



	Dr. Vinay Chopr MD (Pathology & Mici Chairman & Consultai	robiology)		(Pathology)
NAME :	Mr. KEHAR SINGH			
AGE/ GENDER :	65 YRS/MALE		PATIENT ID	: 1561143
COLLECTED BY :	SURJESH		REG. NO./LAB NO.	: 012407260020
REFERRED BY :			REGISTRATION DATE	: 26/Jul/2024 09:50 AM
	01513832		COLLECTION DATE	: 26/Jul/2024 10:01AM
	KOS DIAGNOSTIC LAB		REPORTING DATE	: 26/Jul/2024 10:36AM
	6349/1, NICHOLSON ROAD, AMB	ALA CANTT		. 20/Jul/2024 10.50AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	COM		DOD COUNT (CBC)	
RED BLOOD CELLS (RBC	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11.9 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC)		4.09	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUME		38.1 ^L	%	40.0 - 54.0
MEAN CORPUSCULAR V		93.3	fL	80.0 - 100.0
MEAN CORPUSCULAR H		29.2	pg	27.0 - 34.0
MEAN CORPUSCULAR H	OMATED HEMATOLOGY ANALYZER HEMOGLOBIN CONC. (MCHC)	31.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTIO		14.3	%	11.00 - 16.00
RED CELL DISTRIBUTIO	OMATED HEMATOLOGY ANALYZER N WIDTH (RDW-SD) OMATED HEMATOLOGY ANALYZER	49.8	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	OMATED HEMATOLOGY ANALYZER	22.81	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		32.74	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (N	<u>NBCS)</u>			
TOTAL LEUCOCYTE COL	JNT (TLC) y s <i>f cube & micr</i> oscopy	7480	/cmm	4000 - 11000
NUCLEATED RED BLOO		NIL		0.00 - 20.00
NUCLEATED RED BLOO	OMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %



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

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







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

NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	P	PATIENT ID	: 1561143
COLLECTED BY	: SURJESH	F	REG. NO./LAB NO.	: 012407260020
REFERRED BY	:	F	REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	(COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 26/Jul/2024 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	52	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	41 ^H	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETR' ABSOLUTE LEUKOCY	y by sf cube & microscopy / TES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTRO		3890	/cmm	2000 - 7500
ABSOLUTE LYMPHO		3067	/cmm	800 - 4900
ABSOLUTE EOSINOP	HIL COUNT	150	/cmm	40 - 440

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
	150	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT	374	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS	<u>5.</u>		
PLATELET COUNT (PLT)	134000 ^L	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)	0.18	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		a	(50 40 0
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC)	62000	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	02000	7011111	30000 - 70000
PLATELET LARGE CELL RATIO (P-LCR)	46.3 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	40.5		
PLATELET DISTRIBUTION WIDTH (PDW)	17.1 ^H	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist





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







< 7.0

>8.0

<7.5

Age < 19 Years

	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD (CEO & Consultant I	Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PATI	ENT ID	: 1561143
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012407260020
REFERRED BY	:	REGI	STRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	COLI	ECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 26/Jul/2024 01:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	5.8	%	4.0 - 6.4
ESTIMATED AVERAGE		119.76	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	BETES ASSOCIATION (ADA):		
RE	FERENCE GROUP	GLYCOSYLATED	HEMOGLOGIB (HBAIC) in	%
	etic Adults >= 18 years		<5.7	
At F	Risk (Prediabetes) gnosing Diabetes	/	5.7 – 6.4 >= 6.5	

bAlc. Converse is true for a diabetic previously under good control but now poorly controlled.	
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	
gnificant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be	
poropiate. 4.High	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

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.

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

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.

Goals of Therapy

Actions Suggested

Goal of therapy



COMMENTS:



Therapeutic goals for glycemic control

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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



