



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	1	am Chopra MD (Pathology) tant Pathologist	
NAME	: Mr. GURJAS SINGH				
AGE/ GENDER	: 18 YRS/MALE		PATIENT ID	: 156614	40
COLLECTED BY	:		REG. NO./LAB NO.	:01240	07310022
REFERRED BY	:		REGISTRATION DAT	E : 31/Jul/	/2024 09:54 AM
BARCODE NO.	: 01514162		COLLECTION DATE	: 31/Jul/	/2024 11:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 31/Jul/	/2024 10:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANT	Т		
Test Name		Value	Unit		Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1	.5	
	CON		LOOD COUNT (CBC)		
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		14.2	gm/dl		12.0 - 17.0
by CALORIMETRIC					
RED BLOOD CELL (RE	SC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.34 ^H	Millio	ns/cmm	3.50 - 5.00
PACKED CELL VOLUN	/IE (PCV)	45.2	%		40.0 - 54.0
MEAN CORPUSCULA	NUTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	84.6	fL		80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.7 ^L	pg		27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL		32.0 - 36.0
-	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-CV)	14.4	%		11.00 - 16.00
		45.0			
	ION WIDTH (RDW-SD)	45.8	fL		35.0 - 56.0
MENTZERS INDEX		15.84	RATIC)	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	Y	22.91	RATIC	h	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED	Λ	22.71	KATIC		65.0
					IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS					
TOTAL LEUCOCYTE C	OUNT (TLC) Y by sf cube & microscopy	6980	/cmm		4000 - 11000
NUCLEATED RED BLC		NIL			0.00 - 20.00
NUCLEATED RED BLC	DOD CELLS (NRBCS) % NUTOMATED HEMATOLOGY ANALYZER &	NIL	%		< 10 %



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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. GURJAS SINGH **AGE/ GENDER** : 18 YRS/MALE **PATIENT ID** :1566140 **COLLECTED BY** :012407310022 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 31/Jul/2024 09:54 AM **BARCODE NO.** :01514162 **COLLECTION DATE** : 31/Jul/2024 11:42AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 31/Jul/2024 10:22AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 49^L % NEUTROPHILS 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 20 - 40 41^H % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % **FOSINOPHILS** 4 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 6 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3420 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2862 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 279 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 419 80 - 880 ABSOLUTE MONOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 307000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.35 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 11 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 108000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 35.1 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.6 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

Dr. Vinay Chopra

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 31/Jul/2024 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOG	OBIN (HBA1C)	
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	5.2	%	4.0 - 6.4
ESTIMATED AVERAGE		102.54	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	ETES ASSOCIATION (ADA):		
REFERENCE GROUP		GLYCOSYLATED HE	MOGLOGIB (HBAIC) in %	
	Non diabetic Adults >= 18 years		<5.7	
Non diab			7 ()	
Non diab At F	Risk (Prediabetes)	-	.7 - 6.4	
Non diab At F			.7 – 6.4 >= 6.5 > 19 Years	

COMMENTS:

1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of

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

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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MBBS, MD (PATHOLOGY)

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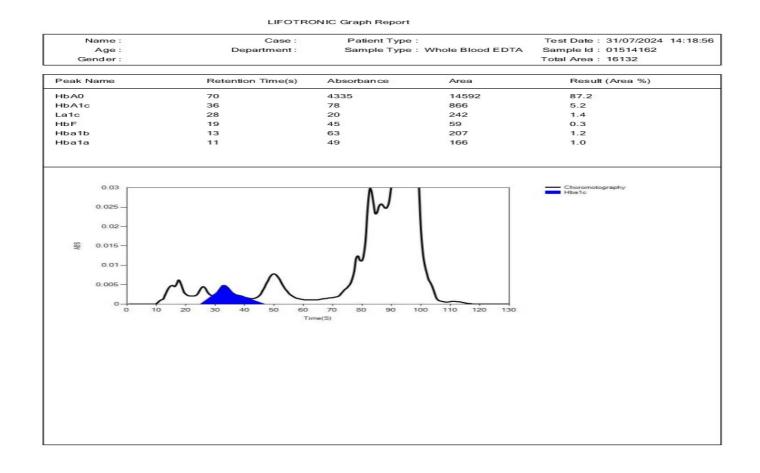


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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA CANTT	
Test Name		Value Unit	Biological Reference interval





