

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam (MD (Pa CEO & Consultant Pa	athology)
IAME	: Mr. VINAY ANAND			
GE/ GENDER	: 26 YRS/MALE	PAT	IENT ID	: 1762432
OLLECTED BY	:	REG	. NO./LAB NO.	: 012502190024
REFERRED BY	:			: 19/Feb/2025 10:10 AM
BARCODE NO.	: 01525763			: 19/Feb/2025 10:14AM
LIENT CODE. LIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB/		ORTING DATE	: 19/Feb/2025 10:52AM
Fest Name		Value	Unit	Biological Reference interval
	SWASTI	HVA WELLN	ESS PANEL: 1.5	
			COUNT (CBC)	
ED BLOOD CELLS	(RBCS) COUNT AND INDICES	LETE DLUUD		
IAEMOGLOBIN (HE		15.5	gm/dL	12.0 - 17.0
by CALORIMETRIC	DDC) COUNT	N OO U		nm 3.50 - 5.00
ED BLOOD CELL (I	COUNT COUSING, ELECTRICAL IMPEDENCE	5.98 ^H	Millions/cn	3.30 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		48.6	%	40.0 - 54.0
AEAN CORPUSCULA	AR VOLUME (MCV)	81.2	fL	80.0 - 100.0
AEAN CORPUSCUL	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	26 ^L	pg	27.0 - 34.0
AEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	32	g/dL	32.0 - 36.0
RED CELL DISTRIBU	JTION WIDTH (RDW-CV)	13.4	%	11.00 - 16.00
RED CELL DISTRIBU	JTOMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	41.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		13.58	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by calculated WHITE BLOOD CEI		18.25	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
OTAL LEUCOCYTE		6080	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	T HEMATOLOGY ANALYZER	NIL	%	< 10 %
UCLEATED RED B				





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NAME



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. VINAY ANAND AGE/ GENDER : 26 YRS/MALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE BARCODE NO.** :01525763 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 64 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 24% by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3891 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1459 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 486 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 210000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 14^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 105000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 50.1^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.4by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



ABSOLUTE EOSINOPHIL COUNT



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Biological Reference interval

50 - 70

20 - 40

1 - 6

2 - 12

0 - 1

2000 - 7500

800 - 4900

40 - 440

80 - 880

0.10 - 0.36

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000

150000 - 450000

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

:1762432 :012502190024 : 19/Feb/2025 10:10 AM :19/Feb/202510:14AM : 19/Feb/2025 10:52AM

/cmm

/cmm

/cmm

%

fL.

%

%

/cmm

243





	Dr. Vinay Chc MD (Pathology & Chairman & Consi	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)	
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	:				
BARCODE NO.	: 01525763		LECTION DATE	: 19/Feb/2025 10:14AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 19/Feb/2025 05:05PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Refe	erence interva
WHOLE BLOOD	EMOGLOBIN (HbA1c):	SYLATED HAEMO 5.8	%	4.0 - 6.4	
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	119.76	mg/dL	60.00 - 140.00	
	AS PER AMERICAN I	DIABETES ASSOCIATION	(ADA):		
	REFERENCE GROUP	GLYCOS	YLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	/	<5.7		
	Risk (Prediabetes)		5.7 - 6.4		
D	agnosing Diabetes		>= 6.5		
Therapeut	ic goals for glycemic control	Goals of The Actions Sugg		< 7.0 >8.0	
	I nerapeutic goals for glycemic control				
			Age < 19 Years		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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 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		REPORTING DATE	: 19/Feb/2025 11:27AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
immune disease, but	does not tell the health practitie	oner exactly where	the inflammation is in the	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such





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BARCODE NO.	:01525763	COLI	ECTION DATE	: 19/Feb/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC L	AB REP (ORTING DATE	: 19/Feb/2025 11:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMISTRY	/BIOCHEMISTR	RY
		GLUCOSE FAS	ГING (F)	
	G (F): PLASMA	114.31 ^H	mg/dL	NORMAL: < 100.0

