



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	obiology)	M	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. ARCHANA GAUR			
AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1553884
COLLECTED BY	:		REG. NO./LAB NO.	: 012407190016
REFERRED BY	:		REGISTRATION DATE	: 19/Jul/2024 08:20 AM
BARCODE NO.	: 01513409		COLLECTION DATE	: 19/Jul/2024 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Jul/2024 09:07AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA W	ELLNESS PANEL: 1.5	
	COM	IPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (R	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		8.2 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RE	COUNT	4.23	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUN		27.3 ^L	%	37.0 - 50.0
MEAN CORPUSCULA		64.7 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	19.3 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	29.8 ^L	g/dL	32.0 - 36.0
	TON WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	18.1 ^H	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	43.6	fL	35.0 - 56.0
MENTZERS INDEX		15.3	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	Х	27.56	RATIO	BETA THALASSEMIA TRAIT: < = 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE C		9440	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %
DIFFERENTIAL LEUCO	<u>DCYTE COUNT (DLC)</u>			



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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS		63	%	50 - 70
	Y BY SF CUBE & MICROSCOPY			
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	30	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
	Y BY SF CUBE & MICROSCOPY		70	T-0
MONOCYTES		6	%	2 - 12
-	Y BY SF CUBE & MICROSCOPY			
BASOPHILS		0	%	0 - 1
ABSOLUTE LEUKOCY	Y BY SF CUBE & MICROSCOPY			
		5047	lanan	2000 7500
ABSOLUTE NEUTRO	PHIL COUNT Y BY SF CUBE & MICROSCOPY	5947	/cmm	2000 - 7500
ABSOLUTE LYMPHO		2832	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	2002	,	
ABSOLUTE EOSINOP		94	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	F//	,	00,000
ABSOLUTE MONOC	YTE COUNT Y BY SF CUBE & MICROSCOPY	566	/cmm	80 - 880
ABSOLUTE BASOPHI		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY			
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (P		261000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)		0.34	%	0.10 - 0.36
MEAN PLATELET VO	FOCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	19.	IL.	0.00 12.0
PLATELET LARGE CE	LL COUNT (P-LCC) Focusing, electrical impedence	141000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE		54 ^H	%	11.0 - 45.0
PLATELET DISTRIBU	FOCUSING, ELECTRICAL IMPEDENCE	15.4	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE	10.4	70	13.0 17.0

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

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Test Name		Value	Unit	Biological Reference interval	
	GL	YCOSYLATED HAEMOGL	OBIN (HBA1C)		
GLYCOSYLATED HAEMO		YCOSYLATED HAEMOGLO 7.5 ^H	OBIN (HBA1C) %	4.0 - 6.4	
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):			4.0 - 6.4 60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	7.5 ^H	%		
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN	% mg/dL MOGLOGIB (HBAIC) ii	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabo	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN	% mg/dL <u>MOGLOGIB (HBAIC) in</u> <5.7	60.00 - 140.00	
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabo At R	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years tisk (Prediabetes)	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN	% mg/dL <u>MOGLOGIB (HBAIC) in</u> <5.7 7 – 6.4	60.00 - 140.00	
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabo At R	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: >	% mg/dL <u>MOGLOGIB (HBAIC) in</u> <5.7 7 – 6.4 = 6.5	60.00 - 140.00	
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabo At R	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years tisk (Prediabetes)	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: Age >	% mg/dL <u>MOGLOGIB (HBAIC) in</u> <5.7 7 – 6.4 = 6.5 • 19 Years	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabu At R Diac	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years tisk (Prediabetes) gnosing Diabetes	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: > Age > Goals of Therapy:	% mg/dL <5.7 7 - 6.4 = 6.5 • 19 Years < 7.0	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabu At R Diac	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years tisk (Prediabetes)	7.5 ^H 168.55 ^H ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: 5.: Solution Suggested: Actions Suggested:	% mg/dL <u>MOGLOGIB (HBAIC) in</u> <5.7 7 – 6.4 = 6.5 • 19 Years	60.00 - 140.00	