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 31/Jul/2024 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDI	MENTATION RATE (ES	SR)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	2	mm/1st	hr 0 - 20
(polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	W ESR n with conditions that inhibit the ificantly high white blood cell cc e cell anaemia) also lower the E e protein (C-RP) are both markers as not change as rapidly as does C by as many other factors as is ES ed, it is typically a result of two t ve a higher ESR, and menstruatio	bunt (leucocytosi SR. s of inflammatior CRP, either at the R, making it a be sypes of proteins, on and pregnancy	is), and some protein abno n. e start of inflammation or a tter marker of inflammatio , globulins or fibrinogen. , can cause temporary eley	n.
			Λ	





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		Mopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. GURJAS SINGH			
AGE/ GENDER	: 18 YRS/MALE	PAT	FIENT ID	: 1566140
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 31/Jul/2024 03:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	D, AMBALA CANTT Value	Unit	Biological Reference interval
		Value	Y/BIOCHEMISTR	

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
		GLUCOSE POS	ST PRANDIAL (PP)	
GLUCOSE POST PRAI by GLUCOSE OXIDAS	NDIAL (PP): PLASMA E - PEROXIDASE (GOD-POD)	91.58	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0
INTERPRETATION				

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A post-prandial glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level of above 200 mg/dl is necess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER	: Mr. GURJAS SINGH : 18 YRS/MALE	₽۸	FIENT ID	: 1566140
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 31/Jul/2024 12:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA			
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O>		141.83	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	77.95	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		48.23	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		78.01	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 CHOLESTE by CALCULATED, SPE		93.6	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 by CALCULATED, SPE		15.59	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	361.61	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	2.94	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: SER by CALCULATED, SPE		1.62	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.62 ^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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Dr. Vinay Chopra

Test Name	Value	Unit	Biological Reference interval
u	VER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.71	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	0.55	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.09	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.51	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.07	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHY PROPANOL	80.68 ″L	U/L	50.00 - 370.00
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	13.06	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.21	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.2	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.32	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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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increase	d)

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

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

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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
NAME	: Mr. GURJAS SINGH				
AGE/ GENDER	: 18 YRS/MALE	Р	ATIENT ID	: 1566140	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012407310022	
REFERRED BY	:	R	EGISTRATION DATE	: 31/Jul/2024 09:54 AM	
BARCODE NO.	:01514162	С	OLLECTION DATE	: 31/Jul/2024 11:42AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 31/Jul/2024 12:18PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	KI	ONEY FUNCTION	I TEST (COMPLETE)		
UREA: SERUM		33.39	mg/dL	10.00 - 50.00	
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)		°,		
CREATININE: SERUN		1.17	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC BLOOD UREA NITRO		15.6	mg/dL	7.0 - 25.0	
by CALCULATED, SPE		10.0	ing/ dE	1.0 20.0	
	GEN (BUN)/CREATININE	13.33	RATIO	10.0 - 20.0	
RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY				
UREA/CREATININE F		28.54	RATIO		
by CALCULATED, SPE		20.01			
URIC ACID: SERUM		7.52	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS CALCIUM: SERUM	E PERUXIDASE	10.49	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE	CTROPHOTOMETRY	10.17	ing/ dE	0.00 10.00	
PHOSPHOROUS: SER		3.76	mg/dL	2.30 - 4.70	
ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
		142.0	mm cl /l	125.0.150.0	
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	142.8	mmol/L	135.0 - 150.0	
POTASSIUM: SERUN	1	3.92	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV	E ELECTRODE)	107.1		00.0.110.0	
CHLORIDE: SERUM by ISE (ION SELECTIV		107.1	mmol/L	90.0 - 110.0	
	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	92.7			
(eGFR): SERUM		12.1			
by CALCULATED					

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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LIENT CODE.	: KOS DIAGN	OSTIC LAB	REP	ORTING DATE	: 31/Jul/2024 12:18	BPM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMBA	LA CANTT			
Test Name			Value	Unit	Biological	Reference interval
 Inherited hyperam SIADH (syndrome of Beregnancy. Pregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in 	creased urea s (urea rather tha monemias (ure of inappropiate 10:1) WITH INCF py (accelerates eleases muscle who develop re sis (acetoaceta creased BUN/c	an creatinine diffuses ou ea is virtually absent in b antidiuretic harmone) d REASED CREATININE: s conversion of creatine e creatinine). enal failure. hte causes false increase	blood). due to tubular se to creatinine). e in creatinine w	cretion of urea.	logies,resulting in norma	al ratio when dehydratio
ESTIMATED GLOMERU		ON RATE:				_
CKD STAGE		DESCRIPTION	GFR (mL/m		SSOCIATED FINDINGS	4
G1		ormal kidney function	>9		No proteinuria	4
G2		(idney damage with normal or high GFR	>9		Presence of Protein , bumin or cast in urine	
G3a		Aild decrease in GFR	60		Dumini of Cast III UTITE	1
G3b		derate decrease in GFR	30-			1
000		vora dogrago in CED	15			4