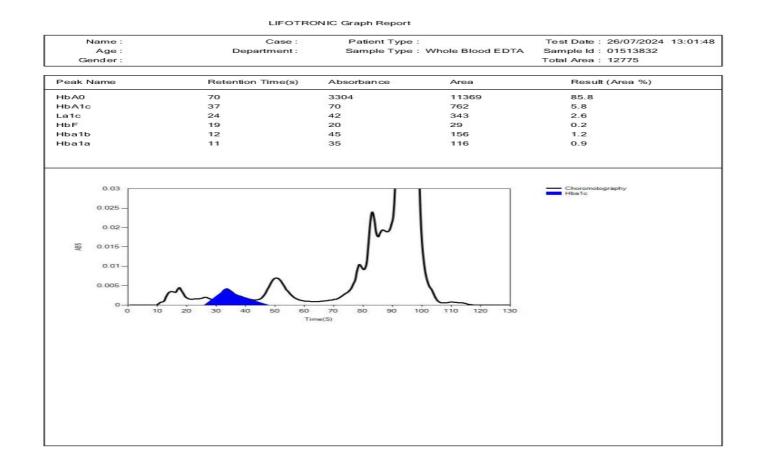
TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. KEHAR SINGH		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1561143
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407260020
REFERRED BY	:	REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 26/Jul/2024 01:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
Test Name	Value	Unit	Biological Reference interval







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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Che MD (Pathology & Chairman & Cons		Dr. Yugam (MD (P CEO & Consultant P	athology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PATI	ENT ID	: 1561143
COLLECTED BY	: SURJESH	REG. J	NO./LAB NO.	: 012407260020
REFERRED BY	:	REGIS	STRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	COLL	ECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 26/Jul/2024 11:21AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMENT	ATION RATE (ESR)	
		11	mm/1st hr	0 - 20
	MENTATION RATE (ESR)	67 ^H	11111/13111	0-20

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as devicen, methylicity and contracentives.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



Page 5 of 20





		Chopra y & Microbiology) Consultant Pathologist		(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1561143
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407260020
REFERRED BY	:		REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832		COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CL	INICAL CHEMIS	TRY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (I by GLUCOSE OXIDAS	E): PLASMA E - PEROXIDASE (GOD-POD)	90.58	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.





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Page 6 of 20





	MD (P	(inay Chopra athology & Microbiology) nan & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. KEHAR SINGE : 65 YRS/MALE : SURJESH : : 01513832 : KOS DIAGNOSTIC I : 6349/1, NICHOLSO	P/ RI RI CO	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE	: 1561143 : 012407260020 : 26/Jul/2024 09:50 AM : 26/Jul/2024 10:01AM : 26/Jul/2024 11:17AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TOTAL		195.51	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMA	143.91 (<i>אדו</i> כ)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		51.52	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		115.21	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		143.99 ^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: by CALCULATED, SPE		28.78	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Л	534.93	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPEC	ATIO: SERUM	3.79	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by CALCULATED, SPEC		2.24	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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)

KOS Central Lab:6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PATIE	NT ID	: 1561143
COLLECTED BY	: SURJESH	REG. N	IO./LAB NO.	: 012407260020
REFERRED BY	:	REGIS	TRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	COLLE	CTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	2.79 ^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



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1561143
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407260020
REFERRED BY	:		REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	:01513832		COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI			
	. 0010/1, 110110110110110110, 11			
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTIOI	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S by DIAZOTIZATION, SI		0.64	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT	C (UNCONJUGATED): SERUM	0.43	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	16.21	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	14.62	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE		1.11	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by Para Nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	126.04	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	43.7	U/L	0.00 - 55.0
TOTAL PROTEINS: SE		6.85	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	3.91	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.94	gm/dL	2.30 - 3.50
A : G RATIO: SERUM	l	1.33	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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





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

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



 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com

INTERPRETATION





	Dr. Vinay Chc MD (Pathology & I Chairman & Consi	Microbiology)	Dr. Yugarr MD CEO & Consultant	(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PA	TIENT ID	: 1561143
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012407260020
REFERRED BY	:	RE	GISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	:01513832	CO	LLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

DECREASED:

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

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

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1561143
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407260020
REFERRED BY	:		REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832		COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIE	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		29.11	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)		ů	
CREATININE: SERUN		1.17	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	IGEN (BUN): SERUM	13.6	mg/dL	7.0 - 25.0
by CALCULATED, SPE		10.0	ing, at	1.0 20.0
	OGEN (BUN)/CREATININE	11.62	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		24.88	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS	SE PEROXIDASE	7.29	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.96	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SEF	RUM DATE, SPECTROPHOTOMETRY	2.85	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SI ECTION HOTOMETRI			
SODIUM: SERUM		141.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.42		
POTASSIUM: SERUN by ISE (ION SELECTIV		4.43	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	,	106.2	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	,			
	RULAR FILTERATION RATE			
ESTIMATED GLOME (eGFR): SERUM by CALCULATED	RULAR FILTERATION RATE	69.2		

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.



KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com

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

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

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana Page 11 of 20





	Dr. Vinay Chop ı MD (Pathology & Mic Chairman & Consulta	crobiology)	Yugam Chopra MD (Pathology) onsultant Pathologist	
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1561143	
COLLECTED BY	: SURJESH	REG. NO./LAB N		
REFERRED BY	:	REGISTRATION		
BARCODE NO.	: 01513832	COLLECTION DA	TE : 26/Jul/2024 10:01	IAM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	FE : 26/Jul/2024 11:17	7AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value U	nit Biological	Reference interval
 Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an ir Cephalosporin the ESTIMATED GLOMERI CKD STAGE 	nd starvation. e. ecreased urea synthesis. (urea rather than creatinine diffuses imonemias (urea is virtually absent in of inappropiate antidiuretic harmone 10:1) WITH INCREASED CREATININE: apy (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure. 0: osis (acetoacetate causes false increation creased BUN/creatinine ratio). rapy (interferes with creatinine meas JLAR FILTERATION RATE: DESCRIPTION	n blood). e) due to tubular secretion of ure ne to creatinine). ase in creatinine with certain me surement). GFR (mL/min/1.73m2)	ethodologies,resulting in norm ASSOCIATED FINDINGS	al ratio when dehydratio
G1	Normal kidney function		No proteinuria	1
G2	Kidney damage with	>90	Presence of Protein,]
	normal or high GFR		Albumin or cast in urine	4
G3a	Mild decrease in GFR	60 -89		4
G3b	Moderate decrease in GF			4
G4	Severe decrease in GFR	15-29		4

G5



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

Kidney failure

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

<15









	Dr. Vinay Chopra MD (Pathology & Microbiole Chairman & Consultant Path		(Pathology)
NAME	: Mr. KEHAR SINGH		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1561143
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407260020
REFERRED BY	:	REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
			/
Test Name	Valu	e 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

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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







Μ	1D (Pathology &	Microbiology)		Pathology)
: Mr. KEHAR S	INGH			
: 65 YRS/MALE			PATIENT ID	: 1561143
: SURJESH			REG. NO./LAB NO.	: 012407260020
:			REGISTRATION DATE	: 26/Jul/2024 09:50 AM
:01513832			COLLECTION DATE	: 26/Jul/2024 10:01AM
: KOS DIAGNOS	TIC LAB		REPORTING DATE	: 26/Jul/2024 11:31AM
: 6349/1, NICH	OLSON ROAD, A	AMBALA CANTT		
		Value	Unit	Biological Reference interval
		IRON 63.4	PROFILE μg/dL	59.0 - 158.0
	CITY (UIBC)	501.96 ^H	μg/dL	150.0 - 336.0
G CAPACITY (TIBO		565.36 ^H	μg/dL	230 - 430
URATION: SERU		11.21 ^L	%	15.0 - 50.0
		401.41 ^H	mg/dL	200.0 - 350.0
				THALASSEMIA α/β TRAIT
RON:			ROW DEFICIENCY AIVEIVITA Reduced	Normal
NG CAPACITY:	Decre	ased	Increased	Normal
	Mr. KEHAR SP : 65 YRS/MALE : SURJESH : : 01513832 : KOS DIAGNOS : 6349/1, NICH COMPACIAL SECTION SCAPACITY (TIBE CAPACITY (TIBE CAPACITY (TIBE CAPACITY (TIBE CAPACITY (TERNE) COMPACINE SERVIT COMPACTOR SERVIT C	MD (Pathology & Chairman & Cons : Mr. KEHAR SINGH : 65 YRS/MALE : SURJESH : : 01513832 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A : 770/10000000000000000000000000000000000	: Mr. KEHAR SINGH : 65 YRS/MALE : SURJESH : : 01513832 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value IRON 63.4 TROPHOTOMETRY J BINDING CAPACITY (UIBC) 501.96 ^H TROPHOTOMETERY G CAPACITY (TIBC) 565.36 ^H HETERY URATION: SERUM ECTROPHOTOMETERY (FERENE) M HETERY (FERENE) LES ANEMIA OF CHRONIC DISEASE	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (CEO & Consultant Pathologist : Mr. KEHAR SINGH : 65 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : . REGISTRATION DATE : 01513832 COLLECTION DATE : 63 49/1, NICHOLSON ROAD, AMBALA CANTT Value Unit IRON PROFILE 63.4 µg/dL TROPHOTOMETRY J BINDING CAPACITY (UIBC) 501.96 ^H µg/dL TROPHOTOMETERY 565.36 ^H µg/dL VETERY 401.41 ^H mg/dL

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.