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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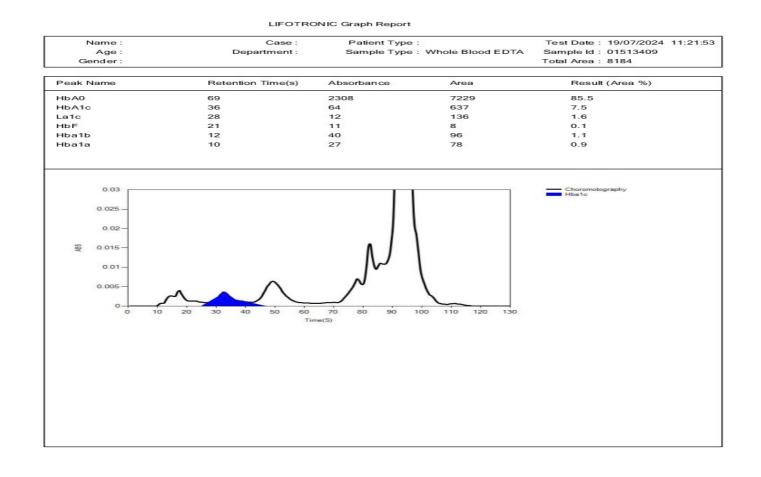
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Test Name		Value Unit	Biological Reference interval





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTATION RATE ((ESR)
by MODIFIED WESTE INTERPRETATION: 1. ESR is a non-specif	MENTATION RATE (ESR) RGREN AUTOMATED METHOD fic test because an elevated resul does not tell the health practitic	35 ^H mm/1 It often indicates the presence of inflammer oner exactly where the inflammation is in	Ist hr 0 - 20 mation associated with infection, cancer and auto- the body or what is causing it. s typically used in conjunction with other test such
as C-reactive protein 3. This test may also systemic lupus eryth	be used to monitor disease activ		s typically used in conjunction with other test such ne above diseases as well as some others, such as
CONDITION WITH LO A low ESR can be see (polycythaemia), sign as sickle cells in sick	W ESR en with conditions that inhibit the	e normal sedimentation of red blood cell bunt (leucocytosis) , and some protein al SR.	s, such as a high red blood cell count onormalities. Some changes in red cell shape (such
NOTE: 1. ESR and C - reactiv	e protein (C-RP) are both marker	s of inflammation.	

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.

3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA SE - PEROXIDASE (GOD-POD)	GLUCOSE FAS 144.68 ^H	TING (F) mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAI	L: SERUM	165.92	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			3.1	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	130.61	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I	DIRECT): SERUM	45.18	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ON			BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S	FRUM	94.62	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE		74.02	ing/ dL	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159
				HIGH: 160.0 - 189.0
NON HDL CHOLESTEI		120.74	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPE		120.74	ing/uL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.
				HIGH: 190.0 - 219.0
VLDL CHOLESTEROL:		26.12	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE		20.12	ilig/uL	0.00 - 43.00
TOTAL LIPIDS: SERUN		462.45	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HDL F		3.67	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE		5.07	KATIO	AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER	UM	2.09	RATIO	LOW RISK: 0.50 - 3.0
by CALCULATED, SPE		2.0		MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	2.89 ^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.

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

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





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Test Name		Value	Unit	Biological Reference interval
	LIVE	ER FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S by diazotization, sf		0.22	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.11	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	18.24	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.14	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	UM	0.86	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		85.1	U/L	40.0 - 150.0
GAMMA GLUTAMYL by szasz, spectrof	. TRANSFERASE (GGT): SERUM	14.2	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	7.66	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.2	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.46	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.21	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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



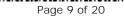


DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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







INTERPRETATION





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam C MD (Pa & Consultant Pa	ithology)
NAME	: Mrs. ARCHANA GAUR			
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID	1	: 1553884
COLLECTED BY	:	REG. NO./LA	AB NO.	: 012407190016
REFERRED BY	:	REGISTRAT	ION DATE	: 19/Jul/2024 08:20 AM
BARCODE NO.	: 01513409	COLLECTIO	N DATE	: 19/Jul/2024 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	DATE	: 19/Jul/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.	3 (Slightly Increa	sed)

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

Г

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

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Page 10 of 20





	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. ARCHANA GAUR			
AGE/ GENDER	: 43 YRS/FEMALE	PATI	ENT ID	: 1553884
COLLECTED BY	:	REG. I	NO./LAB NO.	: 012407190016
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KI	ONEY FUNCTION TES	ST (COMPLETE)	
UREA: SERUM		21.79	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)	0.54		0.40, 1.00
CREATININE: SERUN by ENZYMATIC, SPEC		0.54	mg/dL	0.40 - 1.20
BLOOD UREA NITRO)GEN (BUN): SERUM	10.18	mg/dL	7.0 - 25.0
	ес <i>ткорнотометку</i>)GEN (BUN)/CREATININE	18.85	RATIO	10.0 - 20.0
RATIO: SERUM		10.05	KATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I	RATIO: SERUM ECTROPHOTOMETRY	40.35	RATIO	
URIC ACID: SERUM		5.6	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	8.75	ma/dl	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	0.70	mg/dL	8.50 - 10.80
PHOSPHOROUS: SEF		3.11	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBI ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		139.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	137.7	THINOI/ L	133.0 - 130.0
POTASSIUM: SERUM		3.79	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUM	ie eleutrude)	104.93	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	,			
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	117.1		
(eGFR): SERUM				