G4

G5

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Severe decrease in GFR

Kidney failure

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15-29

<15

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Test Name	Value	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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Test Name		Value	Unit	Biological Reference interva	
IRON: SERUM		155.1		59.0 - 158.0	
by FERROZINE, SPEC	TROPHOTOMETRY	100.1	μg/dL	59.0 - 158.0	
UNSATURATED IRON SERUM by FERROZINE, SPEC	N BINDING CAPACITY (JIBC) 139.41 ^L	μg/dL	150.0 - 336.0	
TOTAL IRON BINDIN SERUM	G CAPACITY (TIBC)	294.51	μg/dL	230 - 430	
%TRANSFERRIN SAT		52.66 ^H	%	15.0 - 50.0	
TRANSFERRIN: SERU by SPECTROPHOTOM	M	209.1	mg/dL	200.0 - 350.0	
INTERPRETATION:- VARIAB	LES ANEN		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT	

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	ROID FUI	NCTION TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	1.134 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SEF	RUM iescent microparticle immunoassa	7.75 Y)	μgm/dL	4.87 - 13.20
	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSA	2.061 _{Y)}	μlU/mL	0.50 - 5.50

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.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		ONINE (T3) THYROXINE (T4)		THYROID STIMUL	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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NAME	: Mr. GURJAS SINGH		
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			/
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit	•	Biological 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	
	RECON	IMENDATIONS OF TSH LI	EVELS DURING PREC	SNANCY (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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NAME AGE/ GENDER	: MF. GURJAS SINGH : 18 YRS/MALE	ПА	TIENT ID	: 1566140
	: 18 IK5/ MALE			
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Test Name		Value	Unit	Biological Reference interval
	Л	IMUNOPATHOL	OGY/SEROLOGY	
		C-REACTIVE PR	OTEIN (CRP)	
		0.77	mg/L	0.0 - 6.0
C-REACTIVE PROTEI	N (CRP) QUANTITATIVE:	0111		
SERUM	N (CRP) QUANTITATIVE:			
	N (CRP) QUANTITATIVE:			

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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AGE/ GENDER : 18 COLLECTED BY : REFERRED BY : BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name	r. GURJAS SINGH YRS/MALE 514162 DS DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, A	REC REC COI REF	TENT ID 5. NO./LAB NO. HISTRATION DATE LECTION DATE PORTING DATE	: 1566140 : 012407310022 : 31/Jul/2024 09:54 : 31/Jul/2024 11:42/ : 31/Jul/2024 11:11/	AM
COLLECTED BY : REFERRED BY : BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name	514162 DS DIAGNOSTIC LAB	REC REC COI REF AMBALA CANTT	. NO./LAB NO. ISTRATION DATE LECTION DATE	: 012407310022 : 31/Jul/2024 09:54 : 31/Jul/2024 11:42/	AM
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BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name	OS DIAGNOSTIC LAB	COI REF AMBALA CANTT	LECTION DATE	: 31/Jul/2024 11:424	AM
CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name	OS DIAGNOSTIC LAB	REF AMBALA CANTT			
Test Name	49/1, NICHOLSON ROAD, A				Jul/2024 11:11AM
		Value			
VITAMIN D (25-HYDROXY			Unit	Biological F	Reference interval
VITAMIN D (25-HYDROXY		VITAM	INS		
/ITAMIN D (25-HYDROXY	VIT	AMIN D/25 HYDR	OXY VITAMIN D3		
by CLIA (CHEMILUMINESCE		13.6 ^L	ng/mL		NCY: 20.0 - 30.0 CY: 30.0 - 100.0
NTERPRETATION:					
DEFICIENT: INSUFFICIEN		< 20 21 - 29		g/mL g/mL	
PREFFERED RA		30 - 100		g/mL	
issue and tightly bound by 3.Vitamin D plays a primar phosphate reabsorption, s 4.Severe deficiency may le DECREASED: 1.Lack of sunshine exposur 2.Inadequate intake, mala 3.Depressed Hepatic Vitam 4.Secondary to advanced L 5.Osteoporosis and Second 5.Enzyme Inducing drugs: a NCREASED: 1. Hypervitaminosis D is Ra severe hypercalcemia and CAUTION : Replacement the hypervitaminosis D	bsorption (celiac disease) in D 25- hydroxylase activit iver disease lary Hyperparathroidism (M anti-epileptic drugs like phe re, and is seen only after pr hyperphophatemia. erapy in deficient individual: duals as compare to whites, i	in circulation. of calcium homeostat calcium mobilization, newly formed osteoid ry fild to Moderate definytoin, phenobarbita rolonged exposure to s must be monitored	is. It promotes calciun mainly regulated by p in bone, resulting in r ciency) I and carbamazepine, extremely high doses by periodic assessmen	h absorption, renal calc barathyroid harmone (P ickets in children and or that increases Vitamin I of Vitamin D. When it o t of Vitamin D levels in o	ium absorption and TH). steomalacia in adults. D metabolism. occurs, it can result in order to prevent

