



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Miss. CHHAVI			
AGE/ GENDER	: 24 YRS/FEMALE		PATIENT ID	: 1567357
COLLECTED BY	:		REG. NO./LAB NO.	: 012408010038
REFERRED BY	:		REGISTRATION DATE	: 01/Aug/2024 12:32 PM
BARCODE NO.	: 01514254		COLLECTION DATE	: 02/Aug/2024 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 01/Aug/2024 01:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	SALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WI	ELLNESS PANEL: 1.5	
			OOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		12.3	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL (RI	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.68	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOLUM	VIE (PCV)	38.6	%	37.0 - 50.0
by CALCULATED BY A MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER	82.4	fL	80.0 - 100.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	AR HEMOGLOBIN CONC. (MCHC)	31.9 ^L	g/dL	32.0 - 36.0
	AUTOMATED HEMATOLOGY ANALYZER FION WIDTH (RDW-CV)	15.2	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER			
	FION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	46.6	fL	35.0 - 56.0
MENTZERS INDEX		17.61	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	ΞX	26.78	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED	_^	20.70	KATIO	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL	· · ·	7400	,	4000 11000
TOTAL LEUCOCYTE (COUNT (TLC) Y BY SF CUBE & MICROSCOPY	7490	/cmm	4000 - 11000
NUCLEATED RED BL by CALCULATED BY A MICROSCOPY	OOD CELLS (nRBCS) automated hematology analyzer &	NIL		0.00 - 20.00
NUCLEATED RED BL	OOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %
DIFFERENTIAL LEUC	<u>OCYTE COUNT (DLC)</u>			



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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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

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Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by flow cytometry by sf cube & microscopy	68	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1-6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5093	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1947	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	150	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	300	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKED	0 <u>RS.</u>	/cmm	0 - 110
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	356000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.41 ^H	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	12	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	35.7	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.1	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 01/Aug/2024 03:14PM
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Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOGLO	OBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	5.3	%	4.0 - 6.4
ESTIMATED AVERAGE F		105.41	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEN		n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	5.7 – 6.4		
Dia	gnosing Diabetes	>= 6.5 Age > 19 Years		
		Goals of Therapy:	19 Years < 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

>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

Age < 19 Years

appropriate. HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve compl 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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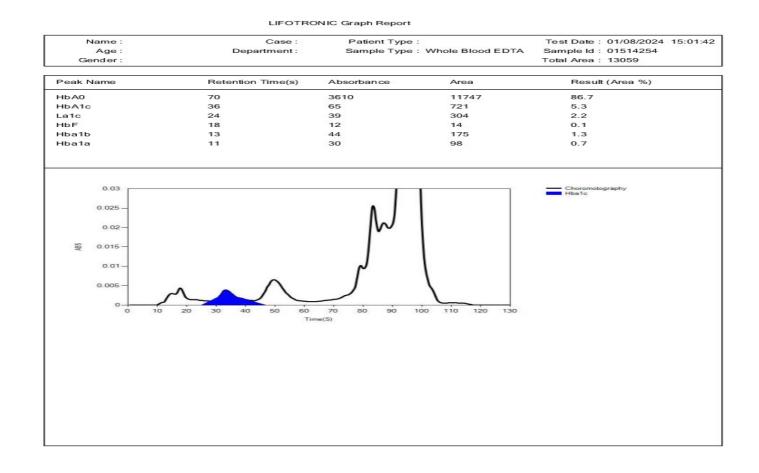
4.High







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Test Name		Value Unit	Biological Reference interval