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. VINAY ANAND : 26 YRS/MALE : : : 01525763 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAN	R R C Q R	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE	: 1762432 : 012502190024 : 19/Feb/2025 10:10 AM : 19/Feb/2025 10:14AM : 19/Feb/2025 12:06PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	TILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		127.02	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	52.91	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	62.99	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		53.45	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 CHOLEST by CALCULATED, SPE		64.03	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 CHOLESTER(10.58	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	306.95 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	2.02	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT'	Г	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		0.85	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	0.84 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, S		0.52	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.17	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.35	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		29.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM	I /RIDOXAL PHOSPHATE	59.1 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.5	RATIO	0.00 - 46.00
ALKALINE PHOSP		113.74	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	62.43 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.91	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.36	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.55	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.71	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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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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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SU 9001 : 2000 CENTIFIED LAB				bixerostics	
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Test Name		Value	Unit	Biological Reference interval	
	KIDNE	Y FUNCTION	TEST (COMPLETE)		
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	36.69	mg/dL	10.00 - 50.00	
CREATININE: SER	UM	1.2	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC	CTROPHOTOMETERY ROGEN (BUN): SERUM	17.14	mg/dL	7.0 - 25.0	
	ECTROPHOTOMETRY	17.14	iiig/ uL	7.0 - 23.0	
	ROGEN (BUN)/CREATININE	14.28	RATIO	10.0 - 20.0	
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY				
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	30.58	RATIO		
URIC ACID: SERUM	1	5.42	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPE		9.58	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SH	ERUM	2.5	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
SODIUM: SERUM		141.7	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV POTASSIUM: SERU		4.28	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV	/E ELECTRODE)				
CHLORIDE: SERUN by ISE (ION SELECTIV		106.28	mmol/L	90.0 - 110.0	
	IERULAR FILTERATION RATE				
(eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	85.5			
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.

3. GI haemorrhage.



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	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant Pa	ology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. VINAY ANAND		
AGE/ GENDER	: 26 YRS/MALE	PATIENT ID	: 1762432
COLLECTED BY	:	REG. NO./LAB NO.	: 012502190024
REFERRED BY	:	REGISTRATION DATE	: 19/Feb/2025 10:10 AM
BARCODE NO.	: 01525763	COLLECTION DATE	: 19/Feb/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Feb/2025 12:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	due 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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BARCODE NO.	: 01525763	COLL	ECTION DATE	: 19/Feb/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 19/Feb/2025 11:59AM
CLIENT ADDRESS	ENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	76.2	μg/dL	59.0 - 158.0
•	ON BINDING CAPACITY (UIBC)	310.25	µg/dL	150.0 - 336.0
	ING CAPACITY (TIBC)	386.45	µg/dL	230 - 430
%TRANSFERRIN SA	ATURATION: SERUM CTROPHOTOMETERY (FERENE)	19.72	%	15.0 - 50.0
TRANSFERRIN: SEI	RUM	274.38	mg/dL	200.0 - 350.0
INTERPRETATION:- VARIAB	LES ANEMIA OF CHRO		N DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT

Normal to Reduced	Reduced	Normal
Decreased	Increased	Normal
Decreased	Decreased < 12-15 %	Normal
Normal to Increased	Decreased	Normal or Increased
1	Decreased Decreased	DecreasedIncreasedDecreasedDecreased < 12-15 %