by CALCULATED

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	Microbiology)			
IAME	: Mrs. ARCHANA GAUR				
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID	: 1553884		
COLLECTED BY		REG. NO./LAB NO.	:012407190016		
EFERRED BY		REGISTRATION DA) AM	
ARCODE NO.	: 01513409	COLLECTION DATE			
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Jul/2024 10:36	DAM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT			
est Name		Value Unit	Biological	Reference interval	
. Reduced muscle m . Certain drugs (e.g. VCREASED RATIO (>2 . Postrenal azotemia . Prerenal azotemia	superimposed on renal disease.		uropathy).		
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido cephalosporin ther 	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diffusi- monemias (urea is virtually absen- of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u>	EVELS: bre than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. time to creatinine). rease in creatinine with certain mether easurement). GFR (mL/min/1.73m2)	odologies,resulting in norma	al ratio when dehydratio	
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diffusi- monemias (urea is virtually absen- of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> Normal kidney function	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. :: itine to creatinine). rease in creatinine with certain mether essurement).	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria	al ratio when dehydratic	
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diffusi- monemias (urea is virtually absen of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> Normal kidney function Kidney damage with	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. :: itine to creatinine). rease in creatinine with certain mether essurement).	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydratio	
. Reduced muscle m . Certain drugs (e.g. VCREASED RATIO (>2 . Postrenal azotemia Perenal azotemia DECREASED RATIO (< . Acute tubular necr . Low protein diet ar . Severe liver disease . Other causes of de . Repeated dialysis (. Inherited hyperam . SIADH (syndrome of . Pregnancy. DECREASED RATIO (< . Phenacimide thera . Rhabdomyolysis (r . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido hould produce an in . Cephalosporin ther STIMATED GLOMERU G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diffusi- monemias (urea is virtually absen of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. :: itine to creatinine). rease in creatinine with certain metherasurement). On >90 i >90	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria	al ratio when dehydratio	
. Reduced muscle m . Certain drugs (e.g. . VCREASED RATIO (>2 . Postrenal azotemia Prerenal azotemia ECREASED RATIO (< . Acute tubular necr . Low protein diet ar . Severe liver disease . Other causes of de . Repeated dialysis (. Inherited hyperam . SIADH (syndrome of . Pregnancy. ECREASED RATIO (< . Phenacimide thera . Rhabdomyolysis (r . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido nould produce an in . Cephalosporin ther STIMATED GLOMERL G1 G2 . G3a	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. furea rather than creatinine diffusi monemias (urea is virtually absen of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me <u>JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFF</u>	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. :: itine to creatinine). rease in creatinine with certain mether essurement). On >90 0 >90 0 >90 0 2 60 - 89	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydratic	
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU G1 G2 </u>	(e.g. ureter colostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diffusi- monemias (urea is virtually absen of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me <u>JLAR FILTERATION RATE:</u> DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: ore than creatinine) (e.g. obstructive es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea. :: itine to creatinine). rease in creatinine with certain mether essurement). on >90 a 60 - 89 GFR 30-59	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydratic	



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

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









		(Pathology)
: Mrs. ARCHANA GAUR		
: 43 YRS/FEMALE	PATIENT ID	: 1553884
:	REG. NO./LAB NO.	: 012407190016
:	REGISTRATION DATE	: 19/Jul/2024 08:20 AM
: 01513409	COLLECTION DATE	: 19/Jul/2024 09:59AM
: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Jul/2024 10:36AM
: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
		Biological Reference interval
	Chairman & Consultant Path : Mrs. ARCHANA GAUR : 43 YRS/FEMALE : : : 01513409 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CA	CEO & Consultant : Mrs. ARCHANA GAUR : 43 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01513409 COLLECTION DATE