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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIME	NTATION RATE (ESI	(7
	MENTATION RATE (ESR)	10	mm/1st h	r 0 - 20
ystemic lupus erythe CONDITION WITH LO' A low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactiv 2. Generally, ESR doe	be used to monitor disease active ematosus W ESR n with conditions that inhibit the ificantly high white blood cell of e cell anaemia) also lower the E e protein (C-RP) are both marker is not change as rapidly as does (by as many other factors as is ES	e normal sedimentat ount (leucocytosis) , :SR. 's of inflammation. CRP, either at the sta iR, making it a better	ion of red blood cells, so and some protein abno rt of inflammation or as marker of inflammation bulins or fibrinogen.	
If the ESR is elevat Women tend to ha Drugs such as dext	ed, it is typically a result of two t ve a higher ESR, and menstruatic ran, methyldopa, oral contracep d quinine may decrease it	on and pregnancy car	n cause temporary eleva procainamide, theophyl	tions. line, and vitamin A can increase ESR, while



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Test Name		Value	Unit	Biological Reference interval
	CLI		//BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	
	F): PLASMA	81.47	mg/dL	NORMAL: < 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 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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CLIENT ADDRESS : 6349/	1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	E : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAR		196.89	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIE	DASE (ENZYMATIC)	85.01	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): by SELECTIVE INHIBITION	SERUM	66.38	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHO	TOMETRY	117.51	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SER by CALCULATED, SPECTROPHO		130.51 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM		17	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPHO TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHO		482.79	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SE by CALCULATED, SPECTROPHO	RUM	2.97	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHO	TOMETRY	1.77	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	M	Guop	na	

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.28 ^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
Ľ	VER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.57	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.41	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.4	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.88	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METH PROPANOL	97.13 YL	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	10.35	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.23	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.04	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	3.19	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.27	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		



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HEPATOCELLULAR CA	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incr	reased)

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:**

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



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BARCODE NO.	: 01514254	COLLECTION DATE	: 02/Aug/2024 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 01/Aug/2024 02:44PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

		2	
кі	DNEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM	19.97	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM by enzymatic, spectrophotometery	0.73	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	9.33	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	12.78	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	27.36	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	3.08	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	10.31	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	3.06	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	142.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.31	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	106.65	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	117.7		

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







0 0 0 0 1 . 2 0 0 0 0 E H I	INTED END					
		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant		Dr. Yugam Chopra MD (Pathology) gist CEO & Consultant Pathologist		
JAME	: Miss. CHHA	VI				
GE/ GENDER	: 24 YRS/FEM	IALE	PAT	TENT ID	: 1567357	
OLLECTED BY	:		REC	. NO./LAB NO.	:01240801003	8
EFERRED BY	:		REC	ISTRATION DAT	FE : 01/Aug/2024 12	2:32 PM
BARCODE NO.	:01514254		COI	LECTION DATE	: 02/Aug/2024 09	
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		ORTING DATE	: 01/Aug/2024 02	
CLIENT ADDRESS		CHOLSON ROAD, AMBAI				
Test Name			Value	Unit	Biologic	al Reference interval
 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIC 1. Diabetic ketoacido should produce an ir 	e. ecreased urea sy (urea rather that monemias (ure of inappropiate 10:1) WITH INCR apy (accelerates releases muscle who develop re osis (acetoaceta acreased BUN/ci	an creatinine diffuses ou ea is virtually absent in b antidiuretic harmone) d REASED CREATININE: s conversion of creatine e creatinine). enal failure. tte causes false increase reatinine ratio).	plood). lue to tubular si to creatinine). in creatinine w	ecretion of urea.	odologies,resulting in nor	mal ratio when dehydratio
	rapy (interferes	with creatinine measure	ement).			
CKD STAGE		DESCRIPTION	GFR (mL/m	in/1.73m2)	ASSOCIATED FINDINGS	
G1		ormal kidney function		90	No proteinuria	
G2		Kidney damage with	>	90	Presence of Protein ,	
	r	normal or high GFR			Albumin or cast in urine	

Severe decrease in GFR Kidney failure

Mild decrease in GFR

Moderate decrease in GFR

G3a

G3b

G4

G5

60 - 89

30-59

15-29

<15

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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. CHHAVI		
AGE/ GENDER	: 24 YRS/FEMALE	PATIENT ID	: 1567357
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
			Biological Reference interval
Test Name	Value	Unit	Biolog

