elevated resul does not tell the health practitio	t often indicates the pre	esence of inflammati	on associated with infection, cancer and auto body or what is causing it. bically used in conjunction with other test suc

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 devicen, methylicity and contracentives.

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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		& Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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COLLECTED BY	:	REG	G. NO./LAB NO.	: 042407310002
REFERRED BY	:	REG	GISTRATION DATE	: 31/Jul/2024 09:51 AM
BARCODE NO.	: A0465102	COL	LECTION DATE	: 31/Jul/2024 03:05PM
			PORTING DATE	: 31/Jul/2024 04:01PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI) REI	FURTING DATE	. 31/Jul/ 2024 04.01F M
	: KOS DIAGNOSTIC SHAHBAI : 6349/1, NICHOLSON ROAD		ORTING DATE	. 51/Jul/ 2024 04.01FM
CLIENT CODE. CLIENT ADDRESS Test Name			Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	Unit Y/BIOCHEMISTR	Biological Reference interval

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.
 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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COLLECTED BY	:		G. NO./LAB NO.	: 042407310002
REFERRED BY	:		GISTRATION DATE	: 31/Jul/2024 09:51 AM
BARCODE NO.	: A0465103		LECTION DATE	: 31/Jul/2024 03:05PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD,		PORTING DATE	: 31/Jul/2024 04:01PM
CLIENT ADDRESS	. 0043/ 1, MCHOLSON ROAD,	AWIDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	F · BASIC	
CHOLESTEROL TOTAL	: SERUM	158.98	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI	DASE PAP			BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU		60.71	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPH	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E	DIRECT): SERUM	55.72	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITIC	N			BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SI	FRUM	91.12	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPEC		71.12	mg/ dL	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER		103.26	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC		105.20	mg/uL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
		10.14	man (all	VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPEC		12.14	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	1	378.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R		2.85	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC				AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0
	10.4	1.64		HIGH RISK: > 11.0
LDL/HDL RATIO: SERU		1.64	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0
				HIGH RISK: > 6.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	1.09 ^L	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY 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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Miss. NAMAN AGE/ GENDER : 15 YRS/FEMALE **PATIENT ID** :1566139 **COLLECTED BY** REG. NO./LAB NO. :042407310002 : **REFERRED BY REGISTRATION DATE** : 31/Jul/2024 09:51 AM : **BARCODE NO.** : A0465103 **COLLECTION DATE** : 31/Jul/2024 03:05PM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 31/Jul/2024 04:01PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.37 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20

BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM	0.23	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.55	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	13.74	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, Spectrophotometry	1.5	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	86	U/L	0.0 - 500.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	16	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.95	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	5.06	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by Calculated, Spectrophotometry	2.89	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.75	RATIO	1.00 - 2.00
INTERPRETATION			

<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





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly In	creased)

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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		opra Microbiology) sultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. NAMAN			
AGE/ GENDER	: 15 YRS/FEMALE	Р	ATIENT ID	: 1566139
COLLECTED BY	:	R	EG. NO./LAB NO.	: 042407310002
REFERRED BY	:	R	EGISTRATION DATE	: 31/Jul/2024 09:51 AM
BARCODE NO.	: A0465103	С	OLLECTION DATE	: 31/Jul/2024 03:05PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	R	EPORTING DATE	: 31/Jul/2024 04:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIE	NEY FUNCTION	I TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	15.26	mg/dL	10.00 - 50.00
CREATININE: SERUM		0.51	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		7.13	mg/dL	7.0 - 25.0
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE	13.98	RATIO	10.0 - 20.0
UREA/CREATININE R by CALCULATED, SPE	ATIO: SERUM	29.92	RATIO	
URIC ACID: SERUM		3.5	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPEC		9.21	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER by PHOSPHOMOLYBD. ELECTROLYTES	UM ATE, SPECTROPHOTOMETRY	4.31	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	140.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE		3.66	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE		105.6	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE	141.3		

Dr. Vinay Chopra

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.



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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				D (Pathology)	
NAME	: Miss. NAMAN				
AGE/ GENDER	: 15 YRS/FEMALE	PA	TIENT ID	: 1566139	
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Test Name		Value	Unit	Biological Ref	ference interval
2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro	0:1) WITH DECREASED BUN : Dosis.	ье.	(,)	athy).	
DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients o INAPPROPIATE RATIO 1. Diabetic ketoacido:	osis. Id starvation. A creased urea synthesis. urea rather than creatinine di monemias (urea is virtually ab f inappropiate antidiuretic har 0:1) WITH INCREASED CREATIN by (accelerates conversion of de eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false	iffuses out of extracellu osent in blood). rmone) due to tubular VINE: creatine to creatinine). increase in creatinine	lar fluid). secretion of urea.		atio when dehydra
DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients 1. Diabetic ketoacido: should produce an ind 2. Cephalosporin ther	bsis. Id starvation. Acceased urea synthesis. Urea rather than creatinine di monemias (urea is virtually ab f inappropiate antidiuretic har 0:1) WITH INCREASED CREATIN by (accelerates conversion of de eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) apy (interferes with creatinine	iffuses out of extracellu osent in blood). rmone) due to tubular VINE: creatine to creatinine). increase in creatinine	lar fluid). secretion of urea.		atio when dehydra
DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients o INAPPROPIATE RATIO 1. Diabetic ketoacidos should produce an ino 2. Cephalosporin ther ESTIMATED GLOMERU	bsis. Id starvation. Accessed urea synthesis. Urea rather than creatinine di monemias (urea is virtually ab f inappropiate antidiuretic har 0:1) WITH INCREASED CREATIN by (accelerates conversion of de eleases muscle creatinine). who develop renal failure. Sis (acetoacetate causes false creased BUN/creatinine ratio) apy (interferes with creatinine LAR FILTERATION RATE:	iffuses out of extracellu osent in blood). rmone) due to tubular VINE: creatine to creatinine). increase in creatinine e measurement).	llar fluid). secretion of urea. with certain methodol	logies,resulting in normal ra	atio when dehydra
DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients 1. Diabetic ketoacido: should produce an ind 2. Cephalosporin ther	bsis. Id starvation. Acceased urea synthesis. Urea rather than creatinine di monemias (urea is virtually ab f inappropiate antidiuretic har 0:1) WITH INCREASED CREATIN by (accelerates conversion of de eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) apy (interferes with creatinine	iffuses out of extracellu osent in blood). rmone) due to tubular VINE: creatine to creatinine). increase in creatinine e measurement).	llar fluid). secretion of urea. with certain methodol		atio when dehydr.

