



Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam Cho MD (Patho CEO & Consultant Patho	ology)
NAME : Mr. ASHISH SONI			
AGE/ GENDER : 27 YRS/MALE	PATI	ENT ID : 15	544213
COLLECTED BY : SURJESH	REG.	NO./LAB NO. : 0	12407100024
REFERRED BY :	REGIS	STRATION DATE : 10	0/Jul/2024 09:50 AM
BARCODE NO. : 01512852	COLL	ECTION DATE : 10)/Jul/2024 09:52AM
CLIENT CODE. : KOS DIAGNOSTIC LAB	REPO	RTING DATE : 10)/Jul/2024 10:16AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AN	IBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SWA	STHYA WELLNE	SS PANEL: 1.5	
cc	MPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	16	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	5.42 ^H	Millions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	48.8	%	40.0 - 54.0
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		70	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	90.1	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	29.5	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	32.7	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		Ū	32.0 - 30.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	13.6	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD)	45.9	fL	35.0 - 56.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MENTZERS INDEX	16.62	RATIO	BETA THALASSEMIA TRAIT: < 13.
by CALCULATED	10.02	KATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	22.59	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED			65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			MON DEFICIENCE ANEIVIA. > 03.
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8310	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	NIL &		0.00 - 20.00
MICROSCOPY NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MICROSCOPY	NIL &	%	< 10 %

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. ASHISH SONI **AGE/ GENDER** : 27 YRS/MALE **PATIENT ID** :1544213 **COLLECTED BY** : SURJESH :012407100024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 10/Jul/2024 09:50 AM : **BARCODE NO.** :01512852 **COLLECTION DATE** : 10/Jul/2024 09:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 10/Jul/2024 10:16AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 50 - 70 46^L % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 38 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS gΗ % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3823 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 3158 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 665^H /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 665 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 304000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.25 0.10 - 0.36 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 8 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 43000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 14.2% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16 %

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



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Test Name	Valu	e Unit	Biological Reference interval



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAGE		108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) i		%
Non diab	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
		3		
Dia		Age > 19 Years		

REFERENCE GROUP	GLYCOSYLATED HEMOGL	OGIB (HBAIC) in %
Non diabetic Adults >= 18 years	<5.7	
At Risk (Prediabetes)	5.7 – 6.	4
Diagnosing Diabetes	>= 6.5	
	Age > 19 Y	ears
	Goals of Therapy:	< 7.0
Therapeutic goals for glycemic control	Actions Suggested:	>8.0
	Age < 19 Y	ears
	Goal of therapy:	<7.5

COMMENTS:

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

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

appropiate 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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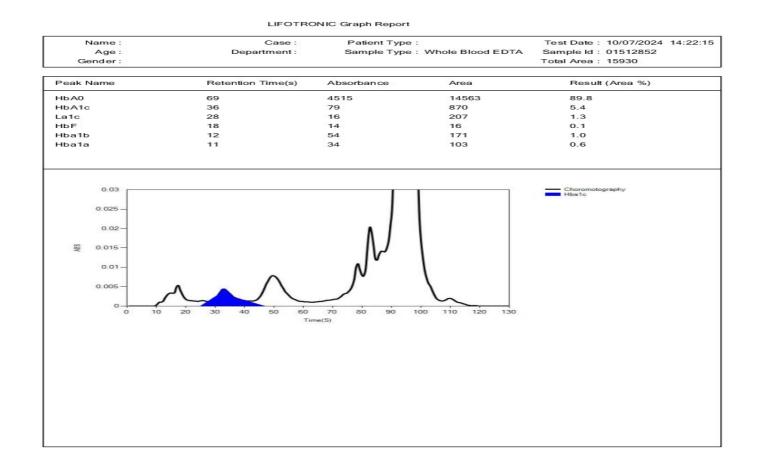
4.High

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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Test Name		Value	Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Jul/2024 10:29AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	Ерутці		IMENTATION RATE (ES	
			mm/1st h	
	IENTATION RATE (ESR) GREN AUTOMATED METHOD	11	mm/ ist n	r 0-20
systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dextr	matosus V ESR a with conditions that inhibit the ificantly high white blood cell cou- e cell anaemia) also lower the ES protein (C-RP) are both markers is not change as rapidly as does CF by as many other factors as is ESR id, it is typically a result of two ty re a higher ESR, and menstruation	normal sedime int (leucocytos R. of inflammatio RP, either at the , making it a be pes of proteins and pregnanc ²	ntation of red blood cells, si is), and some protein abno n. e start of inflammation or as etter marker of inflammatior , globulins or fibrinogen. y can cause temporary eleva	1.
1924-04-06			4	