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. CHHAVI			
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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		45.01	μg/dL	37.0 - 145.0
by FERROZINE, SPEC				
UNSATURATED IRON SERUM	N BINDING CAPACITY (UIBC)	403.44 ^H	μg/dL	150.0 - 336.0
by FERROZINE, SPEC	TROPHOTOMETERY			
TOTAL IRON BINDING CAPACITY (TIBC)		448.45 ^H	μg/dL	230 - 430
:SERUM by SPECTROPHOTOM	IFTERY			
%TRANSFERRIN SATURATION: SERUM		10.04 ^L	%	15.0 - 50.0
by CALCULATED, SPECTROPHOTOMETERY (FERENE)				
TRANSFERRIN: SERU		318.4	mg/dL	200.0 - 350.0
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
DON			

IRON:

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 the deficiency anemia is the deficiency anemia in the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia in the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for the deficiency anemia is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency and the deficiency anemia from Beta thalassemia syndromes because during iron replacement which is the deficiency and the deficiency anemia from Beta thalassemia syndromes because during iron replace

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)		(Pathology)	
NAME	: Miss. CHHAVI				
AGE/ GENDER	: 24 YRS/FEMALE		PATIENT ID	: 1567357	
COLLECTED BY	:		REG. NO./LAB NO.	: 012408010038	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 01/Aug/2024 04:14PM	
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
	TI	HYROID FUI	NCTION TEST: TOTAL		
TRIIODOTHYRONINI		1.157	ng/mL	0.35 - 1.93	
THYROXINE (T4): SE	IESCENT MICROPARTICLE IMMUNOASS RUM IESCENT MICROPARTICLE IMMUNOASS	8.42	µgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :			µIU/mL	0.35 - 5.50	
day has influence on the trilodothyronine (T3).Fai		stimulates the p	production and secretion of the m	<i>m. The variation is of the order of 50%.Hence time of th</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	

CLINICAL CONDITION T/ тсн

CLINICAL CONDITION	13	14	ISH
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 levies 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)		THYROXINE (T4)		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		





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Test Name			Value	Unit	t	Biological Reference interva
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	OMMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)	-	
1st Trimester				0.10 - 2.50		
2nd Trimester 3rd Trimester			0.20 - 3.00 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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NAME : Miss. CHHAV	T			
AGE/ GENDER : 24 YRS/FEMA	LE	PATIEN	IT ID	: 1567357
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CLIENT CODE. : KOS DIAGNO			TING DATE	: 01/Aug/2024 04:14PM
CLIENT ADDRESS : 6349/1, NICH	IOLSON ROAD, AMBAL	A CANTT		
Test Name	V	alue	Unit	Biological Reference interval
				<u> </u>
		VITAMIN	6	
	VITAMIN	D/25 HYDROX	Y VITAMIN D3	
VITAMIN D (25-HYDROXY VITAMIN	D3)· SFRI IM	.5L	ng/mL	DEFICIENCY: < 20.0
by CLIA (CHEMILUMINESCENCE IMMUN		.5-	ing/ inc	INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
INTERPRETATION:				
DEFICIENT:		20		j/mL
INSUFFICIENT:		21 - 29		ı/mL
PREFFERED RANGE: INTOXICATION:		30 - 100 > 100		j/mL
tissue and tightly bound by a transpo 3.Vitamin D plays a primary role in th phosphate reabsorption, skeletal calc 4.Severe deficiency may lead to failur DECREASED: 1.Lack of sunshine exposure. 2.Inadequate intake, malabsorption (3.Depressed Hepatic Vitamin D 25- hy 4.Secondary to advanced Liver disease 5.Osteoporosis and Secondary Hypert 6.Enzyme Inducing drugs: anti-epilept INCREASED: 1. Hypervitaminosis D is Rare, and is s severe hypercalcemia and hyperphopl CAUTION: Replacement therapy in defi hypervitaminosis D	ain body resevoir and tra rt protein while in circu e maintenance of calciu ium deposition, calcium e to mineralize newly for celiac disease) droxylase activity e parathroidism (Mild to N ic drugs like phenytoin, een only after prolonge natemia. "icient individuals must l	Ansport form of V lation. Im homeostatis. I I mobilization, ma ormed osteoid in t Aoderate deficien phenobarbital an d exposure to ext pe monitored by p	tamin D and transp t promotes calcium inly regulated by p bone, resulting in ri cy) d carbamazepine, t remely high doses periodic assessmen	ickets in children and osteomalacia in adults.





