

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. CHETANYA SHARMA			
AGE/ GENDER	: 25 YRS/MALE		PATIENT ID	: 1684515
COLLECTED BY	:		REG. NO./LAB NO.	: 012411280005
REFERRED BY	:		REGISTRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO.	: 01521578		COLLECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Nov/2024 08:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.5	i
	COMP	PLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	14.9	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	5.58 ^H	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL		47.1	%	40.0 - 54.0
MEAN CORPUSCUL		84.4	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	26.7 ^L	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	31.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	13.1	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	41.4	fL	35.0 - 56.0
MENTZERS INDEX		15.13	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI		19.81	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE TOTAL LEUCOCYTI		7670	/cmm	4000 - 11000
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY		/ chini	
	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
NUCLEATED RED F	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %





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MD (Pathology) CEO & Consultant Pathologist

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Dr. Vinay Chopra

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	52	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	33	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3988	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2531	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	460 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	690	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	379000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.32	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	9	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	61000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	16.1	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	15.8	%	15.0 - 17.0



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Test Name	Value	e Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 28/Nov/2024 03:00PM
			KIING DATE	: 28/NOV/2024 03:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CAN'I'T		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD	EMOGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN D	IABETES ASSOCIATION ((ADA):	
	REFERENCE GROUP	GLYCOSYL	LATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	<5.7		
A	t Risk (Prediabetes)	5.7 - 6.4		
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
		Goals of Ther	rapy:	< 7.0
Thorepout	is goals for glycomic control	A . 1'	- L L	
Therapeut	ic goals for glycemic control	Actions Sugge		>8.0
Therapeut	ic goals for glycemic control	Actions Sugge Goal of thera	Age < 19 Years	<7.5

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 28/Nov/2024 08:47AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by RED CELL AGGREG NTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe is C-reactive protein 3. This test may also cystemic lupus erythy CONDITION WITH LO A low ESR can be see polycythaemia), sigras is sickle cells in sickla NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	does not tell the health practitione cted by other conditions besides int be used to monitor disease activity ematosus W ESR n with conditions that inhibit the nu- hificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers o es not change as rapidly as does CRF by as many other factors as is ESR , i ed, it is typically a result of two typ- ve a higher ESR, and menstruation a	r exactly where the flammation. For this and response to the ormal sedimentatio (leucocytosis), ar (leucocytosis), ar (leucocyt	inflammation is in the s reason, the ESR is ty erapy in both of the a n of red blood cells, s nd some protein abno of inflammation or a barker of inflammation ulins or fibrinogen. ause temporary eleva	tion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count formalities. Some changes in red cell shape (suc s it resolves. n .





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		& Microbiology) Insultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411280005
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BARCODE NO.	:01521578	C	OLLECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 28/Nov/2024 01:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMIST	RY/BIOCHEMIST	'RY
		GLUCOSE F.	ASTING (F)	
	G (F): PLASMA	89.02	mg/dL	NORMAL: < 100.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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. 3. 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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LIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TO by CHOLESTEROL O		208.29 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	272.31 ^H	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
IDL CHOLESTERO	L (DIRECT): SERUM	38.63	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
DL CHOLESTERO by CALCULATED, SPE		115.2	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 CHOLES' by CALCULATED, SPE		169.66 ^H	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
LDL CHOLESTER		54.46 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPE	RUM	688.89	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	5.39 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		2.98	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	7.05 ^H	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
LIVER	FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.35	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	42.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	73.7 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.57	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	109.14	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	33.87	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.73	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.37	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.36	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.85	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:

> 2	
> 2 (Highly Suggestive)	
1.4 - 2.0	
> 1.5	
> 1.3 (Slightly Increased)	





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	Dr. Vinay Chopr	a I Dr. Yugar	n Chopra

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



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Test Name		Value	Unit	Biological Reference interva	
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	21.27	mg/dL	10.00 - 50.00	
CREATININE: SERU	JM	1.12	mg/dL	0.40 - 1.40	
BLOOD UREA NITR by CALCULATED, SPE	OGEN (BUN): SERUM	9.94	mg/dL	7.0 - 25.0	
BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	8.87 ^L	RATIO	10.0 - 20.0	
UREA/CREATININI by CALCULATED, SPE	E RATIO: SERUM	18.99	RATIO		
URIC ACID: SERUM		6.54	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPE		10.51	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE by PHOSPHOMOLYBE		3.41	mg/dL	2.30 - 4.70	
<u>ELECTROLYTES</u>					
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	142.3	mmol/L	135.0 - 150.0	
POTASSIUM: SERUI	M	4.05	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIV		106.73	mmol/L	90.0 - 110.0	
2	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	93.5			