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		Chopra y & Microbiology) consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTRY	Y
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING (F by glucose oxidasi): PLASMA E - PEROXIDASE (GOD-POD)	82.45	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		178.12	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERI	UM HATE OXIDASE (ENZYMATIC)	91.04	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		57.82	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		102.09	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEF by CALCULATED, SPEC		120.3	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPEC		18.21	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Λ	447.28	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	3.08	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	UM ctrophotometry	1.77	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.57 ^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	R FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: SI by DIAZOTIZATION, SF	ERUM PECTROPHOTOMETRY	0.76	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.32	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.44	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	24.25	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	22.89	U/L	0.00 - 49.00
AST/ALT RATIO: SER	UM	1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	80.2	U/L	40.0 - 150.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM PHTOMETRY	30	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO		7.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.3	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		3.19	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE		1.35	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 C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

DECREASED: 1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased). PROGNOSTIC SIGNIFICANCE:

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)

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	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. ASHISH SONI				
AGE/ GENDER	: 27 YRS/MALE	PAT	FIENT ID	: 1544213	
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012407100024	
REFERRED BY	•		GISTRATION DATE	: 10/Jul/2024 09:50 AM	
BARCODE NO.	: 01512852		LECTION DATE	: 10/Jul/2024 09:52AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 10/Jul/2024 11:04AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			. 10/30. 200 1110 IAM	
Test Name		Value	Unit	Biological Reference interval	
	кі	DNEY FUNCTION T	EST (COMPLETE)		
UREA: SERUM		14.63	mg/dL	10.00 - 50.00	
	MATE DEHYDROGENASE (GLDH)				
CREATININE: SERUN		0.63	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC				7.0. 25.0	
BLOOD UREA NITRU by CALCULATED. SP	DGEN (BUN): SERUM	6.84 ^L	mg/dL	7.0 - 25.0	
	DGEN (BUN)/CREATININE	10.86	RATIO	10.0 - 20.0	
RATIO: SERUM					
	ECTROPHOTOMETRY	00.00	DATIO		
UREA/CREATININE I	RATIO: SERUM ECTROPHOTOMETRY	23.22	RATIO		
URIC ACID: SERUM	LETROPHOTOMETRY	6.6	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS	SE PEROXIDASE	0.0			
CALCIUM: SERUM		9.21	mg/dL	8.50 - 10.60	
	ECTROPHOTOMETRY	2.94	ma/dl	2 20 4 70	
PHOSPHOROUS: SEF by PHOSPHOMOLYBL	CUIVI DATE, SPECTROPHOTOMETRY	2.74	mg/dL	2.30 - 4.70	
ELECTROLYTES					
Sodium: Serum		143.2	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV	/E ELECTRODE)				
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		4.02	mmol/L	3.50 - 5.00	
		107.4		00.0 110.0	
CHLORIDE: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	107.4	mmol/L	90.0 - 110.0	
	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	133.7			
(eGFR): SERUM		100.7			
by CALCULATED					
INTERPRETATION:					

INTERPRETATION: To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

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

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





5001.2000 CENT						
	MD	Vinay Chopra (Pathology & Microt rman & Consultant I			m Chopra D (Pathology) nt Pathologist	
IAME	: Mr. ASHISH SON	JI				
AGE/ GENDER	: 27 YRS/MALE		РАТ	IENT ID	: 1544213	
COLLECTED BY	: SURJESH			NO./LAB NO.	: 012407100024	
	. SUMESH					A. Y. C.
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BARCODE NO.	:01512852			LECTION DATE	: 10/Jul/2024 09:52	
CLIENT CODE.	: KOS DIAGNOSTI	CLAB	REP	ORTING DATE	: 10/Jul/2024 11:04	AM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBAL	A CANTT			
Test Name	-	V	/alue	Unit	Biological	Reference interval
 Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin thei 	creased urea synthe (urea rather than creation of inapproplate antic (urea is work) (urea is work) (ureation)	eatinine diffuses out irtually absent in bl liuretic harmone) du D CREATININE: version of creatine to tinine). ailure. uses false increase i nine ratio).	lood). ue to tubular se o creatinine). in creatinine wi	cretion of urea.	logies,resulting in norma	ıl ratio when dehydratio
ESTIMATED GLOMERU	JLAR FILTERATION RA	TE:				1
CKD STAGE			GFR (mL/mi		SSOCIATED FINDINGS	
G1 G2		kidney function / damage with	>9 >9		<u>No proteinuria</u> Presence of Protein ,	4
62		al or high GFR	>9		bumin or cast in urine	
G3a		ecrease in GFR	60 -			1
G3b		e decrease in GFR	30-			1
	0		15			1