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

anemia, anemia of chronic disease and thalassemia syndromes.
 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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	MD (Patho	y Chopra blogy & Microbiology) & Consultant Pathologi	١	am Chopra 1D (Pathology) :ant Pathologist	
NAME	: Mr. VINAY ANAND				
AGE/ GENDER	: 26 YRS/MALE		PATIENT ID	: 1762432	
COLLECTED BY	:		REG. NO./LAB NO.	:012502190024	
REFERRED BY	:		REGISTRATION DATE	E : 19/Feb/2025 10:10 AM	
BARCODE NO.	: 01525763		COLLECTION DATE	: 19/Feb/2025 10:14AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Feb/2025 11:51AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT	г		
Test Name		Value	Unit	Biological Reference	e interval
		ENDOC	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM ESCENT MICROPARTICLE IMI	1.36 MUNOASSAY)	ng/m	L 0.35 - 1.93	
THYROXINE (T4): S		7.86	µgm/	dL 4.87 - 12.60	
	TING HORMONE (TSH)		µIU/n	nL 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:					
TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	neasured serum TSH concentra	tions. TSH stimulates the p	roduction and secretion of th	0 pm. The variation is of the order of 50%.Her e metabolically active hormones, thyroxine (ither underproduction (hypothyroidism) or	
CLINICAL CONDITION	T;	3	T4	TSH	
Primary Hypothyroidis		duced	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Norma	l or Low Normal	Normal or Low Normal	High	

1 IN	ΊΙΤΑ	τιο	NS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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	TRIIODOTHYRONINE (T3) THYROXINE (T4)		(INE (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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6-12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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NAME	: Mr. VINAY ANAND		
AGE/ GENDER	: 26 YRS/MALE	PATIENT ID	: 1762432
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	OMMENDATIONS OF TSH L	EVELS 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.



		ogy & Microbiology)	Dr. Yugam (MD (P CEO & Consultant Pa	athology)
NAME	: Mr. VINAY ANAND			
AGE/ GENDER	: 26 YRS/MALE	PATIE	NT ID	: 1762432
COLLECTED BY	:	REG. N	0./LAB NO.	:012502190024
REFERRED BY	:	REGIS	RATION DATE	: 19/Feb/2025 10:10 AM
BARCODE NO.	: 01525763	COLLE	CTION DATE	: 19/Feb/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 19/Feb/2025 01:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITAMIN	S	
	V	ITAMIN D/25 HYDROX	Y VITAMIN D3	
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): SEF escence immunoassay)	RUM 17.247^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	ng/r	nl
	FICIENT:	21 - 29	ng/r	
	ED RANGE:	30 - 100 > 100	ng/r ng/r	
2.25-OHVitamin D r tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt	epresents the main body res und by a transport protein w primary role in the maintena ion, skeletal calcium deposit	/hile in circulation. nce of calcium homeostatis. I tion, calcium mobilization, ma	itamin D and transpo t promotes calcium a ainly regulated by par	rt form of Vitamin D, being stored in adipose bsorption, renal calcium absorption and athyroid harmone (PTH). .ets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology 8 Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. VINAY ANAND				
AGE/ GENDER	: 26 YRS/MALE	PATIE	NT ID	: 1762432	
COLLECTED BY	:	REG. N	0./LAB NO.	: 012502190024	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
Test Name		Value	Unit	Biological Reference interval	
		VITAMIN B12/CO	BALAMIN		
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	BALAMIN: SERUM	163 ^L SSAY)	pg/mL	190.0 - 890.0	
	SED VITAMIN B12		DECREASED VITAMIN	J B12	
1.Ingestion of Vitamin C		1.Pregnancy			
2.Ingestion of Estrogen		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitan 4.Hepatocellular in		3.Ethanol Igestion 4. Contraceptive Harmones			
5.Myeloproliferativ		5.Haemodialysis			
6.Uremia	amin) is necessary for hematopo	6. Multiple Myeloma			
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié ileal resection, small 5.Vitamin B12 deficié proprioception, poor	tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sect intestinal diseases). ency frequently causes macrocyt coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine levels	s and requires intrinsic fa ally, reabsorbing vitamin retion by gastric mucosa ic anemia, glossitis, perip avioral changes. These m s are also elevated in vita	actor (IF) for absorp B12 from the ileum (eg, gastrectomy, g pheral neuropathy, anifestations may c min B12 deficiency	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 states. I cause of vitamin B12 malabsorption.	





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CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A		FING DATE	: 19/Feb/2025 11:11AM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE ROI	UTINE & MICROSCO		ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		PALE YELLOW		PALE YELLOW
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
000110	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	MEGATIVE (-VE)		NEGATIVE (-VE)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		1-3	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10	,	0 0	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-1	/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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