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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	ME	r. Vinay Chopra D (Pathology & Microbiolog airman & Consultant Patho			nology)
NAME	: Mrs. ARCHANA	GAUR			
AGE/ GENDER	: 43 YRS/FEMAL	E	PATIENT ID	: 1	1553884
COLLECTED BY	:		REG. NO./LAB NO	. :(012407190016
REFERRED BY	:		REGISTRATION D	ATE : 1	19/Jul/2024 08:20 AM
BARCODE NO.	:01513409		COLLECTION DAT	TE : 1	19/Jul/2024 09:59AM
CLIENT CODE.	: KOS DIAGNOST	'IC LAB	REPORTING DAT	E : 1	19/Jul/2024 12:14PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Un	nit	Biological Reference interval
			RON PROFILE		
IRON: SERUM	TROPHOTOMETRY	32.4 ^L	με	g/dL	50.0 - 170.0
by FERROZINE, SPECTROPHOTOMETRY UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM			₉ Η με	g/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDING :SERUM by SPECTROPHOTOM	G CAPACITY (TIBC)		2 με	g/dL	230 - 430
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUM		%		15.0 - 50.0
TRANSFERRIN: SERU	М	268.5	52 m	g/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB	LES A	ANEMIA OF CHRONIC DISE Normal to Reduced	ASE IRON DEFICIENCY Reduced		THALASSEMIA α/β TRAIT Normal

<u>NTERPRETATION:-</u>			
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:

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







's. ARCHANA GAUR YRS/FEMALE 513409 S DIAGNOSTIC LAB		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE	: 1553884 : 012407190016 : 19/Jul/2024 08:20 AM
513409		REG. NO./LAB NO. REGISTRATION DATE	: 012407190016
		REGISTRATION DATE	
			: 19/Jul/2024 08:20 AM
S DIAGNOSTIC LAB		COLLECTION DATE	: 19/Jul/2024 09:59AM
		REPORTING DATE	: 19/Jul/2024 10:36AM
49/1, NICHOLSON ROAD, AMBA	ALA CANTT	ſ	
	Value	Unit	Biological Reference interval
	ENDO	CRINOLOGY	
THYR	OID FUN	CTION TEST: TOTAL	
	0.869	ng/mL	0.35 - 1.93
	7.71	μgm/dL	4.87 - 12.60
IT MICROPARTICLE IMMUNOASSAY)	3.266	μIU/mL	0.35 - 5.50
SITIVE			
	SERUM NT MICROPARTICLE IMMUNOASSAY) NT MICROPARTICLE IMMUNOASSAY) ORMONE (TSH): SERUM NT MICROPARTICLE IMMUNOASSAY) ISTIVE IN variation, reaching peak levels betwee red serum TSH concentrations.TSH stim	ENDOO THYROID FUN SERUM 0.869 VT MICROPARTICLE IMMUNOASSAY) NT MICROPARTICLE IMMUNOASSAY) ORMONE (TSH): SERUM 3.266 VT MICROPARTICLE IMMUNOASSAY) SITIVE	ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL SERUM 0.869 ng/mL NT MICROPARTICLE IMMUNOASSAY) 7.71 µgm/dL NT MICROPARTICLE IMMUNOASSAY) 3.266 µIU/mL

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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 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) THYRO		(INE (T4)	THYROID STIMU	LATING 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 PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		Dr. Vinay Ch MD (Pathology & Chairman & Con			J gam C MD (Pat ultant Pat	thology)	
NAME	: Mrs. ARCH	ANA GAUR					
AGE/ GENDER	: 43 YRS/FEM	IALE		PATIENT ID	:	1553884	
COLLECTED BY	:			REG. NO./LAB NO.	:	0124071900	16
REFERRED BY	:			REGISTRATION DA	TE :	19/Jul/20240	8:20 AM
BARCODE NO.	:01513409			COLLECTION DATE	:	19/Jul/2024 0	9:59AM
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DATE	:	19/Jul/2024 1	0:36AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD,	AMBALA CANTT				
Test Name			Value	Unit		Biolog	ical Reference interval
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	
RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (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





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 C MD (Pathology Chairman & Co			(Pathology)
NAME	: Mrs. ARCHANA GAUR			
AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1553884
COLLECTED BY	:		REG. NO./LAB NO.	: 012407190016
REFERRED BY	:		REGISTRATION DATE	: 19/Jul/2024 08:20 AM
BARCODE NO.	: 01513409		COLLECTION DATE	: 19/Jul/2024 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Jul/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by CLIA (CHEMILUMIN	VI ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)		AMINS /DROXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>INTERPRETATION:</u> DEFIC	IFNT	< 20	n	ŋ/mL
INSUFF		21 - 29		j/mL
PREFFERE		30 - 100		j/mL
conversion of 7- dihvo 2.25-OHVitamin D re- tissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorpti 4.Severe deficiency m DECREASED: 1.Lack of sunshine ext 2.Inadequate intake, 3.Depressed Hepatic M 4.Secondary to advan 5.Osteoporosis and Se 6.Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D severe hypercalcemia CAUTION: Replacement hypervitaminosis D	ds are derived from dietary ero drocholecalciferol to Vitamin D presents the main body reseven nd by a transport protein whill imary role in the maintenance on, skeletal calcium deposition ay lead to failure to mineralize bosure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activiced Liver disease econdary Hyperparathroidism (ugs: anti-epileptic drugs like pf is Rare, and is seen only after and hyperphophatemia. ht therapy in deficient individu.	3 in the skin upon bir and transport fo e in circulation. e of calcium homeo n, calcium mobilizat e newly formed oste vity (Mild to Moderate henytoin, phenobar prolonged exposur als must be monito	blants, Vitamin D2), or cho Ultraviolet exposure. Form of Vitamin D and transport tion, mainly regulated by p eoid in bone, resulting in r deficiency) bital and carbamazepine, for the to extremely high doses ored by periodic assessmen	g/mL lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and barathyroid harmone (PTH). lickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>





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	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)		(Pathology)	
NAME AGE/ GENDER COLLECTED BY	: Mrs. ARCHANA GAUR : 43 YRS/FEMALE :		PATIENT ID REG. NO./LAB NO.	: 1553884 : 012407190016	
REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: : 01513409 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANT'	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 19/Jul/2024 08:20 AM : 19/Jul/2024 09:59AM : 19/Jul/2024 10:36AM	
Test Name		Value	Unit	Biological Reference interval	
by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INTERPRETATION:- INCREASED VITAMIN B12 Indestion of Vitamin C			DECREASED VITAMIN B12		
1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	1.Ingestion of Vitamin C 2.Ingestion of Estrogen 3.Ingestion of Vitamin A		1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion		
4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia 1.Vitamin B12 (cobalamin) is necessary for hematopoiesis a		5.Haen 6. Mult	4. Contraceptive Harmones 5.Haemodialysis 6. Multiple Myeloma sis and normal neuronal function.		
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing f NOTE: A normal serur deficiency at the cell	tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sect intestinal diseases). ency frequently causes macrocyt coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine levels or antibodies to intrinsic factor (n concentration of vitamin B12 d	s and requires in ally, reabsorbing retion by gastric ic anemia, gloss avioral changes. s are also elevate IF) is recommen loes not rule out f clinical sympto	trinsic factor (IF) for absorp y vitamin B12 from the ileun mucosa (eg, gastrectomy, g itis, peripheral neuropathy, These manifestations may o ed in vitamin B12 deficiency ded to identify this potentia tissue deficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME : Mrs. ARCHANA GAUR				
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID		: 1553884
COLLECTED BY :		REG. NO./LAB NO.		: 012407190016
REFERRED BY :		REGISTRATION DATE		: 19/Jul/2024 08:20 AM
BARCODE NO. : 01513409		COLLECTION DATE		: 19/Jul/2024 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 19/Jul/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
				/
Test Name		Value	Unit	Biological Reference interval
CLINICAL PATHOLOGY				
URINE ROUTINE & MICROSCOPIC EXAMINATION				
PHYSICAL EXAMINATION				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		10		
COLOUR		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		11/121		OLD WY
SPECIFIC GRAVITY		1.02		1.002 - 1.030
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY CHEMICAL EXAMINATION				
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		ACIDIC		
PROTEIN		Negative Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR				NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				NEOATIVE (-Ve)
рН		<=5.0		5.0 - 7.5
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN		Negative		NEGATIVE (-ve)
bilikubin by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-Ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NUTTIAL	LU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD		Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		
ASCORBIC ACID		NEGATIVE (-ve)	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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

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

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EXCELLENCE IN HEALTHCARE A DIAGNOSTICS

MD (Pathology)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. ARCHANA GAUR AGE/ GENDER : 43 YRS/FEMALE **PATIENT ID** :1553884 **COLLECTED BY** REG. NO./LAB NO. :012407190016 **REFERRED BY REGISTRATION DATE** : 19/Jul/2024 08:20 AM **BARCODE NO.** :01513409 **COLLECTION DATE** : 19/Jul/2024 09:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 19/Jul/2024 10:43AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** NEGATIVE (-ve) **RED BLOOD CELLS (RBCs)** /HPF 0 - 3 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS 3-5 /HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS 2-3 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve)

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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)

ABSENT





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

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