0999. PF

G4

G5

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

Moderate decrease in GFR Severe decrease in GFR

Kidney failure

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15-29

<15









	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. ASHISH SONI			
AGE/ GENDER	: 27 YRS/MALE	PATI	ENT ID	: 1544213
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012407100024
REFERRED BY	:	REGIS	STRATION DATE	: 10/Jul/2024 09:50 AM
BARCODE NO.	: 01512852	COLL	ECTION DATE	: 10/Jul/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 10/Jul/2024 11:04AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
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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NAME	: Mr. ASHISH S	ONI		
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CLIENT CODE.	: KOS DIAGNOS	TIC LAB	REPORTING DATE	: 10/Jul/2024 11:04AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	I PROFILE	
IRON: SERUM	TROPHOTOMETRY	102.2	μg/dL	65.0 - 175.0
UNSATURATED IRON SERUM	N BINDING CAPA	· · /	µg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	G CAPACITY (TIB		μg/dL	230 - 430
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUN		%	15.0 - 50.0
TRANSFERRIN: SERL	JM	211.79	mg/dL	200.0 - 350.0
<u>INTERPRETATION:-</u> VARIAB	BLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	A THALASSEMIA α/β TRAIT
		Name al to Deduced	Deduced	Normal

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.

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):

 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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NAME	: Mr. ASHISH SONI			
AGE/ GENDER	: 27 YRS/MALE		PATIENT ID	: 1544213
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Jul/2024 11:24AM
Test Name		Value		Biological Reference interval
		ENDO	CRINOLOGY	
	TH	YROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	0.765 (<i>Y</i>)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	RUM iescent microparticle immunoassa	8.2 (<i>Y</i>)	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels be	<i>tween 2-4 a.m a</i> timulates the pr	roduction and secretion of the me	0.35 - 5.50 m. The variation is of the order of 50%. Hence time of the tabolically active hormones, thyroxine (T4) and er underproduction (hypothyroidism) or

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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		Dr. Vinay Ch MD (Pathology & Chairman & Con			Yugam Chopra MD (Pathology nsultant Pathologis	
NAME	: Mr. ASHI	SH SONI				
AGE/ GENDER	: 27 YRS/M	ALE		PATIENT ID	: 15442	13
COLLECTED BY	: SURJESH			REG. NO./LAB NO	:0124	07100024
REFERRED BY	:			REGISTRATION D	ATE : 10/Jul	/2024 09:50 AM
BARCODE NO.	:01512852			COLLECTION DAT	E : 10/Jul	/2024 09:52AM
CLIENT CODE.	: KOS DIAG	NOSTIC LAB		REPORTING DAT	E : 10/Jul	/2024 11:24AM
CLIENT ADDRE	SS : 6349/1, N	NICHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Un	it	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			
RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µU/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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		Chopra & Microbiology) onsultant Pathologis	ME	n Chopra 9 (Pathology) t Pathologist	
JAME	: Mr. ASHISH SONI				
AGE/ GENDER	: 27 YRS/MALE		PATIENT ID	: 1544213	
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BARCODE NO.	: 01512852		COLLECTION DATE	: 10/Jul/2024 09:52A	М
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Jul/2024 11:24A	М
LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Fest Name		Value	Unit	Biological R	eference interval
/ITAMIN D (25-HYD	V ROXY VITAMIN D3): SERUM		AMINS YDROXY VITAMIN D3 ng/mL	DEFICIENCY	·· < 20.0
by CLIA (CHEMILUMII	VESCENCE IMMUNOASSAY)	6.7-	ng, me	INSUFFICIE	NCY: 20.0 - 30.0 Y: 30.0 - 100.0
<u>Nterpretation:</u> Defi	CIENT:	< 20	r	ng/mL	
INSUF	FICIENT:	21 - 29	r	ng/mL	
	ED RANGE: CATION:	30 - 100 > 100		ng/mL	
2.25-OHVitamin D r issue and tightly bou 3.Vitamin D plays a p obosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondarv to advar 5.Osteoporosis and S 5.Enzyme Inducing di NCREASED: 1. Hypervitaminosis I evere hypercalcemia CAUTION: Replaceme hypervitaminosis D	malabsorption (celiac disease Vitamin D 25- hydroxylase acti aced Liver disease econdary Hyperparathroidism rugs: anti-epileptic drugs like p D is Rare, and is seen only after a and hyperphophatemia. ent therapy in deficient individu individuals as compare to white	roir and transport f le in circulation. e of calcium home n, calcium mobiliza e newly formed os) ivity (Mild to Moderate henytoin, phenoba ⁻ prolonged exposu	orm of Vitamin D and trans ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine, ire to extremely high doses ored by periodic assessme	m absorption, renal calci parathyroid harmone (P rickets in children and os , that increases Vitamin E s of Vitamin D. When it o nt of Vitamin D levels in o	um absorption and (H). teomalacia in adults.) metabolism. ccurs, it can result in order to prevent