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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Test Name	Val	ue 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	: Miss. NAMAN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM	TROPHOTOMETRY	38.09 ^L	μg/dL	50.0 - 170.0
UNSATURATED IRON SERUM	N BINDING CAPACITY (UIBC)	334.02	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN SERUM by SPECTROPHOTOM	G CAPACITY (TIBC)	372.11	μg/dL	230 - 430
%TRANSFERRIN SAT		10.24 ^L	%	15.0 - 50.0
TRANSFERRIN: SERU	. ,	264.2	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON:

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.

2. 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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		(Pathology & Microbiology)		n Chopra (Pathology) Pathologist
NAME	: Miss. NAMAN			
AGE/ GENDER	: 15 YRS/FEMALE		PATIENT ID	: 1566139
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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 31/Jul/2024 07:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	Value	Unit	Biological Reference interval
	тн		RINOLOGY CTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	1.224 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassa	6.57 (Y)	μgm/dL	4.87 - 13.20
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels be	tween 2-4 a.m ar imulates the pro	duction and secretion of the me	0.50 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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.

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	THYROXINE (T4)		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





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AGE/ GENDER	: 15 YRS/FEMALE	PATIENT ID	: 1566139
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Test Name		Value Un		Biological Reference in		
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECO	MMENDATIONS OF TSH LI	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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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	MD (Patho	y Chopra logy & Microbiology) & Consultant Pathologi		(Pathology)
IAME	: Miss. NAMAN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT	г	
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
			IYDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERU VESCENCE IMMUNOASSAY)	M 6.8 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:	CIENT:	< 20	n	g/mL
	FICIENT:	21 - 29		g/mL
	D RANGE: CATION:	<u>30 - 100 ng/r</u> > 100 ng/r		g/mL
conversion of 7- dihy 2.25-OHVitamin D re tissue and tightly bou 3. Vitamin D plays a p phosphate reabsorpt 4. Severe deficiency m DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advan	drocholecalciferol to Vitan epresents the main body re und by a transport protein rimary role in the mainten ion, skeletal calcium depos nay lead to failure to miner posure. malabsorption (celiac dise Vitamin D 25- hydroxylase iced Liver disease econdary Hyperparathroid	hin D3 in the skin upon esevoir and transport is while in circulation. ance of calcium home ition, calcium mobiliz alize newly formed os ase) activity ism (Mild to Moderate	n Ultraviolet exposure. form of Vitamin D and trans costatis. It promotes calciur ation, mainly regulated by steoid in bone, resulting in r e deficiency)	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and barathyroid harmone (PTH). rickets in children and osteomalacia in adults.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value Unit	t Biological Reference interval		
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM Nescent microparticle immunoassa	253 pg/i y)	mL 190.0 - 890.0		
	SED VITAMIN B12	DECREASED VI	TAMIN B12		
1.Ingestion of Vitan		1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convu	Isants, Colchicine		
3.Ingestion of Vitan 4.Hepatocellular in		3.Ethanol Igestion			
		4. Contraceptive Harmones 5.Haemodialysis			
	'e alsorder	5 Haemodialysis			
5.Myeloproliferativ 6.Uremia	lamin) is necessary for hematopoies	6. Multiple Myeloma			





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	Dr. Vinay Cho MD (Pathology & Chairman & Const	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Miss. NAMAN : 15 YRS/FEMALE : : : A0465105 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, A	REGIST COLLE REPOR	NT ID O./LAB NO. FRATION DATE CTION DATE CTING DATE	: 1566139 : 042407310002 : 31/Jul/2024 09:51 AM : 31/Jul/2024 03:07PM : 31/Jul/2024 03:58PM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINA		CLINICAL PATH		TION
COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 PALE YELLOW CLEAR 1.02	ml	PALE YELLOW CLEAR 1.002 - 1.030
REACTION by DIP STICK/REFLEC PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN by DIP STICK/REFLEC NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative 6 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)
KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative Negative NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

NAME	: Miss. NAMAN		
AGE/ GENDER	: 15 YRS/FEMALE	PATIENT ID	: 1566139
COLLECTED BY	:	REG. NO./LAB NO.	: 042407310002
REFERRED BY	:	REGISTRATION DAT	E : 31/Jul/2024 09:51 AM
BARCODE NO.	: A0465105	COLLECTION DATE	: 31/Jul/2024 03:07PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 31/Jul/2024 03:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
Test Name		Value Unit	Biological Reference interval

lest name	value	Unit	Biological Reference Interval
RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5
PITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-1	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
DTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

*** End Of Report ***



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

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