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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT	D, AMBALA CANTT
Test Name Unit Biological Reference i	Value Unit Biological Reference interval
	3
MMUNOASSAY)	VITAMIN B12/COBALAMIN 97 ^L pg/mL 190.0 - 890.0
INTERPRETATION:- INCREASED VITAMIN B12 DECREASED VITAMIN B12	97 ^L pg/mL 190.0 - 890.0
INTERPRETATION:- INCREASED VITAMIN B12 DECREASED VITAMIN B12 1.Ingestion of Vitamin C 1.Pregnancy	97 ^L pg/mL 190.0 - 890.0 DECREASED VITAMIN B12 1.Pregnancy
Increased vitamin B12 DECREASED vitamin B12 1.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Estrogen 2.DRUGS:Aspirin, Anti-convulsants, Colchicine	97 ^L pg/mL 190.0 - 890.0 <u>DECREASED VITAMIN B12</u> 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine
INTERPRETATION:-INCREASED VITAMIN B12DECREASED VITAMIN B121.Ingestion of Vitamin C1.Pregnancy2.Ingestion of Estrogen2.DRUGS:Aspirin, Anti-convulsants, Colchicine3.Ingestion of Vitamin A3.Ethanol Igestion	97 ^L pg/mL 190.0 - 890.0 DECREASED VITAMIN B12 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion
INTERPRETATION:- INCREASED VITAMIN B12 DECREASED VITAMIN B12 1.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Estrogen 2.DRUGS:Aspirin, Anti-convulsants, Colchicine	97 ^L pg/mL 190.0 - 890.0 DECREASED VITAMIN B12 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion 4. Contraceptive Harmones

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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NAME AGE/ GENDER COLLECTED BY	Dr. Vinay Ch MD (Pathology & Chairman & Con : Mr. GURJAS SINGH : 18 YRS/MALE :	& Microbiology) nsultant Pathologist PATI	Dr. Yugam MD CEO & Consultant ENT ID NO./LAB NO.	(Pathology)		
REFERRED BY BARCODE NO.	: : 01514162		STRATION DATE	: 31/Jul/2024 09:54 AM : 31/Jul/2024 11:42AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 31/Jul/2024 10:57AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
L		CLINICAL PAT	HOLOGY			
		ROUTINE & MICROS				
PHYSICAL EXAMINA				IGN		
QUANTITY RECIEVED		10	ml			
by DIP STICK/REFLEC COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELLOW	I	PALE YELLOW		
by DIP STICK/REFLEC TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY					
SPECIFIC GRAVITY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030		
CHEMICAL EXAMINA	ATION					
REACTION	TANCE SPECTROPHOTOMETRY	NEUTRAL				
PROTEIN		Negative		NEGATIVE (-ve)		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)		
<i>by DIP STICK/REFLEC</i> pH	TANCE SPECTROPHOTOMETRY	7		5.0 - 7.5		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY					
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)		
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)		
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0		
by DIP STICK/REFLEC KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY					
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)		
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		

MICROSCOPIC EXAMINATION



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NAME	: Mr. GURJAS SINGH				
AGE/ GENDER	: 18 YRS/MALE		NT ID	: 1566140	
COLLECTED BY	:	REG. N	O./LAB NO.	: 012407310022 : 31/Jul/2024 09:54 AM	
REFERRED BY	:	REGIST	TRATION DATE		
BARCODE NO.	: 01514162 C		CTION DATE	: 31/Jul/2024 11:42AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 31/Jul/2024 10:57AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	

CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***



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