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AGE/ GENDER	: 27 YRS/MALE	PA	ATIENT ID	: 1544213
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012407100024
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BARCODE NO.	: 01512852		DLLECTION DATE	: 10/Jul/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 10/Jul/2024 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RC			
Test Name		Value	Unit	Biological Reference interval
іммилоа̀̀ssay) <u>INTERPRETATION:-</u>	NESCENT MICROPARTICLE	VITAMIN B12/ 98 ^L	pg/mL	190.0 - 890.0
	SED VITAMIN B12		DECREASED VITAMIN	N B12
1.Ingestion of Vitan 2.Ingestion of Estro		1.Pregnanc	y spirin, Anti-convulsants,	Colchicine
3.Ingestion of Vitan		3.Ethanol l		, colemente
4.Hepatocellular in	jury	4. Contrace	eptive Harmones	
5.Myeloproliferativ	e disorder	5.Haemodi		
6.Uremia	amin) is necessary for hema	6. Multiple		
 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 pro itamin B12 stores very econo- ency may be due to lack of IF l intestinal diseases). ency frequently causes macr coordination, and affective ts without macrocytic anemi nic acid and homocysteine lu or antibodies to intrinsic fac n concentration of vitamin B	teins and requires intrin pmically, reabsorbing vita secretion by gastric muc ocytic anemia, glossitis, behavioral changes. The a. evels are also elevated ir tor (IF) is recommended 12 does not rule out tiss AA. If clinical symptoms s	sic factor (IF) for absorp amin B12 from the ileum cosa (eg, gastrectomy, g- peripheral neuropathy, se manifestations may c n vitamin B12 deficiency to identify this potentia ue 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 Ch MD (Pathology & Chairman & Con			
NAME	: Mr. ASHISH SONI			
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	·			
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BARCODE NO.	: 01512852		CTION DATE	: 10/Jul/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 10/Jul/2024 11:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
		OUTINE & MICROSCO	OPIC EXAMINAT	LION
PHYSICAL EXAMINA				
-		10		
QUANTITY RECIEVED	D CTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
TRANSPARANCY		HAZY		CLEAR
SPECIFIC GRAVITY	CTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
	CTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA	ATION			
REACTION		NEUTRAL		
-	CTANCE SPECTROPHOTOMETRY			
PROTEIN		Negative		NEGATIVE (-ve)
SUGAR	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	negative		
рН		7		5.0 - 7.5
	CTANCE SPECTROPHOTOMETRY			
	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY.	regativo		
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Nogativo		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-VC)
BLOOD		1+		NEGATIVE (-ve)
-	CTANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXAN				

MICROSCOPIC EXAMINATION



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME

AGE/ GENDER

COLLECTED BY

REFERRED BY

BARCODE NO.

CLIENT CODE.





MD (Pathology)

:1544213

:012407100024

: 10/Jul/2024 09:50 AM

: 10/Jul/2024 09:52AM

: 10/Jul/2024 11:39AM

Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist : Mr. ASHISH SONI : 27 YRS/MALE **PATIENT ID** : SURJESH REG. NO./LAB NO. **REGISTRATION DATE** : **COLLECTION DATE** :01512852 : KOS DIAGNOSTIC LAB **REPORTING DATE**

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

Test Name	Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

End Of Report





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