Decreased

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.

SERUM FERRITIN:

TOTAL IRON BINDING CAPACITY (TIBC): 1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow. **% TRANSFERRIN SATURATION:**

Normal to Increased

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.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



Normal or Increased





	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE]	PATIENT ID	: 1561143
COLLECTED BY	: SURJESH	1	REG. NO./LAB NO.	: 012407260020
REFERRED BY	:	1	REGISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	: 01513832	(COLLECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 26/Jul/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCE	RINOLOGY	
			RINOLOGY FION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM	THYROID FUNC ⁻ 0.61		0.35 - 1.93
<i>by CMIA (CHEMILUMII</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA	CHYROID FUNC 0.61 SSAY) 8.42	FION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60

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 Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased Subclinical Hyperthyroidism: Normal or High Normal Normal or High Normal Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	TRIIODOTHYRONINE (T3)		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





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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



Page 15 of 20





		Dr. Vinay Ch MD (Pathology & Chairman & Con			'ugam Chop MD (Patholo Isultant Patholo	ogy)	
NAME	: Mr. KEH	AR SINGH					
AGE/ GENDER	: 65 YRS/N	IALE		PATIENT ID	: 156	31143	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012	2407260020	
REFERRED BY	:			REGISTRATION D	ATE : 26/	/Jul/2024 09:50 AM	
BARCODE NO.	:0151383	2		COLLECTION DAT	E : 26/	/Jul/2024 10:01AM	
CLIENT CODE.	: KOS DIA	GNOSTIC LAB		REPORTING DATE	: 26/	/Jul/2024 11:17AM	
CLIENT ADDRESS	: 6349/1,]	NICHOLSON ROAD,	AMBALA CANTT				
Test Name			Value	Un	it	Biological Reference inter	val
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00		
1 - 10 Voars	0 92 - 2 28	1 10 Voars	6 00 12 20	1 - 10 Voors	0.60 5.50		

0.74 - 2.40	6 - 12 Months	7.10 – 16.16	6 – 12 Months	0.70 - 7.00	
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
RECOM	VIENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (µIU/mL)		
1st Trimester			0.10 – 2.50		
2nd Trimester		0.20 - 3.00			
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECOMI 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREGN 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	

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





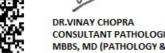
DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







	MD (Pat	nay Chopra hology & Microbiology) n & Consultant Pathologi		(Pathology)	
AME	: Mr. KEHAR SINGH				
GE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1561143	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 01240726002	D
REFERRED BY	:		REGISTRATION DATE	: 26/Jul/2024 09:	50 AM
BARCODE NO.	: 01513832		COLLECTION DATE	: 26/Jul/2024 10:	D1AM
LIENT CODE.	: KOS DIAGNOSTIC LA	В	REPORTING DATE	: 26/Jul/2024 11:	17AM
LIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT	Г		
Test Name		Value	Unit	Biologic	al Reference interval
		VI	TAMINS		
			HYDROXY VITAMIN D3		
	DROXY VITAMIN D3): SEF		ng/mL	INSUFFI SUFFICIE	NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0 Y: > 100.0
NTERPRETATION:					
	ICIENT: FICIENT:	< 20 21 - 29		g/mL g/mL	
	RED RANGE:	30 - 100		g/mL	
.25-OHVitamin D i issue and tightly bo	ound by a transport prote	resevoir and transport in while in circulation. enance of calcium home	form of Vitamin D and trans eostatis. It promotes calciun	n absorption, renal c	alcium absorption and
3. Vitamin D plays a p shosphate reabsorp 1. Severe deficiency n DECREASED: 1. Lack of sunshine ex 2. Inadequate intake 3. Depressed Hepatic 4. Secondary to adva 5. Osteoporosis and S 5. Enzyme Inducing d NCREASED: 1. Hypervitaminosis severe hypercalcemi	tion, skeletal calcium der may lead to failure to mir xposure. , malabsorption (celiac d c Vitamin D 25- hydroxyla nced Liver disease Secondary Hyperparathro drugs: anti-epileptic drugs D is Rare, and is seen onlia and hyperphophatemia	position, calcium mobiliz neralize newly formed os isease) se activity pidism (Mild to Moderat like phenytoin, phenob y after prolonged expose	steoid in bone, resulting in r	ickets in children and that increases Vitam of Vitamin D. When	l osteomalacia in adul in D metabolism. it occurs, it can result