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	MD (Pathology	athology & Microbiology)		ugam Chopra MD (Pathology) sultant Pathologist	
NAME	: Miss. CHHAVI				
AGE/ GENDER	: 24 YRS/FEMALE	PATIENT ID		: 1567357	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL				
		Value	Unit	Biological Reference interval	
/ITAMIN B12/COBAI		VITAMIN B12 230		190.0 - 890.0	
/ITAMIN B12/COBAI by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNC	VITAMIN B12 230	/COBALAMIN pg/mL	190.0 - 890.0	
INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNC	VITAMIN B12 230 VASSAY)	/COBALAMIN pg/mL DECREASED VITAMII	190.0 - 890.0	
VITAMIN B12/COBAI by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ESCENT MICROPARTICLE IMMUNC ED VITAMIN B12 hin C gen	VITAMIN B12 230 AASSAY) 1.Pregnand 2.DRUGS:A	/COBALAMIN pg/mL DECREASED VITAMII Cy Aspirin, Anti-convulsants	190.0 - 890.0	
VITAMIN B12/COBAI by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNC ED VITAMIN B12 hin C gen hin A	VITAMIN B12 230 ASSAY) 1.Pregnand 2.DRUGS:A 3.Ethanol	/COBALAMIN pg/mL DECREASED VITAMII Cy Aspirin, Anti-convulsants Igestion	190.0 - 890.0	
VITAMIN B12/COBAI by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular inj	ESCENT MICROPARTICLE IMMUNC ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12 230 ASSAY) 1.Pregnan 2.DRUGS:A 3.Ethanol 4. Contrac	/COBALAMIN pg/mL DECREASED VITAMII cy Aspirin, Anti-convulsants lgestion eptive Harmones	190.0 - 890.0	
VITAMIN B12/COBAI by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular inj 5.Myeloproliferative 6.Uremia	ESCENT MICROPARTICLE IMMUNC ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12 230 (ASSAY) 1.Pregnam 2.DRUGS:/ 3.Ethanol 4. Contrac 5.Haemod 6. Multiple	/COBALAMIN pg/mL DECREASED VITAMII cy Aspirin, Anti-convulsants Igestion eptive Harmones ialysis e Myeloma	190.0 - 890.0	





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	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. CHHAVI			
AGE/ GENDER	: 24 YRS/FEMALE	PATI	ENT ID	: 1567357
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BARCODE NO.	: 01514254		ECTION DATE	: 02/Aug/2024 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 02/Aug/2024 10:41AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A		ATTING DATE	. 02/110/ 2024 10.41110
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
		OUTINE & MICROS		ION
PHYSICAL EXAMINA				
		10		
QUANTITY RECIEVED) TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		PALE YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
-	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
by DIP STICK/REFLEC PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD				
		Negative		NEGATIVE (-ve)
		Negative		NEGATIVE (-ve)
bLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

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.



NANGE





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

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

NAME	: Miss. CHHAVI				
AGE/ GENDER	: 24 YRS/FEMALE	PATIENT	' ID	: 1567357	
COLLECTED BY	:	REG. NO.	/LAB NO.	: 012408010038	
REFERRED BY	:	REGISTR	ATION DATE	: 01/Aug/2024 12:32 PM	
BARCODE NO.	: 01514254	COLLECTION DATE		: 02/Aug/2024 09:34AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 02/Aug/2024 10:41AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	ABSENT	
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)	

CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS

CITILAN

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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

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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

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