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.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		robiology)	Dr. 1 CEO & Cor	fugam C MD (Pat nsultant Pat	hology)			
AME	: Mr. CHETA	IYA SHARMA							
GE/ GENDER	: 25 YRS/MAI	E	I	PATIENT ID	:	1684515			
OLLECTED BY	:		H	REG. NO./LAB NO	. :	0124112800	05		
EFERRED BY				REGISTRATION D		28/Nov/2024		ſ	
ARCODE NO.	:01521578			COLLECTION DAT		28/Nov/2024			
LIENT CODE.	: KOS DIAGN			REPORTING DAT		28/Nov/2024			
				LEPUKTING DAT	с .	20/11/00/2024	10.59AM	L	
LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMI	SALA CANTI						
est Name			Value	Un	it	Biolog	gical Ref	èrence i	nterval
Urine reabsorption Reduced muscle m Certain drugs (e.g. ICREASED RATIO (>2 Postrenal azotemia	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV I (BUN rises disp	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more	n) /ELS:	n, GI bleeding, thy e) (e.g. obstructive			drome, hi	8.1 p. o.c.	
. Urine reabsorption Reduced muscle m Certain drugs (e.g. VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet a Severe liver diseas 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 ir CEPhalosporin the STIMATED GLOMERI CKD STAGE G1	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV (BUN rises disp superimposed (0:1) WITH DECF osis. Ind starvation. e. creased urea sy urea rather tha monemias (urea of inappropiate (0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/cr apy (interferes JLAR FILTERATIO	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : The creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. The causes false increated eatinine ratio). with creatinine meas IN RATE: DESCRIPTION rmal kidney function	n) TELS: than creatinin out of extrace n blood).) due to tubula the to creatinine se in creatinine urement).	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>./min/1.73m2)</u> >90	e uropathy) a. hodologie: ASSOC No	s,resulting in no IATED FINDING proteinuria	ormal rat		
Urine reabsorption Reduced muscle m Certain drugs (e.g. ICREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the ETIMATED GLOMERI CKD STAGE	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV (BUN rises disp superimposed 0:1) WITH DECF osis. ad starvation. creased urea sy urea rather tha monemias (urea of inappropiate 10:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/cr apy (interferes JLAR FILTERATIC No	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : Thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. The causes false increated eatinine ratio). with creatinine meas IN RATE: DESCRIPTION rmal kidney function idney damage with	n) TELS: than creatinin out of extrace n blood).) due to tubula the to creatinine se in creatinine urement).	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met	e uropathy) a. hodologie: <u>ASSOC</u> <u>No</u> Prese	s,resulting in no IATED FINDING proteinuria nce of Protein ,	ormal rat		
Urine reabsorption Reduced muscle m Certain drugs (e.g. CREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CREASED RATIO (< Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. CREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients APPROPIATE RATIO Diabetic ketoacido ould produce an in Cephalosporin the TIMATED GLOMERI G1 G2	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV (BUN rises disp superimposed 0:1) WITH DECF osis. ad starvation. creased urea sy urea rather tha monemias (urea of inappropiate 10:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/cr apy (interferes JLAR FILTERATIC No K	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : Thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatir creatinine). nal failure. The causes false increated eatinine ratio). with creatinine meas IN RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR	n) FEIS: than creatinin out of extrace h blood). due to tubula te to creatinine se in creatinine urement). GFR (ml	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2) >90 >90</u>	e uropathy) a. hodologie: <u>ASSOC</u> <u>No</u> Prese	s,resulting in no IATED FINDING proteinuria	ormal rat		
Urine reabsorption Reduced muscle m Certain drugs (e.g. CREASED RATIO (>2 Postrenal azotemia CREASED RATIO (>2 Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. CREASED RATIO (<7 Phenacimide thera Rhabdomyolysis (r Muscular patients APPROPIATE RATIO Diabetic ketoacido ould produce an in Cephalosporin the TIMATED GLOMERI G1 G2 G3a	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV (BUN rises disp superimposed 0:1) WITH DECF osis. ad starvation. creased urea sy urea rather tha monemias (urea of inappropiate 10:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/cr apy (interferes ULAR FILTERATIO No K No K No K No	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : Thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatir creatinine). nal failure. The causes false increated eatinine ratio). with creatinine meas IN RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR ild decrease in GFR	n) FEIS: than creatinin out of extrace h blood). due to tubula te to creatinine se in creatinine urement). GFR (ml	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2) >90 >90 60 -89</u>	e uropathy) a. hodologie: <u>ASSOC</u> <u>No</u> Prese	s,resulting in no IATED FINDING proteinuria nce of Protein ,	ormal rat		
Urine reabsorption Reduced muscle m Certain drugs (e.g. Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the ETIMATED GLOMERI G1 G2	xia, high fever). (e.g. ureter col ass (subnormal tetracycline, gl 0:1) WITH ELEV (BUN rises disp superimposed 0:1) WITH DECF osis. ad starvation. creased urea sy urea rather tha monemias (urea f inappropiate 10:1) WITH INCR py (accelerates eleases muscle who develop refine sis (acetoaceta creased BUN/cr apy (interferes ULAR FILTERATION NO K NO K MO MO MO	ostomy) creatinine productic ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : Thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatir creatinine). nal failure. The causes false increated eatinine ratio). with creatinine meas IN RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR	n) FEIS: than creatinin out of extrace blood). due to tubula te to creatinine se in creatinine urement). GFR (ml	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2) >90 >90</u>	e uropathy) a. hodologie: <u>ASSOC</u> <u>No</u> Prese	s,resulting in no IATED FINDING proteinuria nce of Protein ,	ormal rat		





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Test Name		Value Unit	Biological Reference interva
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Nov/2024 10:59AM
BARCODE NO.	:01521578	COLLECTION DATE	: 28/Nov/2024 08:05AM
REFERRED BY	:	REGISTRATION DATE	: 28/Nov/2024 08:02 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 012411280005
AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1684515
NAME	: Mr. CHETANYA SHARMA		
	MD (Pathology & Mi Chairman & Consult	crobiology) MI	D (Pathology)
	Dr. Vinay Chop MD (Pathology & Mi		m Chopra D (Pathology)

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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mg/dL

200.0 - 350.0

	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. CHETANYA SHARMA			
AGE/ GENDER	: 25 YRS/MALE	PA	TIENT ID	: 1684515
COLLECTED BY	:	RF	EG. NO./LAB NO.	: 012411280005
REFERRED BY	:	RF	EGISTRATION DATE	: 28/Nov/2024 08:02 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PR	ROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	76	μg/dL	59.0 - 158.0
UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	219	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	295	μg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM	25.76	%	15.0 - 50.0

TRANSFERRIN: SERUM 209.45 by SPECTROPHOTOMETERY (FERENE)

Viney

INTERPRETATION:-

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 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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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		Chopra (Pathology) Pathologist
NAME	: Mr. CHETANYA SHARMA			
AGE/ GENDER	: 25 YRS/MALE	PATI	ENT ID	: 1684515
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012411280005
REFERRED BY	:	REGIS	STRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO.	: 01521578	COLL	ECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 28/Nov/2024 10:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interv
		ENDOCRING	DLOGY	
	TH	ENDOCRING FUNCTION		
TRIIODOTHYRONII by CMIA (CHEMILUMIN		YROID FUNCTION 0.854		0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS	U.854 8.09	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS SERUM IESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU	YROID FUNCTION 0.854 SAY) 8.09 SAY) M 2.372	TEST: TOTAL ng/mL	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS SERUM IESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU IESCENT MICROPARTICLE IMMUNOAS	YROID FUNCTION 0.854 SAY) 8.09 SAY) M 2.372	TEST: TOTAL ng/mL μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS SERUM IESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE circadian variation, reaching peak levels I	YROID FUNCTION 0.854 SAY) 8.09 SAY) M 2.372 SAY) between 2-4 a.m and at a m 1 stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50%.Hence time o</i> etabolically active hormones, thyroxine (T4)and

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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (T	
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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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Page 15 of 20

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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. CHETANYA SHARMA		
AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1684515
COLLECTED BY	:	REG. NO./LAB NO.	: 012411280005
REFERRED BY	:	REGISTRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO.	: 01521578	COLLECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Nov/2024 10:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	,	

Test Name		Value	Unit		Biological Reference interv	
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	VELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Patho	y Chopra ogy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
AME	: Mr. CHETANYA SHARN			
GE/ GENDER	: 25 YRS/MALE	PATI	IENT ID	: 1684515
COLLECTED BY	:	REG.	NO./LAB NO.	: 012411280005
REFERRED BY	:		ISTRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO. : 01521578			LECTION DATE	: 28/Nov/2024 08:05AM
LIENT CODE. LIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON R		ORTING DATE	: 28/Nov/2024 12:57PM
Test Name		Value	Unit	Biological Reference interval
		VITAMI	NIC	
		VITAMIN D/25 HYDR(3
TAMIN D (25-HY)	DROXY VITAMIN D3): SE escence immunoassay)	RUM 20.982^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFI	CIENT:	< 20	n	j/mL
	FICIENT:	21 - 29		j/mL
	ED RANGE: CATION:	<u> </u>		j/mL j/mL
conversion of 7- dihy 2.25-OHVitamin D r issue and tightly bou	drocholecalciferol to Vitan epresents the main body re und by a transport protein rimary role in the mainten	nin D3 in the skin upon Ultra esevoir and transport form of while in circulation.	violet exposure. f Vitamin D and transj s. It promotes calcium	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







IAME	: Mr. CHETANYA SHARMA			
GE/ GENDER	: 25 YRS/MALE	PAT	IENT ID	: 1684515
COLLECTED BY	:	REG	NO./LAB NO.	: 012411280005
REFERRED BY	:	REG	STRATION DATE	: 28/Nov/2024 08:02 AM
ARCODE NO.	:01521578	COL	LECTION DATE	: 28/Nov/2024 08:05AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 28/Nov/2024 12:03PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
LIENI ADDRESS	. 0349/ 1, MCHOLSON ROAD,	AWDALA CAN I I		
	ALAMIN: SERUM	Value VITAMIN B12/C 115.3 ^L	Unit OBALAMIN pg/mL	Biological Reference interval
/ITAMIN B12/COE by CMIA (CHEMILUMIN	ALAMIN: SERUM	VITAMIN B12/C 115.3 ^L	OBALAMIN	
/ITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOA	VITAMIN B12/C 115.3 ^L	OBALAMIN pg/mL	190.0 - 890.0
/ITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNOA	VITAMIN B12/C 115.3 ^L	OBALAMIN	190.0 - 890.0
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/C 115.3 ^L SSAY)	OBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0
TTAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants,	190.0 - 890.0
TTAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen hin A	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige:	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition	190.0 - 890.0
TTAMIN B12/COE by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 jen in A jury	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones	190.0 - 890.0
/ITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 jen in A jury	VITAMIN B12/C 115.3 ^L SSAY) 2.DRUGS:Asp 3.Ethanol Ige: 4. Contracept 5.Haemodial	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis	190.0 - 890.0
VITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige: 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis yeloma onal function.	190.0 - 890.0
ATTAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal 1.In humans, it is ob	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematopo rained only from animal proteins	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige: 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur and requires intrinsic	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis yeloma onal function. factor (IF) for absorp	190.0 - 890.0
ATTAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal 1.In humans, it is obt .The body uses its v	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematopo rained only from animal proteins	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige: 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur and requires intrinsic	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis yeloma onal function. factor (IF) for absorp	190.0 - 890.0
ATTAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal .In humans, it is obi .The body uses its v xcreted.	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hematopo ained only from animal proteins itamin B12 stores very economic	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M biesis and normal neur and requires intrinsic ally, reabsorbing vitam	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum	190.0 - 890.0
ATAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal .In humans, it is obt .The body uses its v xcreted. Vitamin B12 deficie eal resection, small	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hematopo ained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF secr intestinal diseases).	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M Diesis and normal neur s and requires intrinsic ally, reabsorbing vitam retion by gastric mucos	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, g.	190.0 - 890.0 IB12 Colchicine Colchicine tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e
NTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 3.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is obt 3.The body uses its v excreted. Vitamin B12 deficie leal resection, small 5.Vitamin B12 deficie	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hematopo ained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF secr intestinal diseases). ency frequently causes macrocyt	VITAMIN B12/C 115.3 ^L SSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M Diesis and normal neur s and requires intrinsic ally, reabsorbing vitam retion by gastric mucos ic anemia, glossitis, pe	OBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, g.	190.0 - 890.0

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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	Dr. Vinay Cho MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. CHETANYA SHARMA			
AGE/ GENDER	: 25 YRS/MALE	PA	TIENT ID	: 1684515
COLLECTED BY	:	RE	G. NO./LAB NO.	:012411280005
REFERRED BY	:	RE	GISTRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO.	: 01521578	CO	LLECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 28/Nov/2024 10:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOCY	
	URINE BO		DSCOPIC EXAMINA	ATION
PHYSICAL EXAMI				AHON
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLO	W	PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.0.2		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMI	INATION			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRT	Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
рН		5.5		5.0 - 7.5
BILIRUBIN	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Negativo		NECATIVE (re)
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-	-ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EX				
RED BLOOD CELLS	(KBUS)	NEGATIVE (-	ve) /HPF	0 - 3



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

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

NAME	: Mr. CHETANYA SHARMA		
AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1684515
COLLECTED BY	:	REG. NO./LAB NO.	: 012411280005
REFERRED BY	:	REGISTRATION DATE	: 28/Nov/2024 08:02 AM
BARCODE NO.	: 01521578	COLLECTION DATE	: 28/Nov/2024 08:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Nov/2024 10:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	·	
			/
Test Name	Value	Unit	Biological Reference interval

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

i est Manie	value	Ome	Diological weier ence inter var
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/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) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



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