 $\pi_{2,2,1}$

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Page 17 of 20





		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)		
NAME	: Mr. KEHAR SINGH					
AGE/ GENDER	: 65 YRS/MALE	PAT	TIENT ID	: 1561143		
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012407260020		
REFERRED BY			SISTRATION DATE	: 26/Jul/2024 09:50 AM		
BARCODE NO.	: 01513832		LECTION DATE	: 26/Jul/2024 10:01AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 26/Jul/2024 11:23AM		
			ORTING DATE	: 20/Jul/2024 11:23AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
		VITAMIN B12/0	OBALAMIN			
VITAMIN B12/COBA		223	pg/mL	190.0 - 890.0		
by CMIA (CHEMILUMII INTERPRETATION:-	NESCENT MICROPARTICLE IMMU	NOASSAY)				
	SED VITAMIN B12	DECREASED VITAMIN B12				
1.Ingestion of Vitar		1.Pregnancy				
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitar		3.Ethanol Igestion				
4.Hepatocellular ir 5.Myeloproliferativ		4. Contraceptive Harmones 5. Haemodialysis				
6.Uremia		6. Multiple Myeloma				
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 defici- ileal resection, smal 5.Vitamin B12 defici- proprioception, poo the neurologic defec 6.Serum methylmalc 7.Follow-up testing f NOTE: A normal seru deficiency at the cel	ency may be due to lack of IF I intestinal diseases). ency frequently causes macro r coordination, and affective its without macrocytic anemia poic acid and homocysteine le for antibodies to intrinsic fact m concentration of vitamin B	eins and requires intrinsion omically, reabsorbing vitar secretion by gastric mucco ocytic anemia, glossitis, po behavioral changes. These a. evels are also elevated in v cor (IF) is recommended to 12 does not rule out tissue IA. If clinical symptoms su	c factor (IF) for absorp nin B12 from the ileun sa (eg, gastrectomy, g eripheral neuropathy, e manifestations may o vitamin B12 deficiency o identify this potentia e deficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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



Page 18 of 20





	Dr. Vinay Che MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. KEHAR SINGH			
AGE/ GENDER	: 65 YRS/MALE	PAT	TIENT ID	: 1561143
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012407260020
REFERRED BY	:	REG	GISTRATION DATE	: 26/Jul/2024 09:50 AM
BARCODE NO.	:01513832	COI	LECTION DATE	: 26/Jul/2024 10:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	PORTING DATE	: 26/Jul/2024 10:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
	URINE RO	OUTINE & MICRO	SCOPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		AMBER YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRT	CLEAR		CLEAR
-	TANCE SPECTROPHOTOMETRY	/		
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				5.0 - 7.5
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Negative		
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANGE SPECI KUPHUTUMETKY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	·		

MICROSCOPIC EXAMINATION



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

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

Page 19 of 20





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mr. KEHAR SINGH				
AGE/ GENDER : 65 YRS/MALE		PATIENT ID		: 1561143	
COLLECTED BY	DLLECTED BY : SURJESH		'LAB NO.	: 012407260020	
REFERRED BY:BARCODE NO.: 01513832CLIENT CODE.: KOS DIAGNOSTIC LAB		REGISTRATION DATE COLLECTION DATE REPORTING DATE		: 26/Jul/2024 09:50 AM	
				: 26/Jul/2024 10:01AM	
				: 26/Jul/2024 10:48AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
<u> </u>					
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3	
	JENTRIFUGED URINART SEDIMENT				
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
PUS CELLS by MICROSCOPY ON C		2-3 1-2	/HPF /HPF	0 - 5 ABSENT	
PUS CELLS by MICROSCOPY ON O EPITHELIAL CELLS by MICROSCOPY ON O CRYSTALS	CENTRIFUGED URINARY SEDIMENT				

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT





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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT