

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Mr. SUSHANK			
AGE/ GENDER	: 30 YRS/MALE		PATIENT ID	: 1621972
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409230026
REFERRED BY	:		REGISTRATION DATE	: 23/Sep/2024 09:37 AM
BARCODE NO.	: 01517535		COLLECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Sep/2024 10:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	CON		OOD COUNT (CBC)	
	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	DCS/ COUNT AND INDICES	14.8	gm/dL	12.0 - 17.0
by CALORIMETRIC		14.0	gin/uL	12.0 - 17.0
RED BLOOD CELL (RB		5.41 ^H	Millions/ci	mm 3.50 - 5.00
PACKED CELL VOLUM	OCUSING, ELECTRICAL IMPEDENCE F (PC.V)	46.8	%	40.0 - 54.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULAR	? VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	86.5	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	27.4	pg	27.0 - 34.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
	R HEMOGLOBIN CONC. (MCHC)	31.6 ^L	g/dL	32.0 - 36.0
	ON WIDTH (RDW-CV)	13.8	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER		q	
	ON WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	44.8	fL	35.0 - 56.0
MENTZERS INDEX		15.99	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	(22.1	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
WHITE BLOOD CELLS	(WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE CO		6490	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY	0470	7011111	4000 - 11000
NUCLEATED RED BLO	· · · · ·	NIL		0.00 - 20.00
by AUTOMATED 6 PAR NUCLEATED RED BLO	T HEMATOLOGY ANALYZER	NIL	%	< 10 %
	JTOMATED HEMATOLOGY ANALYZER		/0	× 10 /0
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>			
NEUTROPHILS		55	%	50 - 70
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			

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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SUSHANK AGE/ GENDER : 30 YRS/MALE **PATIENT ID** :1621972 **COLLECTED BY** : SURJESH :012409230026 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Sep/2024 09:37 AM : **BARCODE NO.** :01517535 **COLLECTION DATE** : 23/Sep/2024 09:47AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 23/Sep/2024 10:00AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 35 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 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 3570 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2272 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 260 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 389 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 416000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) % 0.4^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 6.50 - 12.0 fl by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 93000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 22.3 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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BARCODE NO.	: 01517535	CO	LLECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 23/Sep/2024 02:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		1
Test Name		Value	Unit	Biological Reference interval
	GLYC	COSYLATED HAEN	IOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	NOGLOBIN (HbA1c):	5.5	%	4.0 - 6.4
ESTIMATED AVERAGE		111.15	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCIATIO	DN (ADA):	
ŀ	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %
	betic Adults >= 18 years	/	<5.7	
	Risk (Prediabetes)		5.7 - 6.4	
Di	agnosing Diabetes		>= 6.5	
			Age > 19 Years	7.0
Thorspout	c goals for glycemic control	Goals of 1		< 7.0
merapeut	c goals for grycernic control	Actions Su		>8.0
			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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NAME	: Mr. SUSHANK				
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CLIENT CODE.	: KOS DIAGNOST	IC LAB	RE	PORTING DATE	: 23/Sep/2024 10:12AM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBAI	LA CANTT		
Test Name			Value	Unit	Biological Reference interval
		ERYTHROC	TE SEDIME	NTATION RATE (ESR	2)
RYTHROCYTE SEDI	MENTATION RATE		12	mm/1st hr	
systemic lupus eryth	ematosus				
CONDITION WITH LO I ow ESR can be see polycythaemia), sign s sickle cells in sick IOTE: . ESR and C - reactiv . Generally, ESR doe . CRP is not affected . If the ESR is elevat . Women tend to ha	W ESR n with conditions t ificantly high white e cell anaemia) als e protein (C-RP) are s not change as rap by as many other f ed, it is typically a r ve a higher ESR, an ran, methyldopa, c	e blood cell count (le o lower the ESR. both markers of inf bidly as does CRP, eit actors as is ESR, mak esult of two types o d menstruation and tral contraceptives, p	eucocytosis), a lammation. ther at the sta i ng it a better f proteins, glol pregnancy can	and some protein abnor rt of inflammation or as marker of inflammation oulins or fibrinogen. cause temporary elevat	





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		h opra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SUSHANK			
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BARCODE NO.	: 01517535	COL	LECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 23/Sep/2024 10:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	STING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA Se - peroxidase (god-pod)	89.41	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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AGE/ GENDER: 30COLLECTED BY: SUREFERRED BY:BARCODE NO.: 01	r . SUSHANK YRS/MALE RJESH			
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REFERRED BY : BARCODE NO. : 01	RIFSH	PAT	TIENT ID	: 1621972
BARCODE NO. : 01	1	REG	G. NO./LAB NO.	: 012409230026
		REG	GISTRATION DATE	: 23/Sep/2024 09:37 AM
	517535	COI	LECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE KC	OS DIAGNOSTIC LAB	REF	PORTING DATE	: 23/Sep/2024 11:56AM
CLIENT ADDRESS : 63	49/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTAL: SER by CHOLESTEROL OXIDASE		171.82	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE	OXIDASE (ENZYMATIC)	143.64	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIREC by SELECTIVE INHIBITION	CT): SERUM	36.2	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUN by CALCULATED, SPECTRON		106.89	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: by CALCULATED, SPECTRO		135.62 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERU		28.73	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTRON		487.28	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO): SERUM	4.75 ^H	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: SERUM by calculated, spectroi	PHOTOMETRY	2.95	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 23/Sep/2024 11:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	RATIO: SERUM	3.97	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

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 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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LIV	ER FUNCTION TES	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.59	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.45	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.42	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	32.71	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.56	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by Amino Methyl Propanol	124.26	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	23.01	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	5.87 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.54	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.33	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	1.52	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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Biological Reference interval





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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
	1.2 1.0



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Test Name		Value	Unit	Biological Reference interval
	KI	ONEY FUNCTION 1	EST (COMPLETE)	
UREA: SERUM		22.9	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)	0.00		
CREATININE: SERUN by ENZYMATIC, SPEC		0.83	mg/dL	0.40 - 1.40
BLOOD UREA NITRO)GEN (BUN): SERUM	10.7	mg/dL	7.0 - 25.0
	ес <i>ткорнотометку</i>)GEN (BUN)/CREATININE	12.89	RATIO	10.0 - 20.0
RATIO: SERUM	JOLN (DON)/CREATININE	12.07	KATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I	RATIO: SERUM ECTROPHOTOMETRY	27.59	RATIO	
URIC ACID: SERUM		6.45	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.62	ma/dl	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.02	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		2.84	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		139.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				100.0 100.0
POTASSIUM: SERUN		3.95	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	IL LLIGIRODE)	104.63	mmol/L	90.0 - 110.0
by ISE (ION SELECTI)	/E ELECTRODE)			

Dr. Vinay Chopra

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM *by CALCULATED*

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.

120.7

2. Catabolic states with increased tissue breakdown.



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		Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		gam Chopra MD (Pathology) Iltant Pathologist	
NAME	: Mr. SUSHA	NK				
AGE/ GENDER	: 30 YRS/MA	LE		PATIENT ID	: 1621972	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 0124092	230026
REFERRED BY	:			REGISTRATION DAT	FE · 23/Sen/2	2024 09:37 AM
BARCODE NO.	: 01517535			COLLECTION DATE	1	2024 09:47AM
CLIENT CODE.	: KOS DIAGN			REPORTING DATE	-	2024 11:56AM
				REFURING DATE	. 23/ Sep/ 2	.024 11.JUAN
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AN	MBALA CANTI			
Test Name			Value	Unit	В	iological Reference interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2	ke or production xia, high fever) (e.g. ureter co ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed	ostomy) I creatinine product ucocorticoids) ATED CREATININE LI proportionately moi on renal disease.	ion) EVELS:	on, GI bleeding, thyrot ne) (e.g. obstructive u		s syndrome, high protein diet,
6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	ke or production xia, high fever) (e.g. ureter colloass (subnormation tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. E. creased urea st urea rather that monemias (urea of inappropiate (0:1) WITH INCF py (accelerates eleases muscle who develop reference)	ostomy) I creatinine product ucocorticoids) ATED CREATININE LI proportionately mor on renal disease. REASED BUN : an creatinine diffuse ta is virtually absent antidiuretic harmor REASED CREATININE: conversion of creat creatinine).	ion) EVELS: re than creatinir es out of extrace in blood). ne) due to tubula	ne) (e.g. obstructive u ellular fluid). ar secretion of urea.		s syndrome, high protein diet,
6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in	ke or production xia, high fever) (e.g. ureter collow ass (subnormation tetracycline, gl 0:1) WITH ELEV (BUN rises dissing superimposed 0:1) WITH DEC osis. Ind starvation. Creased urea sign urea rather that monemias (urea of inappropriate (0:1) WITH INCF py (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c	ostomy) I creatinine product ucocorticoids) ATED CREATININE LI proportionately mor on renal disease. REASED BUN : an creatinine diffuse a is virtually absent antidiuretic harmor REASED CREATININE: conversion of creat creatinine). enal failure. te causes false incre- reatinine ratio).	ion) EVELS: re than creatinin es out of extrace in blood). ne) due to tubula tine to creatinin ease in creatinin	ne) (e.g. obstructive u ellular fluid). ar secretion of urea. e).	ropathy).	s syndrome, high protein diet, 1 in normal ratio when dehydra
6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido	ke or production xia, high fever) (e.g. ureter co ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. Creased urea sy urea rather that monemias (urea of inapproplate ():1) WITH INCH py (accelerates eleases muscle who develop ro- sis (acetoaceta creased BUN/c apy (interferes	ostomy) I creatinine product ucocorticoids) ATED CREATININE LI proportionately mor on renal disease. REASED BUN : an creatinine diffuse a is virtually absent antidiuretic harmor REASED CREATININE: conversion of creat creatinine). enal failure. te causes false increat reatinine ratio). with creatinine mea	ion) EVELS: re than creatinir es out of extrace in blood). ne) due to tubula tine to creatinin ease in creatinir asurement).	ne) (e.g. obstructive u ellular fluid). ar secretion of urea. e).	ropathy).	ı in normal ratio when dehydra

GKD STAGE	DEJORIF HON	O(K(1)L/1)(1/1.73)(L)	ASSOCIATED TINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	
-	-	-	-





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	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. SUSHANK		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1621972
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409230026
REFERRED BY	:	REGISTRATION DATE	: 23/Sep/2024 09:37 AM
BARCODE NO.	: 01517535	COLLECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Sep/2024 11:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	I PROFILE	
IRON: SERUM		71.3	μg/dL	59.0 - 158.0

IRON: SERUM	71.3	μg/dL	59.0 - 158.0	
UNSATURATED IRON BINDING CAPACITY (UIBC)	238.21	μg/dL	150.0 - 336.0	
by FERROZINE, SPECTROPHOTOMETERY				
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM	309.51	μg/dL	230 - 430	
by SPECTROPHOTOMETERY				
%TRANSFERRIN SATURATION: SERUM	23.04	%	15.0 - 50.0	
by CALCULATED, SPECTROPHOTOMETERY (FERENE)				
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	219.75	mg/dL	200.0 - 350.0	
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
IDON.			

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. SUSHANK			
AGE/ GENDER	: 30 YRS/MALE		PATIENT ID	: 1621972
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REFERRED BY	:		REGISTRATION DATE	: 23/Sep/2024 09:37 AM
BARCODE NO.	: 01517535		COLLECTION DATE	: 23/Sep/2024 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Sep/2024 12:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANT	Γ	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY	ROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM vescent microparticle immunoassay	0.394 7	ng/mL	0.35 - 1.93
		2.34 ^L	μgm/dL	4.87 - 12.60
THYROXINE (T4): SE by CMIA (CHEMILUMI IMMUNOASSAY)	NESCENT MICROPARTICLE			

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

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.

6.75 - 17.04

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

TRIIODOTH	YRONINE (T3)	THYROX	INE (T4)	THYROID STIMU	LATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00



3 - 6 Months



0.51 - 2.52

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3 - 6 Months

3 Days – 6 Months

0.70 - 8.40

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	MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mr. SUSHANK		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1621972
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	Γ	

Test Name			Value	Unit	t	Biological Reference interva
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	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREC	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, 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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	MD (Pa	i nay Chopra thology & Microbiology) an & Consultant Pathologist		(Pathology)
VAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. SUSHANK : 30 YRS/MALE : SURJESH : : 01517535 : KOS DIAGNOSTIC L : 6349/1, NICHOLSO]	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1621972 : 012409230026 : 23/Sep/2024 09:37 AM : 23/Sep/2024 09:47AM : 23/Sep/2024 11:28AM
est Name		Value	Unit	Biological Reference interval
		VITA	AMINS	
		VITAMIN D/25 HY	DROXY VITAMIN D3	
by CLIA (CHEMILUMIN	ROXY VITAMIN D3): SE ESCENCE IMMUNOASSAY)		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	g/mL
INSUF	FICIENT:	21 - 29		g/mL
	ED RANGE: CATION:	<u> </u>		g/mL g/mL
conversion of 7- dihy 2.25-OHVitamin D r issue and tightly bou 3.Vitamin D plays a p ohosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex	drocholecalciferol to Vi epresents the main boc und by a transport prot orimary role in the main ion, skeletal calcium de nay lead to failure to m	itamin D3 in the skin upon U ly resevoir and transport for ein while in circulation. Itenance of calcium homeos eposition, calcium mobilizat ineralize newly formed oste	Jltraviolet exposure. rm of Vitamin D and trans statis. It promotes calciun ion, mainly regulated by r	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Page 16 of 19





	Dr. Vinay C MD (Pathology Chairman & Co	hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD (CEO & Consultant	Pathology)
NAME	: Mr. SUSHANK			
GE/ GENDER	: 30 YRS/MALE	PATI	ENT ID	: 1621972
OLLECTED BY	: SURJESH	REG. 1	NO./LAB NO.	: 012409230026
EFERRED BY		REGIS	TRATION DATE	: 23/Sep/2024 09:37 AM
ARCODE NO.	: 01517535		ECTION DATE	: 23/Sep/2024 09:47AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 23/Sep/2024 11:28AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAI		NING DATE	. 20/ 5Cp/ 2024 11.20/14
Fest Name		Value	Unit	Biological Reference interval
	ALAMIN: SERUM	VITAMIN B12/CO 164 ^L	BALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUM MMUNOASSAY) NTERPRETATION:-	NESCENT MICROPARTICLE	164 ^L	pg/mL	
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE SED VITAMIN B12	164 ^L		
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREA: 1.Ingestion of Vitar	NESCENT MICROPARTICLE SED VITAMIN B12 nin C	164 ^L	pg/mL DECREASED VITAMIN	B12
by CMIA (CHEMILUMI MMUNOASSAY) <u>VTERPRETATION:-</u> INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	164 ^L 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest	pg/mL DECREASED VITAMIN in, Anti-convulsants, ion	B12
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	164 ^L 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv	pg/mL DECREASED VITAMIN in, Anti-convulsants, ion e Harmones	B12
by CMIA (CHEMILUM MMUNOASSAY) INTERPRETATION:- INCREA 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	164 ^L 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv 5.Haemodialys	pg/mL DECREASED VITAMIN in, Anti-convulsants, ion e Harmones is	B12
by CMIA (CHEMILUM MMUNOASSAY) INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Vitar 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	164 ^L 1.Pregnancy 2.DRUGS:Aspir 3.Ethanol Igest 4. Contraceptiv 5.Haemodialys 6. Multiple My	pg/mL DECREASED VITAMIN in, Anti-convulsants, ion e Harmones iss eloma	B12

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch e MD (Pathology & Chairman & Cons		Dr. Yugam MD (CEO & Consultant F	Pathology)
AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	: Mr. SUSHANK : 30 YRS/MALE : SURJESH : 01517535 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, 4	REGIST COLLE REPOR	NT ID 0./LAB NO. FRATION DATE CTION DATE TING DATE	: 1621972 : 012409230026 : 23/Sep/2024 09:37 AM : 23/Sep/2024 09:47AM : 23/Sep/2024 10:24AM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINATIO		CLINICAL PATH		ON
QUANTITY RECIEVED by DIP STICK/REFLECTA COLOUR by DIP STICK/REFLECTA TRANSPARANCY by DIP STICK/REFLECTA SPECIFIC GRAVITY	NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY	10 AMBER YELLOW CLEAR 1.01	ml	PALE YELLOW CLEAR 1.002 - 1.030
REACTION by DIP STICK/REFLECTA PROTEIN by DIP STICK/REFLECTA SUGAR by DIP STICK/REFLECTA PH by DIP STICK/REFLECTA BILIRUBIN by DIP STICK/REFLECTA UROBILINOGEN by DIP STICK/REFLECTA KETONE BODIES by DIP STICK/REFLECTA BLOOD	NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY NCE SPECTROPHOTOMETRY	NEUTRAL Negative Negative Negative Normal Negative Negative Negative	EU/dL	NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

NAME	: Mr. SUSHANK						
AGE/ GENDER	: 30 YRS/MALE	PATIENT	ID	: 1621972			
COLLECTED BY	: SURJESH	REG. NO./	LAB NO.	: 012409230026			
REFERRED BY	:	REGISTRA	ATION DATE	: 23/Sep/2024 09:37 AM			
BARCODE NO.	: 01517535	COLLECTION DATE		: 23/Sep/2024 09:47AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 23/Sep/2024 10:24AM			
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		NEGATIVE (-ve)	/HPF	0 - 3			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		2-3	/HPF	0 - 5			
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-2	/HPF	ABSENT			
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)		NEGATIVE (-ve)			
		NEGATIVE (-ve)		NEGATIVE (-ve)			
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)		NEGATIVE (-ve)			

OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

ABSENT





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

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NEGATIVE (-ve)

ABSENT